

البيانات الشخصية



اسم العضو بالعربية	محسن محمد مسعد حسين
اسم العضو بالانجليزية	Mohsen Mohammed Mosaad Hussein
كود العضو	16093195000048
الدرجة الوظيفية الحالية	استاذ متفرغ
الحالة الوظيفية الحالية	قائم بالعمل
القسم	الفيزياء
التخصص العام	الطبيعه
التخصص الدقيق	فيزياء الجوامد
تاريخ الميلاد	1950/03/24
مكان الميلاد	شرق مدينة نصر
تاريخ التعيين	2009/08/01

بيانات المؤهلات

م	المؤهل	تاريخ الحصول علي المؤهل	الدولة	الجامعة/الكلية/القسم	التقدير	عنوان الرسالة باللغة العربية	عنوان الرسالة باللغة الإنجليزية
1	البكالوريوس	01/05/1972	مصر	جامعة القاهرة/ علوم/ طبيعه			
2	ماجستير	01/07/1978	مصر	جامعة القاهرة/ علوم/ طبيعه		خصائص الكهربائية ودراسة مرحلة انتقالية من KNO ₃	Electrical Properties and phase transition study of KNO ₃
3	دكتوراه	01/01/1983	مصر	جامعة القاهرة/ علوم/ طبيعه		دراسة توزيعات تعدد وكمية التحرك المتصاعد	Multiplicity ,transverse momentum and pseudo rapidity distribution of showers produced in K+ interac

التدرج الوظيفي

م	الدرجة الوظيفية	تاريخ شغل الوظيفة	الجامعة/الكلية/القسم
1	مدرس مساعد	01/03/1982	جامعة المنيا/ علوم/ الكيمياء
2	مدرس	27/07/1983	جامعة طنطا/ التربية - فرع كفر الشيخ/ كيمياء وطبيعه
3	استاذ مساعد	31/01/1990	جامعة طنطا/ التربية - فرع كفر الشيخ/ كيمياء وطبيعه



مركز نظم المعلومات الادارية

بيان حالة عضو - سجل العضو بالكامل



جامعة كفر الشيخ

جامعة طنطا/ التربية - فرع كفر الشيخ/ كيمياء وطبيعه	31/05/1995	استاذ	4
جامعة كفر الشيخ/ كلية العلوم/ الفيزياء	01/08/2010	استاذ متفرغ	5

الوظائف الإشرافية والإدارية

م	الدرجة الوظيفية	الوظيفة	تاريخ بدء الوظيفة	تاريخ نهاية الوظيفة
1	استاذ متفرغ	عميد الكلية	01/08/2009	31/07/2010

السيرة الذاتية

البيانات الأساسية

الإسم : محمد رمضان محمد عراقي

Mohamed Ramadan Mohamed Eraky

تاريخ الميلاد: ١٩٥٥/١٢/١٣

الوظيفة الحالية: أستاذ متفرغ بقسم الفيزياء – كلية العلوم -
جامعة كفر الشيخ

الحالة الإجتماعية: متزوج

بيانات الإتصال: تليفون: ٠١١١٥٩٨٥٢٦٨

بريد إلكتروني: moharamderak@yahoo.com

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التخصص العام : الفيزياء Physics التخصص الدقيق : فيزياء الجوامد Solid State Physics

المؤهلات العلمية والتدرج العلمي:

- (١) بكالوريوس العلوم في الفيزياء- كلية العلوم – جامعة طنطا – مصر (١٩٨١)
- (٢) تمهيدى الماجستير فى الفيزياء - كلية العلوم – جامعة القاهرة - مصر (1985-1986)
- (٣) الماجستير فى الفيزياء - كلية العلوم – جامعة القاهرة - مصر (١٩٨٩-1990)
- (٤) الدكتوراه في فيزياء الظواهر المغناطيسية – كلية الفيزياء- جامعة خاركوف – اكرانيا (١٩٩٥)
- (٥) استاذ مساعد فى فيزياء الجوامد بقرار اللجنة العلمية لترقية اعضاء هيئة التدريس (٢٠١٥).

التدرج الوظيفي

- (١) معيد – قسم الفيزياء – كلية التربية بكفر الشيخ – (جامعة طنطا سابقاً) - كفر الشيخ (١٩٨٢)
- (٢) مدرس مساعد – قسم الفيزياء – كلية التربية بكفر الشيخ – (جامعة طنطا سابقاً) - كفر الشيخ ١٩٨٨
- (٣) مدرس – قسم الفيزياء – كلية التربية – جامعة كفر الشيخ (١٩٩٥).
- (٤) أستاذ متفرغ – قسم الفيزياء – كلية العلوم – جامعة كفر الشيخ (2015).

الانجازات

Current Research Interests Solid State Physics - Magnetism, Ferrites-Soft and Hard Ferrites



PhD & MSc thesis titles

MSc : "Characteristics of the interactions 55 GeV/c protons with emulsion – nuclei"

PhD: " NMR and Magnetic Relaxation In Hexa-Ferrite M-type"

قائمة الابحاث المنشورة

1 - Magnetic relaxations of nuclei Fe 57 in hexaferrites of the type M" A. A. Bezlepkin, M. R. Eraky, S. P. Kuntsevich, and V. P. Palekhin. УФЖ Ukraine Physics Journal. 1994. – vol. 39. No4. (37-40).

2 - Magnetic relaxation of Fe 57 nuclei of magnetoplumbite" A. A. Bezlepkin, M. R. Eraky, S. P. Kuntsevich, and V. P. Palekhin. ФНТ (low temperature physics journal), 1994. vol. 20 , No 9 . (886 – 890).

3 – " Magnetic properties and NMR studies of the SrAlM hexagonal ferrite system" M. R. Eraky, A. A. Bezlepkin, S. P. Kuntsevich. Materials Letters, Vol 57, 2003 . 3427 – 3430

4- M R Eraky, Electrical conductivity of cobalt–titanium substituted SrCaM hexaferrites, Journal of Magnetism and Magnetic Materials 324 (2012) 1034–1039.

5- M.R. Eraky, S.M.Attia, Transport properties of Ti–Ni spinel ferrites, Physica B 462 (2015) 97–103.

6- M.R. Eraky, Abnormal behavior on AC electrical conductivity for Ni-Ti ferrite system, International Journal of Scientific & Engineering Research, 6, 9 (2015) 1588- 1592.

7- M. R. Eraky, Structural and Transport Properties of Fine CoTi-ZnBaM Hexagonal Ferrite, International Journal of Science and Research (IJSR), 4, (2015) 486-489.



- 8 – M.R. Eraky, Abnormal dielectric behavior in Ti-Ni spinel ferrite, International Journal of Scientific Engineering and Research (IJSER) Volume 3 Issue 11, November 2015, 72- 78.
- 9 - M. R. Eraky, On the AC electrical behavior of CaSrCoTiM hexagonal ferrites, Advances in Applied Science Research, 6(11)2015, 62-67.
- 10- M. R. Eraky, Mohamed Th S Heikel, Semi-Conductive Behavior of Plio-Quaternary Basaltic Lava Flows from Hemat Madam Volcano, Sana'a-Amran Volcanic Field, Yemen, Journal of Applied Mathematics and Physics (JAPM), , (2015).
- 11 – M. R. Eraky, Dielectric Properties in Co-Ti Doped CaSrM Hexaferrites, ISOR Journal of Applied Physics, Volume 7, Issue 6 Ver. I (Nov. - Dec. 2015), PP 71-76.
- 12 - K. R. Mahmoud & M. R. Eraky, AC Dielectric Properties and Positron Annihilation Study on Co and Ti Substitution Effect on Ca–Sr M-Hexaferrites, Braz J Phys 2016, DOI 10.1007/s13538-016-0408-5
- 13- El-Shaer, A., Abdelfatah, M., Mahmoud, K. R., Momay, S., & Eraky, M. R "Correlation between photoluminescence and positron annihilation lifetime spectroscopy to characterize defects in calcined MgO nanoparticles as a first step to explain antibacterial activity." *Journal of Alloys and Compounds* 817 (2020): 152799
- 14- Nagi M. El-Shafai ^a, Abdelhamed El-Shaer ^b, Mohamed R. Eraky ^b, Mohamed M. Ibrahim ^c, Mohamed S. Ramadan ^d, Ibrahim M. El-Mehasseb, ^a Enhancing electron density, electrochemical, and dielectric properties of nanohybrid materials for advanced



photocatalytic antifouling and energy storage. *Diamond and Related Materials*, Volume 119, November 2021, 108543

15 – M. Sami ^a, S. Elkun ^b, Mohsen Ghali ^{a b}, M.M. Mosaad ^b, M.R. Eraky ^b, Hybrid solar cell made of an electron transport layer of n-PEDOT:PSS and p-CuInGaSe₂ nanocrystals film, *Materials Letters*, Volume 300, 1 October 2021, 130155

بحوث القيت في مؤتمرات دولية

1. M El-Nadi, O.E. Badawy, N. Mettwalli, M.A. Elleithy, A. Hussien, E. A. Shaat, Z. Abou Moussa, A.A. Hamed, S. Kamel, Sh. Talaat, M. R. Eraky, A. Mohamed, T. Nower, L.K. Ibrahim, A. Fakiha, A. ElSourogy, M. Raid, N. Rashed and W. Osman, INTERACTIONS OF 200 AgeV S PROJECTILES WITH NUCLEAR EMULSIONS, 23rd Rencontre de Moriond, March 13- 19, 58, (1988).
2. A.A. Belepkin, M.R. Eraky, S.P. Kuntsevich, and V. P. Palekhin Magnetic relaxation nuclii 57Fe on Hexaferrite type M, Karkov Governemet University, 1993, PP.20.
3. A.A. Belepkin, M.R. Eraky, S.P. Kuntsevich, and J. Pietrsak, Nuclear Magnetic Relaxation in hexaferrites, International Conference on Magnetism ICM'94. Warshawa 1994, pp. 446
4. A.A. Belepkin, M.R. Eraky, S.P. Kuntsevich, Nuclear magnetic relaxation in hexaferrite structures M-type, International Conference in Physical magnetic phenomena, Donsik, Ukrania, 1994, pp.42.
5. A.A. Belepkin, M.R. Eraky, S.P. Kuntsevich, Magnetic relaxation in natural frequency for Bloch boundary, International Conference in Physical magnetic phenomena, Donsik, Ukrania, 1994, pp.43.
6. A.A. Belepkin, M.R. Eraky, S.P. Kuntsevich, and V. P. Palekhin, Anisotropy magnetic properties and NMR characterization for magnetic ions in hexaferrites SrAl₁₂Fe₁₂-δO₁₉. International Conference on Magnetic phenomema in solid state , Karkov Governemet University, 1995, PP.115.



7. M.R. Eraky, S.M. Attia, Structural, Thermal and Electrical Properties of $TixNi(1+x)Fe(2-2x)O_4$ Spinel Ferrite System, THE XXXI INTERNATIONAL CONFERENCE ON Material Science and Applications, Hurghada Egypt, January 6:9 – 2015, pp 87

بيان بورش العمل

1- Assut University Electron Microscope Unit, A Workshop-Training Course in Electron Microscopy (TECHNIQUES&INTERPERETATIONS) Assut, Egypt, 22- 27/3/2008.

2- Egyptian System of Accounting for and Control of Nuclear Material (ESAC) on Nuclear Safeguards EAEA (27 July, 2010).

3- Eg- MRS workshop on Materials Hurghada Egpyy January 6-9 ,2015

بيان بالدورات التدريبية

- ١- اجتاز دورة اعداد المعلم الجامعي ١٩٩٥م
- ٢ – اجتاز عدة دورات في الحاسب الالى وحصل منها على الرخصة الدولية لقيادة الكمبيوتر ICDL من مكتب اليونسكو بالقاهرة.
- ٣ - اجتاز دورة الاتصال الفعال كجزء من تنمية قدرات اعضاء هيئة التدريس FOEP المنعقد في ٢٠٠٥م.
- ٤ - اجتاز دورة البحث التربوي كجزء من تنمية قدرات اعضاء هيئة التدريس FOEP المنعقد في ٢٠٠٥م.
- ٥- اجتاز دورة تقويم الاداء كجزء من تنمية قدرات اعضاء هيئة التدريس FOEP المنعقد في ٢٠٠٥م.
- ٦ - اجتاز دورة نظم وتكنولوجيا المعلومات كجزء من تنمية قدرات اعضاء هيئة التدريس FOEP المنعقد في ٢٠١٤م.
- ٧- اجتاز دورة تصميم المواقع كجزء من تنمية قدرات اعضاء هيئة التدريس FOEP المنعقد في ٢٠١٥م.

الانشطة:

أولاً: الأنشطة التدريسية

- قام بتدريس جميع مقررات الفيزياء التى اسندت اليه من قبل القسم لطلاب مرحلة البكالوريوس والدراسات العليا
- شارك فى الاشراف على مشاريع التخرج لطلاب التخصص
- شارك فى الامتحانات العملية والنظرية والشفوية
- شارك فى لجان الامتحان واعمال الكنترول
- شارك فى برنامج التأهل التربوى فى كلية التربية

ثانياً: الأنشطة البحثية

- شارك مع المجموعة البحثية فى تجهيز معمل علوم المواد بالقسم
- قام بأبحاث منفرد ومشاركة مع آخرين فى مجال فيزياء الجوامد وفيزياء الظواهر المغناطيسية حيث تركزت ابحاثه على الفيرايت السداسى والمكعبى.
- شارك فى مؤتمرات علمية محلية ودولية وورش عمل بحثية.
- شارك فى الاشراف على رسائل الماجستير ضمن الخطة العلمية لقسم الفيزياء.

ثالثاً : الأنشطة الجامعية

- شارك فى الأنشطة الجامعية وفى فاعليات المحاضرات والندوات والمؤتمرات التى نظمتها الكلية والجامعة.
- قام بعمل ضابط الاتصال بين جامعة كفر الشيخ وهيئة الطاقة الذرية فى مجال المراقبة والمحاسبة والامان النووى والكشف عن المواد النووية بالجامعة.
- شارك مع فريق العمل فى الاعداد لحصول الكلية على الجوده والاعتماد.
- شارك فى اجتماعات مجلس القسم واللجان والمنبثقة عن مجلس كلية التربية وكلية العلوم.

Prof. Dr. Taher Morsey Atia Sharshar

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Physics Department, Faculty of Science
Kafrelsheikh University
Kafr El-Sheikh, Egypt
Egypt

EDUCATION

- Doctor of Science in Nuclear Physics, Kyoto University, Kyoto, Japan, 1993.
"Studies on the neutron-rich isotopes far from the stability line using the on-line isotope separator KUR-ISOL".
- M.Sc. degree in Physics, Faculty of Science, Tanta University, Tanta, Egypt, 1986.
"Application on neutron activation analysis using the K_O -standardization technique to human hair".
- B.Sc. (Physics), Faculty of Science, Tanta University, Tanta, Egypt, 1979.

WORK EXPERIENCE

2017 - present	Prof. of Experimental Nuclear Physics, Department of Physics, Faculty of Science, Kafrelsheikh University, Kafr El-Sheikh, Egypt
2008 – 2017	Prof. of Experimental Nuclear Physics, Department of Physics, Faculty of Science, Taif University, Saudi Arabia.
2006 – 2008	Prof. of Experimental Nuclear Physics, Department of Physics, Faculty of Science, Kafrelsheikh University, Kafr El-Sheikh, Egypt.
2000 – 2006	Associate Prof., Department of Physics and Chemistry, Faculty of Education, Tanta University, Kafr El-Sheikh, Egypt.
Apr. 2001– Mar. 2002	Research Physicist, LPNHE, Ecole Polytechnique, 91128 Palaiseau, France. Experiment: Gamma Ray Large Area Space Telescope (GLAST)
1993 – 2000	Lecturer, Department of Physics and Chemistry, Faculty of Education, Tanta University, Kafr El-Sheikh, Egypt.
1988-1993	Ph.D. student, the group of the on-line isotope separator of Kyoto University Research Reactor Institute (KUR-ISOL), Japan
1986 – 1993	Assistant Lecturer, Department of Physics and Chemistry, Faculty of Education, Tanta University, Kafr El-Sheikh, Egypt.
1982 – 1986	Demonstrator, Department of Physics and Chemistry, Faculty of Education, Tanta University, Kafr El-Sheikh, Egypt.

Some COURSES TAUGHT

- All the Basic Physics Courses
- Nuclear Physics
- Radiation Physics
- Radiation Detection and Measurements

RESEARCH AREAS

- Radiation Detection and Measurements
- Positron Annihilation spectroscopy
- High Energy Physics

SELECTED PUBLICATIONS

1. Kh.A Ramadan, M.K. Seddeek, T. Elnimr, T. Sharshar, H.M. Badran, "Spatial Distribution of Radioisotopes in the Coast of Suez Gulf, Southwestern Sinai and the Impact of Hot Springs". Radiation Protection Dosimetry, published online December 8, 2010 doi:10.1093/rpd/ncq446.
2. H.I. El-Reefy, T. Sharshar, T. Elnimr, H.M. Badran, "Distribution of gamma-ray emitting radionuclides in the marine environment of the Burullus lake: II. bottom sediments". Environmental Monitoring and Assessment 169 (2010) 273-284..
3. T. Sharshar , A. Sh. Aydarous, H. E. Hassan, H. A. Arida, "Natural radioactivity and heavy metals in some well waters in Makkah and Taif region, Saudi Arabia", Environmental Monitoring and Assessment, submitted (2010).
4. M. K. Seddeek, T. Sharshar, H. M. Badran, "Inter-comparison study of the population dose due to gamma-radiation in the coast of north Sinai between Rafah and Bir El-Abd areas". Radiation Protection Dosimetry **Vol. 135 No. 4** (2009) 261–267.
5. M.K. Seddeek, A.M. Kozae, T. Sharshar, H.M. Badran, "Reduction of the dimensionality and comparative analysis of multivariate radiological data". Applied Radiation and Isotopes **67** (2009) 1721–1728.
6. N.M. Mourad, T. Sharshar, T. Elnimr and M.A. Mousa, "Radioactivity and fluoride contamination derived from a phosphate fertilizer plant in Egypt". Applied Radiation and Isotopes **67** (2009) 1259–1268.
7. M.H. Shaaban, K.R. Mahmoud, T. Sharshar and A.A. Ahmed, "Positron annihilation lifetime study of Ag-ion exchanged and heat treated soda lime glass". Nucl. Instr. and Meth. **B258** (2007) 352-356.
8. E.E. Assem, K.R. Mahmoud, T. Sharshar and C. Siligardi, "Structure, magnetic and positron lifetime studies on CaO-ZrO₂-SiO₂ glass system doped with vanadium oxide". J. Phys. D: Appl. Phys. **39** (2006) 734-739.
9. H.I. El-Reefy, T. Sharshar, R. Zaghoul and H.M. Badran, "Gamma-ray radioactivity distribution in the marine environment of the Burullus lake: I. Soils and Vegetations." J. Environ. Radioactivity **87** (2006) 148-169.
10. K.R. Mahmoud, S. Al-Sigeny, T. Sharshar and H. El-Hamshary, "Positron annihilation study on free volume of amino acid modified, starch-grafted acrylamide copolymer". Rad. Phys. Chem. **75** (2006) 590-595.

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11. Mostafa K. Seddeek, Taher Sharshar, Hossam S. Ragab and Hussein M. Badran, "Radioactivities related to coal mining". *J. Environ. Monit.* **7** (2005) 767-770.
 12. H.A. El-Gharbawy, S.M. Metwally, T. Sharshar, T. Elnimr and H.M. Badran, "Establishment of HPGe detector efficiency for point source including true coincidence correction". *Nucl. Instr. and Meth.* **A550** (2005) 201-211.
 13. T. Sharshar and M.L. Hussein, "An optimization of energy window settings for positron annihilation lifetime spectrometers". *Nucl. Instr. and Meth.* **A546** (2005) 584-590.
 14. M.K. Seddeek, H.M. Badran, T. Sharshar and T. Elnimr, "Characteristics, spatial distribution and vertical profile of gamma-ray emitting radionuclides in the coastal environment of north Sinai". *J. Environ. Radioactivity* **84** (2005) 21-50.
 15. P. Fleury, T. Sharshar, G. Bogaert and A. Debraine, Proceedings of the International Conference on Mathematics, Nuclear Physics and Applications in the 21st Century (Cairo, Egypt). "Ecole Polytechnique cosmic-muon test bench for ground tests of the GLAST Calorimeter" (2003) 365- 371.

HONOURS, AWARD, AND AFFILIATIONS

- MONBUSHO Scholarship (Japan).
 - Scientific Publication Award, Kafrelsheikh University, Egypt (2008-2022).
 - Scientific Publication Award, Taif University.
-



البيانات الشخصية

اسم العضو بالعربية كمال رياض محمود اسماعيل
اسم العضو بالانجليزية Kamal Riad Mahmoud Ismail
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الدرجة الوظيفية الحالية استاذ متفرغ
الحالة الوظيفية الحالية قائم بالعمل
القسم الفيزياء
التخصص العام فيزياء
التخصص الدقيق فيزياء نوويه
تاريخ الميلاد 1958/06/14
مكان الميلاد المحلة الكبرى
تاريخ التعيين 2009/08/01

بيانات المؤهلات

م	المؤهل	تاريخ الحصول على المؤهل	الدولة	الجامعة/الكلية/القسم	التقدير	عنوان الرسالة باللغة العربية	عنوان الرسالة باللغة الإنجليزية
1	البكالوريوس	01/05/1981	مصر	جامعة طنطا/ كلية العلوم/ الطبيعة			
2	ماجستير	01/05/1981	مصر	جامعة طنطا/ كلية العلوم/ الطبيعة		اسرخاء الاجهاد الميكانيكي في بعض الفلزات	
3	دكتوراه	30/11/1994	مصر	جامعة طنطا/ كلية العلوم/ الطبيعة		تجارب تطابق الالكترون-فوتون	

التدرج الوظيفي

م	الدرجة الوظيفية	تاريخ شغل الوظيفة	الجامعة/الكلية/القسم
1	معيد	02/04/1983	جامعة طنطا/ التربية - فرع كفر الشيخ/ كيمياء وطبيعه
2	مدرس مساعد	09/11/1988	جامعة طنطا/ التربية - فرع كفر الشيخ/ كيمياء وطبيعه
3	مدرس	29/12/1994	جامعة طنطا/ التربية - فرع كفر الشيخ/ كيمياء وطبيعه
4	استاذ مساعد	26/08/2007	جامعة طنطا/ التربية - فرع كفر الشيخ/ كيمياء وطبيعه
5	استاذ	30/01/2017	جامعة كفر الشيخ/ كلية العلوم/ الفيزياء
6	استاذ متفرغ	13/06/2018	جامعة كفر الشيخ/ كلية العلوم/ الفيزياء

قائمة بالبحوث للعضو

م	البحث	نوع البحث	تاريخ البحث
1	Electron – photon polarisation -1 correlation measurements for the first excited 1P1 States of Alkali–Earth .Metals	منفرد	
2	Electron Impact coherence and -2 correlation parameters for the excitation .of the 51P State in Strontium	منفرد	
3	Electron–Photon Polarisation -3 Correlation Measurements on Ca and .Sr	منفرد	
4	Electron-impact coherence parameters - .for the excitation of the 51P state of Sr	منفرد	
5	Preliminary Results of the - Radionuclide contents in Building .Materials used in Egypt	منفرد	
6	Radioactivity In Egyptian Newspapers	منفرد	
7	Natural Radionuclides and -	منفرد	
8	Natural and Artificial Radioactivities in - .Local and Imported Cements	منفرد	
9	Local Enhancement of the Natural - Radionuclides in Beach Sand in Al- .Arish, Egypt	منفرد	
10	Positron annihilation study on free volume of amino acid modified, starch- .grafted acrylamide copolymer	منفرد	
11	Structure, Magnetic and Positron - Lifetime Studies on CaO-ZrO ₂ -SiO ₂ Glass System Doped with Vanadium .Oxide	منفرد	
12	Radionuclide Content of Local and - .Imported Cements Used in Egypt	منفرد	
13	Positron annihilation lifetime study of Ag-ion exchanged and heat treated .soda lime glass	منفرد	
14	Enantiopure N-sulfonylamino alcohols " and their copolymers as chiral auxiliaries for the highly enantioselective allylboration of "aldehydes S. Itsuno, A. A. El-Shehawy and A. A. Sarhan	منفرد	



مركز نظم المعلومات الادارية

بيان حالة عضو - سجل العضو بالكامل



جامعة كفر الشيخ

Curriculum Vitae

Name:	Fatma El-Sayed Mahrous Othman		
Degree:	Assistant professor		
E-mails:	fatmamahrous@sci.kfs.edu.eg fatma_mahrous@yahoo.com		
Phone:	00201094407124		
Academic Career:			
Degree	Specialization	Institution	Year
Ph.D.	Theoretical Atomic Physics	Tanta University - Egypt	2011
M.Sc.	Theoretical Atomic Physics	Tanta University - Egypt	2007
B.Sc.	Physics	Tanta University - Egypt	2004
Employment:			
Position	Employer	Period	
Assistant professor	Kafrelsheikh University - Egypt	2017- till now	
Lecturer	Kafrelsheikh University - Egypt	2011- 2017	
Assistant lecturer	Kafrelsheikh University - Egypt	2007-2011	
Demonstrator	Kafrelsheikh University - Egypt	2002-2007	
Publications:			
1. Fatma El-Sayed, "Excitation energies, lifetimes, and transition data for Zr XXIX", Journal of Quantitative Spectroscopy and Radiative Transfer 296 (2023) 108431.			
2. Amal Althiyabi, and Fatma El-Sayed, "Energies and transition data for Be-like hafnium and tantalum ions", Atomic Data and Nuclear Data Tables 147 (2022) 101528.			
3. S. M. Attia and Fatma El-Sayed, "Relativistic excitation energies and transition			

data for In XL and Sn XLI”, Journal of Quantitative Spectroscopy and Radiative Transfer 283 (2022) 108139.
4. Fatma El-Sayed, “Relativistic excitation energies and transition data for Ag XLIV and Cd XLV”, Journal of Quantitative Spectroscopy and Radiative Transfer 276 (2021) 107930.
5. Fatma El-Sayed, “Relativistic multiconfiguration Dirac-Hartree-Fock calculations for energies, lifetimes, and E1, E2, M1, and M2 line strengths of Y XXXII”, Journal of Quantitative Spectroscopy and Radiative Transfer 271 (2021) 107736.
6. Fatma El-Sayed, “Energy levels, line strengths, and lifetimes for Mo XXXVI”, Journal of Quantitative Spectroscopy and Radiative Transfer 262 (2021) 107534.
7. Fatma El-Sayed, “Energies and E1, M1, E2, and M2 line strengths for Nb XXXIV”, Journal of Quantitative Spectroscopy and Radiative Transfer 261 (2021) 107440.
8. Fatma El-Sayed, “Energy levels and transition probabilities for transitions in Zr XXXV”, Journal of Quantitative Spectroscopy and Radiative Transfer 255 (2020) 107237.
9. Fatma El-Sayed, “Energy levels, wavelengths, and transition probabilities for transition in Pd XLII”, Journal of Quantitative Spectroscopy and Radiative Transfer 254 (2020) 107204.
10. Fatma El-Sayed and Z. S. Matar, “Energy Levels and Transition Rates for Ti XIV”, Physics of Particles and Nuclei Letters 16 (2019) 713-728.
11. Fatma El-Sayed and S. M. Attia, “Energies, Wavelengths, and Transition Probabilities in Sc XIII”, Physics of Atomic Nuclei 82 (2019) 583-598.
12. Fatma El-Sayed and S. M. Attia, “Energy Levels and Radiative Rates for Transitions in Mo XV”, Journal of Physics: Conference Series 869 (2017) 012002.

13. Fatma El-Sayed and S. M. Attia, "Energies, Wavelengths, and Transition Rates for Ga-Like Ions (Nd XXX-Tb XXXV)", Journal of Applied Spectroscopy 83 (2016) 126-132.
14. Fatma El-Sayed, Manal Khered and S. M. Attia, "Energies and Transition Rates for Be-Like Ions (Xe LI - Ce LV)", European Physical Journal Plus 130 (2015) 104.
15. Fatma El-Sayed, "Energy Levels and Transition Rates for Ga-Like Ions (Xe XXIV-Pr XXIX)", Journal of Applied Spectroscopy 82 (3) (2015) 487-493
16. Fatma El-Sayed, "Energy Levels, Lifetimes, and Transition Probabilities for Mn XII and Ge XIX", Atomic Data and Nuclear Data Tables 100 (2014) 1250-1276
17. Fatma El-Sayed, "Energies, Wavelengths, and Multipole Transition Probabilities for B-like Fe, and Ga ions", Atomic Data and Nuclear Data Tables 99 (2013) 545-579
18. Fatma El-Sayed, "Energy Levels and Radiative Rates for Transitions in Ga XXIV", Atomic Data and Nuclear Data Tables 98 (2012) 720-778
19. O. Nagy and Fatma El-Sayed, "Energies, Wavelengths and Transition Probabilities for Ge-like Kr, Mo, Sn, and Xe ions", Atomic Data and Nuclear Data Tables 98 (2012) 373-390.
20. O. Nagy and Fatma El-Sayed, "Relativistic Atomic Data for Lines in Ge-Like Sm and Eu Ions", Journal of Physics: Conference Series 388 (2012) 152001.
Experience:
1. Participation in the "Frontiers in Theoretical and Applied Physics Conference", American University, Sharjah, UAE (2017)
2. Participation in the "Fifth Saudi Science Conference", Umm Al-Qura University, KSA (2012)
3. Participation in the "XXVII International Conference on Photonic, Electronic, and Atomic Collisions (ICPEAC), Belfast, UK (2011)

4. Participation in the "Seventh International Scientific Conference Environment, Development, and Nanotechnology", Al-Azhar University, Cairo, Egypt (2010)

Training Programs:

١- برنامج "نظام الساعات المعتمدة" جامعة كفر الشيخ (٢٠٢٠/١٠/١٢ - ٢٠٢٠/١٠/١٤)

٢- برنامج "الإدارة الجامعية" جامعة كفر الشيخ (٢٠٢٠/١٠/٢٠ - ٢٠٢٠/١٠/٢٢)

٣- برنامج "الجوانب المالية والقانونية" جامعة كفر الشيخ (٢٠٢٠/١١/٣ - ٢٠٢٠/١١/٥)

٤- برنامج "مشروعات البحوث التنافسية" جامعة كفر الشيخ (٢٠٢٠/١١/١٧ - ٢٠٢٠/١١/١٩)

٥- برنامج "إدارة الجودة في العملية التدريسية" جامعة كفر الشيخ (٢٠٢١/٤/١٣ - ٢٠٢١/٤/١٥)

٦- برنامج "إدارة الوقت" جامعة كفر الشيخ (٢٠٢٢/١/٤ - ٢٠٢٢/١/٦).



Atif Mahmoud Ismail

Curriculum Vitae

PERSONAL DETAILS

Birth 1/4/1967
Address Physics Dept., Faculty of Science, Umm Al-Qura Univ., Makkah, KSA
Phone 00966549891577
Mail atifmailus@yahoo.com

EDUCATION

Primary school 1973-1979

Prep school 1979-1982

Secondary school 1982-1985

BSc. (Physics) 1989
Tanta University, Egypt

Advanced postgraduate courses in Physics 1990-1991
in partial fulfilment of the requirements of the master degree

MSc. (Solid State Physics) 1997
Tanta University, Egypt
Effect of Lanthana and Niobia Additives on the Physical Properties of Barium Titanate Ceramics.

Ph.D. degree (Theor. Physics HTSuperconductors) 2008
Hamburg University, Germany
The Study of Some Physical Properties of High Temperature Superconductors.

WORK EXPERIENCE

Demonstrator 1991-1997
Physics Dept., Faculty of Education, kafrelsheikh, Tanta Univ., Egypt

Assistant Lecturer 1998-2008
Physics Dept., Faculty of Education, kafrelsheikh, Tanta Univ., Egypt

Lecturer 2009-2010
Physics Dept., Faculty of Education, kafrelsheikh Univ., Egypt

Manager of the Maintenance Unit 2011-2014
Physics Dept., Faculty of Science, kafrelsheikh Univ., Egypt

Lecturer 2010-2014

Physics Dept., Faculty of Science, Kafrelsheikh Univ., Egypt

Lecturer

2014-present

Physics Dept., Faculty of Applied Science, Umm Al-Qura Univ., KSA

TEACHING EXPERIENCE

Undergraduate level courses

e. g.: Heat, Properties of Matter, Geometrical & Physical Optics, E&M and EM Theory, Electrodynamics, Astrophysics, Plasma Physics, Elasticity Theory, Mathematical Physics, Numerical analysis, Modern Physics, Analytical Mechanics, Quantum Mechanics, Solid State Physics

Graduate level courses

e. g.: Adv. Quantum Mechanics, Adv. Mathematical Physics, Mol. Spectroscopy

SKILLS

Software COMPUTER MAINTENANCE, L^AT_EX, FORTRAN77, MATHEMATICA, PLOTTING & DIAGRAM PROGRAMS LIKE GNUPLOT & DIA, LIBRE OFFICE: OPEN-SOURCE OFFICE SOFTWARE SUITE FOR WORD PROCESSING, SPREADSHEETS, PRESENTATIONS, GRAPHICS, DATABASES AND MORE.

RESEARCH EXPERIENCE

Experimental

- *preparation of Ferrites & Dielectric Materials by means of Ceramic method,*
- *Dielectric constant & Dielectric loss measurements by means of RLC bridges,*
- *DC conductivity & AC conductivity measurements by means of RLC & Electrometer,*
- *X-ray analysis,*
- *UV analysis.*

Theoretical

- *Calculation of DOS & its inverse function for HTSC by means of Green's functions,*
- *Calculation of AC & DC conductivity for HTSC by means of Green's functions,*
- *Calculation of impurity states in HTSC,*
- *Using QMC methods in determining electronic configuration of the chemical elements.*

Research Project

- *STDF Project (11-2010—10-2013) funding: (2 Million L.E.)*
Project entitled: Low- cost Nano-Wire Solar Cell and White Light Emitting Diode based on Zinc Oxide-Polymer hybrid Nano-structures (NANO-SOLED)

Co-supervision

Master

- *Ms. Nagat Mahmoud, Physics Dept., Faculty of Science, Kafrelsheikh Univ., Egypt.*
Master thesis entitled: *Study some Quantum Monte Carlo Techniques And Applications.*
- *Ebtehal Mastur Althobaiti, Physics Dept., Faculty of Applied Science, Umm Al-Qura Univ., KSA.*
Master thesis entitled: *Some Applications Of Diffusion Monte Carlo (DMC) Method*

Ph. D.

- *Ms. Nagat Mahmoud, Physics Dept., Faculty of Science, Kafrelsheikh Univ., Egypt.*
Ph. D. thesis entitled:

ACTIVITIES

- *Take part in Pro-seminar at 1 institute for theoretical physics, Hamburg univ. Germany, WS2004-2005, about Quantum Monte Carlo.*
- *Work shop at 1 institute for theoretical physics, Hamburg univ. Germany, 2005, about Quantum Monte Carlo.*
- *Work shop about course specification at Faculty of Sc. Kafrelsheikh Univ. Egypt (2011).*

REFERENCES

- A quantum Monte Carlo study of Lanthanum, World journal of condensed matter physics, 2013, Vol. 3, No. 4
- Study of the Lanthanides Ce to Eu by Means of Quantum Monte Carlo Methods, JCMP 2013, 1(2):13-16
- Pseudopotential Calculations on Actinium and Thorium by Quantum Monte Carlo, IJMPSR, 2014, Vol. 1, Issue 1, pp: (25-29)
- Diffusion Monte Carlo Calculations for Rare-earths: Hartree-Fock, Hybrid B3LYP, and Long-range Corrected LC-BLYP Functional, Universal Journal of Physics and Application 10(1): 5-10, 2016
- Diffusion Monte Carlo Calculations for Rare-earths: Applying the Long-range Corrected Scheme to Minnesota M06 Functional, Universal Journal of Physics and Application 10(3): 80-83, 2016
- The Total Ground State Energies and First Ionization Energies of the Incomplete 3d-Transition Metal-Elements Atoms, Universal Journal of Physics and Application 11(3): 85-90, 2017
- Diffusion Monte Carlo study of actinide monohydrides and monofluorides, Revista Mexicana de Física 63 (3), 297-302, 2017

- Diffusion Monte Carlo calculations on LaB molecule, Chin. Phys. B Vol. 27, No. 9 (2018)
- Theoretical Investigation on the Low-Lying States of LaP Molecule, CHIN. PHYS. LETT. Vol. 35, No. 10 (2018)
- Ab-Initio investigation on the low-lying states of LaX (X= Se, Sn, Sb), Canadian Journal of Physics, (10.1139/cjp-2020-0568), (2021)
- Diffusion Monte Carlo Calculations on the low-lying states of LaX (X= Ge, As, Te), Canadian Journal of Physics, (cjp-2022-0152.R3), (2023). Accepted Dec. 2022

ATTENDED COURSES FOR FACULTY AND LEADERSHIP DEVELOPMENT

- International Publishing of Research.
- Legal and Financial Aspects in University Environment.
- Time and Conference Management.
- Research Ethics.
- Communication Skills.
- Quality standard.
- Academic Lecturer preparation.

السيرة الذاتية

البيانات الأساسية

الإسم : **عبد الحميد عبدالرحيم محمود الشاعر**

تاريخ الميلاد : ١٩٦٨/٤/١٨

الوظيفة الحالية: أستاذ بقسم الفيزياء – وكيل كلية العلوم لشئون التعليم والطلاب و مشرف علي قسم الفيزياء كلية العلوم - جامعة كفر الشيخ

الحالة الإجتماعية: متزوج

بيانات الإتصال: تليفون: ٠١٠٩٢٣٩٣٠٣٨/٠١٢٠٣٥٩٤٩٦٢

بريد إلكتروني: elshaer@sci.kfs.edu.eg

التخصص العام : الفيزياء التجريبية التخصص الدقيق : علوم المواد النانومترية

المؤهلات العلمية والتدرج العلمي:

- (١) بكالوريوس العلوم في الفيزياء- كلية العلوم – جامعة طنطا – مصر (١٩٩٣)
- (٢) تمهيدى الماجستير فى الفيزياء – كلية العلوم – جامعة طنطا - مصر (1995-1994)
- (٣) الماجستير فى الفيزياء - كلية العلوم – جامعة طنطا - مصر (١٩٩٤-1998)
- (٤) الدكتوراه في تكنولوجيا أشباه الموصلات – كلية الهندسة الكهربية والمعلوماتية والفيزياء- جامعة براونشفايغ التقنية – براونشفايغ- المانيا (2008/07/10-٢٠٠٣/04/07).
- (٥) مهمة علمية شخصية في (علوم مواد النانو) قسم الفيزياء- كلية العلوم الطبيعية – جامعة بريمن – ألمانيا ممولة من (DFG) في الفترة من 2010/02/٠١ إلى ٢٠١٢/٠٨/٣٠.
- (٦) مهمة علمية في (تكنولوجيا علوم مواد النانو) – كلية الهندسة الكهربية والمعلوماتية والفيزياء- جامعة براونشفايغ التقنية – براونشفايغ- ألمانيا ممولة من وزارة التعليم العالى المصرية فى الفترة من ٢٠١٦/٠٩/٣٠ إلى ٢٠١٧/٠٣/١٧.

التدرج الوظيفي

- (١) معيد – قسم الفيزياء – كلية التربية بكفر الشيخ – (جامعة طنطا سابقاً) - كفر الشيخ (1998-1994)
- (٢) مدرس مساعد – قسم الفيزياء – كلية التربية بكفر الشيخ – (جامعة طنطا سابقاً) - كفر الشيخ (1998-2008)
- (٣) مدرس- قسم الفيزياء – كلية التربية – جامعة كفر الشيخ (2008-2010).
- (٤) مدرس- قسم الفيزياء – كلية العلوم – جامعة كفر الشيخ (2008-2010).
- (٥) أستاذ مساعد – قسم الفيزياء – كلية العلوم – جامعة كفر الشيخ (2015-2020).
- (٦) قائم بعمل رئيس قسم الفيزياء – كلية العلوم – جامعة كفر الشيخ (2018/08/01 – 2021/7/31).
- (٧) مدير المعمل المركزي بكلية العلوم جامعة كفر الشيخ (٢٠١٩ - حتى الآن).
- (٨) أستاذ – قسم الفيزياء – كلية العلوم – جامعة كفر الشيخ (2021- حتى الآن).
- (٩) وكيل شئون التعليم والطلاب كلية العلوم- جامعة كفر الشيخ (2021/12/22 - حتى الآن).
- (١٠) مشرف علي قسم الفيزياء- كلية العلوم- جامعة كفر الشيخ (2021/12/23 - حتى الآن).

الانجازات

(في سطور)

أ.د/عبد الحميد عبدالرحيم محمود الشاعر – أستاذ الفيزياء
وكيل كلية العلوم لشئون التعليم والطلاب – جامعة كفر الشيخ

- ١) قام بنشر أكثر من ٨٠ بحث دولي في العديد من المجلات والدوريات العالمية المحكمة، كما حصل على جوائز وتقدير من جامعة كفر الشيخ وجهات أخرى.
- ٢) سافر في مهمات علمية ومؤتمرات وورش عمل دولية في العديد من دول العالم وفي الداخل.
- ٣) تعاون مع باحثين من أقطار أجنبية عديدة منها: ألمانيا - أمريكا - إنجلترا - كندا - إيطاليا - السويد - أسبانيا - الصين - النرويج - اليمن.
- ٤) الباحث الرئيسي لمشاريع بحثية دولية ومحلية عديدة.
- ٥) عضو اللجنة الوطنية لتكنولوجيا المواد الجديدة بأكاديمية البحث العلمي والتكنولوجيا.
- ٦) مدير المعمل المركزي بكلية العلوم منذ إنشائه حتى الآن.
- ٧) محكم خارجي للعديد من رسائل الماجستير والدكتوراة في العديد من الجامعات المصرية.
- ٨) محكم في العديد من المجلات العلمية.

مختصر لأهم ما قدمه المتقدم لكلية العلوم وقسم الفيزياء خلال فترة توليه رئاسة القسم
وقطاع شئون التعليم والطلاب

أولاً: رئاسة قسم الفيزياء : ٢٠١٨/٨/١ - حتى الان (مشرفا علي القسم)

- استحداث برنامج علوم وتكنولوجيا النانو بالقسم برنامج نوعي مميز بمصروفات كأول برنامج من نوعه في الجامعات المصرية.
- انشاء اللانحة الداخلية لبرنامج علوم وتكنولوجيا النانو.
- تحديث معامل القسم وامدادها بالأجهزة العلمية.
- انشاء معمل طلابي جديد خاص ببرنامج علوم وتكنولوجيا النانو.
- تعديل وتقسيم بعض المعامل الطلابية بإضافة حواجز داخلية وبنشات لاستيعاب طلاب القسم والكليات الأخرى التي هي في تزايد مستمر.
- انشاء معمل الفيزياء العملية الافتراضية بالقسم.
- استحداث اساليب جديدة تحت الطلاب على الالتحاق بالقسم أدت الي زيادة اعداد الطلاب المقبولين بالقسم من ٣٥ طالب عام ٢٠١٨ و ٤٣ طالب عام ٢٠١٩ الي ١٢٢ طالب عام ٢٠٢٠ ثم ١٣٤ طالب عام ٢٠٢١.

ثانياً: قطاع شئون التعليم والطلاب: ٢٢/١٢/٢٠٢١ - حتى الآن

- تحديث وتطوير دليل طالب الخاص بالكلية.
- تحديث وتطوير غرفة الكنترول والحفظ والتصوير بالكلية.
- اضافة بعض الحواجز والبشطات بمعامل الكلية المختلفة.
- تخصيص وتحسين بعض القاعات للبرامج المميزة بالكلية.
- تصميم محتوى علمي متكامل في صورة إلكترونية للطلاب الملتحقين بالكلية لجميع اقسام الكلية.
- يقوم حالياً بتعديل اللانحة الطلابية للكلية وتم عرضها على لجنة شئون التعليم والطلاب بالكلية لعرضها على المجالس الاعلى.
- يقوم حالياً بالانتهاء من اللانحة الطلابية لبرنامج الحاسب الآلي وبرنامج جيولوجيا التعدين والبتترول برامج نوعية مميزة.

الإنجازات التفصيلية

أولاً: معايير التميز العلمي والفكرى

١. التميز فى التدريس:

قام السيد الدكتور /عبد الحميد عبدالرحيم محمود الشاعر، الاستاذ المساعد بكلية العلوم – جامعة كفرالشيخ بتدريس المقررات الدراسية التى تم تكليفه بها وذلك لطلاب كليات التربية والعلوم والهندسة والحاسبات والمعلومات والطب البيطرى بمرحلة البكالوريوس والدراسات العليا بجامعة كفر الشيخ، ومنها مايلى:-

أولاً: مرحلة البكالوريوس

- كهربية ومغناطيسية وضوء.
- موجات واهتزازات.
- ضوء فرياني.
- فيزياء الليزر.
- تطبيقات النانو تكنولوجي.
- أطياف المواد الصلبة.
- علوم المواد.
- فيزياء الحالة الصلبة.
- الأغشية الرقيقة.
- فيزياء اشباه الموصلات.
- حرارة وخواص مادة.
- الطاقة الجديدة والمتجددة.
- فيزياء النانو.
- النظرية الكهرومغناطيسية.
- ضوء فيزيائي متقدم.
- علوم المواد النانو مترية.
- أطياف جزيئية.
- ضوء فرياني متقدم.

ثانياً: مرحلة الدراسات العليا (ماجستير –دكتوراة -دبلومة النانوتكنولوجي)

- تقنيات المواد النانومترية (١).
- تكنولوجيا أشباه الموصلات.
- التحليل الضوئي للمواد.
- تطبيقات المواد النانومترية.
- أطياف الليزر.
- تقنيات المواد النانومترية (٢).
- قام سيادته بإعداد المذكرات الطلابية الجامعية في جميع المقررات الدراسية المختلفة التي قام ومازال يقوم بتدريسها حتى الآن، وقام كذلك بوضع الامتحانات لهذه المقررات.
- شارك فى الإشراف الأكاديمي لطلاب برنامج الفيزياء وبرنامج علوم وتكنولوجيا النانو.

- شارك في أعمال الإمتحانات بكليتي التربية والعلوم و الحاسبات والمعلومات و الطب البطني و العلاج الطبيعي بالجامعة وذلك منذ تعيين سيادته فى عام ١٩٩٤م وحتى الآن
- قام بالمشاركة في وضع وتطوير مقررات الفيزياء النظرية والعملية بكليات التربية والعلوم والحاسبات والمعلومات وشارك كذلك في الإشراف والتطوير المعامل الطلابية والبحثية بقسم الفيزياء بكلية والعلوم.
- أشرف سيادته على العديد من طلاب الماجستير والدكتوراه بجامعة كفر الشيخ وطنطا والمنصورة والمنوفية.
- اسس معمل بحثي للطاقة المتجددة والنانوتكنولوجي وذلك بعد حصوله على عدة مشاريع ممولة من STDF واكاديمية البحث العلمي والتكنولوجيا وجامعة كفر الشيخ.
- شارك فى عضوية العديد من اللجان الفنية والعلمية المختلفة بالقسم والكلية والجامعة.
- قام بإعداد لائحة الساعات المعتمدة لبرنامج علوم وتكنولوجيا النانو بقسم الفيزياء بالكلية.
- قام بإعداد اللائحة المالية لبرنامج علوم وتكنولوجيا النانو بقسم الفيزياء بالكلية.

٢. الأنشطة الطلابية

- شارك المتقدم فى العديد من الأنشطة الطلابية الثقافية والعلمية والرياضية الأخرى.
- توجيه الطلاب للعمل فى مجموعات لغرس مبادئ العمل الجماعي، وإشراكهم فى الاتحادات واللجان الطلابية.
- ساهم فى حصول كلية العلوم على المركز الاول فى المسرح على الجامعة للعام الجامعي ٢٠٢١-٢٠٢٢.

٣. الإشراف على الرسائل العلمية

قائمة بأسماء الطلاب الممنوحين والمسجلين لدرجتى الماجستير والدكتوراة تحت إشراف

الأستاذ الدكتور/عبد الحميد عبدالرحيم محمود الشاعر الأستاذ بقسم الفيزياء لكلية العلوم جامعة كفر الشيخ.

أولاً: الطلاب الممنوحين (رسائل أجزت):

• رسائل دكتوراة:

م	اسم الطالب	تاريخ المنح	عنوان الرسالة	الجامعة
١	عبير رمضان عبدالواحد نصير	٢٠١٥/٤/٢٧	دراسة الخواص الفيزيائية لبعض أكاسيد أشباه الموصلات النانومترية التركيب	طنطا
٢	وليد اسماعيل عبدالجواد اسماعيل	٢٠١٦/٦/٢٧	مواد نانومترية للتطبيقات الكهروضوئية	كفر الشيخ
٣	أحمد رياض عبدالوهاب غازى	2020/12/30	التحليل الطيفي للتلائق الليزرى لمواد جديدة وتطبيقاتها	طنطا

• رسائل ماجستير:

م	اسم الطالب	تاريخ المنح	عنوان الرسالة	الجامعة
١	محمود عبده خليفة محمد المزين	٢٠١٥/٣/٤	دراسة الخواص الفيزيائية لبعض الخلايا الشمسية	المنصورة
٢	على عبدالفتاح بسيونى	٢٠١٨/٦/٢٨	تحضير وتوصيف بعض أكاسيد المعادن النانومترية للتطبيقات الكهروضوئية	كفر الشيخ
٣	محمد على محسن كباس	٢٠١٩/٩/٨	تخليق وتوصيف طبقات بينية نانومترية لتطبيقات الخلايا الشمسية	المنصورة
٤	سناء عبدالسلام موماى	2020/10/27	تحضير وتوصيف لبعض مواد أشباه الموصلات النانومترية	كفر الشيخ
٥	مبروك رمضان كامل بكرى	٢٠٢٢/٤/٢٦	تصنيع وتوصيف بعض أشباه الموصلات ذات البنية النانومترية	كفر الشيخ

ثانياً: الطلاب المسجلين (رسائل لم تنجز بعد):

• رسائل دكتوراة:

م	اسم الطالب	تاريخ التسجيل	عنوان الرسالة	الجامعة
١	أسامه حسنى بسيونى	٢٠١٨/٦/١٩	تحضير ودراسة خصائص المواد شبة الموصلية عالية الإمتصاص للإشعاع الشمسى	كفر الشيخ
٢	حازم يحي محمد صلاح	٢٠١٨/١١/١	أشباه موصلات نانوية البنية لتطبيقات الخلايا الشمسية	المنصورة
3	محمد على محسن كباس	2020/9/3	تصنيع وتوصيف أجهزة خلايا شمسية عضوية فعالة ورخصة التكلفة	المنصورة
٤	هبة إبراهيم الدسوقي	2021	دراسة الخصائص الكهروضوئية لرقائق متعددة من الفضة والالومنيوم والسيلكون	المنوفية
٥	هدى عطا عبدالله ميره	2022/3/21	تخليق وتوصيف وتقييم الأنشطة البيولوجية لبعض المواد النانوية	كفر الشيخ

• رسائل ماجستير:

م	اسم الطالب	تاريخ التسجيل	عنوان الرسالة	الجامعة
١	سامح محمد عزت مصطفى	٢٠١٦/٤/٣٠	أكسيد الزنك وأشباه الموصلات النانومترية من المجموعة (الثانية – السادسة) للتطبيقات الكهروضوئية	طنطا
٢	محمد حسنين فرج اسماعيل بيرم	٢٠١٦/٦/٢١	أفلام أكسيد الكادميوم الرقيقة لتطبيقات الخلايا الشمسية	المنصورة
٣	هدى أحمد محمد نبير	٢٠١٦/٧/١٩	دراسة التركيب وفناء البوزيترون على مسحوق السيلكا المسامية المحضرة بطريقة الخطوة الواحدة كطريقة جديدة	كفر الشيخ
4	محمد ابراهيم عبدالعظيم البيومى	٢٠١٩/١٠/١٦	تحسين انتاج وقود الديزل الحيوى لبعض الطحالب الخضراء بواسطة جزيئات النانو والإجهاد الغذائى وتغير نظام التغذية	كفر الشيخ
5	غادة إبراهيم على ابراهيم	2021/4/18	تخليق وخصائص وتطبيقات بعض أشباه الموصلات ذات البنية النانوية	كفر الشيخ
6	سنيه سمير خليل دعيس	٢٠٢١/١٠/17	أكاسيد أشباه الموصلات النانوية التركيب نحو التطبيقات الكهروضوئية	كفر الشيخ
7	نورهان رمضان عبدالله درويش	٢٠٢٠/١٢/٣٠	تحسين خصائص أكاسيد اشباه الموصلات النانوية بالتطعيم	كفر الشيخ
8	نيرمين عبدالحميد ابراهيم	٢٠٢١/٠٥/٣٠	تطوير مواد نانوية لتطبيقات الفيزياء الحيوية	كفر الشيخ
9	أمل محمد السعودي	2022/3/21	منظور شامل حول التركيب والتوصيف والتطبيق البيولوجي لبعض الجسيمات النانوية	كفر الشيخ
10	آية مصطفى فؤاد بلال	2022/3/21	التخليق والتوصيف والتطبيقات الفيزيائية الحيوية للمواد النانوية المتقدمة	كفر الشيخ

٤. ممتحن خارجي ومناقش لرسائل ماجستير ودكتوراة

• رسائل دكتوراة:

م	اسم الطالب	تاريخ المناقشة	عنوان الرسالة	الجامعة
١	محمد إبراهيم عبدالمنعم الحناوي	2019	التوجه للأجهزة الالكترونية ذات كفاءة لتطبيقات الطاقة المتجددة	المنصورة
٢	إيهاب احمد سالم	2020	تحضير ودراسة بعض الخواص الفيزيائية للمواد النانومترية التركيب لتقنيات الطاقة المستدامة	المنصورة
٣	علي عبدالله احمد عباس المنتصر	2021	دراسات بنوية وفيزيائية لأغشية رقيقة نانومترية التركيب من شبه موصل عضوي وتطبيقاتها في الخلايا الشمسية.	المنصورة
٤	بلقيس عبدالرحمن بشير	2022	علاقة الخصائص الفيزيائية بالبنية التركيبية لزجاج بورات السيليكا المعدل المحتوي على أكسيد الحديد .	المنصورة
٥	محمود السيد محمد صقر	2022	الاداء الليزري لبعض اصباغ الليزر الجديدة في الاوساط المختلفة	القاهرة

• رسائل ماجستير:

م	اسم الطالب	تاريخ المناقشة	عنوان الرسالة	الجامعة
١	احمد رمضان محمد إسماعيل	2021	تصميم أقطاب عالية الأداء لخلايا وقود الأكسيد الصلب اعتمادا على مواد نانومترية	جنوب الوادي
2	أسماء فكيه عبدالغفار منقولة	٢٠٢٢	تحليل العناصر الثقيلة بالتربة الزراعية بكفرالزيت باستخدام التحليل الطيفي بالليزر	طنطا
3	الشيما محمد محمود علي	2022	الاستفادة المثلى من خليط بلمرى للكتيوزان/والصمغ العربي لتطبيقات التنام الجروح	المنصورة
4	غادة محمد مصطفى عبدالله	2022	تقنية المتداخل الليزري لدراسة الخصائص الفيزيائية لبعض الغازات الحيوية	طنطا

٥. التميز في نشر الأبحاث العلمية في مختلف الدوريات المصنفة عالمياً

دأب أ.د/ عبد الحميد الشاعر على نشر أبحاثه في مجلات علمية عالمية ذات معامل تأثيرى عالي - ودور نشر عالمية في مجال التخصص، مثل: SCIENCE DIRECT (online) - SPRINGER - ELSEVIER كما شارك معه عديد من الباحثين من داخل جمهورية مصر العربية ومن دول اجنبية وعربية عديدة منها: ألمانيا - أمريكا - فرنسا- كندا - السويد- إيطاليا - أسبانيا - الصين - روسيا - بولندا - اليمن.

List of Publications

• قائمة المنشورات العلمية

1. Mahmoud Abdelfatah, Ali Basuni, HY Salah, Mabrok Bakry, Nourhan Darwesh, Walid Ismail, [Abdelhamid El-Shaer](#), Improvement of physical and electrochemical properties of Cu2O thin films with Fe ions doping towards optoelectronic applications, Optical Materials, 130, 112583 (2022)
2. HY Salah, KR Mahmoud, Walid Ismail, [Abdelhamid El-Shaer](#), AH Oraby, Mahmoud Abdelfatah, MI EL-Henawey, Influence of Nickel Concentration on the Microstructure, Optical, Electrical, and Photoelectrochemical Properties of ZnO Nanorods Synthesized by Hydrothermal Method, Journal of Electronic Materials, 51, 910-920 (2022)



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3. Lei Cai, Jungui Zhou, Guilin Bai, Jiaqing Zang, [Abdelhamid El-Shaer](#), Tao Song, Man-Keung Fung, Baoquan Sun, High-Efficiency Top-Emitting Green Perovskite Light Emitting Diode with Quasi Lambertian Emission, *Advanced Optical Materials*, 10, 2101137 (2022).
4. W Ismail, M Bakry, M Elshobaki, [A El-Shaer](#), M Abdelfatah, Impact of precursor concentrations and substrate type on properties of electrodeposited CdO nanorod thin films for optoelectronic applications, *Materials Science in Semiconductor Processing* 133, 105959 (2021).
5. M Abdelfatah, HY Salah, MI El-Henawey, AH Oraby, [A El-Shaer](#), W Ismail, Insight into Co concentrations effect on the structural, optical, and photoelectrochemical properties of ZnO rod arrays for optoelectronic applications *Journal of Alloys and Compounds* 873, 159875 (2021).
6. Mahmoud Abdelfatah, Hazam Salah, Mabrok Bakry, Walid Ismail, [Abdelhamid El-Shaer](#), Sayed Abdelgawad, Influence of band gap and carrier concentration on ZnO/CuO solar cells performance, *Egyptian Journal of Solids*, 43, 158-173 (2021).
7. Mahmoud Abdelfatah, Walid Ismail, Nagi M El-Shafai, [Abdelhamid El-Shaer](#), Effect of thickness, bandgap, and carrier concentration on the basic parameters of Cu₂O nanostructures photovoltaics: numerical simulation study, *Materials Technology*, 36, 712720 (2021).
8. Walid Ismail, Mabrok Bakry, Moneim Elshobaki, [Abdelhamid El-Shaer](#), Mahmoud Abdelfatah, Impact of precursor concentrations and substrate type on properties of electrodeposited CdO nanorod thin films for optoelectronic applications, *Materials Science in Semiconductor Processing*, 133, 105959 (2021).
9. Ya Li, Zhewei Chen, Dong Liang, Jiaqing Zang, Zheheng Song, Lei Cai, Yatao Zou, Xuechun Wang, Yusheng Wang, Pandeng Li, Xingyu Gao, Zhongsheng Ma, Xinju Mu, [Abdelhamid El-Shaer](#), Liming Xie, Wenming Su, Tao Song, Baoquan Sun, Coffee-Stain-Free Perovskite Film for Efficient Printed Light-Emitting Diode, *Advanced Optical Materials*, 17, 2100553 (2021).
10. Osama H Basyouni, Mahmoud Abdelfatah, Mohamed E El-Khouly, Tarek Mohamed, [Abdelhamid El-Shaer](#), Walid Ismail, Facile and Environmentally Friendly Fabrication of Few-layer Bismuthene by Electrochemical Exfoliation Method for Ultrafast Photonic Applications *Journal of Alloys and Compounds*, 160766 (2021).
11. Nagi M El-Shafai, Rencai Ji, Mahmoud Abdelfatah, Mohamed A Hamada, AW Kandeal, Ibrahim M El-Mehasseb, [Abdelhamid El-Shaer](#), Meng An, Mohamed S Ramadan, Swellam W Sharshir, Walid Ismail Investigation of a novel (GO@ CuO. γ -Al₂O₃) hybrid nanocomposite for solar energy applications *Journal of Alloys and Compounds* 856, 157463 (2021).
12. Walid Ismail, Nagi M El-Shafai, [Abdelhamid El-Shaer](#), Mahmoud Abdelfatah, „Impact of substrate type on the surface and properties of electrodeposited Cu₂O nanostructure films as an absorber layer for solar cell applications“ *Materials Science in Semiconductor Processing*, (2020) **Impact Factor 5.6/Q1**
13. Nagi M. El-Shafai, Mustafa Shukry, Ibrahim M. El-Mehasseb, Mahmoud Abdelfatah, Mohamed S. Ramadan, [Abdelhamid El-Shaer](#), Maged El-Kemary „Electrochemical property, antioxidant activities, water treatment and solar cell applications of titanium dioxide – zinc oxide hybrid nanocomposite based on graphene oxide nanosheet“ *Materials Science & Engineering B* (2020) **Impact Factor 6.4/Q1**
14. Nagi M. El-Shafai, Mahmoud M. Abdelfatah, Mohamed E. El-Khouly, Ibrahim M. El-Mehasseb, [Abdelhamid El-Shaer](#), Mohamed S. Ramadan, Mamdouh S. Masoud, Maged A. El-Kemary „Magnetite Nano-spherical quantum dots decorated graphene oxide Nano sheet (GO@Fe₃O₄): Electrochemical properties and applications for Removal heavy metals, pesticide and solar cell“ *Applied Surface Science* (2020) **Impact Factor 8.7/Q1**
15. Nagi M El-Shafai, Rencai Ji, Mahmoud Abdelfatah, Mohamed A Hamada, AW Kandeal, Ibrahim M El-Mehasseb, [Abdelhamid El-Shaer](#), Meng An, Mohamed S Ramadan, Swellam W Sharshir, Walid Ismail „Investigation of a novel (GO@ CuO. γ -Al₂O₃) hybrid nanocomposite for solar energy applications“ *Journal of Alloys and Compounds* **Impact Factor 4.65/Q1**.
16. [Abdelhamid El-Shaer](#), Mahmoud Abdelfatah, Kamal R. Mahmoud, Sanaa Momay, and M.R. Eraky „Correlation between photoluminescence and positron annihilation lifetime spectroscopy to characterize defects in calcined MgO nanoparticles as a first step to explain antibacterial activity“ *Journal of Alloys and Compounds* (2020) **Impact Factor 4.65/Q1**.



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18. Walid Ismail, [Abdelhamid El-Shaer](#), Mahmoud Abdelfatah „Phase transition of Cd(OH)₂ and physical properties of CdO microstructures prepared by precipitation method for optoelectronic applications“ *IOP Conference Series: Materials Science and Engineering* (2020) **Impact Factor 0.65/Q4**
19. Mahmoud Abdelfatah, Nagi M El-Shafai, Walid Ismail, Ibrahim M El-Mehasseb, [Abdelhamid El-Shaer](#) „Simulation of CuO/ZnO heterojunction for photovoltaic applications“ *IOP Conference Series: Materials Science and Engineering* (2020) **Impact Factor 0.65/Q4**
20. R Gaafar, R Diab, M Halawa, A Elshanshory, [Abdelhamid El-Shaer](#), M Hamouda „Role of Zinc Oxide Nanoparticles in Ameliorating Salt Tolerance in Soybean“ *Egyptian Journal of Botany* (2020) **Impact Factor 0.8/Q4**
21. Mahdy M. Elmahdy, and [Abdelhamid El-Shaer](#) “Structural, optical and dielectric investigations of electrodeposited p-type Cu₂O” *Journal of Materials Science: Materials in Electronics*, published online:22 October (2019). **Impact Factor 3.9/Q2**
22. Aly Derbalah, Mohsen Mohamed Elsharkawy, Amany Hamza, and [Abdelhamed El-Shaer](#) “Resistance induction in cucumber and direct antifungal activity of zirconium oxide nanoparticles against *Rhizoctonia solani*” *Pesticide Biochemistry and Physiology* 157 230–236 (2019) **Impact Factor 3.4/Q2**
23. [Abdelhamid El-Shaer](#), Walid Ismail, and Mahmoud Abdelfatah “Towards low cost fabrication of inorganic white light emitting diode based on electrodeposited Cu₂O thin film/TiO₂ nanorods heterojunction” *Materials Research Bulletin* 116 111–116 (2019). **Impact Factor 4.01/Q2**
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27. Marwa Nabila, Kamal R. Mahmoudb, [Abdelhamid El-Shaer](#), and Huda A. Nayberb “Preparation of crystalline silica (quartz, cristobalite, and tridymite) and amorphous silica powder (one step)” *Journal of Physics and Chemistry of Solids* 121, 22–26 (2018) **Impact Factor 5.6/Q1**
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٦. الحصول على المشروعات البحثية تطبيقية من عدة جهات ممولة. أولاً: مشاريع ممولة أكاديمية البحث العلمي:

بداية المشروع	الميزانية (EGP)	عنوان المشروع	اسم البحث الرئيسي	الكلية/ الجامعة
2020	2,000,000	Raman spectroscopy for nanomaterials characterization	أ.د. عبد الحميد عبدالرحيم الشاعر	Kafrelsheikh/ Science

2022	3,000,000	Purchasing and upgrading equipments for the central laboratory at the Faculty of Science, Kafrelsheikh University	أ.د. عبد الحميد عبدالرحيم الشاعر	Kafrelsheikh/ Science
٢٠٢٠	١٠٠,٠٠٠	الغشاء النانوي وتطبيقاته في معالجة الملوثات العضوية و التخلص من الميكروبات و تحلية مياه البحر	أ.د. عبد الحميد عبدالرحيم الشاعر	Kafrelsheikh/ Science

ثانياً: مشاريع ممولة من صندوق العلوم والتنمية التكنولوجية (STDF):

بداية المشروع	الميزانة (EGP)	عنوان المشروع	اسم البحث الرئيسي	الكلية/ الجامعة
٢٢٠٢٢	1,999,408	Low Cost and Large-Scale Fabrication of Inorganic White Light Emitting Diode Based on Nanostructures Semiconductor Oxides	أ.د. عبد الحميد عبدالرحيم الشاعر	Kafrelsheikh/ Science
٢٠١٩	1,997,440	Efficiency Enhancement of Low-Cost Solar Cells based on Earth Abundant Materials	مستشار علمي علي المشروع	Kafrelsheikh/ Science
٢٠١١	2021,520.00	إنتاج و تطوير خلايا شمسية كهروضوئية و دايدود باعث للضوء الأبيض قليلة التكلفة باستخدام ZnO بأحجام النانو	أ.د. عبد الحميد عبدالرحيم الشاعر	Kafrelsheikh/ Science

ثالثاً: مشاريع ممولة من جامعة كفر الشيخ:

بداية المشروع	الميزانة	عنوان المشروع	اسم البحث الرئيسي	الكلية/ الجامعة
٢٠١٣	١٠٠,٠٠٠	تصنيع وتوصيف مواد نانومترية لتطبيقات الخلايا الكهروضوئية	أ.د. عبد الحميد عبدالرحيم الشاعر	Kafrelsheikh/ Science

International Conference

٧. المؤتمرات العلمية

1. The 34th Eg-MRS International Conference 29-30)Aug. 2020), Online meeting, Cairo, Egypt.
2. The First ANSOLE Scientific Meeting in Egypt (ASMEG 2019), was held on 30th January (2019) at Zewail City of Science & Technology, Giza, Egypt.
3. Participated in Workshop of "Production and transfer of knowledge of nanoscience in the field of solar energy", (27.10.2016) at National Research Center, Egypt.
4. The Second International Conference on Advanced Basic & Applied Science (ABAS), (2-4 April 2014), Faculty of Postgraduate Studies for Advanced Science, Beni Suf University, Sokhna, Egypt.
5. The First international workshop "Nanotechnology from Lab to Industry (Nano LI 2014)", 1-2 September 2014, South Valley University, Qena -Egypt.
6. Julia Waltermann, Kay-Michael Günther, Stefan Kontermann, Siegfried R. Waldvogel, Abdelhamid Elshaer, Tobias Voss and Wolfgang Schade, Electrical and photoelectrical measurements on ZnO-Nanowires coated with PEDOT:PSS for Dye-Sensitized Solar Cells, Material Research Society (MRS) Conference (2010)



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7. Abdelhamid El-Shaer, Apurba Dev, Jan-Peter Richters, , and Tobias Voss. Light- emitting devices based on ZnO-nanowire arrays coated with p-conductive polymers, DPG Spring Meeting. Regensburg, 21st - 26th of March (2010).
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9. Apurba Dev, Jan-Peter Richters, Abdelhamid El-Shaer, Siegfried R. Waldvogel, Julia Waltermann, Wolfgang Schade, and Tobias, Voss, Hybrid solar cells and LEDs based on ZnO-nanowire arrays, 14th International Conference on II-VI compounds, St. Petersburg,, Russia august 23-28 (2009) .
10. Abdel-Hamid El-Shaer, Vladimir Petukhov, Andrey Bakin, and Andreas Waag; Radical Source Molecular Beam Epitaxy of ZnO Homoepitaxial Layers, The 13th International Conference on II-VI Compounds Jeju, Korea, September 10-14, (2007).
11. A. Waag, A.El-Shaer, A.C. Mofor, M.Al-Suleiman, B.Postels, E.Schlenker, H.Weemann, A. Bakin. ZnO based nanostructures for optoelectronics SPIE Photonics West, 2007, 6474-41 San Jose, USA
12. T.V. Shubina, A.A. Toropov, O.G. Lublinskaya, S.B. Listoshin, A.A. Sitnikova, A. El-Shaer, M. Al-Suleiman, A. Bakin, A. Waag, A. Voinilovich. Exciton recombination dynamics and lasing in ZnMgO/ZnO single quantum well structures. The 13th International Conference on II-VI Compounds Jeju, Korea, September 10-14, (2007).
13. A. Waag, A. El-Shaer, A. C. Mofor, M. Suleimann, B. Postels, E. Schlenker, H. Wehmann, A. Bakin: MBE-grown ZnMgO-ZnO quantum wells embedded into ZnO nanopillars, Material Research Society (MRS) Conference, Boston, Massachusetts, USA, 27.11–1.12.(2006).
14. A. Che Mofor, A. Bakin, A. El-Shaer, M. Al-Suleiman, N. Boukos , A. Travlos, and A. Waag: VPT Growth of ZnO: From Nanostructures to Layers 4th International Workshop on ZnO and Related Materials, Gießen (2006)
15. A.C. Mofor, A. El-Shaer, M. Suleiman, A. Bakin, A. Waag: Fabrication of ZnO Nanorod-based Single Quantum Well Structures, European Material Research Society Fall meeting, Warsaw Poland 4–8 September (2006).
16. A.Bakin, A. El-Shaer, A.C.Mofor, M. Al-Suleiman, E. Schlenker, B. Postels, M. Kreye, A.Waag: ZnMgO-ZnO Quantum Wells embedded into ZnO Nanopillars: towards realisation of Nano-LEDs, The International Symposium on Blue Laser and Light Emitting Diodes, Montpellier, France, May 15-19 (2006).
17. A.C. Mofor, A. Bakin, A. El-Shaer, E. Schlenker, M. Suleiman, and A. Waag: Growth of ZnO Nanorods for Optoelectronic and Spintronic Applications, German Physics Society Conference, Dresden, March (2006).
18. A.Che Mofor, A. Bakin, A. El-Shaer, M. Al-Suleiman, N. Boukos , A. Travlos, and A. Waag: VPT Growth of ZnO: From Nanostructures to Layers 4th International Workshop on ZnO and Related Materials, Gießen (2006).
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20. Piechal, J. Yoo, A. El-Shaer, A. C. Mofor, G.-C. Yi, A. Bakin, A. Waag, F. Donatini, D. Le Si: Cathodoluminescence study of wide band gap ZnO nanorod heterostructures, European Material Research Society Fall meeting, Warsaw Poland 4-8 September (2006).
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22. A.Bakin, A. El-Shaer, A. Che Mofor, M. Kreye, A. Waag, F. Bertram, J. Christen, J. Stoimenos: Recent advancements in ZnO layers growth on sapphire; ICMAT 2005, Symposium N, ZnO and Related Materials, Singapore , July 3–9 (2005).



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23. A.El-Shaer, A. Bakin, A. C. Mofor, and A. Waag: Molecular-beam epitaxy growth of ZnO on sapphire substrate, 20th Workshop of DGKK- (German Society of Crystal Growth) Group: Duisburg, 8–9. December (2005)
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26. El-Shaer, A. Che Mofor, A. Bakin, M. Kreye, A. Waag, F. Bertram, J. Christen and J. Stoimenos: MBE growth of high quality ZnO layers on sapphire, EMC Santa-Barbara, (2005).
27. C. Mofor, A. El-Shaer, A. Bakin, A. Waag, H. Ahlers, U. Siegner, S. Sievers, M. Albrecht, W. Schoch, N. Izyumskaya, V. Avrutin³, and J. Stoimenos. Magnetic Property Investigations On ZnMnO Grown On Sapphire, 12TH INTERNATIONAL CONFERENCE ON II–VI COMPOUNDS, Warsaw, Poland September 12 – 16, 2005
28. F. Bertram, S. Giemsch, J. Christen, A. El-Shaer , A. Bakin, A. Waag. Direct Visualization of the Bound Exciton Distribution of Self-organized Grown ZnO Pyramids by Cathodoluminescence Microscopy , E-MRS 2005, Spring Meeting, Symposium G, ZnO and Related Materials, Strasbourg, May 31-June 3, (2005).
29. A. El-Shaer, A. Che Mofor, A. Bakin, N. Izyumskaya, V. Avrutin, W. Schoch, F. Reuß, A. Waag, H. Ahlers, U. Siegner. Novel Oxidant for ZnO Molecular Beam Epitaxy, Soxess Workshop on ZnO and Related Materials, October 27–30, Caernarfon, United Kingdom, (2004).
30. A. Bakin, A. El-Shaer, N. Izyumskaya, V. Avrutin, W. Schoch, A. Che Mofor, F. Reuß, A. Waag: New approach to molecular beam epitaxy of high-quality ZnO , The 3rd International Workshop on ZnO and Related Materials, October 5–8, Sendai , Japan , (2004).
31. El-Shaer, A. Che Mofor, A. Bakin, W. Schoch, F. Reuß, A. Waag: MBE growth of ZnO using H₂O₂ as oxidant; German MBE Workshop 2004 at Physikalisch- Technische Bundesanstalt Braunschweig, 11 - 12 October (2004).
32. A.Bakin, A. El-Shaer, A. Che Mofor, W. Schoch, A. Waag: Growth of High quality ZnO with H₂O₂ as oxidant; 3rd International Workshop on ZnO and Related Materials Sendai, Japan, October 6–8, (2004).

٨. المهتمات العلمية

١. مهمة علمية شخصية من جامعة بريمن - ألمانيا، لمدة عامين، في الفترة من ٢٠٠٩/٢/١ إلى ٢٠١٠/١٢/١٠، بتمويل من جامعة بريمن - ألمانيا.
٢. مهمة علمية - ألمانيا، لمدة ستة أشهر في جامعة براونشفايغ التقنية – براونشفايغ- ألمانيا في الفترة من ٢٠١٦/٠٩/٣٠ إلى ٢٠١٧/٠٣/١٩ ممولة من وزارة التعليم العالي المصرية.

٩. عضوية الجمعيات واللجان العلمية

١. عضوية الجمعية المصرية لعلوم المواد.
٢. عضوية اللجنة الوطنية لتكنولوجيا المواد الجديدة بأكاديمية البحث العلمي والتكنولوجيا.

ثانياً: معايير الكفاءة التنظيمية والمهارة القيادية

✓ تولى مواقع إدارية أكاديمية متنوعة

- قانما بمهام وأعباء رئيس قسم الفيزياء بكلية العلوم – جامعة كفر الشيخ اعتبارا من ٢٠١٨/٨/١ الى ٢٠٢١/٣١.
 - مدير المعمل المركزي بكلية العلوم جامعة كفر الشيخ منذ انشائه حتى الآن.
 - وكيل لكلية العلوم لشئون التعليم والطلاب – جامعة كفر الشيخ اعتبارا من ٢٠٢١/١٢/٢٢ الى الآن.
 - مشرفا علي قسم الفيزياء بكلية العلوم – جامعة كفر الشيخ اعتبارا من ٢٠٢٢/١٢/٢٣ الى الآن.
- حصل السيد الدكتور / عبد الحميد عبدالرحيم محمود الشاعر ، الأستاذ بقسم الفيزياء - كلية العلوم – جامعة كفر الشيخ على الدورات التدريبية التالية:-**

١. إجتاز سيادته دورة إعداد المعلم الأكاديمي (الجامعي) بكلية التربية - جامعة طنطا في ديسمبر ١٩٩٨ م
٢. إجتاز سيادته عدة دورات في مجال الحاسب الآلي (DOS, Windows, MS Word and MS) والفترة من فبراير / ٢٠٠١ إلى يونيو / 2013م.
٣. إجتاز سيادته دورة الجوانب القانونية بالجامعات، كجزء من مشروع تنمية قدرات أعضاء هيئة التدريس والقيادات، وذلك خلال الفترة من ٢٠٠٨ / ٩ / ٧ إلى ٢٠٠٨ / ٩ / ٩ م.
٤. إجتاز سيادته دورة أخلاقيات البحث العلمي كجزء من مشروع تنمية قدرات أعضاء هيئة التدريس والقيادات، وذلك خلال الفترة من ٢٠٠٨ / ٩ / ٢٧ إلى ٢٠٠٨ / ٧ / ٢٩ م.
٥. إجتاز سيادته نظام الساعات المعتمدة كجزء من مشروع تنمية قدرات أعضاء هيئة التدريس والقيادات، وذلك خلال الفترة من ٢٠٠٨ / ١٠ / ١١ إلى ٢٠٠٨ / ١٠ / ١٣ م.
٦. إجتاز سيادته دورة النشر العلمي الدولي كجزء من مشروع تنمية قدرات أعضاء هيئة التدريس والقيادات، وذلك خلال الفترة من ٢٠٠٨ / ١٠ / ١٤ إلى ٢٠٠٨ / ١٠ / ١٦ م.
٧. إجتاز سيادته دورة مهارات الاتصال في انماط التعليم كجزء من مشروع تنمية قدرات أعضاء هيئة التدريس والقيادات، وذلك خلال الفترة من ٢٠٠٨ / ١٠ / ١٨ إلى ٢٠٠٨ / ١٠ / ٢٠ م.
٨. إجتاز سيادته دورة معايير الجودة في العملية التدريسية، كجزء من مشروع تنمية قدرات أعضاء هيئة التدريس والقيادات، وذلك خلال الفترة من ٢٠٠٨ / ١٠ / ٢١ إلى ٢٠٠٨ / ١٠ / ٢٣ م.
٩. إجتاز سيادته دورة نظم الامتحانات وتفويم الطلاب كجزء من مشروع تنمية قدرات أعضاء هيئة التدريس والقيادات، وذلك خلال الفترة من ٢٠١٣ / ٥ / ٢٨ إلى ٢٠١٣ / ٥ / ٣٠ م.
١٠. إجتاز سيادته دورة ادارة الفريق البحثي كجزء من مشروع تنمية قدرات أعضاء هيئة التدريس والقيادات، وذلك خلال الفترة من ٢٠١٣ / ٧ / ١ إلى ٢٠١٣ / ٧ / ٣ م



السيرة الذاتية أ.د/ عبدالحميد عبدالرحيم محمود الشاعر



١١. إجتاز سيادته دورة مشروعات البحوث التنافسية كجزء من مشروع تنمية قدرات أعضاء هيئة التدريس والقيادات، وذلك خلال الفترة من ٢٠١٣ / ٧ / ١ إلى ٢٠١٣ / ٧ / ٣ م
١٢. إجتاز سيادته دورة تنظيم المؤتمرات العلمية كجزء من مشروع تنمية قدرات أعضاء هيئة التدريس والقيادات، وذلك خلال الفترة من ٢٠١٣ / ٧ / ١ إلى ٢٠١٣ / ٧ / ٣ م
١٣. نظم وتكنولوجيا المعلومات - استخدام اليوربوينت (2-6/5/2019)
١٤. نظم وتكنولوجيا المعلومات - استخدام الاندوت (7-9/5/2019)
١٥. ادارة الوقت والاجتماعات (12-13/5/2019)
١٦. التخطيط الاستراتيجي (15-16/5/2019)
١٧. مهارات الاتصال في التعليم (27-28/11/2019)
١٨. الادارة الجامعية (25-26/12/2019).
١٩. حضر دروة البرنامج التدريبي الموحد للترشح لشغل وظيفة عميد كلية او معهد (12-14/2/2022).

البيانات الشخصية



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قائم باجازة خاصة	الحالة الوظيفية الحالية
الفيزياء	القسم
فيزياء	التخصص العام
فيزياء الكترونياات	التخصص الدقيق
1970/08/27	تاريخ الميلاد
المحلة الكبرى	مكان الميلاد
2009/06/01	تاريخ التعيين

بيانات المؤهلات

م	المؤهل	تاريخ الحصول على المؤهل	الدولة	الجامعة/الكلية/القسم	التقدير	عنوان الرسالة باللغة العربية	عنوان الرسالة باللغة الإنجليزية
1	البكالوريوس	01/05/1991	مصر	جامعة طنطا/ كلية العلوم/ الطبيعة			
2	ماجستير	21/02/2001	مصر	جامعة طنطا/ كلية العلوم/ الطبيعة		استخدام الكمبيوتر في بعض الاجهزة الالكترونية	Use the computer in some electronic devices
3	دكتوراه	28/04/2010	مصر	جامعة طنطا/ كلية العلوم		تصميم جهاز لقياس القابلية المغناطيسية باستخدام الميكروكنترولر	Design a device for measuring the magnetic susceptibility using microcontrollers

التدرج الوظيفي

م	الدرجة الوظيفية	تاريخ شغل الوظيفة	الجامعة/الكلية/القسم
1	معيد	30/03/1993	جامعة طنطا/ التربية - فرع كفر الشيخ/ كيمياء وطبيعه
2	مدرس مساعد	05/05/2001	جامعة طنطا/ التربية - فرع كفر الشيخ/ كيمياء وطبيعه
3	مدرس	24/05/2010	جامعة كفر الشيخ/ كلية العلوم/ الفيزياء



مركز نظم المعلومات الادارية

بيان حالة عضو - سجل العضو بالكامل



جامعة كفر الشيخ

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الفترة الى	الفترة من	نوع الاجازة	م
31/08/2011	01/09/2010	مرافق للزوج/الزوجه	1
31/08/2011	01/09/2010	مرافق للزوج/الزوجه	2
31/08/2011	01/09/2010	مرافق للزوج/الزوجه	3
31/08/2011	01/09/2010	مرافق للزوج/الزوجه	4
31/08/2011	01/09/2010	مرافق للزوج/الزوجه	5
31/08/2011	01/09/2010	مرافق للزوج/الزوجه	6

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Education

-PhD in Physical Sciences, Physics, thesis title "*Injection of Spin Polarized Carriers through Low-Dimensional Molecular Beam Epitaxy grown Quantum Structures*". Institute of Physics, Polish Academy of Sciences, Warsaw, Poland. PhD degree awarded in 2004.

-M.Sc. degree in Science (Physics) (Solar Cells):
MSc. Thesis title: "*On the physical properties of CdS/CuInSe₂ thin film materials used for Solar Cells*". Physics Department, Tanta University, Egypt, degree awarded 1998.

-Bachelor's degree in science (Physics) (BSc)
Physics Department, Tanta University, Egypt, degree awarded 1992.

Technical Experience

-Operation and maintenance of Molecular Beam Epitaxy (MBE) system for growth of II-VI epilayers and quantum dot (CdTe, ZnTe, CdMnTe, CdMnMgTe, CdZnTe).

-Building high resolution micro-luminescence μ PL spectrometers for optical spectroscopy of single quantum dots.

-Building photon correlation set-up (Hanbury Brown and Twiss HBT set-up) for triggered photon correlation spectroscopy measurements (single photon source and entangled-photons generation).

-Fabrication and characterization of heterostructures Thin film Solar Cells devices (CuInGaSe solution processed solar cells)

-Magneto-reflectivity and picoseconds-time resolved photoluminescence.

- Femtosecond-time resolved pump-probe technique (optical pumping experiments).
- Operating and maintenance of CW lasers (He-Cd, Ar⁺, Ti:Al₂O₃, He-Ne, dye lasers), femtosecond and pico-second lasers (Ti:Al₂O₃).
- Experience with closed cycle and helium bath cryostats at pumped liquid helium (~1.3 K).
- Experience with split coil magnets (14T), Oxford.
- Experience in the synthesis of colloidal nanocrystals and quantum dots using wet chemistry.
- Thin film deposition using thermal vacuum evaporation, dip-coating techniques, Chemical surface deposition, spin coating, film applicators.
- Experience in operating and technical analysis of various characterization techniques, e.g., XRD; SEM, TEM, AFM, micro-Photoluminescence, UV/Vis/NIR spectrophotometers, Hall-effect measurements, Four-Probe stations, Raman spectroscopy

Full List of publications

58-“*Preparation and characterization of Sb₂S₃ thin films for planar solar cells via close space sublimation method*”

X Li, F Gao, X Xiong, M Li, G Zeng, B Li, **M. Ghali**

Materials Science in Semiconductor Processing 161, (2023)107430

57- “*Optical Spectra Analysis for Transformer Insulation Exposed to Thermal and Electrical Stresses*”

E.G. Atiya, A.E. Elesawy, D.EA. Mansour, **M. Ghali**

2022 9th International Conference on Condition Monitoring and Diagnosis ,Kitakyushu, Japan, 2022, pp. 251.

56- “*All organic homojunction PEDOT:PSS diode*”

S. Abouldhaded, **M.Ghali**, M. Ayad

Scientific Reports 12(1) 2022 (Q1)

55-“*Physical and chemical properties of dust in the Pre-Aral region of Uzbekistan*”,

Rustam Bazarbayev · Biao Zhou · Atabek Allaniyazov · Guanggen Zeng · Damir Mamedov, Evgenia Ivanitskaya, Qingzhu Wei, Hongqiang Qian · Komiljon Yakubov

Mohsen Ghali, Smagul Karazhanov

Environmental Science and Pollution Research, (2022) (Q1)

54- “*Low Temperature Synthesis of Fluorescent Carbon Dots from Pomegranate Peels*”

Prince Anagbonu, Ahmed Allam and **Mohsen Ghali**

Key Engineering Materials, 2022 Vol. 931, pp 25-31

- 53- “Enhancing Thermoelectric Properties of Conductive Polymers Using ZrMetal-Organic Frameworks Composite Materials”
Asmaa Ebrahim, **Mohsen Ghali**, Ahmed Abdelmoniem
Materials Science Forum, 2022 Vol. 1053, pp 104-108
- 52- "Effect of Oxidation of Aged Power Transformer Insulating Oil on UV-Vis Spectra"
A. K. Rashed, D. E. A. Mansour, A. Rezk and **M. Ghali**
2022 IEEE 21st International Conference on Dielectric Liquids (ICDL), 2022, pp. 1-4
- 51- “Preparation and characterization of $Sb_2(S_xSe_{1-x})_3$ thin films deposited by pulsed laser deposition”.
Fengying Gao, Xiuling Li, Xiaoyong Xiong, Kelin Li, Yue Xie, Jincheng Luo, Bing Li, Guanggen Zeng & **Mohsen Ghali**
J Mater Sci: Mater Electron 33, 26086–26099 (2022).
- 50- “Fabrication of closed-space sublimation $Sb_2(S_{1-x}Se_x)_3$ thin-film based on a single mixed powder source for photovoltaic application”
Ke lin, Biao Zhou, Xiuling Li, Fengying Gao, Xiaoyong Xiong, Bing Li, Guanggen Zeng, **Mohsen Ghali**
Optical Materials, 122 (2021) 111659 (Q2)
- 49- “Research on FTO/CBD-CdS: Cl thin film photodetector with a vertical structure”
Junlin Zhang, Yunfan Wang, Biao Zhou, Hongyuan Cao, Xiutao Yang · Bing Li · Jingquan Zhang, Lianghuan Feng · Guanggen Zeng · Zhengxiang Zhong · **Mohsen Ghali** · Smagul Karazhanov
Applied Physics A (2021) 127:560 (Q2)
- 48- “Preparation of carbon quantum dots/polyaniline nanocomposite: Towards highly sensitive detection of picric acid”
Heba M. Ahmed, **Mohsen Ghali**, Waheed Zahra, Mohamad M. Ayad
Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy 260 (2021) 119967 (Q2)
- 47- “Hybrid solar cell made of an electron transport layer of n-PEDOT:PSS and p-CuInGaSe₂ nanocrystals film”,
M. Sami, S. Elkun, **Mohsen Ghali**, M.M. Mosaad, M.R. Eraky
Materials Letters 300 (2021) 130155 (Q1)
- 46- “Photoluminescence Spectroscopy Measurements for Effective Condition Assessment of Transformer Insulating Oil”,
A. M. Alshehawy, Diaa-Eldin A. Mansour, **Mohsen Ghali**, Matti Lehtonen and M. F. Darwish
Processes 2021, 9, 732. (Q2)
- 45- “Effect of pulse bias voltages on performance of CdTe thin film solar cells prepared by pulsed laser deposition”
Dan Wang, Yajun Yang, Tianzhen Guo, Xiaoyong Xiong, Yue Xie, Kelin Li, Bing Li, and **Mohsen Ghali**

Solar Energy 213 (2021) 118–125 (Q1)

44- *“Preparation and characterization of CuSbSe₂ thin films deposited by pulsed laser deposition”*

Tianzhen Guo, Dan Wang, Yajun Yang, Xiaoyong Xion, Kelin Li, Guanggen Zeng, Bing Li, **Mohsen Ghali**

Materials Science in Semiconductor Processing, 127, (2021) 105716 (Q2)

43- *“Static interaction between colloidal carbon nano-dots and aniline”*

Y. Bakier, **M. Ghali**, A. Elkun, A. M. Beltagi, W.K.Zahra

Material Research Bulletin 13(2021)11119 (Q1)

42- *Hot-injection synthesis of ultra-small CuIn₃Se₅ quantum dots”*

M. Ghali, A. Rezk, A. Eissa, A. Elkon, Gh. Ali, M.K. Elnimr and M. M. Mosaad,

J. Physics and Chemistry of Solids, 146, (2020) 109610 (Q1)

41- *“Highly sensitive fluorescent detection of pyridine using carbon quantum dots derived from folic acid”*

Y. Bakier, **M. Ghali**, W. Zahra

J. Phys. D: Appl. Physics, 53, 40 (2020) 405103 (Q1)

40- *“Optical Sensing of Pyridine Based on Green Synthesis of Passivated Carbon Dots”*

H. Elsayed, **M. Ghali**, W.K. Zahra and M. M. Ayad

Materials Today: Proceedings, 2020 <https://doi.org/10.1016/j.matpr.2020.05.185>

39- *“Highly luminescent un-doped carbon nano-dots driven from folic acid and passivated by polyethylene glycol”*

Y. Bakier, **M. Ghali**, W.K. Zahra

Materials Today: Proceedings, 2020 <https://doi.org/10.1016/j.matpr.2020.05.057>

38- *“Positron Annihilation Spectroscopy on colloidal CuIn_{1-x}Ga_xSe₂ Semiconductor Nanocrystals”*

B.A. Elsaka, A. Eissa, **M. Ghali**, and T. Sharshar

Proceeding of Institute of Physics (IOP) conference series: Materials Science and Engineering, 2019.

37- *“Optical Spectroscopy Analysis of Ester Oils under Thermal Aging Conditions”*

A. M. Alshehawy, D. A. Mansour and **M. Ghali**

Proceeding of the 2019 IEEE 20th International Conference on Dielectric Liquids (ICDL, Roma, Italy.

36- *“Influence of Light Emitting Diode on Tissue Culture of Banana Grande Naine Cultivar”*

Omayma M. Ismail, Yuxin Tong, **M. Ghali**

Plant Cell Biotechnology and Molecular Biology 19 (1-2):34-39; 2018.

- 35- "*Evaluating the Impact of Aging in Field Transformer Oil Using Optical Spectroscopy Techniques*"
A. M. Alshehawy, D. A. Mansour, **M. Ghali**, and A. Rezk,
Proceeding of the IEEE International Conference on Dielectric Liquids (ICDL), UK, 2017.
- 34- "*Photoluminescence based Condition Assessment of Aged Transformer Oil*".
A. M. Alshehawy, D. A. Mansour, **M. Ghali**,
Proceeding of the Nineteenth International Middle East Power Systems Conference (MEPCON), 19-21 Dec, 2017.
- 33- "*Condition assessment of aged transformer oil using optical spectroscopy techniques*"
A. M. Alshehawy, D. A. Mansour and **M. Ghali**,
Proceeding of the 2016 IEEE Conference on Electrical Insulation and Dielectric Phenomena (CEIDP), Toronto, Canada, pp. 326-329.
- 32- "*Impact of thermal aging of transformer oil on UV-Vis optical spectrum and dielectric properties*"
A. M. Alshehawy, D. A. Mansour, A. Rezk and **M. Ghali**,
Proceeding of the Eighteenth International Middle East Power Systems Conference (MEPCON), Cairo, 2016, Egypt, pp. 860-865.
- 31- "*Crystalline phase transformation of colloidal CdS nanocrystals*"
M. Ghali, A. M. Eissa and M. M. Mosaad
Int. J. Modern Physics B 30 (2016)1750037.
- 30- "*Synthesis of CuIn₃Se₅ colloidal nanocrystals and their ink-coated films for photovoltaics*"
M. Ghali, M. K. Elnimr, Gh. Ali, B. Yousuf and H. Talaat
Proceeding of the 32nd European Conference on Photovoltaic Solar energy Conference EUPVSEC 2016.
- 29- "*Colloidal CuInSe₂ nanocrystals and its thermally evaporated thin films for low-cost photovoltaics*"
M. Ghali, M. Elnimr, Gh. Ali, B. Yousif
Optical Materials, 55 (2016) 145
- 28- "*Vertical Electric Field induced suppression of fine structure splitting of excited state excitons in single GaAs/AlGaAs island Quantum Dots*"
M. Ghali, Yuzo Ohno and Hideo Ohno
Applied Physics Letters, 107 (2015) 123102
- 27- "*Controlled ultraviolet resonance energy transfer between bovine serum albumin donors and cadmium sulphide quantum dots acceptors*"
M. Ghali, M. Elkemary, and M. Ramadan
Applied Physics Express 8 (2015) 085001
- 26- "*Crystalline Phase transformation of Colloidal Cadmium Sulfide Nanocrystals Thin Films*"
M. Ghali

Proceeding of the International XXXI Conference on Materials Science and Applications, 6-9 January 2015, Hurghada, Egypt.

25- *"On the control of optical spin injection by tuning the band gap offset in magnet in magnetic-non-magnetic hybrid structure"*

M.Ghali

Optical and Laser Technology 60 (2014) 22-26

24- *"Generation and control of polarization-entangled photons from GaAs island quantum dots by an electric field"*

M. Ghali, Keita Ohtani, Yuzo Ohno and Hideo Ohno

Nature Communications, 3, 661 (2012)

23- *"Vertical Electric Field induced control of the excitons fine structure splitting in GaAs island Quantum dots"*

M.Ghali, Keita Ohtani, Yuzo Ohno and Hideo Ohno

Japanese Journal of Applied Physics, 51 (2012) 06FE14

22- *"Control of the excitons fine structure splitting in GaAs single quantum dots using vertical gate voltage"*

M. Ghali, Keita Ohtani, Yuzo Ohno and Hideo Ohno

Proceeding of the 3rd SOIM international conference on information, Sendai, Japan, 12, 19-20, 2010.

21- *"Static quenching of Bovine Serum Albumin conjugated with small size nanocrystalline quantum dots"*

M. Ghali

Journal of Luminescence, 130 (2010) 9.

20- *"Electrical injection and optical read out of spin states in a single quantum dot"*

T. Kummel, **M.Ghali**, J.Huang, R. Ariens, G. Bacher, J. Wenish, and K.

Brunner

International Journal of Modern Physics B, Vol. 23, (2009) 2826

19- *"Growth process-induced phase transformation on chemically synthesized CdS material"*

M. Ghali

Proceeding of the International Conference on Nanotechnology and Advanced Materials, ICNAM 2009, Bahrain, 2009 .

18- *"Spin injection-induced charging of individual InAs/GaAs quantum dot"*

M. Ghali, T. Kummel, G. Bacher, J. Wenisch and K. Brunner

Proceeding of the International XXVI Conference of Solid State Physics and Materials Science, 24-27 March 2008, Gulf of Suez Ein Soukhna, Egypt

17- *"Electrical spin-polarized electron charging of InAs single quantum dot"*

M. Ghali, T. Kummel, G. Bacher, J. Wenisch and K. Brunner, **Applied Physics Letters, 93, 073107 (2008).**

(selected for virtual journal of Nanoscience and Nanotechnology, August 2008)

16- *“Charging of InAs/GaAs single quantum dot using n-ZnMnSe spin aligner”*

M. Ghali, T. Kummel, J. J. Wenisch, K. Brunner and G. Bacher.
Physica E 40, 6 (2008).

15- *“Electrical manipulation of spin injection into InGaAs/GaAs single quantum dot”*

M. Ghali, T. Kummel, J. J. Wenisch K. Brunner and G. Bacher
Journal of Superconductors and Novel Magnetism 20, 412 (2007).

14- *“Spin injection into InGaAs/GaAs single quantum dot in II-VI-III-V p-i-n structures”*

M. Ghali, T. Kummel, J. Wenisch, K. Brunner and G. Bacher,
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13- *“Spin precession in a model structure for spintronics”*.

M. Ghali, J. Kossut, E. Janik, F. Teppe. D. Scalbert
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12- *“Optical spin injection into magnetic/non-magnetic heterointerface: Exclusion of the detection side effects”*.

M. Ghali, J. Kossut, E. Janik, F. Teppe. D. Scalbert
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11- *“Magnetic field- switching of spin injection and spin coherence in magnetic quantum structures”*.

M. Ghali , J. Kossut, E. Janik, F. Teppe and D. Scalbert
Phys. Stat. Sol. (c) 1, 4 (2004), reprinted in **Phys. Stat. Sol. (b)** 241, 3 (2004) 688-691.

10- *“Negatively charged exciton as a probe of spin injection from CdMgMnTe into CdMgTe/CdTe graded band gap quantum structure”*

M. Ghali, J. Kossut, E. Janik and W. Heiss,
Semicond. Sci. Technol., 19, 359 (2004) .

9- *“Trions as a probe of spin injection through different g-factor heterointerfaces”*

M. Ghali J. Kossut and W. Heiss,
Appl. Phys. Letters, 82, 541(2003).

(selected for virtual journal of Nanoscience and technology, May 2003)

8- *“Trions as a probe of spin injection through II-VI magnetic/non-magnetic heterointerface”*,

M. Ghali, J. Kossut, E. Janik, M. Potemski and F. Teran
Thin Solid Films, 412, 30 (2002).

7- *“Spin diffusion across hugely lattice mismatched heterointerfaces”*

M. Ghali, J. Kossut, E. Janik, K. Reginski, P. Dluzewski, M. Potemski and F. Teran, **Physica E**, **13**, 547 (2002).

6- "*Spin injection through magnetic/non-magnetic heterointerfaces using trions for spin injection*"

M. Ghali, J. Kossut, W. Heiss, M. Potemski,
Proceeding of ICPS-26, International Conference on Physics of Semiconductors, Edinburgh, July 29 – August 2, 2002 .

5- "*Optical injection of spin polarized carriers across a strongly mismatched heterostructure*"

M. Ghali, J. Kossut, E. Janik, K. Reginski,
Solid State Communications, **119**, 6 (2001).

4- "*Sphalerite-type (Cd,Zn)S films by atomic layer epitaxy in the gas flow*

A. Szczerbakow , J. Bak-Misiuk, E. Dynowska, **M. Ghali**, M. Godlewski, V. Ivanov,
J. Cryst. Growth, priority communication, **216** (2000) 533-534.

3- "*In search for substrate materials for GaN epitaxy: Optical properties of thin films of ZnO Grown by Atomic Layer Epitaxy*"

M. Godlewski, A. Szczerbakow, V. Ivanov, **M. Ghali**, R. Langer, A. Barski,
Electron Technology, **33** (2000) 416.

2- "*Physical properties of chemically deposited CdS films for solar cells*"

M. Badawi, S. Aboul-Enein, **M. Ghali** and G. Hassan
Renewable energy, **14**, 107 (1998).

1- "*Preparation and properties of CdS thin films prepared on cold substrates as a window layer for solar cells.*"

S. Aboul-Enein M. Badawi, **M. Ghali** and G. Hassan
Renewable Energy, **14**, 113 (1998).

Curriculum Vitae

Personal information

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Scopus website <https://www.scopus.com/authid/detail.uri?authorId=57216622793>

Google Scholar website https://scholar.google.com/citations?hl=ar&user=w8EkP_nSisUC

Faculty of Science, Kafrelsheikh University Website of https://kfs.edu.eg/staff_site/index.aspx?staff=522&topic=6231

Research Gate website <https://www.researchgate.net/profile/Abeer-Mera>

Prince Sattam Bin Abdulaziz University Website <https://faculty.psau.edu.sa/ar/psau/facultymember/a.mera>

ORCID ID <https://orcid.org/0000-0002-9831-8994>

Web of science <https://www.webofscience.com/wos/author/record/GQZ-3821-2022>

Education

31/12/2014	Ph.D. degree in Physics with a thesis topic of "Theoretical Studies on Atomic and Molecular Structure Parameters", Tanta University, Egypt.
31/12/2008	M.Sc. degree in Physics with a thesis topic of " Propagation of Electromagnetic Field", Tanta University, Egypt.
2005	International Computer Driving Licence (ICDL)
2003	B. Sc .In Physics, Faculty of Science, Tanta University, Egypt. quotation : very good.
2001	Preliminary B. Sc. courses in Physics, Faculty of Science, Tanta University, Egypt.
2000	Special Diploma for Especially Education, Faculty of Education, Alexandria, Egypt. quotation :very good.
1999	B. Sc .In Physics & Chemistry, Faculty of Education, Tanta University, quotation : very good" Honor Rank" Kafrelsheikh University, Egypt.

Employment

6/10/2015 till now	Assistant Professor at Physics Department, College of Arts and Sciences, Wadi Aldawasir. Prince Sattam Bin Abdulaziz University. Kingdom of Saudi Arabia.
7/2/2015	Lecturer at Physics Department, Faculty of Science, Kafrelsheikh University, Egypt.
1/6/2009-2014	Assistant lecturer at Physics Department, Faculty of Science, Kafrelsheikh University, Egypt.
29/1/2009	Assistant lecturer at Physics Department, Faculty of Education, Kafrelsheikh University, Egypt.

14/10/2001- 2008

Scientific researcher at Physics and Chemistry Department, Faculty of Education, Kafrelsheikh University, Egypt.

Research Interests

- ❖ **Material Science**
- ❖ **Condensed Matter Physics (DFT)**
- ❖ **Optoelectronics**
- ❖ **Spectroscopy and Molecular Properties**
- ❖ **Computational Materials Modelling.**
- ❖ **Solar cells (renewable energy).**
- ❖ **Magnetic, Thermoelectric and optical properties of ternary alloys for spintronic material , defects in solids, Perovskite materials for energy renewable applications.**

Publications

1-Energies,Wavelengths,Transition Probabilitie, Radiative Lifetimes and Collision Strengths for Se-Like Mo, Tc, Ru and Rh ions. The Journal of American Science ,Volume 9, Issue 9, Cumulated No. 67, September 25, 2013

2-Fine Structure Calculation of Energy Levels, Oscillator Strengths and Lifetimes in Se-Like Ions.

International Journal of Engineering and Innovative Technology (IJEIT) Volume 4, Issue 6, December 2014

3-Calculation of Energy Levels, Radiative Lifetimes of the Excited States, Wavelengths, Transition Probabilities and Oscillator Strengths and Collision Strengths for Kr III and Zr VII.

International Journal of Emerging Technology and Advanced Engineering

Website: www.ijetae.com (ISSN 2250-2459, ISO 9001:2008 Certified Journal, Volume 5, Issue 4, April 2015.)

4- Calculation of Energy Levels, Radiative Lifetimes of the Excited States, Wavelengths, Transition Probabilities and Oscillator Strengths and Collision Strengths for Sr V and Y VI.

**International Journal of Emerging Technology and Advanced Engineering
Website: www.ijetae.com (ISSN 2250-2459, ISO 9001:2008 Certified Journal, Volume 5, Issue 4, May 2015).**

**5-Theoretical Studies on Atomic Structure Parameters of R_p IV ion.
Tehama Second Annual Scientific Forum- 28-29 march 2018.**

**6- Performance Analysis of Solar PV System under Shading Condition.2020
International Youth Conference on Radio Electronics, Electrical and Power
Engineering (REEPE), ISBN Information:
DOI: 10.1109/REEPE49198.2020.9059172, Publisher: IEEE, Date Added to
IEEE *Xplore*: 09 April 2020.**

**7- Energy Levels, Wavelengths and Life Time for Transitions in Ag XIV.
Published in: 2020 International Youth Conference on Radio Electronics,
Electrical and Power Engineering (REEPE)
Date of Conference: 12-14 March 2020, Date Added to IEEE *Xplore*: 09 April
2020, ISBN Information: DOI: 10.1109/REEPE49198.2020.9059139,
Publisher: IEEE, Conference Location: Moscow, Russia, Russia**

8- New lead-free double perovskites (Rb₂GeCl/Br)₆; a promising materials for

renewable energy applications.

Materials Chemistry and Physics, (ISSN: 0254-0584, Volume: 271, Published Date: 24 June 2021, Impact Factor: 4.094 ,Q2)

9- Electronic, optical, and transport properties of RbYbX₃ (X = Cl, Br) for solar cells and renewable energy: A quantum DFT study.

***Physica Scripta*, (ISSN: 0031-8949, Volume: 96, Issue : 9, Published Date: SEP 2021, Impact Factor: 2.487 ,Q2)**

10-Structural, Magnetic, and Dielectric Properties of Sn-Doped Bi FeO₃:Experiment and DFT Analysis., Journal of Superconductivity and Novel Magnetism, (ISSN: 1557-1939 , Volume 3, Issue: [6](#), Published Date: 7 June 2021 , Impact Factor: 1.506 Q4

11- Optoelectronic and thermoelectric properties of A₃AsN (A = Mg, Ca, Sr and Ba) in cubic and orthorhombic phase, *Journal of Materials Research and Technology* (JMR&T), (ISSN: 2238-7854, Volume: 13, Published Date: JUL-AUG 2021, Impact Factor: 5.039, Q1).

12-Density Functional Theory and Molecular Docking Investigations of the Chemical and Antibacterial Activities for 1-(4-Hydroxyphenyl)-3-phenylprop-2-en-1-one., *Molecules*, (ISSN: 1420-3049 , Volume: 26 , Issue:12, Published Date: 14 June 2021, Impact Factor: 4.411, Q2).

13- Effect of dopants on the structural, optoelectronic and magnetic properties of pristine AgGaO₃ perovskite: A first principles study.

***Optik*, (ISSN: -- , Volume: 244, Issue:- , Published Date: OCT 2021, Impact Factor: 2.443, Q2)**

14- Inductive effect in Mn-doped ZnO nanoribbon arrays grown on Ni foam: A promising key for boosted capacitive and high specific energy supercapacitors. Ceramics International, (ISSN: 0272-8842, Volume: 47, Issue: 20, Pages: 28338-28347 Published Date: OCT 15 2021, Impact Factor: 4.527, Q1)

15-First principle study of half metallic ferromagnetism and transport properties of spinel's $ZnFe_2(S/Se)_4$ for spintronic.

Physica Scripta (ISSN: 0031-8949, Volume: 96 , Issue :12, Published Date: September 2021, Impact Factor: 2.487, Q2)

16-First-principle study of electronic, optical and transport properties for (Zn/Cd)Sc₂Se₄ spinel chalcogenides.

BULLETIN OF MATERIALS SCIENCE (ISSN: 0250-4707, Volume:44, Issue :4, Published Date: 12 July 2021, Impact Factor: 1.783, Q4)

17-Study of optoelectronic and thermoelectric properties of double perovskites for renewable energy.

Physica Scripta (ISSN: 0031-894, Volume: 96, Issue :12, Published Date: 4 October 2021 , Impact Factor: 2.487 ,Q2).

18- First principle study of optoelectronic and thermoelectric properties of magnesium based MgX_2O_4 (X = Sb, Bi) spinels.

Journal of Solid State Chemistry (ISSN: 0022- 4596 , Volume: 303, Issue :-- , Published Date: 30 July 2021 , Impact Factor: 3.498, Q2).

19- Half-metallic ferromagnetism and thermoelectric properties of double perovskites $Rb_2Z(Cl/Br)_6$ (Z = Ta, W, Re).

Journal of Alloys and Compounds, Volume: 894, Issue :---- Published Date: 13 October 2021, Impact Factor: 5.316 , Q1).

20- First Principle Analysis of Lead-free Variant Perovskites Iodides for Optical and Thermoelectric Applications.

Journal of Materials Research and Technology,

Volume: 15 , Issue :---- Published Date: 19 September 2021, 5 1 6 5-5 1 7 4 Impact Factor: 5.039, Q1).

21- Room temperature half metallic ferromagnetism due to Os/Ir(5d) in double perovskites. *Journal of Alloys and Compounds*, Volume: 896, Published Date: 5 December 2021, Impact Factor: 5.316 , Q1)

22- First-principles study of lead-free double perovskites Ga_2PdX_6 (X = Cl, Br, and I) for solar cells and renewable energy, *Journal of Materials Research and Technology (JMR&T)*, Volume:16, Published Date: 1December 2021, Impact Factor: 5.039, Q2)

23- Half Metallic Ferromagnetism and Transport Properties of Zinc Chalcogenides ZnX_2Se_4 (X = Ti, V, Cr) for Spintronic Applications, *materials*, Volume:15, Issue :55 Published Date: 22 December 2021, Impact Factor: 3.623, Q2).

24- First principle study of magnesium-based chalcogenides $\text{MgLa}_2(\text{S/Se})_4$ for solar cells and renewable energy applications *Applied Physics A*, volume 128, Published Date: 14 December 2021, Impact Factor: 2.584, Q2

25- First-principles study of lead-free double perovskites Ga_2PdX_6 (X = Cl, Br,

and I) for solar cells and renewable energy.

Journal of Materials Research and Technology (JMR&T), volume 16,
Published Date: 14 December 2021, Impact Factor: 5.039, Q2

26- Study of new lead-free double perovskites halides Tl_2TiX_6 (X = Cl, Br, I) for solar cells and renewable energy devices

Journal of Solid State Chemistry, volume 308, Published Date: 6 January 2022, Impact Factor: 3.498, Q2).

27- Study of half metallic ferromagnetism and, transport properties of $Cd_{0.875}TM_{0.125}O$ (TM = Mn, Fe, Co, Ni) alloys for spintronic applications, *Materials Chemistry and Physics*, (ISSN: 0031-8949, Volume: 280 , Issue :-, Published Date: 8 February 2022, Impact Factor: 4.09, Q2)

28- First principles study of electronic, optical, and thermoelectric properties of K_2Pd (Cl/Br)₆ for solar cells and renewable energy, *Physica Scripta* (ISSN: 0031-8949, Volume: 97 , Issue :-, Published Date: 1 February 2022, Impact Factor: 2.487, Q2)

29-Elucidating the electrical performance and thermal stability in 14-nm FinFETs CMOS technology, *Superlattices and Microstructures*, Accepted 21 January 2022, Impact Factor: 2.658, Q3).

30- First principles study of electronic, optical, and thermoelectric properties of K_2Pd (Cl/Br)₆ for solar cells and renewable energy, *Physica Scripta* (ISSN: 0031-894, Volume: 97, Issue :12, Published Date: MAR 1 2022 , Impact Factor: 2.487 ,Q2.

31- First principle study of optoelectronic and mechanical properties of lead-

free double perovskites Cs_2SeX_6 ($\text{X} = \text{Cl}, \text{Br}, \text{I}$), Journal of Taibah University for Science, Volume: 16, Issue :1, Published Date: 26 January 2022, Impact Factor: 2.688,Q2.

32- Role of trivalent substitution at octahedral side on ferromagnetism and transport properties of ZnX_2S_4 ($\text{X} = \text{Ti}, \text{V}, \text{Cr}$) spinels, European Physical Journal Plus, Volume: 137, Issue :03, Published Date: MAR 3 2022, Impact Factor: 3.91,Q1.

33- First-principles study of ferromagnetic, optical, and transport properties of double Perovskites Z_2FeTiO_6 ($\text{Z}=\text{Mg}, \text{Zn}$), Physica Scripta, Volume: 97, Issue :04, Published Date: APR 1 2022, Impact Factor: 2.487,Q2.

34- Optimization of the heat conduction process in a double-gate MOSFET using an enhanced electrothermal model,"Journal of Computational Electronics" Published Date: SEP 2022, Impact Factor: 2.658, Q3.

35- Tuning of band gap of double perovskites halides $\text{Rb}_2\text{CuSbX}_6$ ($\text{X} = \text{Cl}, \text{Br}, \text{I}$) for solar cells and energy harvesting, **Materials Science and Engineering: B**, Q2 <https://doi.org/10.1016/j.mseb.2022.116088>.

36- Study of new double perovskites Tl_2PtX_6 ($\text{X} = \text{Cl}, \text{Br}, \text{I}$) for solar cells and thermoelectric applications, **Physica Scripta** Q2 [10.1088/1402-4896/ac9be5](https://doi.org/10.1088/1402-4896/ac9be5).

37- Study of half metallic ferromagnetism and thermoelectric properties of spinel chalcogenides BaCr_2X_4 ($\text{X} = \text{S}, \text{Se}, \text{Te}$) for spintronic and energy harvesting, **Journal of Materials Research and Technology**, Q2

<https://doi.org/10.1016/j.jmrt.2022.03.175>

38- Study of double perovskites X_2InSbO_6 ($\text{X} = \text{Sr}, \text{Ba}$) for renewable energy; alternative of organic-inorganic perovskites, **Journal of Materials Research**

and Technology, Q2, <https://doi.org/10.1016/j.jmrt.2022.04.114>

39- Room temperature ferromagnetism and thermoelectric behavior of calcium based spinel chalcogenides CaZ_2S_4 ($Z = \text{Ti, V, Cr, Fe}$) for spintronic applications, **Journal of Physics and Chemistry of Solids**, Q2

<https://doi.org/10.1016/j.jpics.2022.110742>

40- Impact of 5d electrons on half metallic ferromagnetism, and thermoelectric properties of $\text{Cs}_2\text{Z}(\text{Cl}/\text{Br})_6$ ($Z = \text{Os, Ir}$) for spintronic applications, **Materials Chemistry and Physics**, Q2,

<https://doi.org/10.1016/j.matchemphys.2022.126414>

41- Unravelling the magnetism, thermophysical, mechanical and thermoelectric properties of Co-based heuslers: An ab-initio prospective, **Physica B: Condensed Matter**, Q3

<https://doi.org/10.1016/j.physb.2022.414517>

42- Study of lead-free double perovskites X_2AgBiI_6 ($X = \text{K, Rb, Cs}$) for solar cells and thermoelectric applications, **Journal of Materials Research and Technology**, Q2, <https://doi.org/10.1016/j.jmrt.2022.11.132>

43- Study of double perovskites $\text{In}_2\text{Ti}(\text{Br}/\text{I})_6$ for solar cells, and renewable energy; Alternative of hybrid perovskites, **Materials Science in Semiconductor Processing**, Q2, <https://doi.org/10.1016/j.mssp.2022.107251>

44- The bandgap engineering of double perovskites $\text{Cs}_2\text{CuSbX}_6$ ($X = \text{Cl, Br, I}$) for solar cell and thermoelectric applications, **Inorganic Chemistry Communications**, Q2, <https://doi.org/10.1016/j.inoche.2022.110303>

45- Tuning of Band Gap by Variation of halide ions in K_2CuSbX_6 ($X = \text{Cl, Br, I}$) for Solar cells and Thermoelectric Applications, **Journal of Physics, and Chemistry of Solids**, Q2, Volume 174, IF : 4.383

46- Tuning of band gap by anion variation of double perovskites K_2AgInX_6 (X = Cl, Br) for solar cells and thermoelectric applications, Journal of Solid State Chemistry, Q2, <https://doi.org/10.1016/j.jssc.2022.123820>

Conferences

1- Tehama Second Annual Scientific Forum- 28-29 march 2018.

2- 2020 International Youth Conference on Radio Electronics, Electrical and Power Engineering (REEPE) , IEEE, Conference Location: Moscow, Russia, Russia.

3- Fakeeh Care 1 st Annual Congress, 17/2/2023

Research Projects

(specialized Research Grant program)

1- Quantum Ferromagnetism in Transition Metals doped II-VI Semiconductors for Spintronic Applications: A Merging Technology".

Project Number :- 2021/01/18669.

2- Study of Lead-Free Double Perovskites for Renewable Energy Applications; An Alternative of Organic-Inorganic Hybrid Perovskites.

Project Number :- 2022/01/22718.

3- Comparison study between Nuclear Geometr Collective Models (GCM) and Interacting Boson Model (IBM)

Project Number :- 2022/01/23196.

Teaching Experience

Quantum Mechanics (1)

Optics (1)

Atomic Physics

Solid State Physics

Classical Mechanics (1)

Electric and geometrical optics lab.

Electromagnetic (1)

Electromagnetic (2)

Mathematical Physics (1)

Thermodynamics

General Physics (1), (2)

Statistical Physics (1)

Electromagnetic Lab

Nuclear and particles physics

Modern Physics Lab

Laser physics and its applications

Introduction to astrophysics

Sound and waves.

➤ **Teaching several Theoretical and practical physics courses (2001-2023).**

➤ **Participated in the following Training courses:**

Quality Standards in Teaching

Effective Presentations skills

Effective teaching

Communication skills in education

Skills of Thinking

University Lecturer Preparation

Ethics of profession

Strategically planning for Higher Institute of Education

Credit Hours System

Students evaluation and exam systems

Scientific Research Methods

Competitive research projects

International

Scientific

University administration

Publication

Awards and Honors

❖ **Scientific Publication award, Prince Sattam Bin Abdulaziz University, Kingdom of Saudi Arabia.**

❖ **Scientific Publication award, Kafrelsheikh University, Egypt.**

❖ **Certificate of honor for participating in student activities**

- ❖ **Certificate of honor for contribution to the graduate unit**
- ❖ **Certificate of honor for contribution to the scientific forum.**
- ❖ **Certificates of honor for contribution to the development and quality unit**

Quality Assurance and Accreditation Committee

- ❖ **Coordinator of Physics Department, College of Arts and Sciences, Wadi Aldawasir. Prince Sattam Bin Abdulaziz University. Kingdom of Saudi Arabia., for Quality Assurance and Accreditation Committee.**
- ❖ **Coordinator of Career guidance(Graduate Unit) , College of Arts and Sciences, Wadi Aldawasir. Prince Sattam Bin Abdulaziz University. Kingdom of Saudi Arabia.,**
- ❖ **Coordinator of Physics Department, College of Arts and Sciences, Wadi Aldawasir. Prince Sattam Bin Abdulaziz University. Kingdom of Saudi Arabia., for Development and Quality Unit**
- ❖ **Coordinator of Physics Department, College of Arts and Sciences, Wadi Aldawasir. Prince Sattam Bin Abdulaziz University. Kingdom of Saudi Arabia., for Student rights**
- ❖ **Coordinator of Physics Department, College of Arts and Sciences, Wadi Aldawasir. Prince Sattam Bin Abdulaziz University. Kingdom of Saudi Arabia., for Intellectual awareness**

Skills and Interests

Languages	English (very good), Arabic (native language)
Skills and software	Special Programs in the Computer Training and Internet Training for Postgraduate Students, office

programs used internet and sites, Microsoft-Office-Suite, International Computer Driving License (ICDL), Origin, Endnote, Mendeley, and 3D sketches

Interests

Reading, computer, Tasty cooking, music and nature.

Curriculum Vitae

WALID ISMAIL ABD EL-GWAD ISMAIL

Mobil: 01002428310

E-Mail: walid_s2@yahoo.com



PERSONAL INFORMATION:

Full Name	: Walid Ismail Abd El-Gwad Ismail
Date of Birth	: 30/11/1979
Gender	: Male
Nationality	: Egyptian
Religion	: Muslim
Place of Birth	: Kafer El-sheikh, Egypt
Marital Status	: married with two children
Military status	: Led military service
Landline No.	: 047/3242573 - 047/3230373
Mobile No.	: (+2)01002428310
Address	: 10 First St , Zohdy Division ,Kafr El-Sheikh, Egypt
E-mail	: walid_s2@yahoo.com

PRESENT OCCUPATION:

- **Ass. Prof.** Department of Physics, Faculty of Science, University of Kafr El-Sheikh, Egypt. (2022).

EDUCATIONAL QUALIFICATIONS:

Kafr ElSheikh University

Faculty of Science, Physics Department

- PhD Thesis with Title "Nanomaterial's for Photovoltaic Applications" (2016)
- With overall grade of Excellent

Kafr ElSheikh University

Faculty of Education, Physics Department

- Master's Thesis with Title "Structure and Physical Properties

Curriculum Vitae

Study of Nano Porous Materials”

2010

- With overall grade of Excellent

Tanta University

Faculty of Science, Physics Department

- Complement Studies 2008-2009
- With overall grade of very good

Kafr ElSheikh University

Faculty of Education, Physics Department.

- Special Diploma for Academic physics Teacher Preparation. June 2006
- with overall grade of very good

Tanta University

Kafr El-Sheikh Branch, Faculty of Education, Physics Department.

- General Diploma for Academic physics Teacher Preparation (September 2005)
- with overall grade of very good

Tanta University

Kafr El-Sheikh Branch, Faculty of Education, (Chemistry and Physics Department).

- Bachelor of Science and Education :(B.Sc.)Studies 1998-2002
- with overall grade of very good (Honors)

EMPOLYMENT HISTORY:

- **Demonstrator**, Department of Physics and Chemistry, Faculty of Education, University of Kafr El-Sheikh, Egypt (2004 -2009).
- **Demonstrator**, Department of Physics, Faculty of Science, University of Kafr El-Sheikh, Egypt. (2009 -2010).
- **Assistant Lecturer**, Department of Physics, Faculty of Science, University of Kafr El-Sheikh, Egypt. (2011).

Curriculum Vitae

- **Lecturer**, Department of Physics, Faculty of Science, University of Kafr El-Sheikh, Egypt. (2016).
- **Ass. Prof.** Department of Physics, Faculty of Science, University of Kafr El-Sheikh, Egypt. (2022).

SKILLS

• Computer knowledge

☒ **ICDL certificate at these following applications:**

- Fortran programming
- Windows
- Microsoft Office (Word – Excel – Access - PowerPoint)
- Information Technology (I.T.)
- Internet Skills.

☒ **Special Programs:**

- OriginLab Program.

TRAININGS COURSES:

- Courses development staff members - Development Center, Tanta University - Center for Development of the University of Kafr El-Sheikh.
- Internet and computer courses for diplomas - Faculty of Education. (2005-2006)
- Internet and computer courses for Master - Faculty of Education. (2008)
- Passing a language examination held by the university as a condition for registration of master. (2009)
- Courses Accreditation of the Central Laboratory of Kafr ElSheikh University of (General requirements for the efficient testing and calibration laboratories - Al-CG). (2010)
- Courses Accreditation of the Central Laboratory of Kafr El-Sheikh University of (the Accreditation of a gamma-ray spectrometer) (HP Ge Detector). (2010)
- Work on the devices (Super Critical Drying Device, UV Spectrometer, LCR Bridge and DC Bridge- Solar simulator technique-Spin Coating technique- Sputtering technique).
- Positron Annihilation Technique and its equipments.

Conferences:

- Attendance and participation in the Department of Physics conference - Faculty of Science - Tanta University (2010).

Curriculum Vitae

- The Second International Conference on Advanced Basic & Applied Science (ABAS), 2-4 April 2014, Faculty of Postgraduate Studies for Advanced Science, Beni Suef University, Sokhna, Egypt.
- The First international workshop “Nanotechnology from Lab to Industry (Nano LI 2014)”, 1-2 September 2014, South Valley University, Qena -Egypt.
- Participated in Workshop of “Production and transfer of knowledge of nanoscience in the field of solar energy”, 27.10.2016 at National Research Center, Egypt.
- The First Scientific Conference of Water and Energy (W.C.W.E), 2 March 2017, Egyptian Scientific Syndicate - Damanhour, Behera, Egypt.
- The First ANSOLE Scientific Meeting in Egypt (ASMEG 2019), was held on 30th January (2019) at Zewail City of Science & Technology, Giza, Egypt.
- The 34th Eg-MRS International Conference 29-30 Aug. 2020, Online meeting, Cairo, Egypt.

Researches:

1. Abdelhamid El-Shaer, **Walid Ismail**, and Mohsen Mosaad , ZnO nanorods - polymer heterojunctions for photovoltaic applications, International Journal of Emerging Technology and Advanced Engineering, 6(4),5 (2016).
2. **Walid Ismail**, Mabrok Bakry, Moneim Elshobaki, Abdelhamid El-Shaer, Mahmoud Abdelfatah, Impact of precursor concentrations and substrate type on properties of electrodeposited CdO nanorod thin films for optoelectronic applications, Materials Science in Semiconductor Processing, **133**, 105959 (2021).
3. M. Abdelfatah, H.Y. Salah, M.I. El-Henawey, A.H. Oraby, A. El-Shaer, **W. Ismail**, Insight into Co concentrations effect on the structural, optical, and photoelectrochemical properties of ZnO rod arrays for optoelectronic applications, Journal of Alloys and Compounds, **873**, 159875 (2021).
4. Mahmoud Mohamed Saad, Abdelhamid El-Shaer, Osama H. Basyouni, Mohamed E. El-Khouly, **Walid Ismail**, Facile and Environmentally Friendly Fabrication of Few-layer Bismuthene by Electrochemical Exfoliation Method for Optoelectronic Applications, Journal of Alloys and Compounds **882**, 160766 (2021).
5. N.M. El-Shafai, R. Ji, M. Abdelfatah, M.A. Hamada, A.W. Kandeal, I.M. El-Mehasseb, A. El-Shaer, M. An, M.S. Ramadan, S.W. Sharshir, **W. Ismail**, Investigation of a novel (GO@CuO.γ-Al₂O₃) hybrid nanocomposite for solar energy applications, Journal of Alloys and Compounds, Journal of Alloys and Compounds, **856**, 157463 (2021).

6. **W. Ismail**, N.M. El-Shafai, A. El-Shaer, M. Abdelfatah, Impact of substrate type on the surface and properties of electrodeposited Cu₂O nanostructure films as an absorber layer for solar cell applications, *Materials Science in Semiconductor Processing*, **120**, 105335 (2020).
7. **Walid Ismail**, Abdelhamid El-Shaer and Mahmoud Abdelfatah, Phase transition of Cd(OH)₂ and physical properties of CdO microstructures prepared by precipitation method for optoelectronic applications, *IOP Conference Series: Materials Science and Engineering*, **956(1)**, 012006 (2020).
8. Abdelhamid El-Shaer, **Walid Ismail**, Mahmoud Abdelfatah, Towards low cost fabrication of inorganic white light emitting diode based on electrodeposited Cu₂O thin film/TiO₂ nanorods heterojunction, *Materials Research Bulletin*, **116**, 111-116 (2019)
9. M. Abdelfatah, **Walid Ismail**, and Abdelhamid El-Shaer “Low-cost inorganic white light emitting diode based on submicron ZnO rod arrays and electrodeposited Cu₂O thin film” *Materials Science in Semiconductor Processing*, **81**, 44–47 (2018).
10. Abdelhamid El-Shaer, Mabrok Bakry, M. Abdelfatah, **Walid Ismail**, Low cost techniques of ZnO nanorods growth for optoelectronic applications, *Journal of Materials Research Bulletin* (2021).
11. M. Abdelfatah, Ali Basuni, **Walid Ismail**, Abdelhamid El-Shaer, Investigation of dopant concentration effects on optoelectronic properties of Fe doped Cu₂O, *Journal of Alloys and Compounds* (2021).
12. Abdelhamid El-Shaer, M. Abdelfatah, M. I. EL-Henaway, **Walid Ismail**, M. Kubas, Mabrok Bakry, and A. H. Oraby, Structural and Optical Properties of ZnO Nanorod Arrays under Different Growth Temperature, *International Journal of Nano and Material Sciences*, **9(1)**: 1-8 (2020).
13. M. Abdelfatah, Nagi M El-Shafai, **Walid Ismail**, Ibrahim M El-Mehasseb, Abdelhamid El-Shaer, Simulation of CuO/ZnO heterojunction for photovoltaic applications “IOP Conference Series, Materials Science and Engineering, **956 (1)**, 012005 (2020).
14. M. Abdelfatah, **W Ismail**, NM El-Shafai, Abdelhamid El-Shaer, Effect of thickness, bandgap, and carrier concentration on the basic parameters of Cu₂O nanostructures photovoltaics: numerical simulation study, *Materials Technology Advanced Performance Materials*, **1-9** (2020).
15. Mahmoud Abdelfatah, Hazam Salah, Mabrok Bakry, **Walid Ismail**, Abdelhamid El-Shaer, Sayed Abdelgawad, Influence of band gap and carrier concentration on ZnO/CuO solar cells performance, *Egypt. J. Solids, Vol. (43)*, (2021).

16. H. Y. Salah¹, K. R. Mahmoud, **Walid Ismail**, Abdelhamid El-Shaer, A. H. Oraby · Mahmoud Abdelfatah, M. I. EL-Henawey, Influence of Nickel Concentration on the Microstructure, Optical, Electrical, and Photoelectrochemical Properties of ZnO Nanorods Synthesized by Hydrothermal Method. *Journal of Electronic Materials* (2022).
17. H. Y. Salah, Mabrok Bakry, M. Kubas, **Walid Ismail**, M. I. El-Henawey, A. H. Oraby, Improvement of the structural, morphological, optical, and photoelectrochemical properties of Al-doped ZnO nanorods for use in biosensors and solar cells, *Eur. Phys. J. Plus* **137**, 1319 (2022).
18. Mohsen Mohamed Elsharkawy, Ramadan Ahmed Arafa, Reda Ibrahim Omara, Said Mohamed Kamel, **Walid Ismail**, Sherin Ismail, Aly Derbalah, Developing Ag₂O and Ag₂O/TiO₂ nanostructures as a new strategy for control late blight of potato caused by *Phytophthora infestans*, *Physiological and Molecular Plant Pathology*, Volume 120, (2022),
19. Mahmoud Abdelfatah, Ali Basuni, H.Y. Salah, Mabrok Bakry, Nourhan Darwesh, **Walid Ismail**, Abdelhamid El-Shaer, Improvement of physical and electrochemical properties of Cu₂O thin films with Fe ions doping towards optoelectronic applications, *Optical Materials*, Volume 130, (2022)
20. Abdelfatah, M.; Darwesh, N.; Habib, M.A.; Alduaij, O.K.; El-Shaer, A.; **Ismail, W.** Enhancement of Structural, Optical and Photoelectrochemical Properties of n-Cu₂O Thin Films with K Ions Doping toward Biosensor and Solar Cell Applications. *Nanomaterials*, 13, 1272 (2023).
21. **Ismail, W.**; Ibrahim, G.; Habib, M.A.; Alduaij, O.K.; Abdelfatah, M.; El-Shaer, A. Advancement of Physical and Photoelectrochemical Properties of Nanostructured CdS Thin Films toward Optoelectronic Applications. *Nanomaterials*, 13, 1764. (2023)

السيرة الذاتية

أولاً : البيانات الشخصية

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مصرية

الجنسية

مسلمة

الديانة

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محل الإقامة

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١٩٧٩ / ١٠ / ٢٦ م

تاريخ الميلاد

أستاذ مساعد بقسم الفيزياء كلية العلوم والاداب بالنبهانية بالقصيم

الوظيفة الحالية

ثانياً: المؤهلات والدرجات العلمية:

- ١- درجة دكتوراه الفلسفة في العلوم (فيزياء الجوامد - عام ٢٠١٥ م) " كلية العلوم - جامعة طنطا "
- ٢- درجة الماجستير في العلوم (فيزياء الجوامد - عام ٢٠١٠ م) " كلية العلوم - جامعة طنطا "
- ٣- تمهيدي ماجستير (فيزياء الجوامد) بتقدير ممتاز بقسم الفيزياء كلية العلوم -جامعة طنطا_ (٢٠٠٦)
- ٤- بكالوريوس علوم وتربية (كيمياء وفيزياء - مايو ٢٠٠٠ م) بتقدير عام جيد جداً " كلية التربية - جامعة طنطا - فرع كفر الشيخ "
- ٥- بكالوريوس علوم (فيزياء - ٢٠٠٥ م) بتقدير عام ممتاز " كلية العلوم - جامعة طنطا "

عنوان رسالة الماجستير :

"Studies on Some Physical Properties and Positron Annihilation Spectroscopy of Nano-Structural Materials"

" دراسة الخواص الفيزيائية ومطيافية فناء البوزيترونات لبعض المواد النانومترية التركيب " .

عنوان رسالة الدكتوراه :

"Studying the Physical Properties of Some Nanostructural Semiconductor Oxides"

" دراسة الخواص الفيزيائية لبعض أكاسيد اشباه الموصلات النانومترية التركيب " .

ثالثاً : التدرج الوظيفي :

(١) التعيين في وظيفة معيد بقسم الفيزياء والكيمياء بكلية التربية جامعة طنطا فرع كفر

الشيخ من ٢٠٠٢م إلى ٢٠٠٩م.

(٢) التعيين في وظيفة معيد بقسم الفيزياء بكلية العلوم جامعة كفر الشيخ من ٢٠٠٩م

إلى ٢٠١٠م.

(٣) التعيين في وظيفة مدرس مساعد بقسم الفيزياء بكلية العلوم جامعة كفر الشيخ من

٢٠١٠م إلى ٢٠١٥م.

(٤) التعيين في وظيفة مدرس بقسم الفيزياء بكلية العلوم جامعة كفر الشيخ من ٢٠١٥م

-٢٠١٩.

(٥) التعيين في وظيفة أستاذ مساعد بقسم الفيزياء بكلية العلوم والآداب

بالنهبانية جامعة القصيم من ٢٠١٩/٣/١٢ إلى الآن.

رابعاً : خبرات التدريس :

(١) تدريس مقرر الفيزياء العامة (١) (خواص المادة - الحرارة).

(٢) تدريس مقرر الفيزياء العامة (٢) (بصريات هندسية - كهربية).

(٣) تدريس الفيزياء العملية (١) و (٢) و (٣).

(٤) تدريس مقرر الكترنيات .

(٥) تدريس مقرر فيزياء الصوت.

(٦) تدريس مقرر فيزياء الجوامد

(٧) تدريس مقرر فيزياء الموجات والاهتزازات

(٨) تدريس مقرر الديناميكا الحرارية

(٩) تدريس مقرر ميكانيكا تقليدية

(١٠) تدريس مقرر فيزياء احصائية

(١١) تدريس مقرر مختبر بصريات

الحصاد البحثي

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1. Potentiostatic Deposition and Characterization of Cuprous Oxide Thin Films
(A. El-Shaer and A. R. Abdelwahed)-(Hindawi Publishing Corporation, ISRN Nanotechnology, Volume 2013, Article ID 271545,4pages, <http://dx.doi.org/10.1155/2013/271545>)
2. Study of transport properties and conduction mechanism of pure and composite resorcinol formaldehyde aerogel doped with Co-ferrite
(S.M. Attia, T. Sharshar, A.R. Abd-Elwahed, A. Tawfik)
(Materials Science and Engineering B- 178(2013)-897-910)
3. Effect of pH on Conductivity of Electrodeposited Cuprous Oxide Thin Films.
(Abdelhamid El-Shaer , Abeer Ramadan Abdelwahed , M. M. Mosaad, AbdElraouf Tawfik , and Dalal Hemada) (Nature and Science 2015;13(3))

4. Effect of Deposition Parameters on Electrodeposited Cuprous Oxide Thin Films.(Abdelhamid El-Shaer, Abeer Ramadan Abdelwahed, AbdElraouf Tawfik , Mohsen Mossad, Dalal Hemada)
(International Journal of Emerging Technology and Advanced Engineering Volume 4, Issue 12, December 2014)
5. Potentiostatic Deposition of ZnO Nanowires: Effect of Applied Potential and ZnCl₂Concentration(Abelhamid El-Shaer , Abeer Ramadan Abdelwahed, M. M. Mosaad, AbdElraouf Tawfik, and Dalal Hemada) (International Journal of Research in Engineering and Science (IJRES) Volume 3 Issue 3 | March. 2015 | PP.28-36)

المؤتمرات والورش العلمية

Index

1. Renewable Energy Research Program (Egyptian Science and Technological Development Fund (STDF)), Project ID: 1473.
2. Seventh International Scientific conference, Environment, development, and Nanotechnology, Al-azhar University, Cairo 2010.
3. 2nd International Conference on Advanced Basic & Applied Sciences (AB AS) Ain Sokhna, Egypt 2 – 4 April 2014

النشاط العلمي

- أولاً: دورات عمادة التعليم الإلكتروني والتعليم عن بعد جامعة القصيم
- ١- استخدام نظام ادارة التعلم Blackboard في التعليم (اونلاين)
 - ٢- الاختبارات الالكترونية علي نظام ادارة التعلم Blackboard(اونلاين)
 - ٣- تطبيقات البلاك بورد علي الهواتف الذكية.
 - ٤- توظيف أدوات التقويم الالكترونية علي نظام ادارة التعلم Blackboard(اونلاين)
 - ٥- التقييمات والاختبارات وبنوك الاسئلة (اونلاين)
 - ٦- تصميم الانفوجرافيك في التعلم الالكتروني (اونلاين)

- ٧- إساج دروس الفيديو التعليميه باستخدام camatasia studio (اونلاين)
- ٨- الدروس التفاعلية بنظام سكورم باستخدام برنامج articulate storyline (اونلاين)
- ٩- اعداد وتصحيح الاختبارات باستخدام تطبيق zipgrade علي الاجهزة الذكية

ثانيا: دورات مركز تنمية القدرات والقدرات بجامعة القصم

- ١٠- إعداد أدوات تقييم العملية التعليمية الكترونيا
- ١١- مهارات استخدام التكنولوجيا الحديثة في البحث العلمي
- ١٢- المهارات التكنولوجية للنشر في المجالات العلمية
- ١٣- برنامج التهيئة لأعضاء هيئة التدريس الجدد.

ثالثا: دورات المكتبة الرقمية السعودية

- ١٤- كيفية البحث علي منصة سبرنجر ناشر وايجاد نتائج البحث الاكثر موائمة لمجال الباحث.

رابعا: دورات مركز تنمية قدرات أعضاء هيئة التدريس جامعة كفر الشيخ

- ١٥- أساليب البحث العلمي
- ١٦- مهارات الاتصال الفعال
- ١٧- معايير الجودة في العملية التدريسية
- ١٨- التدريس الفعال
- ١٩- استخدام التكنولوجيا في التدريس
- ٢٠- النشر العلمي الدولي
- ٢١- سلوكيات المهنة
- ٢٢- تنظيم المؤتمرات العلمية
- ٢٣- مشروعات البحوث التنافسية
- ٢٤- Advance Word
- ٢٥- Advance Power Point
- ٢٦- Endnote
- ٢٧- دورة الحاسب الآلي المستوي الأول كلية التجارة جامعة طنطا.
- ٢٨- دورة الإنترنت الخاصة بطلاب الدراسات العليا (ماجستير) مركز الخدمات العامة للحاسبات والتكنولوجيا- جامعة طنطا.
- ٢٩- الرخصة الدولية لقيادة الكمبيوتر (ICDL).

Curriculum Vitae

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Academic Career:			
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Ph.D.	Condensed Matter Physics	Tongji University - China	2001
M.Sc.	Solid State Physics	Tanta University - Egypt	1994
B.Sc.	Physics	Tanta University - Egypt	1988
Employment:			
Position	Employer	Period	
Professor	Kafrelsheikh University - Egypt	2017- till now	
Assistant professor	Kafrelsheikh University - Egypt	2001- 2007	
Assistant lecturer	Kafrelsheikh University - Egypt	1994-2001	
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Publications:			
1. S. M. Attia and Fatma El-Sayed, "Relativistic excitation energies and transition			

data for In XL and Sn XLI", Journal of Quantitative Spectroscopy and Radiative Transfer 283 (2022) 108139.
2. Fatma El-Sayed and S. M. Attia, "Energies, Wavelengths, and Transition Probabilities in Sc XIII", Physics of Atomic Nuclei 82 (2019) 583-598.
3. Fatma El-Sayed and S. M. Attia, "Energy Levels and Radiative Rates for Transitions in Mo XV", Journal of Physics: Conference Series 869 (2017) 012002.
4. Fatma El-Sayed and S. M. Attia, "Energies, Wavelengths, and Transition Rates for Ga-Like Ions (Nd XXX-Tb XXXV)", Journal of Applied Spectroscopy 83 (2016) 126-132.
5. M. R. Eraky, and S. M. Attia, Transport Properties of Ti-Ni Ferrites", Physica B 462 (2015) 97
6. Fatma El-Sayed, M. Kherd, and S. M. Attia, Energies and Transition Rates for Be-like Ions (Xe LI - Ce LV) Eur. Phys. J. Plus 130 (2015) 104.
7. S. M. Attia, W. I. Abd Elgawad, M. M. Mossad, Synthesis and Characterization of Copper-Aerogel Composite" accepted by Journal of Physical and Chemical News (2015).
8. S. M. Attia, T. Sharshar, A. R. Abd-Elwahed, A. Tawfik, Study of transport properties and conduction mechanism of pure and composite resorcinol formaldehyde aerogel doped with Co-ferrite" Journal of Material Science B, 178 (2013) 897.
9. S. M. Attia, and T. Meaz, "Dielectric Properties and Conduction Mechanism of Li-Ni-Ferrites" Egypt. J. Solids, 33 (2), (2010) 321-340
10. S. M. Attia, and T. Meaz, Conduction Mechanism and Dielectric Properties of Li-Zn Ferrites" Egypt. J. Solids, Vol. (32), No. (2), (2009) 129.
11. S. M. Attia, Study of Cation Distribution of Mn-Zn Ferrites" Egypt. J. Solids, 29 (2) (2006).
12. " The effect of interionic distances on the properties of Al-doped Mn-Zn ferrites" Eur. Phys. J. Appl. Phys. 35 (2006) 201 – 210.

13. "Studies of AC electrical conductivity and initial magnetic permeability of rare-earth substituted Li-Co Ferrites" J. Magn. Magn. Matter. 297 (2006) 33-34.
14. "Spectral, initial magnetic permeability and transport studies of $\text{Li}_{0.5-0.5x}\text{Co}_x\text{Fe}_{2.5-0.5x}\text{O}_4$ spinel ferrite" J. Magn. Magn. Matter., 295 (2005) 28-36.
15. "AC conductivity and Dielectric behavior of $\text{CoFe}_2\text{-XAlXO}_4$ ", J. of Solid State Science, 6 (2004) 61-69.
16. Conduction Mechanism of Zinc- Magnesium W-type hexagonal Ferrites", J. Magn. Magn. Mater. 270 (2004) 142-151
17. Effect of Tetravalent Titanium Ions Substitution on the Dielectric Properties of Co-Zn Ferrites, J. Magn. Magn. Mater., 257(2003)296-305.
18. "Dielectric Dispersion of Y-Type Hexaferrites at low frequencies" ", J. Magn. Magn. Mater., 257(2003)165-174.
19. Review on sol-gel derived coatings: process, techniques and optical applications, J. Material Science and Technology, Vol. 18, No.3 (2002) 211-218
20. "Nanostructured study of TiO_2 Films prepared by dip coating process" J. Material Science and Technology, Vol. 18, No.1 (2002) 31-33.
21. "Study of the influence of some physical parameters on sol-gel derived TiO_2 thin films" SPIE 4086 (2001) 815.
22. "Morphological effects on the electrical and electrochemical properties of carbon aerogels", J. Electrochemical Society, 148/6(2001)D75-D77.
23. "Optical and electrochemical Properties of sol-gel deposited tantalum pentoxide thin films, SPIE 4086(2001) 431.
24. "Resorcinol Formaldehyde derived carbon aerogels films" SPIE 4086(2001)811.
25. "The preparation and Optical properties of Island Silver Films Embedded in Silica" SPIE 4086(2001)372.

26. "Electrical Transport Properties of carbon aerogels" J. Porous Materials 8(2001)167-170.
27. "The Investigation of the Adsorption Character of Carbon Aerogels" NanoStructred Materilas, 11/3 (1999)375-381.
28. "AC conductivity in Cu-Cr Ferrites", J. Magn. Magn. Mater. 146(1995)84-88.
29. "Semiconductive properties of Cu-Cr Ferrites", J. Magn. Magn. Mater. 150(1995) 51-56.
30. "Dielectric behavior of Cu-Cr Ferriets", J. Magn. Magn. Mater., 150(1995)399-402.
Teaching Experience:
1. Solid state physics I
2. Solid State physics II
3. Semiconductors
4. Electromagnetism I
5. Electromagnetism II
6. Quantum mechanics I
7. Quantum mechanics II
8. Classical Mechanics
9. Electricity and magnetism
10. General physis I, II, and III
11. Optics and Advanced optics
12. Thermodynamics

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Education

- 2016 Ph.D. degree in electrical engineering (Physics) with a thesis topic of "Fabrication and Characterization of Low-Cost Solar Cells based on Earth Abundant Materials for Sustainable Photovoltaics", Institute of Semiconductor Technology, Braunschweig University of Technology, Germany.
- 2014 Preliminary Ph.D. courses in Physics, Faculty of Science, Kafrelsheikh University, Egypt.
- 2011 M.Sc. degree in Physics with a thesis topic of "Transport Properties Study of Nano Porous Materials", Kafrelsheikh University, Egypt.
- 2009 Complement Studies in Physics, Faculty of Science, Tanta University, Egypt
- 2006 Special Diploma in Physics, Faculty of Education, Kafrelsheikh University, Egypt.
- 2005 General Diploma in Physics, Faculty of Education, Kafrelsheikh University, Egypt.
- 2004 B.Sc. in Physics and Chemistry, Faculty of Education, Kafrelsheikh Branch, Tanta University, Egypt.

Curriculum Vitae

Mahmoud Abdelfatah

Employment History

- | | |
|-----------------|---|
| 03.2022-09.2022 | Associate Professor and Post doc at Fraunhofer Institute for Surface Engineering and Thin Films IST, Bsienroder Weg 54 e, D-38108, Braunschweig, Germany. |
| 2021 - till now | Associate Professor at Physics Department, Faculty of Science, Kafrelsheikh University, Egypt. |
| 2016 - 2021 | Lecturer at Physics Department, Faculty of Science, Kafrelsheikh University, Egypt. |
| 2014-2016 | Scientific staff in the Institute of Semiconductor Technology (IHT), Braunschweig University of Technology, Germany. |
| 2011-2014 | Assistant lecturer at Physics Department, Faculty of Science, Kafrelsheikh University, Egypt. |
| 2009-2011 | Scientific researcher at Physics Department, Faculty of Science, Kafrelsheikh University, Egypt. |
| 2005-2009 | Scientific researcher at Physics and Chemistry Department, Faculty of Education, Kafrelsheikh University, Egypt. |

Research Interests

- Synthesis of nanostructure semiconductor oxides, quantum dots, quantum wells, nanowires, nanoporous, nanoparticles, nanorods, thin films, 2D materials and nanomaterials (i.e., Ag nanoparticles, ZrS₂ and BrZrS₃ thin films, TiO₂ nanorods and nanoparticles, ZnO nanorods, nanowires and nanoparticles, Cu₂O thin films and nanoparticles, Fe₃O₄ quantum dots and CdS quantum dots and GO nanosheet).
- Semiconductor technology experiences on chemical growth methods [(i.e., chemical bath deposition, electrochemical deposition, hydrothermal and successive ionic layer adsorption and reaction (SILAR)], and physical methods [(i.e., sputtering, thermal evaporation, atomic layer deposition (ALD), chemical vapor deposition (CVD)].
- Experiences on photolithography and working in clean room environment.
- Experiences on electrical and optical characterization methods of semiconductors (i.e., UV, FTIR, SEM, TEM, particle size, Electroluminescence, Photoluminescence, Solar simulator, I-V, LCR, Raman, C-V, C-f, and EQE measurements).

Curriculum Vitae

Mahmoud Abdelfatah

- Fabrication and characterization of devices for energy and environmental applications such as solar cells, LEDs, sensors, water splitting, photoelectrochemical, water treatment, and photocatalytic applications.
- Optoelectronic devices simulation using SCAPs and other programs.
- Preparation of Polymer materials using Resorcinol and formaldehyde in the form of nano porous materials and in the form of nano composite materials.
- Fabrication of nano optoelectronic devices based on Polymers.

Publications and Conferences

1. **M. Abdelfatah**, W. Ismail and A. El-Shaer, Seed layer-free growth of submicron ZnO rod arrays employing low-cost methods and their photoelectrochemical biosensing, *in preparation*.
2. **M. Abdelfatah**, W. Ismail and A. El-Shaer, Light emitting diode based on electrodeposited Cu₂O / polymers heterojunction and, *in preparation*.
3. Mahmoud Abdelfatah, Adel M.El Sayed, Walid Ismail, Stephan Ulrich , Abdelhamid El-Shaer, Volker Sittinger, SCAPS simulation of novel inorganic ZrS₂/CuO heterojunction solar cells; the impact of thickness, carrier concentration, and bandgap, *Under Review* in Journal of Solar Energy.
4. Osama Basyouni, **M. Abdelfatah**, Walid Ismail, and Abdelhamid El-Shaer, Femtosecond Nonlinear Optical Properties and Minority Carrier Lifetime of F4TCNQ-doped Bismuthene for Next-generation Optoelectronic and Ultrafast Photonic Devices, *Under Review in Journal of Alloys and Compounds (2022)*.
5. **M. Abdelfatah**, M. I. EL-Henawey, Walid Ismail, H. Yahay, A. H. Oraby, and Abdelhamid El-Shaer, Enhancement of structural, morphological, optical, and photoelectrochemical properties of ZnO nanorods through Al ions doing for optoelectronic applications, *Under Review in Optical Materials (2022)*.
6. Aly Derbalah, Tarek Essa, Said Mohamed Kamel, Reda Ibrahim Omara, **M. Abdelfatah**, Abdelhamed Elshaer, Mohsen Mohamed Elsharkawy, Silver oxide nanostructures as a new trend to control strawberry charcoal rot induced by *Macrophomina phaseolina*, Pest Management Science, Accepted Author Manuscript (2022). (doi.org/10.1002/ps.7084)
7. Aly Derbalah, Ibrahim Abdelsalam, Said I. Behiry, Ahmed Abdelkhalek, **M. Abdelfatah**, Sherin Ismail, Mohsen Mohamed Elsharkawy, Copper oxide nanostructures as a potential

Curriculum Vitae

Mahmoud Abdelfatah

- method for control of zucchini yellow mosaic virus in squash, *Pest Management Science*, 78: 3587-3595 (2022). (doi.org/10.1002/ps.7001)
8. **M. Abdelfatah**, Ali Basuni, H.Y. Salah, Mabrok Bakry, Nourhan Darwesh, Walid Ismail, Abdelhamid El-Shaer, Improvement of physical and electrochemical properties of Cu₂O thin films with Fe ions doping towards optoelectronic applications, *Journal of Optical Materials*, Volume 130, August 2022, 112583 (2022). (doi.org/10.1016/j.optmat.2022.112583)
 9. H.Y.Salah, K.R. Mahmoud, Walid Ismail, Abdelhamid El-Shaer, A.H. Oraby, **M. Abdelfatah**, M.I. EL-Henawey, Influence of nickel concentration on the microstructure, optical, electrical, and photoelectrochemical properties of ZnO nanorods synthesized by hydrothermal method, *Journal of Electronic Materials*, volume 51, pages910–920 (2022). (doi.org/10.1007/s11664-021-09373-x)
 10. Nagi M.El-Shafai, Mohamed M. Ibrahim, **M. Abdelfatah**, Mohamed S. Ramadan, Ibrahim M.El-Mehasseb, Synthesis, characterization, and cytotoxicity of self-assembly of hybrid nanocomposite modified membrane of carboxymethyl cellulose/graphene oxide for photocatalytic antifouling, energy storage, and supercapacitors application, *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 626, 127035 (2021). (doi.org/10.1016/j.colsurfa.2021.127035)
 11. Nagi M. El-Shafai, **M. Abdelfatah**, Ibrahim M.El-Mehasseb, Mohamed S. Ramadan, Mohamed M. Ibrahim, Abdelhamed El-Shaer, Maged A. El-Kemary, Mamdouh S. Masoud, Enhancement of electrochemical properties and photocurrent of copper oxide by heterojunction process as a novel hybrid nanocomposite for photocatalytic anti-fouling and solar cell applications, *Separation and Purification Technology*, 267, 118631 (2021). (doi.org/10.1016/j.seppur.2021.118631)
 12. **M. Abdelfatah**, H Salah, M Bakry, W Ismail, A El-Shaer, S Abdelgawad, Influence of band gap and carrier concentration on ZnO/CuO solar cells performance, *Egyptian Journal of Solids* 43 (1), 158-173 (2021). (doi.org/10.21608/EJS.2021.92116.1018)
 13. Walid Ismail, Mabrok Bakry, Moneim Elshobaki, Abdelhamid El-Shaer, **M. Abdelfatah**, Impact of precursor concentrations and substrate type on properties of electrodeposited CdO nanorod thin films for optoelectronic applications, *Materials Science in Semiconductor Processing*, 133, 105959 (2021). (doi.org/10.1016/j.mssp.2021.105959)
 14. Osama H Basyouni, **M. Abdelfatah**, Mohamed E El-Khouly, Tarek Mohamed, Abdelhamid El-Shaer, Walid Ismail, Facile and environmentally friendly fabrication of few-layer

Curriculum Vitae

Mahmoud Abdelfatah

- bismuthene by electrochemical exfoliation method for ultrafast photonic applications, *Journal of Alloys and Compounds*, 882, 160766 (2021).
(doi.org/10.1016/j.jallcom.2021.160766)
15. M. Abdelfatah, H.Y. Salah, M.I. El-Henawey, A.H. Oraby, A. El-Shaer, W. Ismail, Insight into Co concentrations effect on the structural, optical, and photoelectrochemical properties of ZnO rod arrays for optoelectronic applications, *Journal of Alloys and Compounds*, 873 (2021) 159875. (doi.org/10.1016/j.jallcom.2021.159875)
16. N. Elkahwagy, M. Abdelfatah, and A. Ismail, Ab initio investigation on the low-lying states of Iax ($X = \text{se, sn, sb}$), *Canadian Journal of Physics* 99(8), pp. 735-740 (2021).
(doi.org/10.1139/cjp-2020-0568)
17. Walid Ismail, A. El-Shaer, M. Abdelfatah, Phase transition of $\text{Cd}(\text{OH})_2$ and physical properties of CdO microstructures prepared by precipitation method for optoelectronic applications, *IOP Conference Series: Materials Science and Engineering* 956 (1), 012006 (2020). (doi.org/10.1088/1757-899X/956/1/012006)
18. M. Abdelfatah, A. El-Shaer, and W. Ismail, Simulation of CuO/ZnO heterojunction for photovoltaic applications, *IOP Conference Series: Materials Science and Engineering* 956 (1), 012005 (2020). (doi.org/10.1088/1757-899X/956/1/012005)
19. Nagi M. El-Shafai, Rencai Ji, M. Abdelfatah, Mohamed A. Hamad, A. W. Kandeal, Ibrahim M. El-Mehasseb, A. El-Shaer, W. Ismail Mohamed S. Ramadan, Swellam W. Sharshir, A novel nanomaterial combination ($\text{GO@CuO} \cdot \gamma\text{-Al}_2\text{O}_3$): Investigation of nanofluids thermal conductivity and electrical properties, *Journal of Alloys and Compounds*, Volume 856, 5 March 2021, 157463 (2021). (doi.org/10.1016/j.jallcom.2020.157463)
20. Abdelhamid El-Shaer, M. Abdelfatah, M. I. EL-Henawey, Walid Ismail, M. Kubas, Mabrok Bakry, and A. H. Oraby, Structural and Optical Properties of ZnO Nanorod Arrays under Different Growth Temperature, *International Journal of Nano and Material Sciences*, 2020, 9(1): 1-8.
21. Walid Ismail, Abdelhamid El-Shaer, Nagi M. El-Shafai, and M. Abdelfatah, Impact of substrate type on the surface and properties of electrodeposited Cu_2O nanostructure films as an absorber layer for solar cell applications, *Materials Science in Semiconductor Processing*, Volume 120, December 2020, 105335. (doi.org/10.1016/j.mssp.2020.105335)

Curriculum Vitae

Mahmoud Abdelfatah

22. Nagi M. El-Shafai, M Shokra, M. Abdelfatah, Ibrahim M. El-Mehassebc, Abdelhamid El-Shaer, Mohamed S. Ramadan, and Maged A. El-Kemarya, Electrochemical property, Antioxidant activities, water treatment and solar cell applications of Titanium dioxide - Zinc oxide nanoparticles based on Graphene oxide nanosheet, Materials Science & Engineering B, Volume 259, September 2020, 114596. ([10.1016/j.mseb.2020.114596](https://doi.org/10.1016/j.mseb.2020.114596))
23. M. Abdelfatah, W. Ismail, Nagi M. El-Shafai and A. El-Shaer, Effect of thickness, band gap, and carrier concentration on the basic parameters of Cu₂O nanostructures Photovoltaics: Numerical simulation study, submitted revised version of manuscript to Materials Technology: Advanced Performance Materials, (2020) 1-9. (doi.org/10.1080/10667857.2020.1793092)
24. Nagi M. El-Shafai, M. Abdelfatah, Mohamed E. El-Khouly, Ibrahim M. El-Mehassebc, Abdelhamid El-Shaer, Mohamed S. Ramadan, Maged A. El-Kemarya and Mamdouh S. Masoud, Magnetite oxide Nano spherical quantum dots decorated graphene oxide Nano sheet (GO@Fe₃O₄): Electrochemical study, Removal of heavy metals, pesticide and solar cell application, Applied Surface Science, Volume 506, 15 March 2020, 144896. (doi.org/10.1016/j.apsusc.2019.144896s)
25. Abdelhamid El-Shaer, M. Abdelfatah, Kamal R. Mahmoud, Sanaa Momay, M.R. Eraky, Correlation between Photoluminescence and Positron annihilation lifetime spectroscopy to characterize defects in calcined MgO nanoparticles as a first step to explain antibacterial activity, Journal of Alloys and Compounds, Volume 817, 15 March 2020, 152799. (doi.org/10.1016/j.jallcom.2019.152799)
26. A. El-Shaer, W. Ismail, and M. Abdelfatah, Towards low cost fabrication of inorganic white light emitting diode based on electrodeposited Cu₂O thin film/TiO₂ nanorods heterojunction, Materials Research Bulletin, Volume 116, August 2019, Pages 111-116. ([doi:10.1016/j.materresbull.2019.04.005](https://doi.org/10.1016/j.materresbull.2019.04.005))
27. M. Abdelfatah, W. Ismail and A. El-Shaer, Low cost inorganic white light emitting diode based on submicron ZnO rod arrays and electrodeposited Cu₂O thin film, Materials Science in Semiconductor Processing, 81 (2018), 44-47. ([doi: 10.1016/j.mssp.2018.03.004](https://doi.org/10.1016/j.mssp.2018.03.004))
28. Abdelhamid El-Shaer, M. Abdelfatah, Ali Basuni, and Mohsen Mosaad, Effect of KOH Molarity and Annealing Temperature on ZnO Nanostructures Properties, Chinese Journal of Physics, Volume 56, Issue 3, June 2018, Pages 1001-1009. ([doi:10.1016/j.cjph.2018.03.015](https://doi.org/10.1016/j.cjph.2018.03.015))

Curriculum Vitae

Mahmoud Abdelfatah

29. S. Attia, M. Abdelfatah, M. Mossad, Characterization of pure and composite resorcinol formaldehyde aerogels doped with silver IOP Conf. Series: Journal of Physics: Conf. Series 869 (2017) 012036. ([doi :10.1088/1742-6596/869/1/012036](https://doi.org/10.1088/1742-6596/869/1/012036))
30. S. Attia, M. Abdelfatah, M. Mossad, Conduction mechanism and dielectric properties of pure and composite resorcinol formaldehyde aerogels doped with silver, IOP Conf. Series: Journal of Physics: Conf. Series 869 (2017) 012035. ([doi :10.1088/1742-6596/869/1/012035](https://doi.org/10.1088/1742-6596/869/1/012035))
31. M. Abdelfatah, A. El-Shaer, One step to fabricate vertical submicron ZnO rod arrays by hydrothermal method without seed layer for optoelectronic devices, Materials Letters, 210 (2018) 366-369. ([doi: 10.1016/j.matlet.2017.09.064](https://doi.org/10.1016/j.matlet.2017.09.064))
32. M. Abdelfatah, J. Ledig, A. El-Shaer, A. Sharafeev, P. Lemmens, M.M. Mosaad, A. Waag, A. Bakin, Effect of potentiostatic and galvanostatic electrodeposition modes on the basic parameters of solar cells based on Cu₂O thin films, ECS Journal of Solid State Science and Technology 5 (2016) Q183-Q187. ([doi: 10.1149/2.0191606jss](https://doi.org/10.1149/2.0191606jss))
33. L. Caccamo, G. Cocco, G. Martín, H. Zhou, S. Fuending, A. Gad, M.S. Mohajerani, M. Abdelfatah, S. Estradé, F. Peiró, W. Dziony, H. Bremers, A. Hangleiter, L. Mayrhofer, G. Lilienkamp, M. Moseler, W. Daum, A. Waag, Insights into interfacial changes and photoelectrochemical stability of In_xGa_{1-x}N (0001) photoanode surfaces in liquid environments, ACS Applied Materials & Interfaces 8 (2016) 8232-8238. ([doi: 10.1021/acsami.5b12583](https://doi.org/10.1021/acsami.5b12583))
34. M. Abdelfatah, J. Ledig, A. El-Shaer, A. Wagner, V. Marin-Borras, A. Sharafeev, P. Lemmens, M. M. Mosaad, A. Waag, A. Bakin, Fabrication and characterization of low cost Cu₂O/ZnO:Al solar cells for sustainable photovoltaics with earth abundant materials, Solar Energy Materials and Solar Cells 145 (2016) 454-461. ([doi:10.1016/j.solmat.2015.11.015](https://doi.org/10.1016/j.solmat.2015.11.015))
35. M. Abdelfatah, J. Ledig, A. El-Shaer, A. Wagner, A. Sharafeev, P. Lemmens, M.M. Mosaad, A. Waag, A. Bakin, Fabrication and characterization of flexible solar cell from electrodeposited Cu₂O thin film on plastic substrate, Solar Energy 122 (2015) 1193-1198. ([doi:10.1016/j.solener.2015.11.002](https://doi.org/10.1016/j.solener.2015.11.002))
36. A. Wagner, M. Stahl, J. Ledig, A. Winter, M. Abdelfatah, A. Turchanin, P. Lemmens, A. Waag, A. Bakin, All-oxide solar cells: atomic layer deposition of oxide buffer layers at the ZnO/Cu₂O interface, E-MRS 2014 Fall Meeting, Warsaw, Poland September 15-18 (2014).

Curriculum Vitae

Mahmoud Abdelfatah

Research Projects and Grants

- Raman spectroscopy for nanomaterials characterization, (Project ID: 6398), Funded by ASTR on Sep. 2020 (Role ; CO-PI).
- Antifouling nano-membrane for pre-treatment of organic pollutions, antimicrobial, and seawater desalination applications, (Project ID: 6691), Funded by ASTR on Sep. 2020 (Role ; CO-PI).
- Band Gap Engineering of ZnO nanostructures as windows layer for solar cell applications, (Project ID: 6692), Funded by ASTR on Sep. 2020 (Role ; PI).
- Theoretical investigation of some nanomaterials for optoelectronic applications, (Project ID: 6689), Funded by ASTR on Sep. 2020 (Role ;Co-PI).
- Low Cost and Large-Scale Fabrication of Inorganic White Light Emitting Diode Based on Nanostructures Semiconductor Oxides, (Project ID: 37212), Funded by STDF (Role ;PI) started on March 2022.
- Efficiency Enhancement of Low Cost Solar Cells based on Earth Abundant Materials (Project ID: 33389), Funded by STDF on June 2019 (Role ;PI).
- Synthesis and characterization of nanomaterials for photovoltaic applications (Project ID: KFSU-3-13-03), Funded by Kafrelsheikh University from 2013 to 2016 (Role; Researcher).
- Low- cost Nano-Wire Solar Cell and White Light Emitting Diode based on Zinc Oxide-Polymer hybrid Nano-structures (NANO-SOLED) (Project ID: 1473), Funded by STDF from 2011 to 2016 (Role; Researcher).

Teaching Experience

- Teach the following physics courses for graduate and postgraduate students :

Curriculum Vitae

Mahmoud Abdelfatah

Electricity and Magnetism	Quantum Physics
Modern Physics	Properties of Matter
Solid State Physics 1	Geometrical Optics
Solid State Physics 2	Heat
Physical Optics	Material Science
Electronics	Classical Mechanics
Atomic Physics	Fabrication of nanomaterials
Renewable Energy	Solar Energy
AC Electric Circuits	Digital Electronics
Thin Films	Fundamental of Nanoscience and Nanotechnology
Advanced Optics	Solar Cells
Semiconductor Nanotechnology	Characterization Techniques of nanomaterials
Spectroscopy of nanomaterials	Optoelectronic nanodevices

➤ Teaching several practical physics courses (2005-2014).

➤ Supervisor of Bachelor, Master and Ph.D students.

Conferences, Workshops and Training Course in Teaching and Professional

➤ Participated in the following Training courses:

Effective Presentations skills

Quality Standards in Teaching

Communication skills in education

Effective teaching

University Lecturer Preparation

Skills of Thinking

Strategically planning for Higher Institute of Education

Ethics of profession

Students' evaluation and exam systems

International Scientific Publication

Curriculum Vitae

Mahmoud Abdelfatah

Scientific Research Methods

Competitive research projects

Credit Hours System

University administration

- Equipment's specifications, selection, and getting price quotation.
- Participated in establishment the under-graduation labs.
- Attended the 34 th Eg-MRS International Conference, 29-30 Aug. 2020, Egypt.
- Participated in Workshop of "Production and transfer of knowledge of nanoscience in the field of solar energy", 27.10.2016 at National Research Center, Egypt.
- Attended "Scientific Conference of Water and Energy " 02.03.2017, Damanhour, Egypt.
- Attended "1st Castle Conference of Advanced Sciences " 03.2017, Kafrelsheikh, Egypt.
- Participated in Workshop of " The Modern Knowledge Cycle" 05.03.2017, Kafrelsheikh, Egypt.

Awards and Honors

- Post doc at Fraunhofer Institute for Surface Engineering and Thin Films IST, Braunschweig, Germany.
- PhD scholarship award, from Egyptian Government, 2014-2016 (Germany).
- Scientific Publication award, Kafrelsheikh University, Egypt, (2017/2018/2019/2020/2021).

Consulting Experience and Quality Assurance

- Coordinator of Physics Department, Faculty of Science, Kafrelsheikh University, for Quality Assurance and Accreditation Committee.
- Description of all courses that were taught by me.
- Participated on specification of Physics and Nanoscience and Nanotechnology programs.
- Director of the Evaluation and Measurement Unit at Faculty of Science, Kafrelsheikh University.

Curriculum Vitae

Mahmoud Abdelfatah

- **Member of the Quality Assurance and Accreditation Committee Board of at Faculty of Science, Kafrelsheikh University.**

Membership of Scientific Societies

- **Member of Egyptian Society for Materials Research.**

Refereeing for International Scientific Journals

Reviewer for the following ISI journals:

- **Solar Energy.**
- **Electrochemistry society.**
- **Materials Science in Semiconductor Processing.**
- **Applied Surface Science.**
- **Journal of Alloys and Compounds.**
- **Surfaces and Interfaces.**
- **Optical and Quantum Electronics.**

Skills and Interests

Languages **English, German, and Arabic**

Skills **and** **Special Programs in the Computer Training and Internet Training for software** **Postgraduate Students, office programs used internet and sites, Microsoft-Office-Suite, International Computer Driving License (ICDL), Origin, Endnote, Mendeley, and 3D sketches**

Interests **Reading, football, computer, music, and nature.**

CURRICULUM VITAE

PERSONAL DETAILS

Name : Nagat Mohamed Ibrahim Elkahwagy
Nationality : Egyptian
Date of birth : 1/1/1983
Address : Fowa, Kafr Elsheikh
Telephone : 01002096078
E-mail : nagat_mhd@yahoo.com

EDUCATION

- **Ph. D Degree in Science, Faculty of Science, Menoufia University (2018).**
Thesis Title: *"Diffusion Monte Carlo Calculations for Some Rare-Earths Containing Systems"*
- **Master of Science, Faculty of Science, Menoufia University (2014).**
Thesis Title: *"Study of Some Quantum Monte Carlo Techniques and its Applications"*
- **Preliminary Master Courses in Physics, Faculty of Science, Menoufia University, Egypt (2010).**
- **B. Sc. in Physics, Faculty of Science, Menoufia University, Egypt (2009).**
- **Special Diploma in Physics, Faculty of Education, Kafrelsheikh University, Egypt (2006).**
- **General Diploma in Physics, Faculty of Education, Kafrelsheikh University, Egypt (2005).**
- **B. Sc. in Physics and Chemistry, Faculty of Education, Kafrelsheikh Branch, Tanta University, Egypt (2003).**

EMPLOYMENT

2019-Present: Lecturer at Physics Department, Faculty of Science, Kafrelsheikh University, Egypt.

2014-2019: Assistant lecturer at Physics Department, Faculty of Science, Kafrelsheikh University, Egypt.

2009-2014: Demonstrator at Physics Department, Faculty of Science, Kafrelsheikh University, Egypt.

2004-2009: **Demonstrator at Physics and Chemistry Department,
Faculty of Education, Kafrelsheikh University, Egypt.**

RESEARCH INTERESTS

- **Computational physics**
- **Strongly correlated systems**
- **Quantum Monte Carlo simulation**
- **Atomic and molecular physics**
- **Quantum computing**
- **Density functional theory**

PUBLICATIONS

1. **N. Elkahwagy and A. Ismail, Diffusion Monte Carlo calculations on the low-lying states of LaX (X = Ge, As, Te), Canadian Journal of Physics 101, 235 (2023).**
2. **N. Elkahwagy, M. Abdelfatah, and Atif Ismail, Ab initio investigation on the low-lying states of LaX (X = Se, Sn, Sb), Canadian Journal of Physics 99, 735 (2021).**
3. **N. Elkahwagy, A. Ismail, S. M. A. Maize, and K. R. Mahmoud, Theoretical Investigation on the Low-Lying States of LaP Molecule, Chinese Physics Letters 35, 103101 (2018).**
4. **N. Elkahwagy, A. Ismail, S. M. A. Maize, and K. R. Mahmoud, Diffusion Monte Carlo calculations on LaB molecule, Chinese Physics B 27, 093102 (2018).**
5. **N. Elkahwagy, A. Ismail, S. M. A. Maize, and K. R. Mahmoud, Diffusion Monte Carlo study of actinide monohydrides and monofluorides, Revista Mexicana de Fisica 63, 297 (2017).**
6. **N. Elkahwagy, A. Ismail, S. M. A. Maize, and K. R. Mahmoud, Diffusion Monte Carlo Calculations for Rare-earths: Hartree-Fock, Hybrid B3LYP, and Long-range Corrected LC-BLYP Functional, Universal Journal of Physics and Application 10, 5 (2016).**
7. **N. Elkahwagy, A. Ismail, S. M. A. Maize, and K. R. Mahmoud, Diffusion Monte Carlo Calculations for Rare-earths: Applying the Long-range Corrected Scheme to Minnesota M06 Functional, Universal Journal of Physics and Application 10, 80 (2016).**

8. N. Elkahwagy, A. Ismail, S. M. A. Maize, and K. R. Mahmoud, Pseudopotential Calculations on Actinium and Thorium by Quantum Monte Carlo, *International Journal of Mathematics and Physical Sciences Research* 1, 25 (2014).
9. N. Elkahwagy, A. Ismail, S. M. A. Maize, and K. R. Mahmoud, Study of the Lanthanides Ce to Eu by Means of Quantum Monte Carlo Method, *Journal of Condensed Matter Physics* 1, 13 (2013).
10. N. Elkahwagy, A. Ismail, S. M. A. Maize, and K. R. Mahmoud, A Quantum Monte Carlo Study of Lanthanum, *World Journal of Condensed Matter Physics* 3, 203 (2013).

AWARDS

1. The Best Ph. D Thesis, Kafrelsheikh University, Egypt (2019).
2. Scientific Publication Awards, Kafrelsheikh University, Egypt (2020, 2022).

Curriculum Vitae

Personal Data

Full Name: Hoda Atta Abdullah Mera
Date of Birth: 5th, November, 1991
Place of Birth: Kafrelsheikh, Kafrelsheikh Governorate, Egypt
Nationality: Egyptian
Marital Status: Married
Current Position: Assistant Lecturer
Permanent Address: Department of Physics, Faculty of Science,
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Tel. (Home): +20-47-3894551
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E-mail: Hoda_mera2014@sci.kfs.edu.eg
Hoda_Atta2020@gmail.com

Education and Training

M. Sc. Degree in nuclear Physics, Faculty of Science, Kafrelsheikh University, Kafrelsheikh, Egypt.

Thesis title “**Study on the Structure-Property Relationship of some Hyperbranched Polymers using Positron Annihilation Spectroscopy**”

- 2013-2022:**
- ❖ **Scientific Expertise:** Positron annihilation samples preparation, polymer samples preparation; Biomedical samples Improvement as candidates for biological and biomedical applications.
 - ❖ **General Technical Skills:** UV-Vis spectrophotometers, positron annihilation spectroscopy, Doppler broadening spectroscopy, Raman spectrophotometer, PL spectrophotometer, electrochemical deposition and XRD analysis.
- Has passed the following training programs from **International Center for HRM & Continuing Education;**
- 2017-2020:**
- Time Management course,
 - International Scientific Publishing,
 - Strategic Plan course,
 - Decision making and problem-solving course,
 - Information Technology system,

Also passed a course in **Commanding the English Language**, this course is equivalent to (**Local TOEFL**), from Faculty of Arts.

- 2015-2017:** **Pre – Master Studies**, Faculty of Science, Kafrelsheikh University, Kafrelsheikh, Egypt.
- 2008-2013:** **B. Sc. Degree in Physics**, Faculty of Science, Kafrelsheikh University, Kafrelsheikh, Egypt.

Academic & Official Experience

- 2022- Present:** **Assistant Lecturer**, Department of Physics, Faculty of Science, Kafrelsheikh University, Kafrelsheikh, Egypt.
- 2018-2022:** **A member and a master student** at Positron Annihilation Spectroscopy Lab & Nuclear Energy Lab
- 2013-2020:** **Demonstrator**, Department of Physics, Faculty of Science, Kafrelsheikh University, Kafrelsheikh, Egypt.

Publications

- 1) Kamal Reyad Mahmoud, Ashraf El-Shehawy and Hoda Atta, “Characterization of chain-end-functionalized polystyrenes with definite numbers of benzyl-alcohol and perfluorooctyl groups” *Polímeros*, 29(4), e2019046, 2019, <https://doi.org/10.1590/0104-1428.04619>
- 2) Mahmoud Abdelfatah, Nourhan Darwesh, Hoda Atta, Amr M. Beltagi, Baoquan Sun, Abdelhamid El-Shaer, Walid Ismail, “Invertin g electrodeposited nanostructured Cu₂O thin film s from n -type to p - type semiconductors and variation of their physical and photoelectrochemical properties for optoelectronic applications” *Ceramics International Journal*, volume 130, pages 1-13 (2023). <https://doi.org/10.1016/j.ceramint.2023.07.029>



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CV



Name	Salah Abdelmohsen Abdelhafez
Date of Birth	September, 1,1993
Address	Kafrelsheikh
E-mail	Salah.elkon44@gmail.com Salah_Ahmed@sci.kfs.edu.eg
Mobile No.	+201062659469.
Present Occupation	Assistant lecturer of Physics department, Faculty of Science, Kafrelsheikh University, Egypt.

Education

- PhD course student, **Physics Department, Faculty of Science, Kafrelshiekh University, 2022**
- Master degree in physics, **Physics Department, Faculty of Science, Kafrelshiekh University, 2021.**
- **B.SC. in Physics, Physics Department, Faculty of Science, Kafrelshiekh University, Graduation year 2015, grade: Excellent.**

Technical Experience

- Strong experience in repairing and maintenance of Physics laboratory experiments for all grades of undergraduate Physics course students.
-
- Technical experience using analytical instruments for different analytical techniques such as UV/Vis/NIR spectrophotometers, spectrofluorometer, Centrifuges, Spin coaters, Vacuum evaporators, and high vacuum pumps.
- Experience in Installation and maintenance of dry nitrogen filled glove box systems.
- Experience in Computer programming using MATLAB program, Origin lab program, MS. Word, Excel, Power point.
- Experience in preparing technical and scientific reports and laboratory data sheets.

Teaching Experience

Teaching Assistant at Physics laboratory experiments for all grades of undergraduate students (Faculty of Science, Kafrelsheikh university) from 2015.

Training Sessions

- **Participated in the following Training courses:**
 - International Scientific Publishing
 - Credit Hours System
 - Competitive research projects
 - Students' evaluation and exam systems
 - Using Technology In Education
 - Scientific Research Methods

- Summer training at the medical research institute, University of Alexandria, 15 July 2014.
- Participation in training course with title: "The uses of nanotechnology in production of solar energy sustainability in Egypt" University of Alexandria, March 31, 2016.
- International Computer License (ICDL), Kafrelsheikh University, 2014.

Research activities and interests

Synthesis and characterization of different forms of nanostructured semiconductor materials with high optical absorption coefficient.

Participating in international research projects

1- Young PI investigator in Project with title **“Materials with high absorption coefficient for solar energy”**. The project was funded by Academy of Scientific Research and Technology ASRT, Egypt, 2015-2016 (total fun: 15,000 EGY).

Participating In International Conferences

1-5th International Scientific Research conference: Renewable Energy & Water Sustainability, Tanta University, Egypt, March 26-28, 2019

2- 1st International workshop on "*Prospects of Nanocrystals: Basics and Applications*", Kafrelsheih University, Egypt, November, 2014.

Curriculum Vitae

Personal Data

Full Name: Mabrouk Ramadan Kamel Mohamed Bakry
Date of Birth: 24th April 1993
Place of Birth: Elburullus, Kafrelsheikh Prefecture, Egypt
Nationality: Egyptian
Marital Status: Married
Current Position: Assistant Lecturer
Permanent Address: Department of Physics, Faculty of Science,
Kafrelsheikh University, Egypt. Kafrelsheikh, P.O. Box. 33516
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Education and Training

M. Sc. Degree in Material Science Physics, Faculty of Science, Kafrelsheikh University, Kafrelsheikh, Egypt.

Thesis title “**Fabrication and Characterization of Some Nanostructured Semiconductors**”

2018-2022: ❖ Scientific Expertise: Semiconductors thin films preparation, characterization and optoelectronic evaluation; Improvement semiconductor thin films as photoactive candidates for optoelectronic applications.

❖ General Technical Skills: UV-Vis spectrophotometers, solar simulator, Raman spectrophotometer, PL spectrophotometer, EL spectrophotometer, spincoators, electrochemical deposition and XRD analysis.

Has passed the following training programs from **International Center for HRM & Continuing Education;**

2018-2022:

- Credit Hour System,
- International Scientific Publishing,
- Students evaluation and exam systems,
- Communication skills in education,
- Quality Standards in Teaching and research team management.

Also passed a course in **Commanding the English Language**, this course is equivalent to (**Local TOEFL**), from Faculty of Arts.

- 2017-2018:** **Pre – Master Studies**, Faculty of Science, Kafrelsheikh University, Kafrelsheikh, Egypt.
- 2011-2015:** **B. Sc. Degree in Physics**, Faculty of Science, Kafrelsheikh University, Kafrelsheikh, Egypt.

Academic & Official Experience

- 2022- Present:** **Assistant Lecturer**, Department of Physics, Faculty of Science, Kafrelsheikh University, Kafrelsheikh, Egypt.
- 2018-2022:** **A member and a master student** at project ID (33389) funded from science & technology development fund (**STDF**), titled “**Efficiency Enhancement of Low Cost Solar Cells based on Earth Abundant Materials**”, June 2019.
- 2017-2022:** **Demonstrator**, Department of Physics, Faculty of Science, Kafrelsheikh University, Kafrelsheikh, Egypt.

Publications

- 1) H.Y. Salah, **Mabrouk Bakry**, M Kubas, Walid Ismail, M. I. El-Henawey, A. H. Oraby, Abdelhamid Elshaer, Mahmoud Abdelfatah, “Improvement of the structural, morphological, optical, and photoelectrochemical properties of Al doped ZnO nanorods for use in biosensors and solar cells” The European Physical Journal Plus, volume 137, Article number 1319 (2022). <http://dx.doi.org/10.1140/epjp/s13360-022-03532-7>.
- 2) Mahmoud Abdelfatah, Ali Basuni, H. Y. Salah, **Mabrouk Bakry**, Nourhan Darwesh, Walid Ismail, Abdelhamid Elshaer, “Improvement of physical and electrochemical properties of Cu₂O thin films with Fe ions doping towards optoelectronic applications” Optical Materials Journal, volume 130, pages 112583 (2022). <https://doi.org/10.1016/j.optmat.2022.112583>
- 3) Walid Ismail, **Mabrouk Bakry**, Moneim Elshobaki, Abdelhamid Elshaer, Mahmoud Abdelfatah, “Impact of precursor concentrations and substrate type on properties of electrodeposited CdO nanorod thin films for optoelectronic applications” Materials Science in Semiconductor Processing, volume 133, pages 105959 (2021). <https://doi.org/10.1016/j.mssp.2021.105959>
- 4) Mahmoud Abdelfatah, H. Y. Salah, **Mabrouk Bakry**, Walid Ismail, Abdelhamid Elshaer, Sayed Abdelgawad, “Influence of band gap and carrier concentration on ZnO/CuO solar cells performance” Egyptian Journal of Solids, volume 43, pages 158-173 (2021). [10.21608/EJS.2021.92116.1018](https://doi.org/10.21608/EJS.2021.92116.1018)

Online Courses (MOOCs)

- Introduction to solar cells,
- Introduction to Molecular Spectroscopy,
- Solar Energy,
- Semiconductor Physics,
- Introduction to chemistry: Reactions and Ratios.

Activities

- **Coordinator** of the workshop “Prospects of Nano Crystals Basics and Application”, 25-26 November 2014, Faculty of Science Kafrelsheikh University, Kafrelsheikh, Egypt.
- **Attending** a workshop titled “the modern knowledge cycle”, 5th March 2017, Kafrelsheikh University, Kafrelsheikh, Egypt.
- **Attending** “1st Castle Conference of Advanced Sciences”, 2017, Kafrelsheikh University, Kafrelsheikh, Egypt.
- **Participating** at ANSOLE Scientific Meeting in Egypt (ASMEG 2019), 30th January 2019, Zewail City of Science and Technology, Giza, Egypt.
- **Attending** online workshop entitled: “Climate change and carbon footprint”, which was organized by future Scientists platform and Faculty of Science, Arish University, 13th October 2022 on FCC program.

References

- 1) Prof. **Abdelhamid Abdelrahim Elshaer**
E-mail: elshaera@yahoo.com
- 2) Ass. Prof. **Walid Ismail Abdelgwad**
E-mail: walid_s2@yahoo.com
- 3) Ass. Prof. **Mahmoud Mohamed Saad**
E-mail: m_s_abdelfatah@yahoo.com





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البيانات الأساسية

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الوظيفة الحالية: معيدة بقسم الفيزياء كلية العلوم - جامعة كفر الشيخ

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المؤهلات العلمية والتدرج العلمي:

- (١) بكالوريوس العلوم في الفيزياء - كلية العلوم - جامعة كفر الشيخ - مصر (2017)
- (٢) تمهيدى الماجستير في الفيزياء - كلية العلوم - جامعة كفر الشيخ - مصر (2018)

التدرج الوظيفي

- (١) معيد - قسم الفيزياء - كلية العلوم بكفر الشيخ

الدورات التي تم الحصول عليها

١. دورة الساعات المعتمدة
٢. دورة النشر العلمي
٣. دورة معايير وادارة الجودة
٤. دورة تنظيم مؤتمرات
٥. دورة TOEFL
٦. دورة التحول الرقمي



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البيانات الأساسية

الإسم : نورهان رمضان عبدالله درويش

تاريخ الميلاد: ١٩٩٥/٥/٧

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الحالة الإجتماعية: متزوج

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- (١) بكالوريوس العلوم في الفيزياء- كلية العلوم - جامعة كفر الشيخ- مصر (2017)
- (٢) تمهيدى الماجستير فى الفيزياء - كلية العلوم - جامعة كفر الشيخ - مصر (2020)

التدرج الوظيفي

- (١) معيد - قسم الفيزياء - كلية العلوم- جامعة كفر الشيخ

الدورات التي تم الحصول عليها

١. دورة الساعات المعتمدة
٢. دورة النشر العلمي
٣. دورة التحول الرقمي
٤. دورة التوفيل
٥. دورة الاسعافات الاولية

Curriculum Vitae

Personal Data

- **Full Name:** Ghada IbrahimAli Ibrahim
- **Date of Birth:** January 4th, 1997
- **Place of Birth:** Desouq, Kafrelsheikh Prefecture, Egypt
- **Nationality:** Egyptian
- **Marital Status:** Married
- **Current Position:** Demonstrator
- **Permanent Address:** Department of Physics, Faculty of Science, Kafrelsheikh University, Egypt. Kafrelsheikh, P.O. Box. 33516
- **Mobile:** +201028971074
- **E-mail:** Ghadaibrahim873@gmail.com

Education and Training

- **2021-2022:** Has passed the following training programs from International Center for HRM & Continuing Education; Credit Hour System, International Scientific

Publishing, Quality standards in teaching, Digital services for scientific research.

- **2019-2020:** Pre – Master Studies, Faculty of Science, Kafrelsheikh University, Kafrelsheikh, Egypt.
- **2015-2019:** B. Sc. Degree in Physics, Faculty of Science, Kafrelsheikh University, Kafrelsheikh, Egypt.

Academic & Official Experience

- **2020-Present:** Demonstrator, Department of Physics, Faculty of Science, Kafrelsheikh University, Kafrelsheikh, Egypt.

Personal Information

- **Name** : Asmaa Eid Abd Elsalam faried Elsheikh.
- **Nationality** : Egyptian.
- **Gender** : Female.
- **Status** : married.
- **Date of Birth** : 1/9/1996.
- **Place of Birth** : Egypt –Kafr Elsheikh – Sidi Salem.
- **Religion** : Muslim.

- **Mob** : 0102 8208460.
- **Email** : asmaaelsheikh917@gmail.com

Education

- **B.Sc of physics, faculty of science (may 2018).** – Kafr Elsheikh University.
- **(Grade: Excellent honors (GPA=3.51).**
- **Graduation project** (Securing competitive external funding for Bachelor graduation project from Academy of Scientific Research and Technology, (ASRT) Egypt 2017-2018, total budget 75,000 Egyptian Pound. Project title “Fabrication of Economic Proto-type Solar Cell Device”. *Degree*: excellent.

Current job

Demonstrator at faculty of science Kafr Elsheikh University, physics department.

training

Trained at the medical research institute, university of Alexandria (summer 2017).

Personal skills

- Critical thinking, leadership, team work.
- Microsoft office, origin.

Courses

- Quality standard in teaching.
- International scientific publishing.
- Credit hour system.
- Digital services for scientific research.

Languages

- **Arabic** : Mother tongue.
- **English**: Good command of English spoken and writing.



السيرة الذاتية

البيانات الأساسية

الإسم : سارة محمد صلاح احمد

تاريخ الميلاد: ١٩٩٨/٤/١٠

الوظيفة الحالية: معيدة بقسم الفيزياء كلية العلوم - جامعة كفر الشيخ

الحالة الإجتماعية: متزوج

بيانات الإتصال: تليفون: ٠١٠٥٠٢٠٩٦٥٨

بريد إلكتروني: sara.mohamed_a003@sci.kfs.edu.eg

المؤهلات العلمية والتدرج العلمي:

- (١) بكالوريوس العلوم في الفيزياء - كلية العلوم - جامعة كفر الشيخ - مصر (2020)
- (٢) تمهيدى الماجستير في الفيزياء - كلية العلوم - جامعة كفر الشيخ - مصر (2022)

التدرج الوظيفي

(١) معيد - قسم الفيزياء - كلية العلوم بكفر الشيخ

الدورات التي تم الحصول عليها

١. دورة الساعات المعتمدة
٢. دورة النشر العلمي

Eman

Mohamed Abo Diab

Basic Personal Data

- **Name:** Eman Mohamed Abo Diab
- **Birth date:** 25 January 1999
- **marital status:** single
- **Contact information:**

Mobile number: 01002557690

Email: eman.mhmd251@gmail.com

Education

- **Bachaloria |**

Faculty of science, Kafr el-Sheikh university, physics department

2018 _2021

GPa 3.78

- **Secondary |**

Qallin, Qallin secondary school for girls

2015 – 2017

Grade 92.33 %

Experience

- **Current job:**

Teaching Assistant at faculty of science Kafr Elsheikh university, physics department

Skills

Arabic (Mother tongue)

English (Very good writing, speaking and reading)

- **Courses in:**

- Computer skills
- Communication skills, leadership, time management from Edraak
- Digital marketing form Google
- English in work place and team working from Edraak
- Course in first aid skill (offline)
- Team working

- Negotiation from coursera

Activities

- Reading
- Learning languages (English, Chinese)
- Interested in Economy