



CURRICULUM VITAE



NAME: Mahmoud Sayed Abd El-sadek

NATIONALITY

Egyptian

DATE OF BIRTH

8/9/1978

PLACE OF BIRTH

El- Edesat Qebly, Luxor, Egypt

MARITAL STATUS

Married

CURRENT EMPLOYMENT

Professor

POSTAL ADDRESS

Nanomaterial Laboratory,

Physics Department,

Faculty of Science,

South Valley University,

Qena-83523, Egypt

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LANGUAGES

Arabic (Mother Language) and English

EMAIL ADDRESS

mahmoud.abdelsadek@sci.svu.edu.eg

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SCIENTIFIC AND TECHNICAL ACHIEVEMENTS

h-index	Citations	Total no. of Int. publications in Scopus Citations (Author ID: 34871297400)
18	1058	65
h-index	Citations	Total no. of Int. publications in Google Scholar Citations
20	1390	78

ACADEMIC DEGREES

- ❖ **Ph.D., (December 2009)** in physics, titled “**Synthesis and Characterization of CdTe and CdTe-related (Core-Shell) Nanocrystals**” from Crystal Growth Centre, Anna university Chennai, Chennai-600025, Tamil Nadu-India.
- ❖ **Master Degree (December 2004)** in physics, titled “**Crystal Growth and Study of Some Physical Properties of Bi₂Te₃ and Bi₂S₃ Single Crystals**” from Physics Department, Faculty of Science, South Valley University, Qena-Egypt.
- ❖ **B.Sc., Physics (July 1999)** with grade very good, Physics Department, Faculty of Science, South Valley University, Qena-Egypt.

PREVIOUS AND CURRENT PROFESSIONAL POSITIONS

International

1. South Valley University Coordinator of the project titled “**MEDiterranean Countries: Towards Internationalisation at Home / MED2IaH**” funded by Erasmus + programme EAC-A03-2018 Call for Proposals, from January 2020 Till January 2023.
2. South Valley University Coordinator of the project titled “**Climate Change Management through Mitigation and Adaptation (AdapTM)**” funded by Erasmus + programme Call EAC/A03/2016 Call for Proposals, from October 2017 Till July 2021.

3. South Valley University Coordinator of the project titled “**Innovation for the Leather Industry in Jordan and Egypt (INNOLEA)**” funded by Erasmus + programme Call EAC/A03/2016 Call for Proposals, from October 2017 Till April 2021.
4. South Valley University Coordinator of the project titled “**Excellence in Nanoscience Education for the MENA Region (XNEM)**” funded by the Tempus IV–6th Call for Proposals, from October 2013 Till Nov. 2017.
5. Postdoctoral Fellow in a research project titled “**Studies of the Optical and Electrical Properties of Low-Dimensional Semiconductor Nanostructures and Devices**”, School of Physics & Astronomy and Nottingham Nanotechnology and Nanoscience Centre (NNSC), **The University of Nottingham, Nottingham, UK**, From June 2013 To Sep. 2013.
6. South Valley University Coordinator of the project titled “**Solar Energy System Design using Advanced Learning Aids (SOLEDA)**” funded by the Tempus IV–5th Call for Proposals, from October 2012 To July 2016.
7. Scientific Consultant of the project titled “**Highly Efficient Quantum Dots Sensitized Solar Cells (QDSSCs) Based on Nano-Metal Oxide Semiconductors**” funded by Science, Technology and Innovation (KACST), P. Investigator Dr. W. Aslam Farooq, Physics and Astronomy Department, **King Saud University, Riyadh, KSA.**, From October 2011 Till 2013.
8. Postdoctoral Fellow in a research project titled “**Colloidal Semiconductor Quantum Dots for Solar Energy**”, Department of Chemical Physics, Lund University, P.O. Box 124, SE-22100 **Lund, Sweden.**, From August 2010 To June 2011.
9. Research Scholar, Crystal Growth Centre, **Anna University, Chennai-25, Tamil Nadu-India.**, From Jan. 2006 Till Dec. 2009.

National

1. **Vice-dean for for Post Graduate and Research Affairs, Faculty of Science, South Valley**, South Valley University, From 9 March 2022 till Now.
2. **Professor in Material Science**, Physics Department, Faculty of Science, South Valley University, Qena-Egypt., From Feb. 2021 Till Now.
3. **Vice-dean for Education and Student Affairs**, Faculty of Oral and Dental Medicine, South Valley University, From 28 November 2018 till 31 January 2021.
4. **National Committee for New Materials Technology member**, Academy of Scientific Research And Technology (ASRT), From October 2018 till Now.
5. **Egyptian Young Academy of Science (EYAS) member**, Academy of Scientific Research And Technology (ASRT), From January 2018 till January 2021.
6. **Research Fellow**, Egypt Nanotechnology Center (EGNC), Cairo University, El-Sheikh Zayed Campus, Egypt, From October 2016 Till October 2018.
7. South Valley University Coordinator of the project titled “**Children’s University**” funded by Academy of Scientific Research And Technology (ASRT), From August 2015 Till Now.
8. **Associate Professor in Material Physics**, Physics Department, Faculty of Science, South Valley University, Qena-Egypt., From Oct. 2015 Till January 2021.
9. Director of Environmental and Productivity Services Center, South Valley University, Qena-Egypt, From May 2014 Till April 2018.
10. Focal Point of RDI Program and European Union Projects in South Valley University, Qena-Egypt, From May 2012 Till Now.
11. General Coordinator of student activities in South Valley University, Qena-Egypt, From May 2012 Till Sep. 2017.
12. Scientific Counselor and Technology at South Valley University, Qena-Egypt., From January 2012 Till Sep. 2017.
13. Member of the Board of Trustees Abdullah al-Qurashi Primary School Qena-Egypt, from September 2011 Till September 2016.

14. Director of Research and Scientific Publications Centre (RSPC), Faculty of Science, South Valley University, Qena-Egypt., From August 2011 Till April 2012.
15. Vice-Executive Director of Continuous Improvement and Qualifying for Accreditation Project (CIQAP), Faculty of Science, South Valley University, Qena-Egypt., From July 2011 To April 2012.
16. Member of Quality Assurance Unit at Faculty of Science, South Valley University, Qena-Egypt., From July 2011 To April 2012.
17. Quality Management Project Coordinator, Department of Physics - Faculty of Science, Qena - South Valley University., From June 2011 Till Sep. 2015.
18. Lecturer of Solid State Physics, Physics Department, Faculty of Science, South Valley University, Qena-Egypt., From May 2010 Till Oct.2015.
19. Assistant Lecturer, Physics Department, Faculty of Science, South Valley University, Qena-Egypt., From Dec. 2004 Till May 2010.
20. Demonstrator, Physics Department, Faculty of Science, South Valley University, Qena-Egypt., From Feb. 2000 To Dec. 2004.

AWARDS, PRIZES AND GRANTS

1. **Scientific Publication Prize (2021)** from South Valley University for **six** papers published in international journals.
2. **Scientific Publication Prize (2020)** from South Valley University for **nine** papers published in international journals.
3. **Scientific Publication Prize (2019)** from South Valley University for **nine** papers published in international journals.
4. **Scientific Publication Prize (2018)** from South Valley University for **seven** papers published in international journals.
5. **Scientific Publication Prize (2017)** from South Valley University for **nine** papers published in international journals.
6. **Scientific Publication Prize (2016)** from South Valley University for **two** papers published in international journals.
7. **Scientific Publication Prize (2015)** from South Valley University for **four** papers published in international journals.
8. **Incentive Award in Basic Science from South Valley University (2014).**
9. **Scientific Publication Prize (2014)** from South Valley University for **three** papers published in international journals.
10. **Scientific Publication Prize (2013)** from South Valley University for **eight** papers published in international journals.
11. **Parowan 1210 cycle Fellowship** sponsored by the Ministry of Higher Education, Egyptian Government, for Post-doc position at Department of Physics, Nottingham University, UK., From June 2013 Till September 2013.
12. **Scientific Publication Prize (2012)** from South Valley University for **five** papers published in international journals.
13. **Scientific Publication Prize (2011)** from South Valley University for **six** papers published in international journals.
14. **Erasmus Mundus Fellowship** funded by European Union for Post-doc position at Department of Chemical Physics, Lund University, P.O. Box 124, SE-22100 Lund, Sweden., From August 2010 Till June 2011.
15. **Scientific Publication Prize (2010)** from South Valley University for **four** papers published in international journals.
16. **ICCR Fellowship Grant** sponsored by the Government of India through Indo-Egyptian exchange program to study Ph.D in Physics, Crystal Growth Centre, Anna University, Chennai-25, India., from December 2005 to December 2009.

17. First in the university level during B.Sc. (Physics), July 1999.

EXPERIENCES

- ✓ Growth of Single Crystals (Semiconductor Materials) by Bridgman Technique, Czochralski Technique and Chemical Vapor Deposition (CVD), .. etc.
- ✓ Measurements of the electrical conductivity and Hall coefficient.
- ✓ Measurements of the thermoelectrical power.
- ✓ Study of Switching Phenomena.
- ✓ Measurements of Photoconductivity.
- ✓ Preparation of Semiconductor and Metallic Nanoparticles by Physical and Chemical methods.
- ✓ Training at the Inter University Accelerator Center (IUAC) New Delhi, India (Formerly Nuclear Science Center (NSC)) during 15th – 30th May 2006.
- ✓ Preparation of Nano-Crystalline Thin Films by Thermal Evaporation,, E-beam Evaporation, and Spin Coating System for Solar Cell Applications.
- ✓ Structural Properties by X-ray Diffraction System and EDAX Analysis.
- ✓ Microscopy Techniques including high-resolution TEM, SEM and Scanning Probe Microscopy Techniques such as, AFM and STM.
- ✓ Optical Properties such as, UV-Visible Absorption and Fluorescence Spectroscopy.
- ✓ Thermal Analysis Techniques such as, TGA/DTA and DSC.
- ✓ Spectroscopic Techniques such as, FT-IR and Raman Spectroscopy.
- ✓ Electron paramagnetic Resonance (EPR) Analysis.
- ✓ Time-resolved pump-probe spectroscopy.

COMPUTER SKILLS

- ❖ Familiar with all windows OS and office packages.
- ❖ Familiar with origin packages for statistical processing.
- ❖ Hardware maintains of both Desktops and laptops.
- ❖ Familiar with computer programming using Visual Basic.

RESEARCH INTEREST

Solid State Physics, Semiconductors Materials, Crystal growth, Single Crystals, The synthesis and Characterization of Semiconductor and Metallic Nanocrystals and Their Nanomaterials Applications in Solar Cell, Catalysis, Biosensors, Biological Labels.

TRAINING COURSES (TRAINEE)

- 1- Training Course on ‘**Effective Presentation**’ for the Egyptian Universities staff members 2012, 6-8 January, South Valley University, Qena, Egypt.
- 2- Training Course on ‘**Meeting and Time Management**’ for the Egyptian Universities staff members 2011, 20-22 August, South Valley University, Qena, Egypt.
- 3- Training Course on ‘**Examination Systems And Student Assessment**’ for the Egyptian Universities staff members 2010, 23-25 May, South Valley University, Qena, Egypt.
- 4- Training Course on ‘**University Administration**’ for the Egyptian Universities staff members 2010, 16-18 May, South Valley University, Qena, Egypt.
- 5- Training Course on ‘**Research Team Management**’ for the Egyptian Universities staff members 2010, 9-11 May, South Valley University, Qena, Egypt.
- 6- Training Course on ‘**The Financial and Legal Aspects of Business In University**’ for the Egyptian Universities staff members 2010, 21-23 February, South Valley University, Qena, Egypt

- 7- Training Course on **‘Effective Communication Skills’** for the Egyptian Universities staff members 2005, 7-10 November, South Valley University, Qena, Egypt.
- 8- Training Course on **‘Scientific Research Methods’** for the Egyptian Universities staff members 2004, 5-8 October, South Valley University, Qena, Egypt.
- 9- Training courses in the field of Information and Communication Technology Project (ICTP) South Valley University, Qena, Egypt.
 - 1) **Using computers and managing files.**
 - 2) **Information and communication.**
 - 3) **Graphics Adobe Photoshop.**
 - 4) **Statistical Analysis using SPSS.**
 - 5) **Word Processing.**
 - 6) **Introduction to PC Maintenance and Protection.**
 - 7) **Advance Word Processing.**

TRAINING COURSES (TRAINER)

- 1- Training Course on **‘Nanotechnology Lecture’** for the the South Valley University staff members and students 2011, 20 December, Research and Scientific Publications Centre (RSPC), Faculty of Science, South Valley University, Qena, Egypt.
- 2- Training Course on **‘Powerpoint Processing’** for the South Valley University employers 2011,10-14 August, Training Center and Information Technology, South Valley University, Qena, Egypt
- 3- Training Course on **‘Scientific Research Skills’** for the South Valley University students 2011 July, The Ministry of Higher Education and South Valley University, Qena, Egypt.
- 4- Training Course on **‘Scientific Research Skills’** for the South Valley University students 2010 July, The Ministry of Higher Education and South Valley University, Qena, Egypt.
Training Course on **‘Word Processing’** for the South Valley University employers 2010, 13-17 May, Training Center and Information Technology, South Valley University, Qena, Egypt.

COURSES AND WORKSHOPS

M.Sc Courses

- | | |
|----------------------|-------------------------------------|
| 1. Semiconductor | 2. Thin Films |
| 3. Crystal Structure | 4. Superconductivity |
| 5. Crystal Growth | 6. Experimental Solid State Physics |
| 7. Practical Physics | |

Ph.D Courses

1. Crystal Growth Theory
2. Crystal Growth Experimental Techniques
3. Semiconductor Devices
4. Nanomaterial and Nanotechnology

Teaching Courses

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|---|--------------------------------------|
| 1- Nanomaterial and Nanotechnology | 2- Semiconductor Physics |
| 3- Electricity and Magnetism | 4- Electronic Circuits |
| 5- Electricity and Alternating Current | 6- Physical Electronics |
| 7- Physics of Sound | 8- Logic and Digital Circuits |
| 9- Integrated Circuits | 10- Advanced integrated circuits |
| 11- Atomic Physics | 12- Crystal Growth |
| 13- Physical Optics | 14- Optoelectronic |
| 15- Material Properties | 16- Experimental Solid State Physics |
| 17- Heat and Thermodynamics | 18- Geometrical Light |
| 19- Scientific Research and Methodology | |

Workshops

- 1- “International Workshop on Crystal Growth & Characterisation of Advanced Materials”, 9th – 13th January 2006, Organized by Crystal Growth Centre, Anna University, Chennai-600025, Tamil Nadu, India.
- 2- “Awareness Program on Nanoscience and Technology”, 19th - 20th September 2007, Organized by Centre of Nanoscience and Technology & Crystal Growth Centre, Anna University, Chennai-600025, Tamil Nadu, India.
- 3- “Workshop on Nanostructured Materials (In honour of Prof. Dr.S. Ramasamy) ”, 4th - 5th July 2008, Organized by Department of Nuclear Physics, University of Madras, Guindy Campus, Chennai-600025, Tamil Nadu, India.
- 4- One day Workshop on 7th July 2008 conducted by SOPHISTICATED ANALYTICAL INSTRUMENT FACILITY, IITM, CHENNAI on UV-VIS-NIR / FLUORESCENCE / LIFE TIME SCAN, Organized by SAIF, INDIAN INSTITUTE OF TECHNOLOGY MADRAS, Chennai-600036, Tamil Nadu, India.
- 5- One day Workshop on 12th November 2008 conducted by SOPHISTICATED ANALYTICAL INSTRUMENT FACILITY, IITM, CHENNAI on Instrumentation and Applications of TGA-DTA & DSC, Organized by SAIF, INDIAN INSTITUTE OF TECHNOLOGY MADRAS, Chennai-600036, Tamil Nadu, India.
- 6- “Indo-US Workshop on Visible and Ultraviolet Sources for Solid State Lighting & Water Purification”, 5th - 7th January 2009, Organized by Crystal Growth Centre, Anna University, Chennai-600025, Tamil Nadu, India.
- 7- **“Development of CdTe Nanocomposites and Their Characterization”**
S. Moorthy Babu, **M. S. Abd El-sadek** and J. Ram kumar
“International Workshop on Advances in Nano Science and Technology”, 28th – 30th October 2009, Organized by ICTP, Trieste, Italy and Crystal Growth Centre & Centre of International Affairs & Centre of Nanoscience and Technology & Department of Physics, Anna University, Chennai-600025, Tamil Nadu, India.
- 8- “US-Egypt Advanced Studies Institute, Nanomaterials and Nanocatalysis for Energy, Petrochemicals and Environmental Applications”, 28th March – 5th April 2010, Organized by National Research Centre, Cairo-Egypt and National Science Foundation, USA.
- 9- “Nano-Safety Symposium and Annual Meeting”, 14th October 2010, Organized by AF-Borgen, nm@LU, Lund University, Lund, Sweden.
- 10- **“Synthesis and Characterization of Nanocomposites and Their Applications”**
M. S. Abd El-sadek
One day Workshop on 20th December 2011 “Nanotechnology and its applications” Organized by South Valley University, Qena-Egypt and The Egyptian Materials Research Society (Eg-MRS), Cairo-Egypt.

MEMBERSHIPS

- 1- National Committee for New Materials Technology (NCNMT)
- 2- Egyptian Young Academy of Sciences (EYAS)
- 3- American Nano Society (ANS).
- 4- The Egyptian Materials Research Society (Eg-MRS).
- 5- The International NanoScience Community (TINC).
- 6- Arab Materials Science and Nanotechnology Network (AMSN).
- 7- Egyptian Nanotechnology Network (ENN).

RESEARCH GUIDANCE

- 1- M.Sc (2012-2019), thesis title "**Removal of Some Inorganic Pollutants from Drinking Water Using Nanomaterials Photocatalyst**" (**Completed**- Chemistry Department, Faculty of Science, Aswan University).

- 2- Ph.D (2012-2017), thesis title "**Synthesis and Characterization of Nanomaterials to be used as Indicators of Environmental Detection of Some Inorganic Pollutants in Industrial Wastewater at Aswan**" (**Completed**- Chemistry Department, Faculty of Science, Aswan University).
- 3- M.Sc (2012-2015), thesis title "**Effect of Gamma Radiation Exposure on Physical Properties of Nano-materials Thin Films**" (**Completed**- Faculty of Science, Physics Department, Al-Azhar University, Assiut Branch).
- 4- Ph.D (2012-2014), thesis title "**Studying treatment and conservation of Coptic mural paintings in Nubian Applied Study to one of the selected Sites**" (**Completed**-Faculty of Archaeology - Cairo University).
- 5- Ph.D (2011-2014), thesis title "**Preparation and Characterization of Nanocomposites Based on Ionizing Radiation for Environmental Applications**" (**Completed**- Chemistry Department, Faculty of Science, South Valley University).
- 6- M.Sc project (Lund University, 2011-2012) thesis title "**Synthesis and Characterization of Lead Sulfide Quantum Dots**" (**Completed**- Department of Chemical Physics, Lund University, Lund, Sweden).
- 7- M.Sc (2010-2012) thesis title "**Synthesis, Characterization and Photocatalytic Activity of TiO₂ Nanoparticles**" (**Completed**- Chemistry Department, Faculty of Science, South Valley University).

REFEREES FOR INTERNATIONAL JOURNALS AND Ph.D THESIS

- 1- Journal of Solid State Chemistry (One Paper).
- 2- Science of Advanced Materials (One Paper).
- 3- Materials Science and Engineering B (Three Papers).
- 4- Journal of Alloys and Compounds (One Paper).
- 5- Superlattices and Microstructures (One Paper).
- 6- Science Journal of Physics (One Paper).
- 7- Nanoscale Research Letters (One Paper).
- 8- Journal of Chemical Engineering and Materials Science (JCEMS) (Two Papers).
- 9- NANO Brief Reports and Reviews (One Paper).
- 10- Optics & Laser Technology (9 Papers).
- 11- Materials Chemistry and Physics (One Paper).
- 12- Applied Physics A Materials: Science & Processing (One Paper).
- 13- Arabian Journal of Chemistry (One Paper).
- 14- Ph.D thesis title "**Effect of Solvents, surfactants and Dopant on the Size, Morphology and Optical Properties of Zinc Oxide, Zinc Sulphide and Cadmium Sulphide Semiconductor Nanomaterials**" Presidency College (Autonomous), University of Madars, Chennai, India (February 2012).
- 15- Ph.D thesis title "**Spectral and Thermal Characterization of Some Tetrabutylammonium Tetrabromo Transition Metal Complex Crystals**" Department of Chemistry Sri Ramakrishna Mission Vidyalaya College of Arts and Science, Coimbatore, India (October 2011).

PUBLICATIONS

International Journals

1. "**Transport Properties of Bi₂S₃ Single Crystals**"
H. T. Shaban, M. M. Nassary, and **M. S. El-sadek**
Physica B : Condensed Matter, (2008), Vol. 403, pp. 1655-1659.
2. "**Semiconductor Parameters of Bi₂Te₃ Single Crystal**"
M. M. Nassary, H. T. Shaban, and **M. S. El-sadek**
Materials Chemistry and Physics, (2009), Vol. 113, pp. 385-389.

3. **“Optical Properties of Thiol-Stabilized CdTe Nanoparticles”**
M. S. Abd El-sadek, J. Ram kumar, and S. Moorthy Babu
International Journal of Nanoparticles, (2009), Vol. 2, pp. 20-29.
4. **“The role of Potassium Tellurite as Tellurium Source in Mercaptoacetic-Acid-Capped CdTe Nanoparticles”**
M. S. Abd El-sadek, J. Ram kumar, and S. Moorthy Babu
Current Applied Physics, (2010), Vol. 10, pp. 317-322.
5. **“Selective Synthesis and Characterization of CdTe@Mn(OH)₂ (Core-Shell) Composite Nanoparticles”**
M. S. Abd El-sadek, J. Ram Kumar, S. Moorthy Babu, and
M. Salim El-Hamidy
Journal of Alloys and Compounds, (2010), Vol. 496, pp. 589-594.
6. **“Synthesis and Optical Characterization of Nanocrystalline CdTe Thin Films”**
A.A. Al-Ghamdi, Shamshad A. Khan, A. Nagat, and M.S. Abd El-Sadek
Optics & Laser Technology, (2010), Vol. 42, pp. 1181-1186.
Top 25 Hottest Articles
Physics and Astronomy > Optics & Laser Technology
July to September 2010 (<http://top25.sciencedirect.com/subject/physics-and-astronomy/21/journal/optics-laser-technology/00303992/archive/28>)
7. **“Growth and Optical Characterization of Colloidal CdTe Nanoparticles Capped by a bifunctional Molecule”**
M. S. Abd El-sadek and S. Moorthy Babu
Physica B: Condensed Matter (2010), Vol. 405, pp. 3279-3283.
8. **“Aqueous Synthesis and Characterization of CdTe@Co(OH)₂ (Core-Shell) Composite Nanoparticles”**
M. S. Abd El-sadek J. Ram Kumar, S. Moorthy Babu, and
M. Salim El-Hamidy
Materials Chemistry and Physics (2010), Vol. 124, pp. 592-599.
9. **“A Controlled Approach for Synthesizing CdTe@CrOOH (Core-Shell) Composite Nanoparticles”**
M. S. Abd El-sadek and S. Moorthy Babu
Current Applied Physics (2011), Vol. 11, pp. 926-932.
10. **“Photoinduced interaction of MPA-capped CdTe quantum dots with denatured Bovine Serum Albumin”**
Mariadoss Asha Jhonsi, Arunkumar Kathiravana, Rajalingam Renganathana and
M.S. Abd El-sadek
Nanoscience and Nanotechnology Letters (2011), Vol. 3, pp. 125-130.
11. **“Influence of Different Stabilizers on the Optical and Nonlinear Optical Properties of CdTe Nanoparticles”**
M. S. Abd El-sadek, Ahmad Y. Nooralden, S. Moorthy Babu and P. K. Palanisamy
Optics Communications (2011), Vol. 284, pp. 2900-2904.

12. **“CdTe@Cu(OH)₂ Nanocomposite: Aqueous Synthesis and Characterization”**
M. S. Abd El-sadek and S. Moorthy Babu
Journal of Solid State Chemistry (2011), Vol. 184, pp. 1135-1140.
13. **“Electronic transport mechanism of CdTe nanocrystalline”**
M. S. Abd El-sadek, I.S. Yahia and A.M. Salem
Materials Chemistry and Physics (2011), Vol. 130, pp. 591-597.
14. **“Linear and Nonlinear Optical Properties of Mercaptoacetic Acid-Capped CdTe Nanoparticles by Z-scan Technique”**
M. S. Abd El-sadek, S. Moorthy Babu, Ahmad Y. Nooralden and P. K. Palanisamy
Nanoscience and Nanotechnology Letters (2011), Vol. 3, pp. 637–642.
15. **“Methyl orange (C.I. Acid Orange 52) as a new Organic Semiconductor: Conduction Mechanism and Dielectrical Relaxation”**
I. S. Yahia, M. S. Abd El-sadek and F. Yakuphanoglu
Dyes and Pigments (2012), Vol. 93, pp. 1434-1440.
16. **“Spectroscopic ellipsometry investigations of the optical constants of nanocrystalline SnS thin films”**
E.R. Shaaban, M. S. Abd El-sadek, M. El-Hagary, I.S. Yahia
Physica Scripta (2012), Vol. 86, pp. 015702-015707.
17. **“Synthesis, electrical properties and transport mechanisms of thermally vacuum evaporated CdTe nanocrystalline thin films”**
A. Al-Ghamdi, M. S. Abd El-sadek, A. Nagat and F. El-Tantawy
Solid State Communications (2012), Vol. 152, pp. 1644-1649.
18. **“Synthesis, thermal characterization and antimicrobial activity of lanthanum, cerium and thorium complexes of amino acid Schiff Base ligand”**
Samir Alghool, Hanan F.Abd El-Halim, M.S. Abd El-sadek, I.S. Yahia, L.A. Wahab
Journal of Thermal Analysis and Calorimetry (2013), Vol. 112, pp. 671-681.
19. **“Photoluminescence and optical dispersion parameters of N-doped ZnO nano-fiber thin films”**
M. S. Abd El-sadek, I. S. Yahia, F. Yakuphanoglu and Z.A. Alahmed
Journal of Electroceramics (2013), Vol. 30, 152-158.
20. **“Synthesis, diffused reflectance and electrical properties of nanocrystalline Fe doped ZnO via sol-gel calcination technique”**
C. Aydın, M. S. Abd El-sadek, Kaibo Zheng, I. S. Yahia and F. Yakuphanoglu
Optics & Laser Technology (2013), Vol. 48, pp. 447-452.
21. **“Electrical and magnetic transport properties of Ni-Cu-Mg ferrite nanoparticles prepared by sol-gel method”**
Khalid Mujasam Batoo and M.S. Abd El-sadek
Journal of Alloys and Compounds (2013), Vol. 566, pp. 112-119.

22. **“Effect of metal oxide morphology on electron injection from CdSe quantum dots to ZnO”**
Kaibo Zheng, Karel Židek, Mohamed Abdellah, Pavel Chábera, **M. S. Abd El-sadek**, and Tõnu Pullerits
Applied Physics Letter (2013), Vol. 102, pp.163119.
23. **“Optical properties of nano-structured Pt/FTO counter electrode for QDSSCs”**
I.S. Yahia , Amanullah Fatehmulla, W.A. Farooq, H.Y. Zahran, M. Aslam, S. Mansoor Ali, M. Atif, **M.S. Abd El-sadek**, F. Yakuphanoglu
Electronics, Communications and Photonics Conference (SIECPC), 2013 Saudi International IEEE Conference, April 27-30 2013, [10.1109/SIECPC.2013.6550975](https://doi.org/10.1109/SIECPC.2013.6550975)
24. **“Optical Properties of Al-CdO nano-clusters Thin Films”**
I.S. Yahia, G.F. Salem, **M.S. Abd El-sadek** and F. Yakuphanoglu
Superlattices and Microstructures (2013), Vol. 64, pp. 178-184.
25. **“The Anti-Fasciolasis properties of Silver nanoparticles produced by Trichoderma harzianum and their improvement of anti-fasciolasis drugs”**
Youssuf A. Gherbawy, Ismail Shalaby, **M.S. Abd El-sadek**, Hesham Elhariry and Banaja Abdelilah
International Journal of Molecular Sciences (2013), Vol. 14, pp. 21887-21898.
26. **“Extraordinary High Dielectric Constant, Electrical and Magnetic Properties of Ferrite Nanoparticles at Room Temperature”**
Khalid Mujasam Batoo, F.A. Mir, **M.S. Abd El-sadek**, Md. Shahabuddin N. Ahmed
Journal of Nanoparticle Research (2013), Vol. 15, pp. 1-9.
27. **“Nano-size Cement bypass as Asphalt Modifier In Highway Construction”**
Farag Khodary, **M.S. Abd El-sadek** and H.S. El-Sheshtawy
International Journal of Eng. Research and Appliactions (2013), Vol. 3, pp. 645-648.
28. **“Characterization and photocatalytic efficiency of Palladium doped- TiO₂ Nanoparticles”**
Ahmed A. Abd El-rady, **M.S. Abd El-sadek**, Mohamed M. El-sayed Breky, F.H. Assaf
Advances in Nanoparticles (2013), Vol. 2, pp. 372-377.
29. **“Synthesis, Characterization and Antibiotics Labeling Affinity of CdTe Quantum Dots”**
H.S. El-Sheshtawy, **M.S. Abd El-sadek** and I.S. Yahia
Nanoscience and Nanotechnology Letters (2014), Vol. 6, pp. 18-25.
30. **“Mechanical Properties of Modified Asphalt Concrete Mixtures Using Ca(OH)₂ Nanoparticles”**
Farag Khodary, **M.S. Abd El-sadek** and H.S. El-Sheshtawy
International Journal of Civil Engineering and Technology (2014), Vol. 5, pp. 61-68.
31. **“Effect of γ -irradiation on Structural and Optical Ellipsometry Parameters of ZnO Nanocrystalline Thin Films”**
E.R Shaaban, A.M.A. Mostafa, H. Shokry Hassan, **M.S Abd El-Sadek**, Gehan Y. Mohamed, I. Sharaf
International Journal of Thin Films Science and Technology (2014), Vol. 3, pp.129-141.

32. **“CaO/Bitumen Nanocomposite: Synthesis and Enhancement of Stiffness Properties for Asphalt Concrete Mixtures”**
Farag Khodary, **M.S. Abd El-sadek** and H.S. El-Sheshtawy
International Journal of Scientific & Engineering Research (2015), Vol. 6, pp. 444-448.
33. **“Study of The Interaction between Mercaptoacetic Acid (MAA) Capped CdS Quantum Dots With Denatured Bovine Serum Albumin (dBSA)”**
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February 2019, Luxor City, Egypt.

40. “Quantitative Phase Analysis of PbO content in Lead Zirconate Titanate (PZT) by Rietveld Method”

K.H. Omran, **M.S. Abd El-Sadek**, M. Mostafa, and O.M. Hemeda

2nd International Conference on Materials Science and Engineering, Cairo, 11 – 13,
March 2019, Cairo, Egypt.

41. “Photocatalytic Degradation of Methylene Blue Dye Using Pure and Ag-doped SnO₂ Nanoparticles as Catalyst”

M.S. Abd El-Sadek, Mahmoud A. Omar, Gharib M. Taha

21st International Conference on Nanotechnology: Fundamentals and Applications,
ICNFA, July 09-10, 2019, Prague, Czechia.

42. “Synthesis and Microstructure Evaluation of Nano Lead Zirconate (PbZrO₃)”

K.H. Omran, **M.S. Abd El-Sadek**, M. Mostafa, and O.M. Hemeda

5th Young Researcher Conference on Basic Sciences and Engineering, 26 – 27
March, 2019, Qena, Egypt.

43. “Effects of Ca Addition on Microstructure and Optical Properties of PZT Nanoparticles”

K.H. Omran, **M.S. Abd El-Sadek**, M. Mostafa, and O.M. Hemeda

5th International Conference of Advanced Applied Sciences (ICAS5), 09 – 12,
November 2019, Hurghada, Egypt.

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