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Personal Data:

Name : Mohamed Shaaban Abdelwahab Hassan.
Date of Birth : 9/9/1980.
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(Number of research articles: 85; h-index: 21; citations: 1380)

Qualifications:

- Ph.D. degree in materials science and nanotechnology from Faculty of Postgraduate Studies for Advanced Sciences - Beni-Sueif University May 2017 under the title: -
"Preparation, Characterization and Photocatalytic Activity of Some Nanocrystalline Transition Metal Oxides Thin Films"
- MSc degree in physical chemistry in the field of nanomaterials and nanotechnology from Faculty of Science - Beni-Sueif University October 2008 under the title: -
"Preparation and characterization of nanocrystallite alloys by reduction of transition metal oxides"
- Bachelor's degree of science, Chemistry department, May 2003, Cairo University, Beni-Suef Branch (very good 78.8 %)

Experiences:

- 1- **Assistant Professor (23th Feb 2022 – until now)** Department of Materials Science and Nanotechnology, Faculty of Postgraduate Studies for Advanced Sciences, Beni-Suef University, Beni-Suef, Egypt.
- 2- **Assistant Professor (18th Aug 2019 – 3rd Feb 2022)** Center of Nanotechnology (CNT), King Abdul Aziz University, Jeddah, Saudi Arabia.
- 3- **Lecturer (12th Nov 2012 – 17th Aug 2019)** Center of Nanotechnology (CNT), King Abdul Aziz University, Jeddah, Saudi Arabia.
- 4- **I worked as a teaching assistant (1st Sept 2007 till 1st Jul 2009)** at Industrial Education College, Chemistry department, Beni-Suef University, Egypt.

Professional training/certifications:

- **Radio Frequency Deposition System** (Syskey Company, Taiwan)
- **Electron Beam Deposition System** (Syskey Company, Taiwan)
- **Low-Pressure Chemical Vapor Deposition** (Syskey Company, Taiwan)
- **Vertical Chemical Vapor Deposition** (Syskey Company, Taiwan)
- **Thermal Conductivity Analyzer** (Linseis, Germany)
- **Tribometer** (CSM Instruments, Switzerland)

Research projects activities:

- 1- A research project entitled " Investigate the structure, mechanical, and optical properties of a novel cadmium phosphate glass containing vanadium oxide" from A research project entitled from the deanship of scientific research (DSR) at King Abdulaziz University, Jeddah, Saudi Arabia (2022).
- 2- A research project entitled "Impact of samarium on the structural and physical properties of sputtered ZnO thin films" from KAU, Jeddah, Saudi Arabia (2021).
- 3- A research project entitled "Metals and ITO contact nature on ZnO and NiO thin films" from KAU, Jeddah, Saudi Arabia (2020).
- 4- A research project entitled " The structural and optoelectronic properties of $\text{Cu}_{1-x}\text{Ti}_x\text{O}$ ($0 \leq x \leq 0.05$) diodes prepared via a co-sputtering technique" from KAU, Jeddah, Saudi Arabia (2020).

- 5- A research project entitled "An investigation into the morphology and crystallization process of lithium borate glass containing vanadium oxide" from the Deputyship for Research & Innovation, Ministry of Education in Saudi Arabia (2020).
- 6- A research project entitled " The structure and optoelectronic characteristics of $\text{Ni}_{1-x}\text{Al}_x\text{O}$ films synthesized via co-sputtering technique" from KAU, Jeddah, Saudi Arabia (2019).
- 7- A research project entitled "Growth and correlation of the physical and structural properties of hexagonal nanocrystalline nickel oxide thin films with film thickness" from KAU, Jeddah, Saudi Arabia (2019).
- 8- A research project entitled "Influence the oxygen flow rate on the film thickness, structural, optical and photoluminescence behavior of DC sputtered NiO_x thin films" from KAU, Jeddah, Saudi Arabia (2018).
- 9- A research project entitled "Chemical state analysis, optical band gap, and photocatalytic decolorization of cobalt-doped ZnO nanospherical thin films by DC/RF sputtering technique" from Research Center for Advanced Material Science, King Khalid University, Saudi Arabia (2018).
- 10- A research project entitled "Microfibrous silver-coated polymeric scaffolds with tunable mechanical properties" from National Plan for Science, Technology and Innovation (MAARIFAH) – King Abdulaziz City for Science and Technology, Saudi Arabia (2017).
- 11- A research project entitled " Nanofibrous Silver-Coated Polymeric Scaffolds with Tunable Electrical Properties" from National Plan for Science, Technology and Innovation (MAARIFAH) – King Abdulaziz City for Science and Technology, Saudi Arabia (2017).
- 12- A research project entitled "Nanostructures as Lubricant Oil Additives" from KAU, Jeddah, Saudi Arabia (2016).
- 13- A research project entitled "Flow controlled fabrication of N doped ZnO thin films and estimation of their performance for sunlight photocatalytic decontamination of water" from KAU, Jeddah, Saudi Arabia (2015).

Application patent:

- 1- Numan Salah, **Mohamed Shaaban Abdel-wahab**, Adnan Memic, Ahmed Alshahrie, Mohamed Aslam, Method of removing organic pollutants from water using ball milled and sonicated oil fly ash powder , (U.S. Patent No 10/882,022, 2021).
- 2- Numan Salah, Adnan Memic, **Mohamed Shaaban Abdel-wahab**, Attieh A. Al-Ghamdi, Water treatment system and methods thereof, (U.S. Patent No 10/752,527, 2020).

Book chapter:

- 1- Mohammad Omaish Ansari, Rajeev Kumar, Shahid Pervez Ansari, **Mohamed Shaaban Abdel-wahab**, Ahmed Alshahrie, Mohamed Abou El-Fetough Barakat, Nanocarbon aerogel composites. In Nanocarbon and its Composites (pp. 1-26). Woodhead Publishing, Elsevier, 2019.
- 2- Mohammad Omaish Ansari, Sajid Ali Ansari, Moo Hwan Cho, Shahid Pervez Ansari, **Mohamed Shaaban Abdel-wahab**, Ahmed Alshahrie, Conducting Polymer Nanocomposites as Gas Sensors (pp. 911-940), Functional Polymers, Springer Link, 2019.
- 3- Asim Jilani, **Mohamed Shaaban Abdel-wahab**, Ahmed Hosny Hammad, Advance Deposition Techniques for Thin Film and Coating, In Modern Technologies for Creating the Thin-film Systems and Coatings, InTech, 2017.

Publications:

- 1- Ahmed H. Hammad, **M. Sh. Abdel-wahab**, Photocatalytic activity in nanostructured zinc oxide thin films doped with metallic copper, *Physica B: Physics of Condensed Matter* 646 (2022) 414352.
- 2- M.S. Aida, **M. Sh. Abdel-wahab**, Ahmed H. Hammad, Impact of Samarium on the Structural and Physical Properties of Sputtered ZnO Thin Films, *Optik* 250 (2022) 168322.
- 3- Salem D. Al Ghamdi, Ahmed Obaid M. Alzahrani, M. S. Aida, **M. Sh. Abdel-wahab**, Influence of substrate temperature and solution molarity on CuO thin films' properties prepared by spray pyrolysis, *Journal of Materials Science: Materials in Electronics* 33 (2022) 14702-14710.

- 4- Ahmed Alshahrie, A.A. Al-Ghamdi, **M. Sh. Abdel-wahab**, Waleed E. Mahmoud, The structure and optoelectronic characteristics of $\text{Ni}_{1-x}\text{Al}_x\text{O}$ films synthesized via co-sputtering technique, *Physica B* 626 (2022) 413575.
- 5- Fatma Abdel Samad, **M. Sh. Abdel-wahab**, Wael Z. Tawfik, Rozalina Zakaria, Venugopal Rao Soma, Tarek Mohamed, Investigating the influence of ITO thin film thickness on Optical Kerr Nonlinearity using Ultrashort Laser Pulses, *Journal of the Optical Society of America B* 39 (2022) 1388-1399.
- 6- Vanga Ganesh, Thekayat H. AlAbdulaal, Manal AlShadidi, Mai S. A. Hussien, Abdelfatteh Bouzidi, Hamed Algarni, Heba Y. Zahran, **M. Sh. Abdel-wahab**, Mervat I. Mohammed, Ibrahim S. Yahia, Enhancement in the structural, electrical, optical, and photocatalytic properties of La_2O_3 -doped ZnO nanostructures, *materials* 15 (2022) 6866.
- 7- Vanga Ganesh, Mai S.A. Hussien, Ummar Pasha Shaik, Ramesh Ade, Mervat I. Mohammed, T.H. AlAbdulaal, Heba Y. Zahran, Ibrahim S. Yahia, **M. Sh. Abdel-wahab**, Impact of Mo-Doping on the Structural, Optical, and Electrocatalytic Degradation of ZnO Nanoparticles: Novel Approach, *Crystals* 12 (2022) 1239.
- 8- F. El-Sayed, V. Ganesh, Mai S.A. Hussien, T.H. AlAbdulaal, H.Y. Zahran, I.S. Yahia, **M. Sh. Abdel-wahab**, Mohd Shakir, Yugandhar Bitla, Facile Synthesis of $\text{Y}_2\text{O}_3/\text{CuO}$ nanocomposites for photodegradation of dyes/mixed dyes under UV and Visible light irradiation, *Journal of Materials Research and Technology* 19 (2022) 4867-4880.
- 9- F. El-Sayed, Mai S. A. Hussien, T.H. AlAbdulaal, Abdel-Haleem Abdel-Aty, H.Y. Zahran, I.S. Yahia, **M. Sh. Abdel-wahab**, Essam H. Ibrahim, Medhat A. Ibrahim, Hanan Elhaes, Study of catalytic activity of G-SrO nanoparticles for degradation of cationic and anionic dye and comparative study photocatalytic and electro & photo-electrocatalytic of anionic dye degradation, *Journal of Materials Research and Technology* 20 (2022) 959-975.
- 10- Shaimaa Mohamed, Fatma Abdel Samad, Mohamed Ashour, **M. Sh. Abdel-wahab**, Wael Tawfik, Venugopal Rao Soma, and Tarek Hassan, Enhanced and

Tunable Femtosecond Nonlinear Optical Properties of Pure and Nickel-doped Zinc Oxide Films, *Applied Optics* 61(25) (2022) 7283-7291.

- 11- Hosam M. Gomaa, T. H. AlAbdulaal, I. S. Yahia, A. M. Ismail, M. I. Mohammed, H. Y. Zahran, Samer H. Zyoud, **M. Sh. Abdel-wahab**, Mohamed Zahran, Medhat A. Ibrahim, Exploring the Optical and Electrical Properties of 70%PVP/30%PVA Blend Polymer Doping with Graphene Thin Films For Optoelectronics Applications, *Journal of Electronic Materials* 51 (2022) 5897-5907.
- 12- T.H. AlAbdulaal, M. AlShadidi, Mai S. A. Hussien, G. Vanga, A. Bouzidi, H. Algarn, H.Y. Zahran, **M. Sh. Abdel-wahab**, I.S. Yahia, Dalia Elfiky, Mohammed Jalalah, Farid A. Harraz, M. S. Al-Assiri, One-pot Synthesis of Multifunctionalized Nd₂O₃ dispersed ZnO nanocomposites for enhancing Electrical, Optical, and Photocatalytic applications, *Journal of Materials Research and Technology* 19 (2022) 967-988.
- 13- Ahmed H. Hammad, **M. Sh. Abdel-wahab**, Sajith Vattamkandathil, An investigation into the morphology and crystallization process of lithium borate glass containing vanadium oxide, *Journal of Materials Research and Technology* 16 (2022) 1713-1731.
- 14- Ahmed H. Hammad, Essam B. Moustafa, **M. Sh. Abdel-wahab**, Waheed Sami AbuShanab, Ahmed R. Wassel, Investigate the structure, mechanical, and optical properties of a novel cadmium phosphate glass containing vanadium oxide, *Optik* 261 (2022) 169214.
- 15- **M. Sh. Abdel-wahab**, Ahmed H. Hammad, Impact of heat treatment on the physical properties of sputtered nickel oxide thin films containing molybdenum, *Journal of Ovonic Research* 18 (1) (2022) 1-10.
- 16- H. Y. Zahran, M. I . Mohammed, ElSayed Yousef, Mohammed S. Alqahtani, Manuela Reben, H. Algarni, Ahmad Umar, Hasan B. Albargi, I. S. Yahia, **M. Sh. Abdel-wahab**, Medhat A. Ibrahim, Radiation attenuation properties of the quaternary semiconducting compounds Cu₂CoGe[S, Se, Te]₄, *Results in Physics* 37 (2022) 105488.

- 17- Thekrayat H. AlAbdulaal, Vanga Ganesh, M. Alshadidi, Mai S. A. Hussien, A. Bouzidi, H. Algarni, Heba Y. Zahran, **M. Sh. Abdel-wahab**, Ibrahim S. Yahia, Samia Nasr, The Auto-Combustion Method to Incorporate Eu_2O_3 and Their Composite Nanostructured into the ZnO Matrix for Electronic and Photocatalytic Applications, *materials* 15 (2022) 357.
- 18- Fatma El-Sayed, Mai S. A. Hussien, Mervat I. Mohammed, Vanga Ganesh, Thekrayat H. AlAbdulaal, Heba Y. Zahran, Ibrahim S. Yahia, Hosam H. Hegazy, **M. Sh. Abdel-wahab**, Mohd. Shakir, Santiyagu Valarasu, Medhat A. Ibrahim, The Photocatalytic Performance of Nd_2O_3 Doped CuO Nanoparticles with Enhanced Methylene Blue Degradation: Synthesis, Characterization and Comparative Study, *nanomaterials* 12 (2022) 1060.
- 19- F. El-Sayed, Mai S. A. Hussien, T.H. AlAbdulaal, Ahmed Ismail, H.Y. Zahran, I.S. Yahia, **M. Sh. Abdel-wahab**, Y. Khairy, T.E. Ali, Medhat A. Ibrahim, Comparative Degradation Studies of Carmine Dye by Photocatalysis and Photoelectrochemical Oxidation Processes in the Presence of Graphene/N-Doped ZnO Nanostructures, *crystals* 12 (2022) 535.
- 20- Mai S.A. Hussien, A. Bouzidi, Hisham S.M. Abd-Rabboh, I.S. Yahia, H.Y. Zahran, **M. Sh. Abdel-wahab**, Walaa Alharbi, N.S. Awwad, Medhat A. Ibrahim, Fabrication and characterization of highly efficient as-synthesized $\text{WO}_3/\text{graphitic-C}_3\text{N}_4$ nanocomposite for photocatalytic degradation of organic compounds, *materials* 15 (2022) 2482.
- 21- Thekrayat AlAbdulaal, Manal AlShadidi, Mai Hussien, Vanga Ganesh, Abdel-Fatah Bouzidi, Saqib Rafique, Hamed Algarni, Heba Zahran, **Mohamed Shaaban Abdel-wahab**, Ibrahim Yahia, Multifunctional and smart $\text{Er}_2\text{O}_3\text{-ZnO}$ nanocomposites for electronic ceramic varistors and visible light degradation of wastewater treatment, *Environmental Science and Pollution Research* 19 (2022) 19109-19131.
- 22- Mohamed Ashour, **M. Sh. Abdel-wahab**, Abdullah Shehata, Wael Z. Tawfik, M.A. Azooz, Souad A. Elfeky, Tarek Mohamed, Experimental investigation of linear and third-order nonlinear optical properties of pure CuO thin film using femtosecond laser pulses, *Journal of the Optical Society of America B* 39 (2022) 508-518.

- 23- Ahmed Alshahrie, A.A. Al-Ghamdi, **M. Sh. Abdel-wahab**, Waleed E. Mahmoud, The structural and optoelectronic properties of $\text{Cu}_{1-x}\text{Ti}_x\text{O}$ ($0 \leq x \leq 0.05$) diodes prepared via a co-sputtering technique, *Micro and Nanostructures* 164 (2022) 107115.
- 24- Turdimuhammad Abdullah, Rayyan O. Qurban , **M. Sh. Abdel-wahab**, Numan A. Salah, Ammar AbdulGhani Melaibari, Mazin A. Zamzami, Adnan Memic, Development of Nanocoated Filaments for 3D Fused Deposition Modeling of Antibacterial and Antioxidant Materials, *Polymers* 14 (2022) 2645.
- 25- **M. Sh. Abdel-wahab**, Substrate temperature impact on the structural, optical and photo-catalytic activity of sputtered Cu-doped ZnO thin films, *Journal of Electronic Materials* 50 (2021) 4364-4372.
- 26- **M. Sh. Abdel-wahab**, Ahmed H. Hammad, Role of nickel in the phase change from nanocrystalline Cu_2O to CuO sputtered films and the formation of a metastable phase of Cu_4O_3 , *Materials Today Communications* 28 (2021) 102605.
- 27- **M. Sh. Abdel-wahab**, Asim Jilani, Ahmed Alshahrie, Ammar Melibary, Ahmed H. Hammad, Improvement the morphology, surface roughness, and some physical properties of sputtered CuO thin films by Si, *Optical and Quantum Electronics* 53 (2021) 374.
- 28- Mohammad Omaish Ansari, Rajeev Kumar, **M. Sh. Abdel-wahab**, Md Abu Taleb, M. A. Barakat, Direct current deposited NiO on polyaniline@MoS₂ flexible thin films for highly efficient solar light mineralization of 2-chlorophenol: A mechanistic analysis, *Journal of the Taiwan Institute of Chemical Engineers* 129 (2021) 370-380.
- 29- Essam B. Moustafa, Waheed Sami Abushanab, Ammar Melaibari, Anastasia V. Mikhaylovskaya, **Mohamed Shaaban Abdel-wahab**, Ahmed O. Mosleh, Nano-Surface Composite Coating Reinforced by Ta₂C, Al₂O₃ and MWCNTs Nanoparticles for Aluminum Base via FSP, *Coatings* 11 (2021) 1496.
- 30- Ahmed Obaid M. Alzahrani, **M. Sh. Abdel-wahab**, Meshari Alayash, M. S. Aida, Metals and ITO contact nature on ZnO and NiO thin films, *Brazilian Journal of Physics* 51 (2021) 1159-1165.

- 31- A. K. Alghamdi, H. Hjiri, A.M. Abdel-Daiem, **M. Sh. Abdel-wahab**, H. Besbes, M.S. Aida, ZnO Nanorods growth via green chemistry using wormwood (*Artemisia*), *Applied Physics A* 127 (2021) 489.
- 32- T.H.AlAbdulaa, H. Elhosiny Ali, V.Ganesh, A.M.Aboraia, Yasmin Khairy, H.H.Hegazy, Alexander V.Soldatov, H.Y.Zahran, **M. Sh. Abdel-wahab**, I.S.Yahia, Investigating NaIO₃ doped PVA Polymeric Nanocomposites via the Structural Morphology and Linear and Nonlinear Optical Analysis: For Optoelectronic Systems, *Optik* 245 (2021) 167724.
- 33- TH AlAbdulaal, H Elhosiny Ali, V Ganesh, AM Aboraia, Yasmin Khairy, Hosameldin Hegazy, V Alexander V Soldatov, HY Zahran, **M. Sh. Abdel-wahab**, I.S. Yahia, Investigating the structural morphology, linear/nonlinear optical characteristics of Nd₂O₃ doped PVA polymeric composite films: Kramers-Kronig approach, *Physica Scripta* 96 (2021) 125831.
- 34- T.H. AlAbdulaal, M. AlShadidi, Mai S. A. Hussien, G. Vanga, A. Bouzidi, Saqib Rafique, H. Algarni¹, H.Y. Zahran, **M. Sh. Abdel-wahab**, I.S. Yahia, Enhancing the electrical, optical, and structure morphology using Pr₂O₃-ZnO nanocomposites: Towards electronic varistors and environmental photocatalytic activity, *Journal of Photochemistry & Photobiology, A: Chemistry* 418 (2021) 113399.
- 35- Akhalakur Rahman Ansari, Umair Ahmed Rajput, Mohd. Imran, Mohammad Shariq, **M. Sh. Abdel-wahab**, Ahmed H. Hammad, Impact of the microwave power on the structural and optical properties of nanocrystalline nickel oxide thin films, *Brazilian Journal of Physics* 51 (2021) 499–506.
- 36- Syeda Tasmia Asma, Mohsin Raza Dustgeer, Asim Jilani, Syed Zajif Hussain, Javed Iqbal, **M. Sh. Abdel-wahab**, Reem Darwesh, Synthesis and characterization of a novel single-phase sputtered Cu₂O thin films: Structural, antibacterial activity and photocatalytic degradation of methylene blue, *Inorganic Chemistry Communications* 128 (2021) 108606.
- 37- Ahmed H. Hammad, **M. Sh. Abdel-wahab**, Asim Jilani, Characterization of niobium doped zinc oxide thin films: Structural changes and optical properties, *Materials Today Communications* 26 (2021) 101791.

- 38- **M. Sh. Abdel-wahab**, Ahmed R. Wassel, Ahmed H. Hammad, Characterization of CuZnO nanocomposite thin films prepared from CuO–ZnO sputtered films, *Journal of Electronic Materials* 49 (12) (2020) 7179-7186.
- 39- Enas N. Danial, M.Hjiri, **M. Sh. Abdel-wahab**, N.H Alonizan, M. El Mir, M.S Aida, Antibacterial activity of In doped ZnO nanoparticles, *Inorganic Chemistry Communications* 122 (2020) 108281.
- 40- Akhalakur Rahman Ansari, Ahmed H Hammad, **M. Sh. Abdel-wahab**, Mohammad Shariq, Mohd Imran, Structural, optical and photoluminescence investigations of nanocrystalline CuO thin films at different microwave powers, *Optical and Quantum Electronics* 52 (10) (2020) 1-16.
- 41- Ahmed Alshahrie, A.A. Al-Ghamdi, **M. Sh. Abdel-wahab**, L.M. Bronstein, Synthesis and optical characterization of multi-emission Ni_xYb_{1-x}O photonic semiconducting quantum dots prepared using hydrothermal approach for nano-optical colored amplifiers and light emitting diodes, *Optik* 208 (2020) 164541.
- 42- Ahmed H. Hammad, **M. Sh. Abdel-wahab**, Sajith Vattamkandathil, Akhalakur Rahman Ansari, Growth and correlation of the physical and structural properties of hexagonal nanocrystalline nickel oxide thin films with film thickness, *Coatings* 9 (2019) 615.
- 43- Ahmed H. Hammad, **M. Sh. Abdel-wahab**, Sajith Vattamkandathil, Akhalakur Rahman Ansari, Influence the oxygen flow rate on the film thickness, structural, optical and photoluminescence behavior of DC sputtered NiO_x thin films, *Physica B* 568 (2019) 6-12.
- 44- U Saeed, **M. Sh. Abdel-wahab**, Sajith Vattamkandathil, M S Ansari, A M Ali, H A Al-Turaif, Characterization of an amorphous indium tin oxide (ITO) film on a polylactic acid (PLA) substrate, *Bulletin of Materials Science* 42 (2019) 175.
- 45- Mohammad Omaish Ansari, Rajeev Kumar, Ahmed Alshahrie, **Mohamed Shaaban Abdel-wahab**, Vattam Kandathil Sajith, Mohammad Shahnawaze Ansari, Asim Jilani, M.A. Barakat, Reem Darwesh, CuO sputtered flexible polyaniline@graphene thin films:A recyclable photocatalyst with enhanced electrical properties, *Composites Part B: Engineering* 175 (2019) 107092.

- 46- Asim Jilani, Mohd Hafiz Dzarfan Othman, Mohammad Omaish Ansari, Mohammad Oves, Syed Zajif Hussain, Imran Ullah Khan, **M. Sh. Abdel-wahab**, Structural and optical characteristics, and bacterial decolonization studies on non-reactive RF sputtered Cu-ZnO@ graphene based nanoparticles thin films, *Journal of Materials Science* 54 (2019) 6515-6529.
- 47- Wael Z. Tawfik, Zaki S. Khalifa, **M. Sh. Abdel-wahab**, Ahmed H. Hammad, Sputtered cobalt doped CuO nano-structured thin films for photoconductive sensors, *Journal of Materials Science: Materials in Electronics* 30(2019) 1275-1281.
- 48- Numan Salah, Ahmed Alshahrie, Najlaa D. Alharbi, **M. Sh. Abdel-wahab**, Zishan H. Khan, Nano and micro structures produced from carbon rich fly ash as effective lubricant additives for 150SN base oil, *Journal of Materials Research and Technology* 8 (2019) 250-258.
- 49- **M. Sh. Abdel-wahab**, Asim Jilani, A. Alshahrie, Ahmed H. Hammad, Impact of titanium ions in the hexagonal nanostructured ZnO thin films, *Journal of Materials Science: Materials in Electronics* 29 (2018) 3056-3065.
- 50- Ahmed H. Hammad, **M. Sh. Abdel-wahab**, Sajith Vattamkandathil, Akhalakur Rahman Ansari, Structural and optical properties of ZnO thin films prepared by RF sputtering at different thicknesses, *Physica B* 540 (2018) 1-8.
- 51- Asim Jilani, Mohd Hafiz Dzarfan Othman, Mohammad Omaish Ansari, Rajeev Kumar, Imran Ullah Khan, **M. Sh. Abdel-wahab**, Ahmed Alshahrie, M. A. Barakat, Tonni Agustiono Kurniawan, Structural, optical, and photocatalytic investigation of nickel oxide@graphene oxide nanocomposite thin films by RF magnetron sputtering, *Journal of Materials Science* 53 (2018) 15034-15050.
- 52- Ahmed Obaid M. Alzahrani, **M. Sh. Abdel-wahab**, Meshari Alayash, M. S. Aida, Effect of ZnO layer thickness upon optoelectrical properties of NiO/ZnO heterojunction prepared at room temperature, *Journal of Materials Science: Materials in Electronics* 29 (2018) 16317-16324.
- 53- Ahmed H. Hammad, **M. Sh. Abdel-wahab**, Investigation the phase transformation of sputtered molybdenum oxide thin films and their correlation with the film thickness, *Optik* 154 (2018) 777-784.

- 54- Akhalakur Rahman Ansari, Shahir Hussain, Mohd. Imran, **M. Sh. Abdel-wahab**, Ahmed Alshahrie, Synthesis, characterization and oxidation of metallic cobalt (Co) thin film into semiconducting cobalt oxide (Co₃O₄) thin film using microwave plasma CVD, *Materials Research Express* 5 (2018) 065003.
- 55- Akhalakur Rahman Ansari, Mohd. Imran, I.S. Yahia, **M. Sh. Abdel-wahab**, Ahmed Alshahrie, Afzal Husain Khan, Chandan Sharma, Effect of microwave power on morphology of AgO thin film grown using microwave plasma CVD, *International Journal of Surface Science and Engineering* 12 (1) (2018) 1-12.
- 56- Asim Jilani, **M. Sh. Abdel-wahab**, H.Y. Zahran, I.S. Yahia, Attieh A. Al-Ghamdi, Ahmed Alshahrie, A.M. El-Naggar, Chemical state analysis, optical band gap, and photocatalytic decolorization of cobalt-doped ZnO nanospherical thin films by DC/RF sputtering technique, *Optik* 164 (2018) 143-154.
- 57- Waleed M.A. El Roubay, Attieh A. Al-Ghamdi, **M. Sh. Abdel-wahab**, Asim Jilani, Sunlight-enhanced catalytic degradation over Ag/CuO nanoparticles thin films prepared by DC/RF sputtering technique, *Bulletin of Materials Science* (2018)41:58.
- 58- Asim Jilani, I.S. Yahia, **M. Sh. Abdel-wahab**, Attieh A. Al-ghamdi, Haya Alhumminay, Novel control of the synthesis and band gap of zinc aluminate (ZnAl₂O₄) by using DC/RF sputtering technique, *Silicon* 10 (2018) 1217-1223.
- 59- D.M. Alsebaie, W. Shirbeeney, A. Alshahrie, **M. Sh. Abdel-wahab**, Ellipsometric Study of Optical Properties of Sm-doped ZnO Thin Films Co-deposited by RF-Magnetron Sputtering, *Optik* 148 (2017) 172-180.
- 60- Numan Salah, Ahmed Alshahrie, **M. Sh. Abdel-wahab**, Najlaa D. Alharbi, Zishan H. Khan, Carbon nanotubes of oil fly ash integrated with ultrathin CuO nanosheets as effective lubricant additives, *Diamond and Related Materials* 78 (2017) 97-104.
- 61- Ali Tamayol, Alireza Hassani Najafabadi, Pooria Mostafalu, Ali Yetisen, Mattia Comotto, Musab Aldahri, **Mohamed Shaaban Abdel-wahab**, et.al, Biodegradable elastic nanofibrous platforms with integrated flexible heaters for on-demand drug delivery, *Scientific Reports* 7(9220) (2017) 1-10.

- 62- Numan Salah, **M. Sh. Abdel-wahab**, Ahmed Alshahrie, Najlaa D. Alharbi, Zishan H. Khan, Carbon nanotubes of oil fly ash as lubricant additives for different base oils and their tribology performance, *RSC Advances* 7 (2017) 40295-40302 .
- 63- Asim Jilani, **M. Sh. Abdel-wahab**, Sajith VK, Ahmed Alshahrie, Sputtered CuO mono-phase thin films: structural, compositional and spectroscopic linear/nonlinear optical characteristics, *Optik* 144 (2017) 207-218.
- 64- Parvathalu Kalakonda, Musab A. Aldhahri, **Mohamed Shaaban Abdel-wahab**, Ali Tamayol ,et.al, Microfibrous Silver-coated Polymeric Scaffolds with Tunable Mechanical Properties, *RSC Advances* 7 (2017) 34331-34338.
- 65- Adnan Memic, Musab Aldhahri, Ali Tamayol, Pooria Mostafalu, **Mohamed Shaaban Abdel-wahab**, et.al, Nanofibrous Silver-Coated Polymeric Scaffolds with Tunable Electrical Properties, *nanomaterials* 7 (3) (2017) 63.
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