Dr. Shadia J Ikhmayies
CURRICULUM VITAE
(Last updated: 15 March 2024)

ADRESS

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PERSONAL DATA

Born: May 13, 1960. **Place:** Al-A'rrub/Al-Khalil.
Nationality: Jordanian.
Marital State: Single.
Nationality Number: 9602020403

EDUCATION

B.S.C: Physics, Faculty of Science-University of Jordan, 1983.
M.S: Physics, Faculty of Science-University of Jordan, 1987.
Ph.D : Physics, Faculty of Science-University of Jordan, 2002.

TITLE OF THESES

M.S: Laser Spectroscopy of NaK Molecule.
Ph.D: Production and Characterization of CdS/CdTe Thin Film Photovoltaic Solar Cells of Potential Industrial Use.

JOB HISTORY

1987-1997: **Labaratory Instructor**, Physics Department/Faculty of Science-University of Jordan, Jordan.
1997-2000: Member of academic staff, Faculty of Basic Sciences, Al-Isra University, Jordan.
2003, 2nd semester: **Part time Lecturer**, Department of Basic Sciences- Collage of Technology Engineering-Al-Blqa' Applied University, Jordan.
2003-2004: **Part time Lecturer**, Physics Department/Faculty of Science-University of Jordan, summer (6/7/2003-31/8/2003), 1st (21/9/2003-26/1/2004) and 2nd semesters (22/2/2004-1/6/2004), then the next summer semester semester 4/7/2004-25/8/2004, Jordan.
2004-2009 : Assistant professor, Physics Department/Faculty of Basic Sciences-Applied Science University, Jordan.
2010-2014: Assistant professor, Department of Basic Sciences/ Faculty of Information Technology- Al-Isra University, Jordan.
2014-2015 Associate professor, Department of Basic Sciences/ Faculty of Information Technology- Al-Isra University, Jordan.
2015-2020: Associate professor, Department of Physics/ Faculty of Science- Al-Isra University, Jordan.

RANK

Assistant professor, Applied Science University, 23rd October 2004

Associate professor, Isra University, 22nd January, 2014
Full professor, Isra University: 3 April, 2019

TEACHING EXPERIENCE
Undergraduate Courses:

No.	Material	University	Times teached	Text Bok
1.	Thermodynamics	Isra University	(2 times)	1- Fundamentals of Thermodynamics 8th Edition, 2013 Claus Borgnakke Richard E. Sonntag 2- Heat and Thermodynamics: An Intermediat Textbook , Mark W. Zemansky, and Richard H. Dittman, The McGraw-Hill Companies, Inc., Seventh Edition, 1997, Book
2.	Waves and Vibrations	Isra University	(3 times)	THE PHYSICS OF VIBRATIONS AND WAVES Sixth Edition H. J. Pain
3.	Nuclear Physics	Applied Science University	(1 time)	Introductory Nuclear Physics 3rd Edition by Kenneth S. Krane
4.	Radiation	Isra University	(1 time)	Physics for Radiation Protection, By James E. Martin, Third Edition, 2013
5.	Electronics	Applied Science University	(1 time)	Electronic devices : conventional current version / Thomas L.

				Floyd.— 9th ed.
6.	Introduction to Laser	Applied Science University	(1 time)	Introduction to Laser Physics Authors: Shimoda, Koichi, 1986. Springer
7.	Mathematical Physics I	University of Jordan	(1 time)	Mathematical Methods in the Physical Sciences 3rd Edition by Mary L. Boas
8.	Astrophysics	University of Jordan	(1 time)	An Introduction to Modern Astrophysics by Bradley W. Carroll and Dale A. Ostlie. Benjamin Cummings; 1st edition, 1995
9.	Optics	University of Jordan (2 times) Isra University (3 times)	(5 times)	Introduction To Optics, Frank L. Pedrotti, and Leno S. Pedrotti, 3rd Edition, Prentic-Hall.
10.	Methods in Experimental Physics	University of Jordan	(1 time)	Lectures collected from different books
11.	Energy	Isra University	(1 time)	Energy Production, Conversion, Storage, Conservation, and Coupling, 2nd edn. By: Yaşar Demirel. Springer, 2015
12.	Environmental Physics	Isra University	(1 time)	Principles of Environmental Physics Fourth Edition, 2013. John L. Monteith and Mike H. Unsworth

13.	Practical Physics	University of Jordan	(1 time)	Practical Physics Squires, G. L. Cambridge University Press, Cambridge. 1985
14.	Science and Society (in Arabic)	University of Jordan	(6 times)	العلم والمجتمع المؤلف: يوسف محمود
15.	Modern Physics	Isra University	(3 times)	Concepts of Modern Physics, Arthur Beiser, McGraw-Hill, Sixth Edition.
16.	General Physics 1 for Scientists and Engineers 101	Isra University University of Jordan Applied Science University Collage of Technology Engineering-Al-Blqa' Applied University	(more than 30 times)	Physics for Scientists and Engineers 9th Edition by Raymond A. Serway, and John W. Jewett.
17.	General Physics 2 for Scientists and Engineers 102	Isra University University of Jordan Applied Science University	(more than 25 times)	Physics for Scientists and Engineers 9th Edition by Raymond A. Serway, and John W. Jewett.
18.	General Physics 103 for Midicine	University of Jordan	(3 times)	Introduction to Physics in Modern Medicine 2nd Edition, Kindle Edition by Suzanne Amador Kane
19.	Pharmacy	Isra University Applied Science University	(more than 20 times)	Douglas C. Giancoli, "Physics", sixth edition, Pearson, 2014
20.	General Physics for Computer Science 104	Applied Science University	(more than 10 times)	Physics for Scientists and Engineers 9th Edition

				by Raymond A. Serway, and John W. Jewett.
21.	Advanced Physics labs I	University of Jordan	10 times each)	Lab Manual
22.	Advanced Physics labs II (more than	University of Jordan	10 times each)	Lab Manual
23.	Electronics lab (more than 5 times)	University of Jordan Isra University	(more than 5 times)	Lab Manual
24.	Lab of Intermediat Physics	University of Jordan Isra University (1 time)	(more than 10 times)	Lab Manual
25.	General Physics Labs for Scientists and Engineers I	Isra University University of Jordan Applied Science University	(more than 50 times)	Lab Manual
26.	General Physics Labs for Scientists and Engineers II	Isra University University of Jordan Applied Science University Collage of Technology Engineering-Al-Blqa' Applied University	(more than 50 times)	Lab Manual
27.	General Physics Labs for Midicine	University of Jordan	(5 times)	Lab Manual
28.	General Physics Labs for Nursing and Agriculture	Isra University University of Jordan	(more than 10 times)	Lab Manual
29.	General Physics Labs for Pharmacy	Isra University	(5 times)	Lab Manual
30.	General Physics Labs for Computer Science.	Applied Science University	(more than 10 times)	Lab Manual

RESEARCH INTERESTS:

1- Experimental Work: - Production and characterization of semiconducting thin films and solar cells.

- Production and characterization of thin films and powders of metal oxides such as SnO_2, Cu_2O, and ZnO
- Processing and characterization of Silica

2- Computational Work: - Structural, electronic and optical properties of Solids (NbN, Si, CdS..) using Wien2k package.

- Thermodynamic properties and phase diagrams of materials using Thermo-Calc Software.

SCHOLARSHIPS, HONORS, AND AWARDS

1. **2020 EPD Materials Characterization Best Paper Award - First Place**
2. **TMS 2020 gift for 10+ years of consecutive attendance of TMS Meetings (**continued loyalty to TMS and the annual meeting.**).**
3. **TMS 2020 "Thank You Gift" for Volunteer Service to the Society and contributions to TMS.**
4. **TMS 2019 Gift:** for attending 10 successive TMS Annual Meetings without Absence.
5. **EPD Division gifts (2 Certificates)** for Chairing in TMS 2019 Annual Meeting.
6. **EPD Division gifts (3 Certificates)** for organizing in TMS 2019 Annual Meeting (Characterization of Minerals, Metals, and Materials; Green Materials Engineering: An EPD Symposium in Honor of Sergio Monteiro; and Solar Cell Silicon symposia.)
7. **CSC2018: International Computational Science Congress Award for being a plenary Speaker: A gift and a Certificate of thank you and a tree planted in my name to commemorate the Ocasion.**
8. **ECRES 2018 Best Paper Award.**
9. **TMS Frank Crossley Diversity Award 2018.**
10. **PIONEERING AWARD for 2018**, World Renewable Energy Congress 2018 (WREC-18).
11. **EPD Division Award 2017** for chairing the Characterization Committee from 2015 to 2017.
12. **EPD Division gifts (2 Certificates)** for chairing two sessions in TMS 2017 Annual Meeting.
13. **EPD Division gifts (2 Certificates)** for organizing in TMS 2017 Annual Meeting (Characterization symposium and Solar Cell Silicon symposium.)
14. **EPD Division gifts** (**2 Certificates**) for editing proceedings (Characterization of Minerals, Metals, and Materials 2017, and Energy Technology 2017.)
15. **EPD Division gifts (2 Certificates)** for Chairing two sessions in TMS 2016 Annual Meeting (Characterization symposium).
16. **EPD Division gift** (**1 Certificate**) for editing proceedings of (Characterization of Minerals, Metals, and Materials 2016)
17. **TMS Materials Characterization Award** (**Certificate)** for the 2016 **Best Paper Award** in Characterization of Minerals, Metals, and Materials Symposium.
18. **TMS Materials Characterization Award** (**Certificate)** for the 2015 **Best Paper Award** in Characterization of Minerals, Metals, and Materials Symposium.

19. **JOM gift for being a technical advisor/guest editor of JOM 2014 january issue (Volume 66, issue 1).**
20. **EPD Division gifts (2 Certificates)** for organizing in TMS 2015 Annual Meeting (Characterization symposium and Solar Cell symposium.)
21. **EPD Division gifts (2 Certificates)** for Chairing in TMS 2015 Annual Meeting.
22. **TMS Materials Characterization Award** (**Certificate)** for the 2014 **Best Paper** in Characterization of Minerals, Metals, and Materials Symposium.
23. **EPD Division gifts** (**2 gifts**) for editing proceedings of (Characterization of Minerals, Metals, and Materials 2015, and 2015 EPD Congress: Solar Cell Silicon.)
24. **EPD Division gifts** (**1 gift**) for editing proceedings of the Characterization of Minerals, Metals, and Materials 2014.
25. **EPD Division gift for being a technical advisor/guest editor of JOM 2014 january issue (Volume 66, issue 1).**
26. **EPD Division gifts (2 Certificates)** for Chairing sessions in TMS 2014 Annual Meeting.
27. **EPD Division gifts (2 Certificates)** for organizing in TMS 2014 Annual Meeting (Characterization symposium and Solar Cell symposium.)
28. **TMS Materials Characterization Award** (**Certificate)** for the 2013 **Best Paper** in Characterization of Advanced Materials.
29. **EPD Division Thank you gifts (2 gifts)** for Chairing sessions in TMS 2013 Annual Meeting.
30. **EPD Division gifts (2 gifts)** for organizing in TMS 2013 Annual Meeting (Characterization symposium and Solar Cell symposium.)
31. **TMS Materials Characterization Award** for the 2012 (**Certificate) Best Paper** in Characterization of Energy, Electronic and Optical Materials.
32. **EPD Division gifts (2 gifts)** for organizing in TMS 2012 Annual Meeting (Characterization symposium and Solar Cell symposium.)
33. **EPD Division Thank you gifts (2 gifts)** for Chairing sessions in TMS 2012 Annual Meeting.
34. **EPD Division gifts (2 gifts)** for organizing in TMS 2011 Annual Meeting (Characterization symposium and Solar Cell symposium.
35. **EPD Division Thank you gifts (3 gifts)** for chairing sessions in TMS 2011 Annual Meeting.
36. **Guild of Jordanian Engineers-Zarqa Branch gift for the review** of two articles for their 2nd Engineering and Scientific Conference held in Zarqa, Jordan (22-23 November, 2010).
37. **EPD Division Thank you gift for Chairing sessions inTMS 2010 Annual Meeting**.
38. **University of Jordan Award for Academic Excelence** (the 1st in the graduated set for the B.S.C. Degree, 1983).

GRADUATION COMMITTEES

No.	**Student Name**	**Thesis Title**
1.	Naseem Abu-Elhaija MS.C degree in Physics	Production and Characterization of Doped and Undoped ZnO Thin Films
2.	Bashar Bino MS.C degree degree in Physics	I-V and Scanning Electronic Characterization of $CuInSe_2$ thin Films

GRADUTION PROJECTS

No.	Student Name	Project's Title
1.	Anass Asa'ad Khalaf BS.C degree in Physics	Diagnosis by Studying the Optical Properties of Blood (Diaphanography)

MEMBERSHIP OF UNIVERSITY COMMITTEES

1. Chair of Scientific Research Committee-Faculty of Science at Al Isra University 2019/2020.
2. Member of the Committee of Students Affairs at Al Isra University 2019/2020.
3. Member -representing Isra University- of Scientific Research Support Fund Committee (2018/2019).
4. Member of the Faculty committee of Scientific Research (2018/2019).
5. Member of the Faculty committee of Graduate Studies (2017/2018).
6. Member of the Faculty of Science Council at Al Isra University (2015/2016, 2016/2017).
7. Member of University Library Committee, Al-Isra University 2011-2015.
8. Member of University committee of matching materials, Al-Isra University 2010- 2011.
9. Member of University Library Committee, Applied Science Private University 2005-2006
10. Member of University Library Committee, Al-Isra University 1998-2000
11. Member of the committee of verifying in students issues, Al-Isra University 1997-1998

MEMBERSHIP OF Scientific Groups

- Energy Environment and Sustainability Research (EESR) Group
- Group of Theoretical and Computational Physics.
- Group of Solar Cells and Thin Films (Experimental).
- One of the **SESAME** scientific groups: Surface/materials science using Powder Diffraction.

MEMBERSHIP OF SCIENTIFIC FOUNDATIONS:

1- The World Renewable Energy Network (WREN) in UK (2011-Present).
2- The Materials, Minerals and Metals Society (TMS) in USA (2009-Present)
3- Jordanian Renewable Energy Society (JRES), Jordan: (2009-2016)
- Photovoltaic committee.
- Scientific committee.

4- The Society of Enriching Arabic Content on the Internet (2012-2016).

MEMBERSHIP OF CONFERENCE COMMITTEES:

1- Member of the International Organizing Committee of the Third International Hydrogen Energy Congress and Exhibition (3rd IHEC 2021) which was held on 14-16 June 2021 Gazi University, Ankara, TURKEY.
2- Member of the Scientific Committees of the International Conference on Advanced Materials Science & Engineering and High Tech Devices Applications; Exhibition (ICMATSE 2020), October 2-4, 2020, Gazi University, Ankara, TURKEY.

3- Past chair of the Characterization of Minerals, Metals, and Materials committee for the TMS 2018, 2019.
4- The chair of the Characterization of Minerals, Metals, and Materials committee for the TMS 2016-2017.
5- A member of the International Advisory and Program Committee for the WREC XVI conference held in Perth, Western Australia in 5-9 February 2017.
6- A member of the International Scientific Committee of the European Conference on Renewable Energy Systems (ECRES) (2015-present).
7- A member of the International organizing committee of the European Conference on Renewable Energy Systems (ECRES) (2015-present).
8- A member of the steering committee for the World Renewable Energy Congress: 2014-present.
9- A member of the Recycling and Environmental Technologies Committee: TMS, *Annual Meeting & Exhibition* (2014-present).
10- A member of the Matterials Characterization Committee: TMS, *Annual Meeting & Exhibition* (2009-present).
11- Member of the organizing committee of the International Conference and Exhibition on Green Energy and Sustainability for Arid region and Mediterranean Countries. Amman, Jordan, November 10-12, ICEGES 2009.

LEADING ORGANIZER OF THE FOLLOWING SYMPOSIUMS

1- Characterization of Minerals, Metals, and Materials 2016, 2017: TMS, *145-146th Annual Meeting & Exhibition*).
2- Solar Cell Silicon Symposium: TMS, *Annual Meeting & Exhibition*) (2017–present).
3- Mechanical Characteristics and Application Properties of Metals and Non-metals for Technology: An EPD Symposium in Honor of Donato Firrao: 2018 TMS, *147th Annual Meeting & Exhibition*.
4- Green Materials Engineering: An EPD Symposium in Honor of Sergio Monteiro: 2019 TMS, *148th Annual Meeting & Exhibition*.

ORGANIZER OF THE FOLLOWING SYMPOSIUMS

1- Characterization and Processing: An EPD Symposium in Honor of Jiann-Yang Hwang: TMS, *Annual Meeting & Exhibition 2021.*
2- Characterization of Minerals, Metals, and Materials Symposium: TMS, *Annual Meeting & Exhibition* (2010-present).
3- Solar Cell Silicon Symposium: TMS, *Annual Meeting & Exhibition* (2011-2016).

REFEREE IN:

1) Journal of Materials Science & Engineering B (Elsevier)**.**

Total number of assigmnments**: 30**

Articles that I reviewed:

1- Thermal annealing effects on Cu-Se resonant tunneling diodes fabricated by electrodeposition assisted template synthesis technique.(9/9-4/10/2007).
2- Synthesis of Functionalized ZnSe Nanoparticles and their Applications in the Determination of Nucleic acid base. (28/3-20/4/2008).

3- Surface dynamics of methylchloride on GaAs(001) surfaceDynamical behavior of methylchloride on GaAs(001). (26/6-7/7/2008), (5/10-24/10/2008), (30/4-19/5/2009).
4- First principles calculations of electronic structure and optical properties of stressed Mg_2Si. (31/1-25/2/2009).
5- Photoluminescence and excitation spectra of ZnO:Cu,Ga thin films obtained by ZnS:Cu,Ga films oxidation in different ambient. (13/9-28/9/2009).
6- Preparation and Characterization of positively charged polysulfone Nano-Filtration Membranes. (18/1-2/2/2010).
7- Catalytic Activity of Copper-Supported Catalyst for NO Reduction in the Presence of Oxygen: Fitting of Calcination Temperature and Copper Loading. (9/3-28/3/2010), (29/4-20/5/2010), (26/5-15/6/2010).
8- Synthesis and Optical Properties of CdS nanorods and CdSe nanocrystals Using Oleylamine as both Solvent and Stabilizer. (1/9-28/10/2010), (17/11-4/12/2010), (12/1-9/2/2011).
9- Magnetic and Electric Property Evolution of Cobalt-rich Ribbons under Field Annealing and their Giant Magneto-Impedance. (5-25/11/2010).
10- Influence of the substrate nature on the properties of ZnO thin films. (30/3-29/4/2011), (12/6-12/7/2011), (8/3-9/2/2011). (14/9-7/10/2011)
11- Correlation between structural, photoluminescence properties and gettering effect of stain etched porous silicon in multi-crystalline silicon. (9/6-5/7/2011).
12- Characterization of multiwall carbon nanotube/nickel oxide nanocomposite thin films. (10/11-10/12/2011).
13- Solar absorption and thermal emission properties of multiwall carbon nanotube/nickel oxide nanocomposite thin films synthesized by sol-gel process.(13/1-3/2/2012).
14- Microstructural and chemical variation of TiO2 electrode in DSSCs after ethanol vapour Treatment.(4/6-4/7/2012), (10/9-24/9/2012).
15- Optical and structural properties of porous zinc oxide fabricated via electro-chemical etching method (10/12/2012-9/1/2013), (6/3-21/3/2013).
16- Large-area multi-crystalline silicon solar cells by Ag-assisted etching and sodium hydroxide treatment. (5/5-4/6/2013).
17- Facile preparation of Ni2P/ZnO core/shell composites by a chemical method and its photocatalytic performance. (31/10-21/11/2015), (24/12/2015-13/1/2016).

2) Journal of Materials and Design (Elsevier)**.**
Total number of assigmnments**: 12**
Articles that I reviewed:
1- Development of Carbon Fiber based Heater. (16/7-27/7/2009)
2- Simulation of possible polyaniline | lead-dioxide electrochemical power source characteristics. (10/10-21/10/2009)
3- Development and Electrical Characterization of Carbon Soot Filled Polyester Graded Composites.(24/11-8/12/2009)
4- Microstructures and Dielectric Properties of $Ba0.5Sr_{0.5}TiO_3$-Zn_2TiO_4 Composite Ceramics with Low Sintering Temperature for Tunable Device Applications. (29/1-6/2/2010)
5- Effect of friction stir processing on electrical resistivity of copper. (20/5-2/6/2010)
6- Development of high strength, high conductivity copper by friction stir processing. (20/5-2/6/2010), (19/7-22/7/2010).

7- Electromagnetic absorption efficiency of polypropylene/montmorillonite/ polypyrrole nanocomposites.(25/8-4/9/2010).
8- Investigated optical and elastic properties of porous silicon from experimental measurements. (26/11 -9/12/2010), (6-20/1/2011), (26/1-9/2/2011).
9- Effect of Artificial Aging on the Electrical Conductivity of 6061 Aluminum alloy.(23/1-5/2/2012).

3) Journal of Alloys and Compounds: (Elsevier)**.**
Total number of assigmnments**: 2**
Articles that I reviewed:
1- Sacrificial template method for the synthesis of CdS nanosponges and their photocatalytic properties. (24/3-3/4/2010).
2- Solvothermally Growth of Single-Crystal CdS Nanowires. (8/8-22/8/2012)

4) Energy Conversion and Management: (Elsevier)**.**
Total number of assigmnments**: 5**
Articles that I reviewed:
1- The AlxGa1-xAs Window Composition Effect on the Hardness Improvement of a p+-n-n+ GaAs Solar Cell Exposed to the Electron Irradiation. (6/9-30/9/2009).
2- PV to PEV Efficient Power Transfer for Standalone Solar Power System. (15/8-28/8/2012)
3- Design of an optimized photovoltaic and microturbine hybrid power system for a remote small community: Case study of Palestine. (28/3-18/4/2013), (2/5-18/5/2013).
4- DEVELOPMENT OF 1 A TYPICAL METEOROLOGICAL YEAR FOR PV PERFORMANCE ASSESSMENT IN FOUR NORTHERN LOCATIONS OF NIGERIA, (18/8-8/9/2014)

5) Materials Chemistry and Physics (Elsevier):
Total number of assigmnments**: 3**
Articles that I reviewed:
1- Low resistive spray pyrolysed ZnO:Al thin film by Zero- energy post deposition process (11/7-22/7/2010).
2- Growth of cubic CdS films on TiO2-terminated (100) SrTiO3 substrate. (12-25/4/2016).
3- EFFECT OF THE INCLUSION OF GALIUM IN NORMAL CADMIUM CHLORIDE TREATMENT ON ELECTRICAL PROPERTIES OF CdS/CdTe SOLAR CELL. (8-24/12/2016).

6) Materials Science in Semiconductor Processing (Elsevier):
Total number of assigmnments**: 17**
Articles that I reviewed:
1- Synthesis, Crystal Structural and Electrical Conductivity Properties at High Temperatures of Fe Doped Zinc Oxide Powders. (10/10-11/5/2010).
2- Region-Dependent behavior of I-V characteristics in n-ZnO:Al/p-Si contacts. (18/12/2010-14/1/2011), (27/1-27/2/2011).
3- Comparison of Etch Characteristics of KOH, TMAH and EPW for Bulk Micromachining of Silicon (110). (14/3-13/4/2011).

4- Electrical properties and barrier modification of GaAs MIS Schottky device based on MEH-PPV organic interfacial layer. (24/7-21/8/2011).
5- High precision hydrogenation assisted deep micro-machined structures. (3/11-2/12/2011).
6- Characterization of electrodeposited CdSe and CdTe layers and fabrication of a CdTe/CdSe structure. (15/11-14/12/2011).
7- Etch rate of Silicon (100) in alkaline fluoride solution. (19/2-3/3/2012).
8- Structural, Optical and Impedance studies on pulse plated $AgInSe_2$ films. (/ 2012- /2012).
9- Enhancing of the hydrogen gas sensing properties of ZnO prepared by the thermal oxidation of Zn metal doped with Al.(4/7/2012-1/8/2012).
10- Investigation of Photocatalytic Degradation of Methyl Orange and Gas Sensing Performance by Using Nano-Sized ZnO (1-29/9/2012), (15/10-13/11/2012).
11- Influence of the carrier gas (iodine) operating conditions on the growth of CuInSe2 thin films prepared by the close spaced vapor transport (CSVT) technique. (7/11-5/12/2012).
12- Synthesis of Sn doped ZnO/TiO2 nanocomposite film and their application to H2 gas sensing properties. (11/12-24/12/2012)
13- Study on Te inclusions distributions of different solid-liquid interface shapes within CdZnTe crystals growth (2/1/2015-1/2/2015)
14- Effect of Post Deposition Heat Treatment on Microstructure Parameters, Optical Constants and Composition of Thermally Evaporated CdTe Thin Films. (4-29/9/2016).

7) Journal of electrostatics (Elsevier):
Total number of assigmnments**: 1**
Articles that I reviewed:
1- Simulation Research on Charged Oil Atomization in the Electrostatic Oiler. (11/8-9/2010).

8) Journal of Electronic Materials (Springer):
Total number of assigmnments**: 10**
Articles that I reviewed:
1- Relation between Seebeck coefficient and lattice parameters of $(Ca_{2-y}Sr_yCoO_3)_xCoO_2$. (7/10-/10/2011).
2- Effect of Co doping on the properties of ZnO bulk samples. (10/9-24/9/2012), (30/10-13/11/2012).
3- Investigation of Optical Nonlinearities in Bi Doped Se-Te Chalcogenide Thin Films. (3/7-15/7/2014), (14/8/2014-28/8/2014).
4- Low Concentration NO_2 gas sensor based on HfO2 thin films irradiated by ultraviolet light. (26/10-4/11/2015).
5- Numerical Study of TCO/Silicon Solar Cells with Novel Back Surface Field. (7-17/1/2016).
6- Modeling and Simulation of ZnS/Cu2ZnSn(SxSe 1-x)4 structure for solar cell applications (30/5-12/6/2017)
7- The composition dependence of the band gap energy for the O-rich ZnSexO1-x. (30/5-14/6/2017), (29/9-4/10/2017), (13/11-30/11/2017.

9) Journal of Materials Research (Cambridge Core-MRS Society)
Total number of assigmnments**: 1**
Articles that I reviewed:

1- Influence of deposition temperature on the properties of spray deposited cadmium sulphide thin films. (29/6-24/7/2012).

10) Journal of Physical Science (Penerbit Universiti Sains Malaysia)
Total number of assigmnments**: 1**
Articles that I reviewed:
1- Estimate Theoretical Model for the Effect of Illumination on (I- V) Characteristics of CdTe/Ge Photo Detector. (1/7-31/7/2012).

11) Journal of Crystal Growth (Elsevier)
Total number of assigmnments**: 1**
Articles that I reviewed:
1- Urbach Tailing controversial features in copper-doped bismuth sillenites (BSO) and germinates (BGO) crystals: A prelude to the crystal growth -related Lattice Compatibility Theory LCT. (28/7-11/8/2012).

12) International Journal of Materials and Chemistry (Science and Academic Publishing (SAP).)
Total number of assigmnments**: 4**
Articles that I reviewed:
1- Computer Modeling and Experimental Study of Material Surface Improvement by Nano Coating Technology.
2- Chitin and Chitosan: Biopolymers for Wound Management. (5-12/8/2012)
3- Adsorption of Zinc (II) Ions by Activated Carbons Prepared from Ulvafasciata and Commertially Activated Carbon.
4- Adsorption of Zinc (II) Ions by Activated Carbons Prepared from *Ulvafasciata* and Commercially Activated Carbon

13) Jordan Journal of Physics (Yarmouk University, Jordan).
Total number of assigmnments**: 2**
Articles that I reviewed:
1- Preparation of Dye sensitized solar cell (DSSC) and studying its structural properties (In Arabic).
إعداد خلية شمسية محسّسة صبغيا (DSSC) ودراسة صفاتها البنيوية
2- Photoluminescence and nanomaterials for fingermark visualization and imaging (13-29/8/2018).

14) The Walailak Journal of Science and Technology (Institute of Research and Development, Walailak University, Thailand)
Total number of assigmnments**: 1**
Articles that I reviewed:
1- Oxidative Copolymerization of Aniline with p-Nitro Aniline by Ammonium Per Sulfate and Study of Optical Properties for It's.

15) Thin Solid Films: (Elsevier)
Total number of assigmnments**: 1**
Articles that I reviewed:

1) Doped Ternary (Cd, Hg) S Thin Films: Chemical Synthesis, Characterization and Application Perspectives submitted to Thin Solid Films. (16/12/2012-6/1/2013).

16) Solar Energy (Elsevier)
Total number of assigmnments**: 2**
Articles that I reviewed:

1. A simplified method to modulate colors on industrial multicystalline silicon solar cells with reduced current losses (20/7-3/8/2013).
2. Reduction of interface traps at the amorphous-silicon/crystalline-silicon interface by hydrogen and nitrogen annealing.

17) International Journal of Energy Engineering (Scientific & Academic Publishing, USA)
Total number of assigmnments**: 1**
Articles that I reviewed:
1. A Primogenius Study on c-Si Solar Cell. (18/7-1/8/2013)

18) Journal of Luminescence (Elsevier)
Total number of assigmnments**: 1**
Articles that I reviewed:
1- Dependences of the structural, compositional and photoluminescent properties of electrodeposited CdS films upon annealing temperature

19) Applied Surface Science (Elsevier)
Total number of assigmnments**: 1**
Articles that I reviewed:
1- The investigation of spray pyrolysis grown CdS thin films doped with flourine atoms. (12-20/6/2015).

20) Journal of Minerals, Metals, and Materials JOM (Springer)
Total number of assigmnments**: 3**
Articles that I reviewed:
1- Using First Principles Calculations to Investigate the Effect of Oxidation on Graphene Spectroscopic Properties (14-18/9/2014)
2- Preparation and Characterization of Rubber Filler by a Composite Powder Recycled from Graphite Tailings (11-17/11/2014)
3- Development of CoCrFeNiVAlx high entropy alloys based on solid solution strengthening (25/6-11/7/2018), (1-10/11/2018).

21) International Journal of Hydrogen Energy (Elsevier)
Total number of assigmnments**: 1**
Articles that I reviewed:
1- DESIGN AND SIMULATION OF A UNIFIED POWER QUALITY CONDITIONER FED BY SOLAR ENERGY (15-30/1/2015)

22) Materials Research Innovations (Taylor & Francis Group)
Total number of assigmnments**: 1**
Articles that I reviewed:

1- Substrate temperature effect on the structural, morphological and optical properties of CdTe films (5/8-4/9/2016)

23) Renewable Energy and Environmental Sustainability (EDP Sciences)
Total number of assigmnments**: 4**
Articles that I reviewed:
1- In situ Neutron diffraction studies of operating MGA thermal storage materials
2- Micro-Optical Structures for Daylighting and LED Systems
3- Temperature Difference with Respect to Exposure Time for Black Paint and Galena Powder-Black Paint Composite Selective Surfaces
4- Polymer templated nickel cobaltate for energy storage

24) Journal of Physics and Chemistry of Solids (Elsevier)
Total number of assigmnments**: 1**
Articles that I reviewed:
1- First principles calculations of the energetic, structural, electronic, and magnetic properties of Fe/Ir(100) system (27/9-3/10/2017).

25) Journal of Energy Systems (*JES*) (DergiPark)
Total number of assigmnments**: 3**
Articles that I reviewed:
1- Modeling and Optimization of a Superstrate solar cell based on $Cu_2ZnSn(S_xSe_{1-x})_4$/ZnS Structure (3/9/2017)
2- InP based converter cells under DC plasma influence (20/12/2019)
3- Performance and Durability of Thin Film Solar Cells via Testing the Abrasion Resistance of Broadband Anti-reflection Coatings (25/8/2021)
4- Graphical Analysis of PV Panels with Solar Charge Controller System (5/3/2022)

26) Global Conference on Renewables and Energy Efficiency for DEsert Regions, Amman – Jordan, March 31st -April 2nd, 2009.
Articles that I reviewed:
1- The $Al_xGa_{1-x}As$ Window Composition Effect on the Hardness Improvement of a p+-n- n+ GaAs Solar Cell Exposed to the Electron Irradiation.
2- Computer Modelling of the Effect of Irradiation by Electrons on the Performance of GaAs p+-n-n+ Solar Cells.

27) The Second Zarga Scientific and Engineering Conference, Zarga, Jordan, 24-25/11/2010.
Articles that I reviewed:
1- Improvement of nanostructured solar cell efficiency prepared by photoelectrochemical etching.
2- Neutral Polyethylene Oxide with a Cofactor is Recommended for Particle Flocculation.

28) TMS 2012, *141th Annual Meeting & Exhibition* which was held at Swan and Dolphin Resort in Walt Disney World, Orlando, Florida USA from March 11-15, 2012. *(Symposium:* Characterization of Minerals, Metals and Materials*)*
Articles that I reviewed:
1- Thermal properties of Polyester composites incorporated with Coir fiber.

2- The characteristics of optical recording media affected by the accelerating aging test.
3- Influence of La_2O_3 additive content on the phase stability, sintering and microstructure of 8 Mol% Y_2O_3 stabilized cubic zirconia (8YSZ) ceramic used for solid oxide fuel cell applications.
4- Structure-property correlation of xPb($Ni_{0.33}Nb_{0.67}$)O_3-(1-x)Pb($Zr_{0.31}Ti_{0.69}$)O_3 based relaxor-ferroelectric ceramics synthesized via columbite precursor method.
5- Characterization and preparation of anti-reflection coatings in the range of 3-5 μm for Si optical window.

29) TMS 2013, *141th Annual Meeting & Exhibition* which was held at Swan and Dolphin Resort in Walt Disney World, Orlando, Florida USA from March 11-15, 2012.

Articles that I reviewed (Symposium: Solar Cell Silicon *:*

1- Antireflective Silicon Nanostructures fabricated by cheap chemical etchant and coated by atomic layer deposited Al_2O_3 Layer.

30) TMS 2014, *143th Annual Meeting & Exhibition* which was held at San Diego, California , USA from February 16-20, 2014 .

Articles that I reviewed

(*Symposium: Characterization of Minerals, Metals and Materials):*

1- Characterization Of Clay Brick Incorporated With Ash From The Incineration Of Urban Garbage
2- Modified Hydrotalcites as Desulfurization Adsorbents: Preparation, Characterization, and Performance Test
3- A kinetic analysis of a thermal curing reaction of a silicon resin in solid state
4- INVESTIGATION ON THE THERMAL CONDUCTIVITY OF RESIN COMPOSITE MATERIALS
5- OBTAINING THE POLYSTYRENE-BENTONITE NANOCOMPOSITE AS AN ALTERNATIVE TO POLYSTYRENE DISCARDED RECYCLING.
6- THERMAL ANALYSIS AND CHARACTERIZATION OF ELEPHANT GRASS ASH (PENNISETUM PURUPUREUMS SHAUM) INCORPORATED INTO CLAY MATRIX
7- HALOGEN FREE FLAME RETARDANT FOR ABS COMPOSITE WITH OXIDES NANOPARTICLES
8- OBTAINING NANOCAPSULES FROM PHBEG/MMT COMPOSITE
9- FORMULATION AND CHARACTERIZATION OF BIOCOMPOSITES WITH NANODIAMOND FOR ORTHOPEDIC APPLICATIONS
10- EFFECTS OF GREEN CALCIUM CARBONATE ADDITION ON MECHANICAL AND MORPHOLOGICAL PROPERTIES OF FLEXIBLE FILMS BASED ON BIODEGRADABLE POLYMER
11- METHOD FOR REMOVAL OF MERCURY FROM OIL FIELD BRINE WITH CALCIUM CARBONATE CO-PRECIPITATION

(*Symposium:Solar Cell Silicon):*

1- ELECTROCHEMICAL DEPOSITION OF HIGH PURITY SILICON FROM MOLTEN FLUORIDE ELECTROLYTES.
2- EFFECT OF GRAIN ORIENTATION AND COOLING RATE ON STRESS DISTRIBUTION IN A SMALL SCALE SILICON INGOT.
3- NEW APPLICATIONS OF SHEET CASTING OF SILICON AND SILICON COMPOSITES.

31) TMS 2015, *143th Annual Meeting & Exhibition* which was held at at Orlando, FL, USA, March 15-19, 2015.

Articles that I reviewed

(*Symposium: Characterization of Minerals, Metals and Materials):*

1- SHAPEMEMORY CHARACTERISTICS OF RAPIDLY SOLIDIFIED Ti-37,8Cu-18,7Ni ALLOY RIBBONS
2- EFFECTS OF CASTING CONDITIONS ON THE STRUCTURE AND MAGNETIC PROPERTIES OF THE Co-19 at.%Al-6 at. %W ALLOY
3- IMPROVED HYDROGEN STORAGE PROPERTIES OF MG(BH4)2-MG(ALH4)2 COMBINED SYSTEMS
4- MECHANICAL PROPERTIES OF POLYPROPYLENENANOCOMPOSITES WITH ORGANOCLAY AND DISCARDED BOND PAPER
5- Study on the Recovery of Mercury and Lead from Wastewater by Sulfide Precipitation-Flotation
6- BIODEGRADABLE STARCH/COPOLYESTERS FILM REINFORCED WITH SILICA NANOPARTICLES – PREPARATION AND CHARACTERIZATION
7- STUDY OF WETTABILITY OF CLAYEY CERAMIC AND FLUORESCENT LAMP GLASS WASTE POWDERS
8- CYANIDATION STUDY OF SLAG RICH IN SILVER
9- Wear resistance of artificial stones produced with two contents of an unsaturated polyester
10- Characterization of the phase composition of nano sized lithium titanates synthesized by inductive thermal plasma

Symposium:Solar Cell Silicon):

1- DIRECTIONAL GROWTH OF BULK SILICON FROM SILICON-ALUMINUM-TIN MELTS
2- EFFECT OF TEMPERATURE IN EXTRACTION OF HIGH PURITY AMORPHOUS SILICA FROM RICE HUSK FOR SILICON PRODUCTION.

32) ECRES 2015

Articles that I reviewed

1- Determine the dimensions of the solar field for ISCCS in Libya

33) TMS 2016, *145th Annual Meeting & Exhibition* which was held at held at Nashville, Tennessee, February 14 – 18, 2016.

Articles that I reviewed

1- DETERMINATION OF THE STABILITY CONSTANTS OF MIXED-LIGAND COORDINATION COMPOUNDSIN THE Zn(II)-NITRILOTRIACETIC ACID-AMMONIA SYSTEM

2- PROPERTIES OF CERAMIC PIGMENT Zn0.5Cu0.5Cr2O4 SYNTHESIZED BY SOLUTION COMBUSTION METHOD
3- EFFECTS OF GRAPHENE OXIDE ADDITION ON MECHANICAL AND MORPHOLOGICAL PROPERTIES OF EVOH FILMS
4- EVALUATION OF THE OPTICAL PROPERTIES OF GLASS PREPARED USING OTAMIRI SAND
5- Green synthesis, characterization and stabilization of AgNPs with *Thuja orientalis* extract
6- TRIBOLOGICAL TESTING, ANALYSIS AND CHARACTERIZATION OF D.C. MAGNETRON SPUTTERED Ti-Nb-N THIN FILM COATINGS ON STAINLESS STEEL
7- Effects of carbon black incorporation on morphological, mechanical and thermal properties of biodegradable films
8- RESONANCES OF MICROWAVE POWER ABSORPTION IN ALUMINA AND SILICON CARBIDE

34) TMS 2017, *146th Annual Meeting & Exhibition* which was held at held at San Diego, California, February 27 – March 2, 2017.

Articles that I reviewed

1) Characterization of Minerals, Metals, and Materials 2017

1- SYNTHESIS AND STRUCTURAL CHARACTERIZATION OF $BaTiO_3$ DOPED WITH Gd^{3+}
2- SYNTHESIS OF TiN NANO-COMPOSITE POWDER BY HIGH-ENERGY BALL MILLING OF TiH_2 UNDER NITROGEN ATMOSPHERE
3- Phase Transformation of MnO_2 and Fe_2O_3 Briquettes Roasted Under CO-CO_2 Atmospheres
4- Texture analysis and anisotropic properties of a rolled CuZn36 brass alloy
5- Surface characterization of FeS_2 and pulp during grinding in an inert mill.

2) Solar Cell Silicon

1- Effect of magnesium addition on removal of impurities from silicon by hydrometallurgical treatment
2- Investigation on Quartz Crucibles for Monocrystalline Silicon Ingots for Solar Cells
3- Particle Separation in Silicon Ingot Casting Using AC Magnetic Field
4- Study on Producing Solar Grade Silicon by Carbothermal Reduction of Andalusite Ore
5- EVAORATION REMOVAL OF BORON IN MOLTEN SILICON USING REACTIVE FLUXES
6- EVAORATION REMOVAL OF BORON IN MOLTEN SILICON USING REACTIVE FLUXES

35) TMS 2018, *147th Annual Meeting & Exhibition* which was held at held at Phoenix, Arizona, California,– March 11-15, 2018.

Articles that I reviewed

1) Characterization of Minerals, Metals, and Materials 2018

1- Applications of Aberration-corrected Low-energy Electron Microscopy for Metal Surfaces

2- THERMOGRAVIMETRIC ANALYSIS ON REDUCTION BEHAVIOR OF POWDERY DICALCIUM FERRITE
3- STUDY ON APPLICATION OF IRON ORE FINE IN PELLETIZING
4- CHARACTERIZATION OF HPGR PRE-TREATED SINTER FEED
5- BENDING MECHANICAL BEHAVIOR OF EPOXY MATRIX REINFORCED WITH FIQUE FABRIC
6- Precipitating behaviour of second phase particles in lightweight Fe-Mn-Al-C-N stainless steel

36) TMS 2019, *148th Annual Meeting & Exhibition* which was held at held at San Antonio, TX, USA- March 10-14, 2019.

Articles that I reviewed

1) Characterization of Minerals, Metals, and Materials 2019

1- The influence of microstructure and emissivity of NiO doped Fe_3O_4 spinel structure on near and middle infrared radiation
2- Sinterability of Y-doped $BaZrO_3$ with micro and nano CaO additives and its interaction with titanium alloy
3- INCORPORATION OF SILVER NANOPARTICLES IN ZINC OXIDE MATRIX INPOLYESTER THERMOPLASTIC ELASTOMER (TPE-E) AIMINGANTIBACTERIAL ACTIVITY
4- THE PROPERTIES OF THE SOIL IN THE MUNICIPAL AREA OF CAMPOS DOS GOYTACAZES - RJ, BRAZIL, AND THE POSSIBILITY OF ITS USE IN THE PRODUCTION OF PRESSED BLOCKS
5- A Study of the load stages by the displacement of mortars composed of ornamental stone residues by the method of squeeze flow
6- Structure, phase, composition, and properties of ceramics based on $AlMgB_{14}$, obtained from various powders
7- Study of the electrical properties of rGO obtained by different GO reduction methods

2) Green Materials Engineering: An EPD Symposium in Honor of Sergio Monteiro

1- Application of natural nanoparticles in polymeric blend of HMSPP/SEBS for biocide activity
2- NATURAL FIBERS REINFORCED POLYMER COMPOSITES APPLIED IN BALLISTIC MULTILAYERED ARMOR FOR PERSONAL PROTECTION - AN OVERVIEW
3- BALLISTIC TEST OF MULTILAYERED ARMOR WITH INTERMEDIATE POLYESTER COMPOSITE REINFORCED WITH FIQUE FABRIC
4- IZOD IMPACT TEST ON EPOXY COMPOSITES REINFORCED WITH MALLOW FIBERS
5- PIASSAVA FIBERS: MORPHOLOGIC AND SPECTROSCOPIC ASPECTS
6- REUSE OF QUARRY WASTE IN ARTIFICIAL STONE PRODUCTION WITH USING VACUUM, COMPRESSION AND VIBRATION
7- IZOD IMPACT TESTING IN COMPOSITES WITH VEGETAL POLIURETHANE MATRIX REINFORCED BY COTTON FABRIC
8- Impact energy evaluation of natural castor oil polyurethane matrix composites reinforced with jute fabric

9- Study of the Incorporation of Waste from the Paper Industry in Ceramic Tiles

37) TMS 2020, *149th Annual Meeting & Exhibition* which will be held at held at San Diago, CA, USA- February 23-27, 2020.

Articles that I reviewed

1) Characterization of Minerals, Metals, and Materials 2020
1- Analysis of β′ (Cu_4Ti) Precipitation during Isothermal Aging of a Cu-4wt.%Ti Alloy
2- Removing Arsenic from the $NiSO_4$ solution using modified D301 resin
3- Preparation of lithium ion battery anode materials from precipitation flotation product
4- Fabrication of ultra-high molecular weight polyethylene membrane with enhanced permeability and evaluation of physical characteristics for wastewater treatment.
5- A new method to obtain cellulose nanofiber from wood
6- Influence of sealing mortar in the strength of compression of the structural masonry ceramic.
7- Preparation of Insulating Materials from Ferronickel Slag with Addition of Fly Ash Cenosphere
8- Development and characterization of a luminescent coating for asphalt pavements
9- A bibliometric analysis on strategy and performance of the development of matrix polymers in the scenarios of Brazil and the world.
10- Microstructure Evolution of Additively Manufactured TiC Reinforced Graded Metal Matrix Composite
11- Processing and Characterization of Polyethylene-AgNPs Films – Biocide Effect

38) TMS 2022,

Articles that I reviewed

1- Application of flue gas desulfurization waste for the production of geopolymer tiles.
2- Characterization of mortar in fresh state with the addition of açai fiber
3- Characterization and stain analysis in natural and artificial rocks
4- Comparative study of staining resistance for polished and resined silicatic ornamental rocks

39) TMS 2023,

Articles that I reviewed

1- Influence of the time of staining agents on ornamental rocks
2- Characterization of Açaí Fibers (Euterpe Oleracea Mart.) for Application in Cement Composites
3- Analysis of the properties in the hardened state of an alkali activated paste of metakaolin and flue gas desulfurization (FGD) residue
4- Durability of alkali activated tiles produced with residual gray from the ceramic industry
5- Analysis of the performance of cementitious mortars reinforced with pineapple crown leaf fiber and coconut fiber
6- Analysis of the properties in the fresh state of alkali activated paste of metakaolin and flue gas desulfurization waste

FOUNDER AND EDITOR IN CHIEF OF THE BOOK SERIES

Advances in Materials Research and Technologies, Springer International Publishing, 2020. ISSN: 2662-4761
https://www.springer.com/series/16426

Volumes:

1- **Shadia Jamil Ikhmayies (**Editor**). Advances in Energy Materials**. Springer International Publishing, 2020. eBook ISBN: 978-3-030-50108-2, Hardcover ISBN: 978-3-030-50107-5, Series ISSN: 2662-4761. DOI: 10.1007/978-3-030-50108-2. https://www.springer.com/series/16426
2- Nayak, Amit Kumar, Hasnain, Md Saquib (Editors). **Advanced Biopolymeric Systems for Drug Delivery.** Springer International Publishing, 2020. eBook ISBN: 978-3-030-46923-8. Hardcover ISBN: 978-3-030-46922-1. Series ISSN: 2662-4761. DOI: 10.1007/978-3-030-46923-8. https://www.springer.com/gp/book/9783030469221
3- Omran, Basma, Abdelsalam, Mohamed (Authors). **A New Era for Microbial Corrosion Mitigation Using Nanotechnology: Biocorrosion and Nanotechnology**. Springer International Publishing, 2020. eBook ISBN: 978-3-030-49532-9. Hardcover ISBN: 978-3-030-49531-2. Series ISSN: 2662-4761. DOI: 10.1007/978-3-030-49532-9. https://www.springer.com/gp/book/9783030495312
4- **Shadia Jamil Ikhmayies** and Hilal Kurt (Editors).**Advances in Optoelectronic Materials.** Springer International Publishing, 2021. eBook ISBN: 978-3-030-57737-7. Hardcover ISBN: 978-3-030-57736-0. Series ISSN: 2662-4761. DOI: 10.1007/978-3-030-57737-7. https://www.springer.com/gp/book/9783030577360
5- J. Radhakrishnan, Sunil Pathak (Editors). **Advanced Engineering of Materials Through Lasers.** Springer Cham, 2022. Hardcover ISBN: 978-3-031-03829-7. Softcover ISBN: 978-3-031-03832-7. eBook ISBN: 978-3-031-03830-3. Series ISSN: 2662-4761. DOI: https://doi.org/10.1007/978-3-031-03830-3
6- Hasnain Md Saquib, Nayak Amit Kumar, Alkahtani Saad (Editors). **Polymeric and Natural Composites: Materials, Manufacturing and Biomedical Applications**. Springer Cham, 2021. Hardcover ISBN: 978-3-030-70265-6. Softcover ISBN: 978-3-030-70268-7. eBook ISBN: 978-3-030-70266-3. Series ISSN: 2662-4761. DOI: https://doi.org/10.1007/978-3-030-70266-3
7- **Shadia Jamil Ikhmayies** (Editor). **Advanced Nanomaterials**. Springer Cham, 2022. Hardcover ISBN: 978-3-031-11995-8. Softcover ISBN: 978-3-031-11998-9. eBook ISBN: 978-3-031-11996-5Series ISSN: 2662-4761. DOI:10.1007/978-3-030-70266-3. https://link.springer.com/book/9783031119989
8- Sumanta Sahoo, Santosh Kumar Tiwari, and Ashok Kumar Das (Editors). **Defect Engineering of Carbon Nanostructures**. Springer Cham, 2022. Hardcover ISBN: 978-3-030-94374-5.Softcover ISBN: 978-3-030-94377-6. eBook ISBN: 978-3-030-94375-2. Series ISSN: 2662-4761. DOI: https://doi.org/10.1007/978-3-030-94375-2
9- Nithyadharseni Palaniyandy, K. P. Abhilash, B. Nalini (Editors). **Solid State Batteries: Design, Challenges and Market Demands.** Springer Cham, 2022. Hardcover ISBN: 978-3-031-12469-3. Softcover ISBN: 978-3-031-12472-3. eBook ISBN: 978-3-031-12470-9. Series ISSN: 2662-4761. DOI: https://doi.org/10.1007/978-3-031-12470-9

10- Md Saquib Hasnain, Amit Kumar Nayak, Saad Alkahtani (Editors). **Polymeric and Natural Composites: Materials, Manufacturing and Biomedical Applications.** Springer Cham, 2022. Hardcover ISBN: 978-3-030-70265-6. Softcover ISBN: 978-3-030-70268-7. eBook ISBN: 978-3-030-70266-3. Series ISSN: 2662-4761. DOI: https://doi.org/10.1007/978-3-030-70266-3
11- **Shadia Jamil Ikhmayies** (Editor). **Advances in Glass Research.** Springer Cham, 2023. Hardcover ISBN: 978-3-031-20265-0. Softcover ISBN: 978-3-031-20268-1. eBook ISBN: 978-3-031-20266-7. Series ISSN: 2662-4761. DOI: https://doi.org/10.1007/978-3-031-20266-7
12- Md Saquib Hasnain, Amit Kumar Nayak, Saad Alkahtani (Editors). **Carbon Nanostructures in Biomedical Applications.** Springer Cham, 2023. Hardcover ISBN: 978-3-031-28262-1. Softcover ISBN:978-3-031-28265-2. eBook ISBN: 978-3-031-28263-8. Series ISSN: 2662-4761. https://link.springer.com/book/9783031282621
13- Meththika Vithanage, Giuseppe Lazzara, Anushka Upamali Rajapaksha (Editors). **Clay Composites: Environmental Applications.** Springer Singapore, 2023. Book ISBN: 978-981-99-2544-5. Hardcover ISBN: 978-981-99-2543-8, Softcover ISBN: 978-981-99-2546-9. Series ISSN: 2662-4761. https://link.springer.com/book/9789819925438
14- Jai Prakash, Junghyun Cho, Bruno Campos Janegitz, Shuhui Sun (Editors). **Multifunctional Hybrid Semiconductor Photocatalyst Nanomaterials: Application on Health, Energy and Environment.** Springer Cham, 2023. Hardcover ISBN: 978-3-031-39480-5, Softcover ISBN: 978-3-031-39483-6, eBook ISBN: 978-3-031-39481-2, Series ISSN: 2662-4761. https://link.springer.com/book/9783031394805
15- **Shadia Jamil Ikhmayies** (Editor). **Advanced Ceramics.** Springer Cham, 2023. Hardcover ISBN: 978-3-031-43917-9, Softcover ISBN: 978-3-031-43920-9, eBook ISBN: 978-3-031-43918-6, Series ISSN 2662-4761. https://link.springer.com/book/9783031439179
16- **Shadia Jamil Ikhmayies** (Editor). **Advanced composites.** Springer Cham, 2023. Hardcover ISBN: 978-3-031-42730-5, Softcover ISBN: 978-3-031-42733-6, eBook ISBN: 978-3-031-42731-2. Series ISSN: 2662-4761. https://link.springer.com/book/9783031427305
17- **Shadia Jamil Ikhmayies** (Editor). **Advances in Catalysts Research,** Springer Cham, 2024. Hardcover ISBN: 978-3-031-49107-8, Softcover ISBN: 978-3-031-49110-8, eBook ISBN: 978-3-031-49108-5 Series ISSN: 2662-4761. https://link.springer.com/book/10.1007/978-3-031-49108-5
18- **Shadia Jamil Ikhmayies** (Editor). **Advances in Minerals Research**. Springer Cham, 2024. Hardcover ISBN: 978-3-031-49174-0, Softcover ISBN: 978-3-031-49177-1, eBook ISBN: 978-3-031-49175-7, Series ISSN: 2662-4761
19- **Shadia Jamil Ikhmayies** (Editor). **Advances in Alloys Research and Technologies.** Springer Cham, 2024. Hardcover ISBN: 978-3-031-57498-6, Softcover ISBN: 978-3-031-57501-3, eBook ISBN: 978-3-031-57499-3, Series ISSN: 2662-4761. https://link.springer.com/book/9783031574986
20- Advanced Polymers
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EDITOR IN CHIEF OF THE BOOKS:

1. **Shadia Jamil Ikhmayies**, Jian Li, Carlos Mauricio Vieira, Fabio de Oliveira Braga (Eds.), **Green Materials Engineering: An EPD Symposium in Honor of Sergio Monteiro**, Springer International Publishing, 2019. ISSN 2367-1181 ISSN 2367-1696 (electronic)
   The Minerals, Metals & Materials Series
   ISBN 978-3-030-10382-8 ISBN 978-3-030-10383-5 (eBook)
   https://doi.org/10.1007/978-3-030-10383-5
2. **Shadia Ikhmayies, Advances in Silicon Solar Cells**, Springer, 2018, eBook ISBN: 978-3-319-69703-1, Hardcover ISBN: 978-3-319-69702-4, DOI: 10.1007/978-3-319-69703-1
3. **Ikhmayies, S**., Li, B., Carpenter, J.S., Li, J., Hwang, J.-Y., Monteiro, S.N., Firrao, D., Zhang, M., Peng, Z., Escobedo-Diaz, J.P., Bai, C., Kalay, Y.E., Goswami, R., Kim, J. **Characterization of Minerals, Metals, and Materials 2017**, Springer, 2017, ISBN: 3319513826, 9783319513829. DOI: 10.1007/978-3-319-51382-9
4. **Shadia Ikhmayies**, Bowen Li , John S. Carpenter , Jiann-Yang Hwang, Sergio Neves Monteiro , Jian Li , Donato Firrao , Mingming Zhang , Zhiwei Peng , J. Pablo Escobedo-Diaz , Chengguang Bai, **Characterization of Minerals, Metals, and Materials 2016**, Publisher John Wiley & Sons Inc, New York, United States, ISBN10 1119264391, ISBN13 9781119264392. DOI:10.1002/9781119263722
5. **Advances in II-VI Compounds Suitable for Solar Cell Application**s, ISBN: 978-81-308-0533-7, Signpost publisher, 2014.

EDITOR OF THE BOOKS:

1. Editors: Li, J., Zhang, M., Li, B., Monteiro, S.N., **Ikhmayies, S.J.**, Kalay, Y.E., Hwang, J., Escobedo-Diaz, J.P., Carpenter, J.S., Brown, A.D., Soman, R., Moser, A. (Eds.), Characterization of Minerals, Metals, and Materials 2021, Springer International Publishing. eBook ISBN : 978-3-030-65493-1, Hardcover ISBN: 978-3-030-65492-4, DOI: 10.1007/978-3-030-65493-1
2. Editors: Bowen Li, Baojun Zhao, Jian Li, Sergio Neves Monteiro, Zhiwei Peng, Dean Gregurek, Tao Jiang, Yong Shi, Cuiping Huang, **Shadia Ikhmayies**. From Ideas to Practice: An EPD Symposium in Honor of Jiann-Yang Hwang (The Minerals, Metals & Materials Series), Springer; 1st ed. 2021 edition (14 February 2021). ISBN-10 : 3030652408 , ISBN-13 : 978-3030652401.
3. Editors: Li, J., Zhang, M., Li, B., Monteiro, S.N., **Ikhmayies, S.J.**, Kalay, Y.E., Hwang, J., Escobedo-Diaz, J.P., Carpenter, J.S., Brown, A.D. (Eds.), **Characterization of Minerals, Metals, and Materials 2020**, Springer International Publishing 2020, eBook

ISBN: 978-3-030-36628-5, Hardcover ISBN: 978-3-030-36627-8, The Minerals, Metals & Materials Series ISSN: 2367-1181. DOI: 10.1007/978-3-030-36628-5

4. Editors: Li, B., Li, J., **Ikhmayies, S**., Zhang, M., Kalay, Y.E., Carpenter, J.S., Hwang, J.-Y., Monteiro, S.N., Bai, C., Escobedo-Diaz, J.P., Spena, P.R., Goswami, R. (Eds.), **Characterization of Minerals, Metals, and Materials 2019**, Springer International Publishing, 2019. ISSN 2367-1181 ISSN 2367-1696 (electronic), The Minerals, Metals & Materials Series, ISBN 978-3-030-05748-0 ISBN 978-3-030-05749-7. DOI: 10.1007/978-3-030-05749-7
5. Editors: Tao Wang, Xiaobo Chen, Donna Post Guillen, Lei Zhang, Ziqi Sun, Cong Wang, Nawshad Haque, John A. Howarter, Neale R. Neelameggham, **Shadia Ikhmayies**, York R. Smith, Leili Tafaghodi, Amit Pandey. **Energy Technology 2019: Carbon Dioxide Management and Other Technologies**, Springer Internationa**l Publishing, 2019.** ISSN 2367-1181 ISSN 2367-1696 (electronic). The Minerals, Metals & Materials Series, ISBN 978-3-030-06208-8 ISBN 978-3-030-06209-5 (eBook). DOI: 10.1007/978-3-030-06209-5
6. Editors: Ziqi Sun, Cong Wang, Donna Post Guillen, Neale R. Neelameggham, Lei Zhang, John A. Howarter, Tao Wang, Elsa Olivetti, Mingming Zhang, Dirk Verhulst, Xiaofei Guan, Allie Anderson, **Shadia Ikhmayies**, York R. Smith, Amit Pandey, Sarma Pisupati, Huimin Lu. **Energy Technology 2018: Carbon Dioxide Management and Other Technologies**, Springer International Publishing, 2018, ISBN: 9783319723624. DOI: 10.1007/978-3-319-72362-4
7. **Editors:** Bowen Li, Jian Li, **Shadia Ikhmayies**, Mingming Zhang, Yunus Eren Kalay, John S. Carpenter, Jiann-Yang Hwang, Sergio Neves Monteiro, Donato Firrao, Andrew Brown, Chenguang Bai, Zhiwei Peng, Juan P. Escobedo-Diaz, Ramasis Goswami, Jeongguk Kim, **Characterization of Minerals, Metals, and Materials 2018,** Springer International Publishing, 2018, ISBN 978-3-319-72484-3. DOI: 10.1007/978-3-319-72484-3
8. Editors: Lei Zhang, Jaroslaw Drelich, Neale R. Neelameggham, Donna Post Guillen, Nawshad Haque, Jingxi Zhu, Ziqi Sun, Tao Wang, John A Howarter, Fiseha Tesfaye, **Shadia Ikhmayies**, Elsa Olivetti, Mark William Kennedy, **Energy Technology 2017: Carbon Dioxide Management and Other Technologies**, Springer, 2017, 3319521926, 9783319521923. DOI: 10.1007/978-3-319-52192-3
9. Editors: Carpenter, John, Bai, Chengguang, Pablo Escobedo-Diaz, J., Hwang, Jiann-Yang, **Ikhmayies, Shadia**, Li, Bowen, Li, Jian, Neves Monteiro, Sergio, Peng, Zhiwei, Zhang, Mingming, **Characterization Of Minerals, Metals, And Materials 2015,** Springer, ISBN-13: 9783319486017. DOI: 10.1007/978-3-319-48191-3
10. Editors: Yurko James, Allanore Antoine, Bartlett Laura Lee, Jonghyun Zhang Lifeng, Tranell Gabriella, Meteleva-Fischer Yulia, **Ikhmayies, Shadia**, Budiman Arief, Tripathy Prabhat, Fredrickson, Guy, **Epd Congress 2015**, Springer, ISBN-13: 9783319486093. DOI: 10.1007/978-3-319-48214-9
11. Editors: John S. Carpenter, Chengguang Bai, Jiann-Yang Hwang, **Shadia Ikhmayies**, Bowen Li, Sergio Neves Monteiro, Zhiwei Peng, Mingming Zhang, **Characterization of Minerals, Metals, and Materials 2014,** ISBN: 978-1-118-88786-8. DOI:10.1002/9781118888056
12. Editors: Jiann-Yang Hwang, Chengguang Bai, John S. Carpenter, **Shadia Ikhmayies,** Bowen Li, Sergio Neves Monteiro, Zhiwei Peng, Mingming Zhang, **Characterization of Minerals, Metals, and Materials 2013**, John Wiley & Sons, 2013, ISBN: 1118659058, 9781118659052. DOI:10.1002/9781118659045

AUTHER OF THE BOOKS:

1. **Silicon for Solar Cell Applications,** Springer, 2020 (Under Construction)
2. **Performance Optimization of CdS/CdTe Solar Cells**, Springer, 2020 (Under Construction)

FOUNDER AND EDITOR IN CHIEF OF THE JOURNAL

1. **Energy, Power, and Materials**, Springer (Proposal is under Review).

ASSOCIATE EDITOR OF THE JOURNALS:

1) Peak Journal of Physical and Environmental Science Research **(**PJPESR**)** (Peak Journals Publisher): January 26, 2013-2014.
2) Journal of Physics Express (Simplex Academic Publishers: India): September 3, 2012-31 December, 2012.

GUEST (SUBJECT) EDITOR OF THE JOURNALS:

1) Journal of Minerals, Metals and Materials JOM (Springer): Volume 75, issue 3, May 2023: Materials for Clean Energy Production and Storag (Invited). https://link.springer.com/journal/11837/volumes-and-issues/75-3
2) Journal of Minerals, Metals and Materials JOM (Springer): Volume 73, issue 5, May 2021: 8th European Conference on Renewable Energy Systems, (Invited). https://link.springer.com/journal/11837/volumes-and-issues/73-5
3) Journal of Minerals, Metals and Materials JOM (Springer): January 2021: Zinc oxide Nanotechnology, (Invited). https://link.springer.com/journal/11837/volumes-and-issues/73-1
4) Journal of Minerals, Metals and Materials JOM (Springer): November 2021: Silicon Production, Refining, Properties, and Photovoltaics, (Invited). https://link.springer.com/journal/11837/volumes-and-issues/73-1
5) Springer Nature of Applied Sciences (Springer): Topical Collection: Enerrgy, Power, and Materials Modelling" (Open for Submissions). https://www.springer.com/journal/42452/updates/17277406
6) Journal of Minerals, Metals and Materials JOM (Springer): Volume 72, Febreuray issue (2), 2020, Topical Collection: 7th Europian Conference on Energy Systems. Energy Materials. https://link.springer.com/journal/11837/72/2
7) Journal of Minerals, Metals and Materials JOM (Springer): July issue, 2020, Recycling Silicon and Silicon Compounds.
8) Journal of Electronic Materials, 6th European Conference on Renewable Energy Systems. ISSN: 0361-5235 (Print) 1543-186X (Online): Topical Collection: Electronic Materials for Renewable Energy Applications 2018. (Springer). https://link.springer.com/journal/11664/topicalCollection/AC_3f35de1f7a301a7cba08639633e33cc0/page/1
9) Journal of Minerals, Metals and Materials JOM (Springer): Volume 71, April issue (Issue 4), 2019, Energy Materials II. https://link.springer.com/journal/11837/71/4/page/2
10) Journal of Minerals, Metals and Materials JOM (Springer): Volume 71, Febreuary issue (Issue 2), 2019, Energy Materials I. https://link.springer.com/journal/11837/71/2/page/2

11) Journal of Electronic Materials: Volume 47, Issue 8, August 2018, Special Sections: 18th International Conference on II–VI Compounds and Related Materials. Guest Editors: Xinyu Liu and Aidong Shen; and 5th European Conference on Renewable Energy Systems. Guest Editors: Erol Kurt and Shadia Jamil Ikhmayies. ISSN: 0361-5235 (Print) 1543-186X (Online). https://link.springer.com/journal/11664/47/8
12) Key reader of the journal Metallurgical and Materials Transactions A, for the Characterization of Minerals, Metals, and Materials 2017, Volume 48, Topical Collection: Topical Collection: Characterization of Minerals, Metals, and Materials 2017. ISSN: 1073-5623 (Print) 1543-1940 (Online). https://link.springer.com/journal/11661/topicalCollection/AC_7d24f75fd40a63d779f1a7888aaaa6ab/page/1
13) Journal of Electronic Materials: Volume 46, Issue 7, July 2017. Special Topic on Superlattices, Nanostructures and Nanodevices. Guest Editor: Ruiqin Zhang. Special Topic on Materials Studies in Energy Systems. Guest Editors: Erol Kurt, Shadia Ikhmayies, and Ibrahim Sefa. ISSN: 0361-5235 (Print) 1543-186X (Online). https://link.springer.com/journal/11664/46/7
14) Journal of Electronic Materials: Volume 45, Issue 8, August 2016, Special Section: Third European. Conference on Renewable Energy Systems ECRES2015. (ISSN: 0361-5235 (Print) 1543-186X (Online)). https://link.springer.com/journal/11664/45/8
15) Journal of Minerals, Metals and Materials JOM (Springer): Volume 66, January Issue (Issue 1), 2014 (Characterization of Nanomaterials). https://link.springer.com/journal/11837/66/1

MEMBER OF THE EDITORIAL BOARD OF THE JOURNALS:

1) Optimum Science Journal: Member of the editorial board (Hason Publishing.). 2023, 01 December. https://optimumscience.org/index.php/pub
2) Journal of Amasya University the Institute of Sciences and Technology (DergiPark): Member of the editorial board, May 3, 2020.
3) Recent Patents on Materials Science: an Editorial Advisory Board Member (Bentham Science), September 7, 2018-August 28, 2019. Changed to: Current Materials Science: Editorial Board Member, August 28, 2019-Present. https://benthamscience.com/journals/current-materials-science/editorial-board/
4) Journal of Energy Systems (DergiPark): Field editor (Energy Issues in Material Engineering), 2017-Present. https://dergipark.org.tr/en/pub/jes/board
5) Journal of Physics Express (Simplex Academic Publishers): July 21, 2010- September 3, 2012.
6) International Journal of Materials and Chemistry (Scientific & Academic Publishing): December 5, 2011-Present. http://www.sapub.org/journal/editorialboard.aspx?journalid=1099

POSITIONS:

1) **Acting dean**, Faculty of Science, Al Isra University, June 18-25, 2017.
2) **Acting dean**, Faculty of Science, Al Isra University, May 2-7, 2017.
3) **Past chair** of the Characterization of Minerals, Metals, and Materials committee **Term**: 02/26/2017- 03/31/2019.

4) **Chair of Physics Department,** Faculty of Science, Al Isra University, November 1, 2016 to October 8, 2017
5) **Chair** for the Characterization of Minerals, Metals and Materials Committee (TMS): 2016 and 2017.
6) **Vice Chair** for the Characterization of Minerals, Metals and Materials Committee (TMS): 2014 and 2015.

CONFERENCES WITHOUT PAPERS AND PRESENTATIONS:

1. 10th SESAME Users' Meeting SESAME-JSPS School 7-9 November, 2012. Amman, Jordan.
2. 9th SESAME Users' Meeting SESAME-JSPS School 12-16 November, 2011. Amman, Jordan.
3. The Second Zarga Scientific and Engineering Conference, Zarga, Jordan, 24-25/11/2010.
4. 8th SESAME Users' Meeting 19-21 November, 2009. Petra, Jordan.
5. The International Conference on Materials in Jordan, 4-6 March 2009, German-Jordanian University (GJU), Amman, Jordan.
6. LINKSCEEM User Meeting, November 6, 2008, University of Jordan, Amman, Jordan.
7. Symposium on the Technology of Peaceful Nuclear Energy 14-16 October 2008, Organized by Center for Theoretical and Applied Physical Sciences (CTAPS), Yarmouk University, 211-63 Irbid-Jordan.
8. 6th SESAME Users' Meeting 17-19 November, 2007. Amman, Jordan.

WORKSHOPS: (in decending chronological order)

1. **The 8th Workshop of SESAME users**, University of Jordan, 3/5/2012.
2. **The 7th Workshop of SESAME users**, University of Jordan, 5/5/2011.
3. **ورشة تطوير الأداء المهني لأعضاء هيئة التدريس الجدد.** كلية العلوم التربوية، جامعة الإسراء، 2011/2/14
4. **The Workshop on Writing Papers and Proposals,** on 9th October 2010 during the 11th Eurasia conference on Chemical Sciences at the Dead Sea, Jordan 2010.
5. **The 6th Workshop of SESAME users**, University of Jordan, 6/5/2010.
6. **Jordan Environment Society (JES) Meeting**, Amman, Jordan, 27/2/2010.
7. **The National Renewable Energy Dialogue Workshop**, held in Amman, Jordan on Monday February 8th, 2010. Organized by Jordanian Renewable Energy Society (ESTEDAMA).
8. **3 Day LinkSCEEM HPC Workshop**: **HPC and its Usage**, 19th to 21st of January 2010, University of Jordan, Amman, Jordan.
9. **Workshop on computational physics using WIEN2K PACKAGE**, August 2nd, 2009, Organized by Center for Theoretical and Applied Physical Sciences (CTAPS).
10. **Workshop of Green Energy and Sustainability Strategy and Challenges**, held in Amman, Jordan on June 15th, 2009. Organized by Jordanian Renewable Energy Society (ESTEDAMA).
11. **The 5th Workshop of SESAME users**, Al-Zaytoonah University of Jordan, 7/5/2009.
12. **الدورة الإحصائية SPSS.** ، جامعة العلوم التطبيقية الخاصة، 3/6/2007 -7/6/2007
13. **The 3rd Workshop of SESAME users**, University of Jordan, 25/4/2007.
14. **Training Course on the Application of the Internet in Education**, Applied Science Private university, Amman-Jordan, 11 February 2007.
15. **دورة تأهيل أعضاء هيئة التدريس،** جامعة العلوم التطبيقية الخاصة، 27/9/2005 -3/10/2005
16. **MS DOS**, University of Jordan, 1992.

17. **Maintenance and Repairing of ordinary and colored Television**, University of Jordan, 1991.
18. **Advanced Training Course in Nuclear Instrumentation**, Held in Amman-Jordan from 2 June to 11 July 1990, organized by IAEA in cooperation with the Ministry of Energy and Mineral Resources, the Royal Scientific Society of Jordan and the University of Jordan.
19. **National Training Course in Nuclear Instrumentation**, Held in Amman-Jordan from 2 September to 12 October 1989, organized by IAEA in cooperation with the ministry of Energy and Mineral Resources, the Royal Scientific Society of Jordan and the University of Jordan.

CHAIR OF CONFERENCE SESSIONS:

1. TMS 2023, *152th Annual Meeting & Exhibition* which was held at San Diego, California, March 19-23, 2023. Symposium: Characterization of Minerals, Metals, and Materials 2023: Session: Advanced Characterization Methods II, Monday, 2:00-5:35 PM, 03/20/2023
2. 3rd International Hydrogen Energy Congress & Exhibitions. Gazi University, Ankara/TURKEY, 14-16 June 2021. ZOOM parallel session A. HALL MERSIN (15 June, 2021.Tuesday Afternoon).
3. TMS 2021 Virtual, *150th Annual Meeting & Exhibition*, March 15-18, 2021, Session: Characterization of Mechanical Properties, Wednesday 8:30 AM, 17/3/ 2021
4. TMS 2020, *149th Annual Meeting & Exhibition* which was held at San Diego, California, February 23-27, 2020
   1- Characterization of Minerals, Metals, and Materials 2020: Session: Characterization of Electronic and Magnetic Materials, Thursday 8:30 AM - 12:00 PM, 02/27/2020
   2- Solar Cell Silicon:
      - Session: Synthesis, Production, and Refyning, Monday 8:00 AM - 11:30 AM, 02/24/2020
      - Properties, Photovoltaics, and Other Applications, Monday 2:30 PM - 6:00 PM, 02/24/2020
5. TMS 2019, *148th Annual Meeting & Exhibition* which was held at San Antonio, Texas, USA, March 10-14, 2019
   1- Characterization of Minerals, Metals, and Materials: Process and Characteristics of Advanced Ceramics and Glasses II. Wednesday 8:30 AM, March 13, 2019.
   2- Solar Cell Silicon : Properties, Impurities, and Refining. Wednesday 2:00 PM, March 13, 2019.
6. International Computational Science Congress (CSC)" which was held in Amasya (Turkey), October 26-28, 2018: Session II, 26/10/2018, Friday (15:30-17:00).
7. World Renewable Energy Congress – 18, Penrhyn Road, Kingston University, Surrey KT1 2EE, UK, 30 July – 3 August 2018: Technical Sessions-3, THURSDAY – 2 AUGUST, 2018.
8. VI. EUROPEAN CONFERENCE on RENEWABLE ENERGY SYSTEMS (ECRES 2018), which was held at , Istanbul, Turkey, 25-27 June 2018:
   1- Special Session 4, Energy Materials: Production and Characterization
   2- Parallel Session 10, MATERIAL CHARACTERIZATION.
9. TMS 2018, *147th Annual Meeting & Exhibition* which was held at Diego, California, February 26-March 2, 2017

1- Characterization of Minerals, Metals, and Materials 2018. Session: Analysis of Surfaces and Interfaces.
2- Mechanical Characteristics and Application Properties of Metals and Non-metals for Technology: An EPD Symposium in Honor of Donato Firrao. Session: Compounds and Alloys.
3- Solar Cell Silicon. Session: Silicon Photovoltaics.

10. 5. EUROPEAN CONFERENCE on RENEWABLE ENERGY SYSTEMS (ECRES2017), which was held at SARAJEVO/Bosnia and Herzegovina at 27-30 August 2017. Session: Material Exploration and Characterization.
11. The fourth WREN-WREC Med Green Forum, which was held at the University of Florence, 31 July – 2 August, 2017. Session: TECHNICAL Session 5.
12. TMS 2017, *146th Annual Meeting & Exhibition* which was held at San Diego, California, February 26-March 2, 2017.
    1- Characterization of Minerals, Metals, and Materials 2017. Session: Characterization of Electronic, Magnetic, Environmental, and Advanced Materials.
    2- Solar Cell Silicon Symposium. Session: Silicon Production, Crystallization, and Properties
13. TMS 2016, *145th Annual Meeting & Exhibition* which was held at held at Nashville, Tennessee, February 14 – 18, 2016.
    Characterization of Minerals, Metals and Materials Committee. Session: Characterization of Electronic, Magnetic, Environmental, and Advanced Materials.
14. The Third European Conference on Renewable Energy Systems (ECRES2015). Session: Characterization of Energy Materials which was held at Antalya, TURKEY, 7-10 Oct. 2015.
15. 8th International Conference on Thermal Engineering: Theory and Applications ICTEA, May 18-21, 2015, Amman-Jordan. Session: Transport Phenomina
16. TMS 2015, *144th Annual Meeting & Exhibition* which was held at Orlando, FL, USA, March 15-19, 2015.
    1- Characterization of Minerals, Metals, and Materials Committee. Session: Characterization of Electronic, Magnetic, Environmental, and Advanced Materials
17. International Conference on Nuclear & Renewable Energy Resources held in Antalya, Turkey between 26-29 October 2014, Sessions:
    1- Bio-energy researches and policy.
    2- Materials modeling for energy systems
    3- Thermodynamic Issues in Energy.

10. TMS 2014, *143th Annual Meeting & Exhibition* which was held at San Diego, California , USA from February 16-20, 2014
    1- Characterization of Minerals, Metals and Materials 2014. Session: Characterization of Environmental Materials.
    2- Solar Cell Silicon. Thursday PM, March 6, Session: Silicon Refining.
11. The II. European Conference & Workshop on Renewable Energy Systems, 20-30 September 2013, Antalya, Türkiye. Friday PM. September 20, Session: Solar Energy Applications.
12. TMS 2013, *142th Annual Meeting & Exhibition* which was held in San Antonio, Texas, USA from March 3-7, 2013.
    1- Characterization of Minerals, Metals and Materials 2013. Wednesday PM, March 6, Session: Characterization of Advanced Materials.

2- Solar Cell Silicon. Session: Silicon Production and Refining.

13. TMS 2012, *141th Annual Meeting & Exhibition* which was held in Orlando, Florida, USA from March 11-15, 2012. Characterization of Minerals, Metals and Materials,
    1- Characterization of Minerals, Metals, and Materials. Session: Characterization of Environmental and Construction Materials.
14. TMS 2011, *140th Annual Meeting & Exhibition* which was held in San Diego, California , USA from February 27 to March 3, 2011:
    1- Symposium: Characterization of Minerals, Metals and Materials,
        – Session: Characterization of Non-Ferrous Alloys.
        – Session: Nanomaterials, Nanotechniques and Thin Films.
    2- Solar Cell Silicon.
        – Session: Production and Recycling.
        – Session: Silicon Production, Purification and Recycling for Photovoltaic Cells.
15. Fifth International Conference on Thermal Engineering: Theory and Application May 10-14, 2010, Marrakesh, Morocco. Session: Internal Flow and Heat transfer.
16. TMS 2010, 139th Annual Meeting & Exhibition, 14-18 February 2010 in Whashington, Symposium: Characterization of Minerals, Metals and Materials, Tuesday AM Session 4: Characterization of Grain Size, Refractive Index, and Tomography.

PUPLICATIONS (in decending chronological order)

a. Journal Papers

1. **Shadia J. Ikhmayies,** Fine Structured Red-Band Tail Photoluminescence (PL) Spectra of Nanocrystalline CdS:In Thin Films, *JOM*. 73, (2021) *JOM*. 73, (2021),
2. **Shadia J. Ikhmayies,** Spray-Deposited Coral-Like ZnO Micro/Nano Thin Films on Glass Substrates, *JOM*. 73, (2021), 356–363. DOI: https://doi.org/10.1007/s11837-020-04495-9
3. **Shadia J. Ikhmayies,** Thermo-Calc Determination of the Phase Diagram of Si-B Binary System, *JOM*. 73, (2021), 253–259. DOI: 10.1007/s11837-020-04467-z
4. **Shadia J. Ikhmayies,** Using thermo-calc software to produce the phase diagram of Zn-Te system, *Journal of Energy System.* 4(3) (2020), 88-95.
5. **Shadia J. Ikhmayies,** A study of the optical parameters of CdS thin films prepared by thermal evaporation. *Journal of Amasya University the Institute of Sciences and Technology*. (2020), 47-63. https://dergipark.org.tr/tr/pub/jauist/issue/55760/751316
6. **Shadia J. Ikhmayies,** Recycling Silicon and Silicon Compounds. JOM, 72(7) (2020), 2612-2614. DOI: 10.1007/s11837-020-04218-0.
7. **Shadia J. Ikhmayies,** Production of Three-Dimensional ZnO Multilayered Structures from Self-Assembled ZnO Microdiscs. JOM 72, 628–634 (2020). https://doi.org/10.1007/s11837-019-03953-3
8. **Shadia J. Ikhmayies,** Synthesis of Flower-Like ZnO Micro/Nano Structures by the Spray Pyrolysis Technique. JOM 72, 621–627 (2020). https://doi.org/10.1007/s11837-019-03952-4
9. **Shadia J. Ikhmayies,** Spray deposited thin films of SnO_2: F/CdS: In bilayers produced using different fluorine sources: NH4F and HF, Journal of Energy Systems 3(3), (2019), 111-122. https://doi.org/10.30521/jes.605085

10. **Shadia J. Ikhmayies,** Sufian Abedrabbo, Bashar Lahlouh, Influence of the Deposition Temperature on the Structure, Morphology, and Optical Properties of Thermally Evaporated CdTe Thin Films, Journal of Electronic Materials, (2019). https://doi.org/10.1007/s11664-019-07205-7
11. **Shadia J. Ikhmayies**, Optical Parameters of Nanocrystalline SnO_2:F Thin Films Prepared by the Spray Pyrolysis Method, JOM 71(4), (2019), 1507-1512. https://doi.org/10.1007/s11837-019-03388-w
12. **Shadia J. Ikhmayies**, A study of the absorption Edge of CdS:In Thin Films, *International Journal of Materials and Chemistry* 8(1), (2018), 10-14. doi: 10.5923/j.ijmc.20180801.02.
13. Bashar I. Lahlouh, **Shadia J. Ikhmayies**, Hassan K. Juwhari, Structural, Optical, and Vibrational Properties of ZnO Microrods Deposited on Silicon Substrate, Journal of Elec Materi 47 (8) (2018), 4455–4462.
14. **Shadia J. Ikhmayies,** Properties of SnO_2:F thin films prepared by using HF or NH_4F after exposure to atmosphere. Journal of Energy Systems 1(3) (2017): 120-128.
15. **Shadia J. Ikhmayies,** Properties of the CdS_xTe_{1-x} solid solution: As a single product and as a part of the CdS/CdTe solar cell, *Journal of Energy Systems* 2017; 1(3):102-110.
16. **Shadia J. Ikhmayies,** Mohamad B. Zbib, Spray Pyrolysis synthesis of ZnO Micro/Nano Rods on Glass substrates, *Journal of Electronic Materials,* 46(10) (2017), 5629-5634.
17. **Shadia J. Ikhmayies,** Formation of Three Dimensional ZnO Micro Flowers from self Assembled ZnO Micro Discs, *Metallurgical and Materials Transactions A*, 48(8) (2017), 3625-3629.
18. **Shadia J. Ikhmayies,** , Mohamad B. Zbib, Synthesis of ZnO Hexagonal Micro Discs on Glass Substrates Using the Spray Pyrolysis Technique, *Journal of Electronic Materials* 46(7) (2017), 3982-3986.
19. Hassan K. Juwhari, **Shadia J. Ikhmayies**, Bashar Lahlouh, Room Temperature Photoluminescence of Spray-Deposited ZnO Thin Films on Glass Substrates, International *Journal of Hydrogen Energy*. 42 (28) (2017), 17741-17747.
20. **Shadia J. Ikhmayies**, The Influence of Heat Treatment on the Optical Parameters of Spray-Deposited CdS:In Thin Films, *JOM* 69 (2) (2017), 144-161.
21. **Shadia J Ikhmayies**, Optical Parameters of Spray-Deposited $CdS_{1-y}Te_y$ Thin Films, *JOM* 69 (2) (2017), 191–197.
22. **Shadia J. Ikhmayies**, S-Rich CdS_{1-y}Tey Thin Films Produced by the Spray Pyrolysis Technique, *Energies* 9, (2016), Article No. 234.
23. **Shadia J. Ikhmayies,** The Influence of Annealing on the Optical Properties of Spray-Deposited SnO_2:F Thin Films, *International Journal of Hydrogen Energy*, 41 (29) (2016), 12626-12633. https://doi.org/10.1016/j.ijhydene.2016.02.039. (**IT = 4.939**)
24. **Shadia J. Ikhmayies,** Synthesis of ZnO Microrods by the Spray Pyrolysis Technique, *Journal of Electronic Materials* 45(8) (2016), 3964-3969. DOI: https://doi.org/10.1007/s11664-016-4468-7 (**IT = 1.774**).
25. **Shadia J. Ikhmayies,** Naseem M. Abu El-Haija and Riyad N. Ahmad-Bitar. A Comparison between Different Ohmic Contacts for ZnO Thin Films, *Journal of Semiconductors* 36 (3) (2015), Article No. 033005-1-6.
26. **Shadia J. Ikhmayies** and Riyad N Ahmad-Bitar, Dependence of the photoluminescence of CdS:In thin films on the excitation power of the laser, *Journal of Luminescence* 149, (2014), 240-244. https://doi.org/10.1016/j.jlumin.2014.01.046 (**IT = 3.28**).
27. **Shadia J. Ikhmayies,** Characterization of nanomaterials, *JOM*. 67 (1) (2014) (Technical Topic Commentary)

28. **Shadia J. Ikhmayies,** Tuning the Properties of Nanocrystalline CdS Thin Films, *JOM*. 67(1) (2014), 46-60.
29. **Shadia J. Ikhmayies** and Riyad N Ahmad-Bitar, Temperature dependence of the photoluminescence spectra of CdS: In thin, films prepared by the spray pyrolysis technique, *Journal of Luminescence* 142 (2013) 40-47.
30. **Shadia J. Ikhmayies,** Hassan K. Juwhari and Riyad N Ahmad-Bitar, Nanocrystalline CdS:In Thin Films Prepared by the Spray-Pyrolysis Technique, *J. Luminouscence*, 141 (2013) 27-32.
31. **Shadia J. Ikhmayies,** Characterization of Nanocrystalline CdS Thin Films Prepared by Thermal Evaporation**,** *International Journal of Materials and Chemistry* 3(2) 2013, 28-33. **doi:10.5923/j.ijmc.20130302.02**
32. **Shadia J. Ikhmayies** and Riyad N Ahmad-Bitar, A Study of the Optical Bandgap Energy and Urbach Tail of Spray-Deposited CdS:In Thin Films, *Journal of Materials Research and Technology*, 2(3) (2013), 221-227.
33. **Shadia J. Ikhmayies** and Riyad N. Ahmad-Bitar, Characterization of Vacuum Evaporated CdTe Thin Films Prepared at Ambient Temperature, *Materials Science in Semiconductor Processing*, 16 (2013) 118–125. https://doi.org/10.1016/j.mssp.2012.06.003 (**IT = 3.085**)
34. **Shadia J. Ikhmayies** and Riyad N. Ahmad-Bitar**,** An Investigation of the Bandgap and Urbach Tail of Vacuum-Evaporated SnO_2Thin Films**,** *Renewable Energy* 49 (2013) 143-146.
35. **Shadia J. Ikhmayies,** Properties of Amorphous SnO_2 Thin Films Prepared by Thermal Evaporation, *International Journal of Materials and Chemistry*, 2 (4) (2012), 173-177.
36. **Shadia J. Ikhmayies** and Riyad N. Ahmad-Bitar, Photoluminescence and Transmittance of $CdS_{1-x}Te_x$ Thin Films, *J. Luminouscence*. 132 (2012), 2826-2831.
37. **Shadia J. Ikhmayies** and Riyad N. Ahmad-Bitar, $CdS_{1-y}Te_y$ Thin Films: Production and Bandgap Investigation, *Solar Energy* 86 (9) (2012), 2613-2619.
38. **Shadia J. Ikhmayies** and Riyad N. Ahmad-Bitar**,** Using I-V Characteristics to Investigate Selected Contacts for SnO_2:F Thin Films, J. Semiconductors 33 (8) (2012), 083001-(1-6).
39. **Shadia J. Ikhmayies** and Riyad N. Ahmad-Bitar, AC Measurements of Spray-Deposited CdS:In Thin Films, *J.Cen. South Univ* 19 (2012), 829-834.
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