

## Abdelfattah Mohamed Mansour (A. M. Mansour)

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### Personal Profile

Ass. Professor in Solid State Physics Department, Physical Research Division, National Research Centre. Published over 50 articles in peer-reviewed international journals focused on structural, optical, electrical (specially I-V characteristics of PN junctions), magnetical, thermal, and galvanomagnetical properties of thin films of (organic and inorganic) semiconductors, polymers, dyes, and composites. He is an expert in different preparation methods such as sol-gel, solvothermal, chemical precipitation, electrodeposition, etc. Also, He has good experience in thin films and junctions assembling by spin coating, thermal evaporation, dip coating, and other different methods.

### Education

- 1- Ph.D., Solid State Physics, Menofiya University, Egypt, 2010
- 2- M.Sc., Solid State Physics, Menofiya University, Egypt, 2004
- 3- B.Sc., Physics, Menofiya University, Egypt, 1997

### Professional Appointments

- 1- Lecturer, Institute of Developed Industries, Defense Industries Ministry, 1998-2006.
- 2- Physics Researcher in National Research centre (NRC), Egypt, 2006-2010.
- 3- Secondment to the Qassim University, Kingdom of Saudi Arabia, 2011-2016
- 4- Physics Researcher in National Research centre (NRC), Egypt, 2016-2019.
- 5- Assistance Researcher Professor in National Research centre (NRC), Egypt, 2019 till now.

### Publications

- 1- Higazy AA, Afifi H, Khafagy AH, El-Shahawy MA, Mansour AM. Ultrasonic studies on polystyrene/styrene butadiene rubber polymer blends filled with glass fiber and talc. Ultrasonics 2006;44. <https://doi.org/10.1016/j.ultras.2006.05.142>.
- 2- Farag AAM, Terra FS, Mahmoud GM, Mansour AM. Study of Gaussian distribution of inhomogeneous barrier height for n-InSb/p-GaAs heterojunction prepared by flash evaporation. J Alloys Compd 2009;481:427–33. <https://doi.org/10.1016/j.jallcom.2009.03.004>.
- 3- Terra FS, Higazy AA, Mahmoud GM, Mansour AM. (InSb/GaAs)-Au hybrid macro-structure prepared by flash evaporation. Indian J Phys 2010;84:265–77. <https://doi.org/10.1007/s12648-010-0012-4>.
- 4- Terra F, Higazy A, Mahmoud G, Mansour A. InS semiconductor-metal hybrid structure (SMH) as a magnetic sensor prepared by flash evaporation. Int J Nanoelectron Mater 2010;3:53–61.
- 5- Farag AAM, Mansour AM, Ammar AH, Rafea MA. Characterization of electrical and optical absorption of organic based methyl orange for photovoltaic application. Synth Met 2011;161:2135–43. <https://doi.org/10.1016/j.synthmet.2011.08.015>.
- 6- Farag AAM, Terra FS, Fahim GMM, Mansour AM. Current transport and capacitance-voltage characteristics of n-InSb/p-GaP prepared by flash evaporation and liquid phase epitaxy. Met Mater Int 2012;18:509–15. <https://doi.org/10.1007/s12540-012-3020-4>.
- 7- Farag AAM, Mansour AM, Ammar AH, Rafea MA, Farid AM. Electrical conductivity, dielectric properties and optical absorption of organic based nanocrystalline sodium copper chlorophyllin for photodiode application. J Alloys Compd 2012; 513:404–13. <https://doi.org/10.1016/j.jallcom.2011.10.058>.

- 8- El-Menyawy EM, Mansour AM, El-Ghamaz NA, El-Khodary SA. Electrical conduction mechanisms and thermal properties of 2-(2, 3-dihydro-1,5-dimethyl-3-oxo-2-phenyl-1H-pyrazol-4-ylimino)-2-(4-nitrophenyl) acetonitrile. *Phys B Condens Matter* 2013;413:31–5. <https://doi.org/10.1016/j.physb.2012.12.030>.
- 9- Farag AAM, Osiris WG, Ammar AH, Mansour AM. Electrical and photosensing performance of heterojunction device based on organic thin film structure. *Synth Met* 2013;175:81–7. <https://doi.org/10.1016/j.synthmet.2013.04.030>.
- 10- El-Menyawy EM, Zedan IT, Mansour AM, Nawar HH. Thermal stability, AC electrical conductivity and dielectric properties of N-(5-[[antipyrinyl-hydrazono]-cyanomethyl]-[1,3,4]thiadiazol-2-yl)-benzamide. *J Alloys Compd* 2014;611:50–6. <https://doi.org/10.1016/j.jallcom.2014.05.120>.
- 11- Farag AAM, Terra FS, Ashery A, Mansour AM. Structural and electrical characteristics of n-InSb/p-GaAs heterojunction prepared by liquid phase epitaxy. *J Alloys Compd* 2014;615:604–9. <https://doi.org/10.1016/j.jallcom.2014.06.058>.
- 12- Mansour AM. High Quality InSb Microcrystal Hall Sensor Doped with Te or Bi. *Int J Adv Appl Phys Res* 2016;3:5–10. <https://doi.org/10.15379/2408-977x.2016.03.01.02>.
- 13- Mansour AM, Farag AAM. Structural Characterizations and the Influence of Metal Work Function Contact for Nanocrystalline 2,9-Dimethyl-4,7-Diphenyl-1,10-Phenanthroline Based Devices. *Organo Opto-Electronics An Int J* 2016;35:29–35. <https://tinyurl.com/yz68avt>.
- 14- Mansour AM, El-Menyawy EM, Mahmoud GM, Azab AA, Terra FS. Structural, optical and galvanomagnetic properties of nanocrystalline Se<sub>51.43</sub>In<sub>44.67</sub>Pb<sub>3.9</sub> thin films. *Mater Res Express* 2017;4. <https://doi.org/10.1088/2053-1591/aa95ee>.
- 15- Mansour AM, El-Taweel FMA, Abu El-Enein RAN, El-Menyawy EM. Structural, Optical, Electrical and Photoelectrical Properties of 2-Amino-4-(5-bromothiophen-2-yl)-5,6-dihydro-6-methyl-5-oxo-4H-pyrano[3,2-c] quinoline-3-carbonitrile Films. *J Electron Mater* 2017;46:6957–64. <https://doi.org/10.1007/s11664-017-5739-7>.
- 16- Farag AAM, Terra FS, Ashery A, Mansour AM. Structural and electrical characterization of n-InAs/p-GaP heterojunctions prepared by vacuum flash evaporation and liquid phase epitaxy. *Optoelectron Adv Mater Rapid Commun* 2017;11:82–7. <https://tinyurl.com/y2sp3vs3>.
- 17- El-Menyawy EM, Zedan IT, Mansour AM. Electrical Conductivity and Dielectrical Properties of Bulk Methylene Green. *J Electron Mater* 2017;46:4353–8. <https://doi.org/10.1007/s11664-017-5414-z>.
- 18- El Radaf IM, Nasr M, Mansour AM. Structural, electrical and photovoltaic properties of CoS/Si heterojunction prepared by spray pyrolysis. *Mater Res Express* 2018;5:015904. <https://doi.org/10.1088/2053-1591/aaa25e>.
- 19- Azab AA, El-Menyawy EM, Mansour AM, Mahmoud GM, Terra FS. Structural, Optical and Electrical Properties of Nanocrystalline PbSe: In Films. *Recent Patents Mater Sci* 2018;11:41–7. <https://doi.org/10.2174/1874464811666181005100615>.
- 20- Nasr M, El Radaf IM, Mansour AM. Current transport and capacitance–voltage characteristics of an n-PbTe/p-GaP heterojunction prepared using the electron beam deposition technique. *J Phys Chem Solids* 2018;115:283–8. <https://doi.org/10.1016/j.jpccs.2017.12.029>.
- 21- Mansour AM, Yahia IS, Radaf IME. Structural, electrical and photovoltaic properties of PbSb<sub>2</sub>S<sub>5</sub>/n-Si heterojunction synthesized by vacuum coating technique. *Mater Res Express* 2018;5. <https://doi.org/10.1088/2053-1591/aad15b>.
- 22- Hassan N, Mansour AM, Roushdy N, Farag AAM, Osiris WG. Optical sensing performance characteristics of Schottky devices diodes based nano-particle disodium 6-hydroxy-5-[(2-methoxy-5-methyl-4-sulfophenyl)azo]-2-naphthalenesulfonate thin films: A comparison study. *Optik (Stuttg)* 2018;158:1255–65. <https://doi.org/10.1016/j.ijleo.2017.12.203>.
- 23- Farag AAM, Terra FS, Ashery A, Fahim GMM, Mansour AM. Temperature dependence of J-V and C-V characteristics of n-InAs/p-GaAs heterojunctions prepared by flash evaporation technique and

- liquid phase epitaxy. Indian J Pure Appl Phys 2018;56:203–9. <https://doi.org/http://op.niscair.res.in/index.php/IJPAP/article/view/10627/465464659>.
- 24- El Radaf IM, Mansour AM, Sakr GB. Fabrication, electrical and photovoltaic characteristics of CuInGeSe<sub>4</sub>/n-Si diode. J Semicond 2018;39. <https://doi.org/10.1088/1674-4926/39/12/124010>.
- 25- Mansour AM, Radaf IME, Hameed TA, Sakr GB. Investigation of ag<sub>2</sub>hgi<sub>4</sub> nanoparticles: Thermal phase transition and non-isothermal kinetic study. UPB Sci Bull Ser B Chem Mater Sci 2019;81:134–48. <https://tinyurl.com/yfe4928x>.
- 26- Mansour AM. Fabrication and Characterization of a Photodiode Based on 5',5''-dibromo-*o*-cresolsulfophthalein (BCP). Silicon 2019;11:1989–96. <https://doi.org/10.1007/s12633-018-0016-9>.
- 27- Zedan IT, El-Menyawy EM, Mansour AM. Physical Characterizations of 3-(4-Methyl Piperazinylimino Methyl) Rifampicin Films for Photodiode Applications. Silicon 2019;11:1693–9. <https://doi.org/10.1007/s12633-018-9989-7>.
- 28- Mansour AM, El-Menyawy EM, Mahmoud GM. Structural, optical and galvanomagnetical properties of low cost synthesised nanostructure Cu<sub>2</sub>S films. Int J Microstruct Mater Prop 2019;14:272–85. <https://doi.org/10.1504/IJMMP.2019.099911>.
- 29- Mansour AM, El Radaf IM. Structural, optical and electrical properties of CuBiS<sub>2</sub> thin films deposited by spray pyrolysis at different deposition times. Int J Microstruct Mater Prop 2019;14:419–31. <https://doi.org/10.1504/IJMMP.2019.102219>.
- 30- El Nahrawy AM, Mansour AM, Abou Hammad AB, Wassel AR. Effect of Cu incorporation on morphology and optical band gap properties of nano-porous lithium magnesio-silicate (LMS) thin films. Mater Res Express 2019;6:016404. <https://doi.org/10.1088/2053-1591/aae343>.
- 31- Mansour AM, El Radaf IM, Mahmoud GM. Effect of deposition temperature on structural, optical and electrical properties of chemically deposited thermochromic Cu<sub>2</sub>HgI<sub>4</sub> thin films. Int J Microstruct Mater Prop 2019;14:462–77. <https://doi.org/10.1504/IJMMP.2019.102223>.
- 32- El Nahrawy AM, Hammad ABA, Youssef AM, Mansour AM, Othman AM. Thermal, dielectric and antimicrobial properties of polystyrene-assisted/ITO:Cu nanocomposites. Appl Phys A Mater Sci Process 2019;125:1–9. <https://doi.org/10.1007/s00339-018-2351-5>.
- 33- Nasr M, Mansour AM, El Radaf IM. Current transport and capacitance-voltage characteristics of Sb<sub>2</sub>Se<sub>3</sub>/n-Si heterojunction diode prepared by electron beam evaporation. Mater Res Express 2019;6:036405. <https://doi.org/10.1088/2053-1591/aaf3f3>.
- 34- Mansour AM, Nasr M, Saleh HA, Mahmoud GM. Physical characterization of 5',5''-dibromo-*o*-cresolsulfophthalein (BCP) spin-coated thin films and BCP/p-Si based diode. Appl Phys A Mater Sci Process 2019;125. <https://doi.org/10.1007/s00339-019-2920-2>.
- 35- Hemdan BA, El Nahrawy AM, Mansour AFM, Hammad ABA. Green sol–gel synthesis of novel nanoporous copper aluminosilicate for the eradication of pathogenic microbes in drinking water and wastewater treatment. Environ Sci Pollut Res 2019;26:9508–23. <https://doi.org/10.1007/s11356-019-04431-8>.
- 36- Azab AA, Mansour AM, Turkey GM. Structural, Magnetic, and Dielectric properties of Sr<sub>4</sub>Fe<sub>6</sub>O<sub>13</sub> ferrite prepared of small crystallites. Sci Rep 2020;10. <https://doi.org/10.1038/s41598-020-61460-x>.
- 37- El-Khawas EH, Azab AA, Mansour AM. Structural, magnetic and dielectric properties of reduced graphene oxide/ La<sub>0.9</sub>Bi<sub>0.1</sub>FeO<sub>3</sub> nanocomposites. Mater Chem Phys 2020;241. <https://doi.org/10.1016/j.matchemphys.2019.122335>.
- 38- Mansour AM. Thermal microscopy (TM). Int J Microstruct Mater Prop 2020;15:215–28. <https://doi.org/10.1504/IJMMP.2020.110524>.
- 39- El Nahrawy AM, Abou Hammad AB, bakr AM, Shaheen TI, Mansour AM. Sol–gel synthesis and physical characterization of high impact polystyrene nanocomposites based on Fe<sub>2</sub>O<sub>3</sub> doped with ZnO. Appl Phys A Mater Sci Process 2020;126:654. <https://doi.org/10.1007/s00339-020-03822-w>.

- 40- Elkanzi NAA, Farag AAM, Roushdy N, Mansour AM. Design, fabrication and optical characterizations of pyrimidine fused quinolone carboxylate moiety for photodiode applications. *Optik (Stuttg)* 2020;216:164882. <https://doi.org/10.1016/j.ijleo.2020.164882>.
- 41- Mansour AM. Magnetic sensors and geometrical magnetoresistance: A review. *J Met Mater Miner* 2020;30:1–18. <https://doi.org/10.14456/jmmm.2020.46>.
- 42- Hameed TA, Mohamed F, Mansour AM, Battisha IK. Synthesis of Sm 3+ and Gd 3+ Ions Embedded in Nano-Structure Barium Titanate Prepared by Sol-Gel Technique: Terahertz, Dielectric and Up-Conversion Study . *ECS J Solid State Sci Technol* 2020;9:123005. <https://doi.org/10.1149/2162-8777/abc96b>.
- 43- El Nahrawy AM, Elzawy A, Abou Hammad AB, Mansour AM. Influence of NiO on structural, optical, and magnetic properties of Al<sub>2</sub>O<sub>3</sub>–P<sub>2</sub>O<sub>5</sub>–Na<sub>2</sub>O magnetic porous nanocomposites nucleated by SiO<sub>2</sub>. *Solid State Sci* 2020;108. <https://doi.org/10.1016/j.solidstatesciences.2020.106454>.
- 44- El Nahrawy AM, Abou Hammad AB, Mansour AM. Compositional Effects and Optical Properties of P<sub>2</sub>O<sub>5</sub> Doped Magnesium Silicate Mesoporous Thin Films. *Arab J Sci Eng* 2020. <https://doi.org/10.1007/s13369-020-05067-4>.
- 45- El Nahrawy AM, Hemdan BA, Abou Hammad AB, Othman AM, Abouelnaga AM, Mansour AM. Modern Template Design and Biological Evaluation of Cephadrine-loaded Magnesium Calcium Silicate Nanocomposites as an Inhibitor for Nosocomial Bacteria in Biomedical Applications. *Silicon* 2020. <https://doi.org/10.1007/s12633-020-00642-8>.
- 46- Abou Hammad AB, Elzawy A, Mansour AM, Alam MM, Asiri AM, Karim MR, et al. Detection of 3,4-diaminotoluene based on Sr<sub>0.3</sub>Pb<sub>0.7</sub>TiO<sub>3</sub>/CoFe<sub>2</sub>O<sub>4</sub> core/shell nanocomposite: Via an electrochemical approach. *New J Chem* 2020;44:7941–53. <https://doi.org/10.1039/d0nj01074j>.
- 47- ElNahrawy AM, Mansour AM, ElAttar HA, Sakr EMM, Soliman AA, Hammad ABA. Impact of Mn-substitution on structural, optical, and magnetic properties evolution of sodium–cobalt ferrite for opto-magnetic applications. *J Mater Sci Mater Electron* 2020;31:6224–32. <https://doi.org/10.1007/s10854-020-03176-2>.
- 48- Abou Hammad AB, Elzawy A, Mansour AM, Alam MM, Asiri AM, Karim MR, et al. Detection of 3,4-diaminotoluene based on Sr<sub>0.3</sub>Pb<sub>0.7</sub>TiO<sub>3</sub>/CoFe<sub>2</sub>O<sub>4</sub> core/shell nanocomposite: Via an electrochemical approach. *New J Chem* 2020;44:7941–53. <https://doi.org/10.1039/d0nj01074j>.
- 49- El Nahrawy AM, Mansour AM, Abou Hammad AB, Ibrahim RS, Abouelnaga AM, Abdel-Aziz MS. Optical, Functional Impact and Antimicrobial of Chitosan/Phosphosilicate/Al<sub>2</sub>O<sub>3</sub> Nanosheets. *J Inorg Organomet Polym Mater* 2020;30:3084–94. <https://doi.org/10.1007/s10904-020-01469-x>.
- 50- El Nahrawy AM, Mansour AM, Abou Hammad AB. Spectroscopic Study of Eu<sup>3+</sup>-Doped Magnesium Lanthanum Phosphate (MLPO) Films on SiO<sub>2</sub> Substrate. *Silicon* 2021. <https://doi.org/10.1007/s12633-020-00855-x>.
- 51- Mansour AM, Gad SA, Moustafa AM, Mahmoud GM. Structural, Morphological, and Optical Characterization of MoO<sub>3</sub> Thin Films and MoO<sub>3</sub>/p-Si Based Diode. *Silicon* 2021. <https://doi.org/10.1007/s12633-021-01014-6>.
- 52- Hammad ABA, El Nahrawy AM, Atia DM, El-Madany HT, Mansour AM. Effect of Cu co-doping on the microstructure and optical properties of alumino-zinc thin films for optoelectronic applications. *Int J Mater Eng Innov* 2021;12:18–36. <https://doi.org/10.1504/IJMATEI.2021.113214>.
- 53- El Nahrawy AM, Abou Hammad AB, Mansour AM. Preparation and Characterization of Transparent Semiconducting Silica Nanocomposites Doped with P<sub>2</sub>O<sub>5</sub> and Al<sub>2</sub>O<sub>3</sub>. *Silicon* 2021. <https://doi.org/10.1007/s12633-021-00962-3>.
- 54- Mansour AM, Abou Hammad AB, El Nahrawy AM. Sol–gel synthesis and physical characterization of novel MgCrO<sub>4</sub>-MgCu<sub>2</sub>O<sub>3</sub> layered films and MgCrO<sub>4</sub>-MgCu<sub>2</sub>O<sub>3</sub>/p-Si based photodiode. *Nano-Structures and Nano-Objects* 2021;25. <https://doi.org/10.1016/j.nanoso.2020.100646>.

- 55- Amany M El Nahrawy, A. M. Mansour, Ahmed M Bakr, and Ali B Abou Hammad, Terahertz and UV-VIS Spectroscopy Evaluation of Copper Doped Zinc Magnesium Titanate Nanoceramics Prepared via Sol-Gel Method, ECS Journal of Solid State Science and Technology, 2021;10:063007. <https://doi.org/10.1149/2162-8777/ac07f9>
- 56- R. S. Ibrahim, A. A. Azab, and A. M. Mansour, Synthesis and structural, optical, and magnetic properties of Mn-doped CdS quantum dots prepared by chemical precipitation method, Journal of Materials Science Materials in Electronics, 2021; 32:19980. <https://doi.org/10.1007/s10854-021-06522-0>
- 57- Amany M El Nahrawy, Ali B Abou Hammad, A M Mansour, Structural investigation and optical properties of Fe, Al, Si, and Cu–ZnTiO<sub>3</sub> nanocrystals, Physica Scripta, 2021; 96:115801. <https://doi.org/10.1088/1402-4896/ac119e>
- 58- Amany M. El Nahrawy, Ahmed M. Bakr, Ali B. Abou Hammad, A. M. Mansour, Nano-architecture of CaO/Ag-chitosan nanocomposite by sol-gel process: formation and characterization, Egyptian journal of chemistry, 2021; in press.
- 59- Amir Elzawy, Bahaa Hemdan, Ali B. Abou Hammad, Amany M. El Nahrawy, Structural and magnetic properties of nickel magnesium copper zircon silicate (NMCZS) nanocomposite, Silicon, 2021; in press.
- 60- Ali B Abou Hammad, A M Mansour, Amany M El Nahrawy, Ni<sup>2+</sup> doping effect on potassium barium titanate nanoparticles: enhancement optical and dielectric properties, Phys. Scr. 96 (2021) 125821. <https://doi.org/10.1088/1402-4896/ac25a6>
- 61- Amany M. El Nahrawy, Bahaa A. Hemdan, A. M. Mansour, Amir Elzawy, Ali B. Abou Hammad, Integrated use of nickel cobalt aluminoferrite/Ni<sup>2+</sup> nano-crystallites supported with SiO<sub>2</sub> for optomagnetic and biomedical applications, Materials Science & Engineering B, 2021, in press.
- 62- Amany M. El Nahrawy, Ahmed S. Montaser, Ahmed M. Bakr, Ali B. Abou Hammad, A. M. Mansour, Impact of ZnO on the spectroscopic, mechanical, and UPF properties of Fe<sub>2</sub>O<sub>3</sub>-tough polystyrene-based nanocomposites, Journal of Materials Science: Materials in Electronics, 2021, in press.

### **Books**

- 1- A.M. Mansour, “Semiconductor-Metal Hybrid Structure and pn Junctions Made from A<sub>3</sub>B<sub>5</sub>”, LAP LAMBERT Academic Publishing, Berlin, DE, 2015. <https://tinyurl.com/y2antc6z>.
- 2- A. A. Higazy, FATMA S. TERRA, A. M. MANSOUR, “Semiconductor-Metal Hybrid Structure (SMHS)”, Noor Publishing, 2016. <https://tinyurl.com/yhdgj5c2>.

### **Projects**

- 1- “Study of promising physical properties of advanced solid compounds technological applications”, National Research center, Egypt, 2008-2010, Code: E8041001.
- 2- “Nontraditional solar cells”, National Research center, Egypt, 2010-2013, Code: 9010301.
- 3- “Multifunctional magnetic barium titanate perovskites for electromagnetic and catalytic applications”, National Research center, Egypt, 2020-2021, Code: E121005.

### **Grants and Fellowships**

- 1- IFE-STDF Postdoctoral Scholarship 2018: Center of Microelectronics in Provence, Mines Saint-Etienne, F-13541 Gardanne, **France**. (<https://tinyurl.com/yz2nc6k3>)

### **Conferences**

- 1- A member in secretarial board in the 2nd International Conference on “Advanced Materials and Their Applications” held at National Research Center, Physics Division, Cairo, Egypt, April 6-8, 2010
- 2- Attendance of “The 7th International Conference on Optical Spectroscopy, Laser and their Applications” Held at National Research Center, Dokki, Cairo, Egypt on Oct 20, 2018-20, 2016.



- 3- Participating with a poster in the conference “International Conference on Nanoscience, Nanotechnology and Advanced Materials (IC2NM)” Held in London, the United Kingdom on 14-15 November 2016.
- 4- International Symposium on Photonics and Optoelectronics (SOPO 2015), China, 2015.
- 5- Second international conference on molecular modeling and spectroscopy, Egypt, 2020.
- 6- Kuwait 2nd International Scientific Conference on Educational Leadership, Online, 2021.
- 7- International Conference on Occupational Safety and Health, Online, 2021.

### ***Workshops and Symposiums***

- 1- “New Trends in Nano-science and Laser physics”, National Research Center, Egypt, 2010
- 2- “Copyright”, National Research Center, Egypt, 2016.
- 3- “Advances on Solid State Physics” National Research Center, Egypt, 2016.
- 4- “1st workshop on nanomaterials for environmental and biomedical applications”, Faculty of education, Ain Shams University, 2019.
- 5- “Used Techniques for Material Characterization”, National Research Centre, 2019.
- 6- “Introduction to Scholarly Publishing”, Elsevier Academy, 2019
- 7- “Guide to reference managers: How to effectively manage your references”, Elsevier Academy, 2019.
- 8- “How researchers store, share and use data”, Elsevier Academy, 2019.
- 9- “How to review a manuscript”, Elsevier Academy, 2019.
- 10- “Seven strategies for scientists to communicate their research and create a brand”, Elsevier Academy, 2019.
- 11- “Conference skills for researchers”, Elsevier Academy, 2019.
- 12- “Social Media for Researchers”, Elsevier Academy, 2019.
- 13- “Why write a book?”, Elsevier Academy, 2019.
- 14- “How to get your book published”, Elsevier Academy, 2019.
- 15- “Book writing”, Elsevier Academy, 2019.
- 16- “How to identify the right journal to publish in”, Elsevier Academy, 2019.
- 17- “An editor’s guide to writing a review article”, Elsevier Academy, 2019.
- 18- “Make the most of your research: publish your data & methods”, Elsevier Academy, 2019.
- 19- “How to write a lay summary”, Elsevier Academy, 2019.
- 20- “How to secure funding - ECR edition”, Elsevier Academy, 2019.
- 21- “Improving Grant Success: What Funders Look For?”, Elsevier Academy, 2020.
- 22- “Using research metrics and indicators effectively in grant proposals”, Elsevier Academy, 2020.
- 23- “Strategies for Writing Successful Grant Applications”, Elsevier Academy, 2020.
- 24- “Some applications of solid-state physics”, National research centre, Egypt, 2020.
- 25- “Discover how metrics can boost funding and networking opportunities”, Elsevier Academy, 2020.
- 26- “How to conduct evidence-based research”, Elsevier Academy, 2020.
- 27- “The effect of distance learning on children's eyes”, Baghdad Center for Psychosocial Support, Iraq, 2021.
- 28- “Enhance your Research with Elsevier: Material Science in Reaxys”, NRC, EKB, and Elsevier Academy, 2020.
- 29- “The 1<sup>st</sup> International Science Diplomacy Awareness Workshop”, NRC and The Ministry of Education, 2021.
- 30- “Common grammatical, morphological, and spelling errors in scientific writing”, Academics & Researchers Platforms (IFAD), 2021.
- 31- “Nanotechnology for Environmental applications”, Water Technology Experts Academy, in cooperation with the International for Scientific Consulting and Training (ISCT), 2021.

- 32- "Characteristics and skills of scientific writing in the Arabic language", International for Scientific Consulting and Training (ISCT), 2021.
- 33- "Peer Review Insights from iScience Editors", NRC and The Ministry of Education, 2021.
- 34- "Educational development towards a knowledge-based economy", International for Scientific Consulting and Training (ISCT), 2021.
- 35- "Development of scientific publishing in the Arab world - suggested realistic solutions", International for Scientific Consulting and Training (ISCT), 2021.
- 36- "Scientific Publication Methods in Scientific Journals - Applied examples in Scopus journals", Academics & Researchers Platforms (IFAD), 2021.
- 37- "Scientific research between science philosophy and history", Academics & Researchers Platforms (IFAD), 2021
- 38- "Recherchez la littérature pertinente et sélectionnez les revues dans lesquelles publier", Elsevier Academy, 2021

### **Training**

- 1- "Occupational Safety and Health", National Research Centre, Egypt, 2007.
- 2- "Basics of scientific writing", National Research Centre, Egypt, 2008.
- 3- "Civil Defense", National Research Centre, Egypt, 2008.
- 4- "Developing Creative Thinking", Qassim University, KSA, 2013.
- 5- "Building achievement tests", Qassim University, KSA, 2013.
- 6- "Training of Trainers (TOT)", Qassim University, KSA, 2013.
- 7- "Achieving Learning Outcomes", Qassim University, KSA, 2014.
- 8- "The Publons Academy Practical Peer Review course", Publons Academy, 2020
- 9- "Training of Trainers (TOT) - Introductory Crash Course", The International Board of Certified Trainers (IBCT), 2021.
- 10- "D8 advance X-ray Powder Diffractometer", NRC and Advanced Biochemicals Company, 2021
- 11- "Certified Digital Citizen", NRC, 2021
- 12- "Key Performance Indicator Certification (KPIs)", Udemy, 2021

### **Scientific Associations and committees**

- 1- Egyptian Society of Materials Physics, Egypt
- 2- Egyptian Society of Polymer Science *and Technology*, Egypt
- 3- Occupational Safety and Health Committee, National Research Centre, 2021.
- 4- The International Association of the Arabic Language, Lebanon, 2021

### **Peer Reviews**

More than 110 peer reviews for international journals, (<https://tinyurl.com/yf9nwjc6>):

- 1- Journal of Materials Science: Materials in Electronics (36).
- 2- Journal of Inorganic and Organometallic Polymers and Materials (25)
- 3- Silicon (15)
- 4- Arabian Journal for Science and Engineering (8)
- 5- Physica B: Condensed Matter (8)
- 6- ECS Journal of Solid State Science and Technology (4)
- 7- Journal of Superconductivity and Novel Magnetism (2)
- 8- Materialia (2)
- 9- Materials Chemistry and Physics (2)
- 10- Egyptian Journal of Chemistry (2)
- 11- Global Journal of Earth Science and Engineering (1)
- 12- Journal of Materials Science and Metallurgy (1)

- 13- Journal of Physics and Chemistry of Solids (1)
- 14- Macromolecular Research (1)
- 15- Materials Today: Proceedings (1)

### **Editorial Board**

- 1- International Journal of Advanced Applied Physics Research.
- 2- Progress of Electrical and Electronic Engineering.
- 3- Journal of Advances in Physics.
- 4- Journal of Electronic Research and Application.
- 5- Electrical Science and Engineering.
- 6- SCIREA Journal of Materials.
- 7- Insight - Energy Science.
- 8- Journal of Electronics and Sensors.
- 9- Semiconductor Science and Information.
- 10- Organic Chemistry Plus.
- 11- Insight – Electronic.
- 12- American Journal of Biomedical Science and Research.
- 13- Global Journal of Earth Science and Engineering.
- 14- International Research Journal of Natural and Applied Sciences.
- 15- Current Electronics and Telecommunications.
- 16- Materials Physics and Chemistry.
- 17- International Journal of Magnetics and Electromagnetism.
- 18- Research International Journal of Physics and Mathematical Sciences.
- 19- Journal of Chemical Reactions and Catalysis Research (JCRC).
- 20- Online Journal of Materials Science.
- 21- Journal of Modern Polymer Chemistry and Materials

### **Computer skills**

Great knowledge and experience with hardware, operating systems, and all related problems. Also, excellent in data analysis, graphing, and familiar with most academic and scientific software.

### **Language skills**

- 1- *Arabic*: Native
- 2- *English*: Bilingual
- 3- *French*: Intermediate

### **References**

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- 3- Dr. Amany El Nahrawy, National Research Centre, Egypt, [amany\\_physics\\_1980@yahoo.com](mailto:amany_physics_1980@yahoo.com)
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