

Dr. Muhammad Yasir Javed (Yasir Javed)

Email: yasir.javed@uaf.edu.pk, myasi60@hotmail.com

Address Department of Physics, University of Agriculture Faisalabad, Pakistan **Tel (Personal)** +92-336-6058836

Nationality Pakistani

Fax (Work) +92-41- 9200109

Date of Birth

Gender Male

Passport #

Education

2011-2015 **University Denis Diderot, Paris, France**

- PhD Physics (Nanotechnology)

2010-2011 **University Denis Diderot, Paris, France**

Research Interests Electrochemical energy storage system, Hydorgel-based flexible supercapacitors, Polymer-inorganic nanomaterials interactions and biological applications

Work and Teaching Experience

2021-Present **Department of Physics, University of Agriculture Faisalabad**

- Associate Professor (Tenured)

2015-2021 **Department of Physics, University of Agriculture Faisalabad**

- Assistant Professor (TTS)

2015 (May to Sep) **Pakistan Institute of Engineering and Applied Sciences, Islamabad Pakistan**

- Assistant Professor (IPFP)

2011-2015 **Materials and Quantum Phenomena laboratory, University Denis Diderot, Paris, France**

- PhD Scholar

Research Grants

- As PI, “**Mineralization of inorganic nanomaterials into ferritin proteins**” from HEC under NRPU (Amount = 4.06 Million PKR) (Completed)
- As Co-PI, “**Laser assisted synthesis of biocompatible gold nanoparticles for biophysical applications**” from HEC under NRPU (Amount = 8.52 Million) In progress
- As Co-PI, “**Enhancement of radiation resistant properties of n⁺-p-p⁺ solicon solar cells**” from HEC NRPU (Amount = 3.6 Million), In Progress
- Co-PI in Start-up Research Grant Program (SRGP) on “**Fabrication and process optimization for low cost c-Si solar cells**”. (Completed)

Research Profile

Total Citations: 2928

H index: 28

Googls Scholar link: [Yasir Javed - Google Scholar](#)

ORCID No. (0000-0003-4161-3543)

Publication Count (Last 5 years): Q1: 35, Q2: 34, Q3: 9, Non-indexed: 4

Books (Edited): 1

Book Chapters (Published): 25

Publications Impact factor =305, h- index = 28, i10-index= 59(as per google scholar)

Representative Publications:

- 1- Umair, M., Shad, N.A., Hussain, S., Jilani, A., Sajid, M.M., Arshad, M.I., Rana, H.T.H., Sharma, S.K., Mishra, Y.K. and **Javed, Y***, 2023. Predominated capacitive behavior of Ag-doped magnesium vanadate as a novel electrode material for supercapacitors. International Journal of Hydrogen Energy. 48(89): 34610-34623,.**[IF: 7.1]Q2**
- 2- Rana, H.T.H., Shad, N.A., Hussain, S., Jilani, A., Umair, M., Sajid, M.M., Faheem, M., Shah, A., Jamil, Y., Shafique, M.A. and **Javed, Y.***, 2023. Dysprosium doped calcium tungstate as an efficient electrode material for the electrochemical energy storage devices. Ceramics International, 49(11), pp.18896-18905. **[IF: 5.5]Q1**
- 3- Asghar, A., Chen, Z., Al-Harhi, E.A., Hakami, J., Rashid, M.S., Sultana, H., Hussain, S., **Javed, Y.**, Shad, N.A. and Imran, M., 2023. High-Performance Electrode Materials for Electrochemical Energy Storage Devices Based on Microrod-Like Structures of Calcium Phosphate (Ca₂P₂O₇). physica status solidi (RRL)—Rapid Research Letters, 17(10), p.2300178. **[IF: 2.8]Q2**
- 4- Asghar, A., M.S. Rashid, **Y. Javed**, S. Hussain, N.A. Shad, M. Hamza, and Z. Chen, 2023. Facile hydrothermal synthesis of MoS₂ nano-worms-based aggregate as electrode material for high energy density asymmetric supercapacitor. Electrochimica Acta, 2023. 465: p. 143011. **[IF: 6.6]Q1**
- 5- Khawar, M.R., Shad, N.A., Hussain, S., **Javed, Y***, Sajid, M.M., Jilani, A., Faheem, M. and Asghar, A., **2022**. Cerium oxide nanosheets-based tertiary composites (CeO₂/ZnO/ZnWO₄) for supercapattery application and evaluation of faradic & non-faradic capacitive distribution by using Donn's model. Journal of Energy Storage, 55, p.105778 **[IF: 8.9]Q1**.

2025

1. Bashir, A., Shad, N.A., Imran, Z., Ahmed, M., ul Haq, Z., Khawar, M.R., de Menezes, A.S., Javed, Y. and Choi, D., 2025. Role of cerium dopant in tuning the semiconductor-to-metal transition properties of magnesium zinc ferrite nanomaterials. Materials Science in Semiconductor Processing, 185, p.108950. **[IF: 4.2]Q1**
2. Jacinto, C., Javed, Y., Lavorato, G., Tarraga, W.A., Conde, B.I.C., Orozco, J.M., Picco, A.S., Garcia, J., Dias, C.S.B., Malik, S. and Sharma, S.K., 2025. Biotransformation and biological fate of magnetic iron oxide nanoparticles for biomedical research and clinical applications. Nanoscale Advances. **[IF: 4.6]Q1**
3. Shahbaz, J., Khawar, M.R., Jang, S., Shad, N.A., Ahmad, A., Albaqami, M.D., Zahid, U., Rhee, K.Y., Javed, Y. and Choi, D., 2025. A hierarchical surface-coated 3D-nanoflower network of MoS₂ with abundant reaction sites for high-performance asymmetric supercapacitor. Journal of Alloys and Compounds, 1010, p.177230. **[IF: 5.8]Q1**
4. Ullah, A., Khawar, M.R., Shad, N.A., Jang, S., Choi, D., Geng, D., Shahbaz, J., Tighezza, A.M., Javed, Y. and Ahmad, A., 2025. Zinc/lead bimetallic sulfides as hybrid material for high-performance aqueous asymmetric supercapacitor and photocatalytic degradation of organic dye. Journal of Alloys and Compounds, 1010, p.177565. **[IF: 5.8]Q1**
5. Saqib, M., Asghar, A., Chen, Z., Hafez, A.A.A., Almashnowi, M.Y., Arshad, Q., Awaji, M.Y., Javad, Y., Kuku, M. and Rashid, M.S., 2025. Fabrication of asymmetric supercapattery with faradaic and non-faradaic quantification by Co₃ (PO₄)₂/GO composite as a positive electrode. Journal of Alloys and Compounds, 1010, p.177986. **[IF: 5.8]Q1**

6. Niraula, G., Coaquira, J.A., Reyes, E.O.P., Javed, Y., Reguera, E., Garcia, J. and Sharma, S.K., 2025. Hydrothermally synthesized Fe₃O₄ microparticles: Structural, magnetic, Mössbauer and magneto-hyperthermia properties. *Results in Chemistry*, p.102066. **[IF: 2.5]Q2**
7. Farukh, S.F.B., Javed, Y., Qadir, M.B., Jamil, Y. and Sarfraz, R.A., 2025. Optimization of zinc doping in nickel selenide nanorods for efficient hybrid energy storage devices. *Inorganic Chemistry Communications*, p.114108. **[IF: 4.4]Q1**
8. Sarwar, Z., Abbas, M.K., Shad, N.A., Akhtar, K., Mobeen, A., Abbas, W., Abd El-Aziz, K., Tabassum, M.R., Zulqarnain, M., Ali, H.T. and Javed, Y., 2025. Anticancer and acute toxicity studies of cellulose-coated Vanadium oxide nanomaterials. *Journal of Molecular Structure*, 1322, p.140633. **[IF: 4.0]Q1**
9. Atif, M., Ullah, A., Shad, N.A., Fatima, J., Farukh, S.F.B., Zahid, U., Geng, D. and Javed, Y., 2025. Oxygen vacancy-rich Ni (OH)₂-ZnWO₄ composites as an effective electrocatalyst for water splitting. *Inorganic Chemistry Communications*, 173, p.113826. **[IF: 4.4]Q1**
10. Cho, S., Khawar, M.R., Ra, Y., Jang, S., Lee, D., Kam, D., Shah, S.A., Yoo, D., Javed, Y., Ahmad, A. and Lee, Y., 2025. Advances in 3D-printed triboelectric nanogenerators and supercapacitors for self-sustainable energy systems. *Materials Today*. **[IF: 8.9]Q1**
11. Zahid, U., Khawar, M.R., Jang, S., Javed, Y., Shad, N.A., Choi, D., Ahmad, A. and Albaqami, M.D., 2025. Development of Bimetallic MOF with reduced bandgap for high-performance asymmetric supercapacitors. *Electrochimica Acta*, p.146103. **[IF: 21.1]Q1**
12. Aslam, R., Javed, Y., Jamil, Y. and Hanif, M.A., 2025. Zinc vanadate/Magnesium oxide heterostructures: A novel electrode material for high power density hybrid supercapacitors. *Materials Science in Semiconductor Processing*, 192, p.109414. **[IF: 4.2]Q1**
13. Hussnain, S., Khawar, M.R., Rana, H.T.H., Shad, N.A., Abbas, M.K., Albaqami, M.D., Ahmad, A., Cho, S., Javed, Y. and Choi, D., 2025. Redox-active Co₃O₄/MgV₂O₅ heterostructure with abundant reaction sites for aqueous asymmetric supercapacitor: Insight into charge storage capacity via Dunn's modeling. *Materials Science in Semiconductor Processing*, 192, p.109412. **[IF: 4.2]Q1**

2024

14. Khawar, M.R., Kanwal, I., Umair, M., Ahmad, A., Ghazal, A., Shad, N.A., Hussain, S., Tighezza, A.M., Javed, Y. and Choi, D., 2024. 2D TiO₂/Zn₃V₂O₈ flake-like composites for hybrid storage device and simulation-based analysis of capacitive and diffusive contribution. *Journal of Energy Storage*, 99, p.113422.. **[IF: 8.9]Q1**
15. Shad, N.A., Rakha, A., Qayyum, M.A., Siddiqi, M.H., Mahmood, Z., Nazir, S., Khan, M.F., Sajid, M.M., Rehman, R.A., Riaz, A. and Din, S.U., 2024. Zn₃(VO₄)₂/Bi₂WO₆ composite based versatile platform for cotinine sensing and latent fingerprints development by using multiple modalities. *Materials Science and Engineering: B*, 301, p.117203. **[IF: 3.9]Q1**
16. Abbas, M.K., Javed, Y., Shad, N.A., Shahid, M., Akhtar, B., Yasin, E., Sharma, S.K. and Thanh, N.T.K., 2024. Polymer coated magnesium hydroxide nanoparticles for enhanced wound healing. *New Journal of Chemistry*, 48(40), pp.17396-17410. **[IF: 2.9]Q1**
17. Sarwar, Z., Umair, M., Ashraf, S., Javed, Y., Hussain, S., Shad, N.A., Jilani, A., Khawar, M.R., Cho, C. and Choi, D., 2024. Tuning the electrochemical properties

of W18O49 by conjugating with reduced graphene oxide and cerium oxide. Alexandria Engineering Journal, 107, pp.614-624. [IF: 6.2]Q1

2023

18. Asghar, A., M.S. Rashid, **Y. Javed**, S. Hussain, N.A. Shad, M. Hamza, and Z. Chen, **2023**. Facile hydrothermal synthesis of MoS₂ nano-worms-based aggregate as electrode material for high energy density asymmetric supercapacitor. **Electrochimica Acta**, 2023. 465: p. 143011. [IF: 6.6]Q1
19. Sajid, M.M., Zhai, H., Iqbal, M.A., **Javed, Y.**, Shad, N.A., Amin, N., Zhang, Z. and Morsy, K., 2023. Synthesis of Pt/FeVO₄: A novel heterostructure for efficient photocatalysis. Materials Research Bulletin, 168, p.112447. [IF: 5.4]Q1
20. Yasin, E., **Javed, Y***, Imran, Z., Anwar, H. and Shahid, M., 2023. Exploration of dielectric and humidity sensing properties of dysprosium oxide nanorods. The European Physical Journal Plus, 138(11), p.1050. [IF: 3.7]Q2
21. Tahir, S., Zahid, M., Hanif, M.A. and **Javed, M.Y.**, 2023. g-C₃N₄/graphene oxide/SnFe₂O₄ ternary composite for the effective sunlight-driven photocatalytic degradation of methylene blue. Environmental Science and Pollution Research, pp.1-19. [IF: 5.8]Q1
22. Sarwar, Z., Umair, M., **Javed, Y.**, Hussain, S., Shad, N.A., Jilani, A., Shah, A.A., Azam, M. and Ashraf, S., 2023. Effect of cerium oxide and rGO conjugation on the electrochemical energy storage traits of V₂O₅ nanomaterials. Journal of Electronic Materials, 52(10), pp.6578-6593. [IF: 2.04]Q3
23. Asghar, A., Chen, Z., Al-Harathi, E.A., Hakami, J., Rashid, M.S., Sultana, H., Hussain, S., **Javed, Y.**, Shad, N.A. and Imran, M., 2023. High-Performance Electrode Materials for Electrochemical Energy Storage Devices Based on Microrod-Like Structures of Calcium Phosphate (Ca₂P₂O₇). physica status solidi (RRL)—Rapid Research Letters, 17(10), p.2300178. [IF: 2]Q2
24. Umair, M., Shad, N.A., Hussain, S., Jilani, A., Sajid, M.M., Arshad, M.I., Rana, H.T.H., Sharma, S.K., Mishra, Y.K. and **Javed, Y***, 2023. Predominated capacitive behavior of Ag-doped magnesium vanadate as a novel electrode material for supercapacitors. International Journal of Hydrogen Energy. <https://doi.org/10.1016/j.ijhydene.2023.05.279>. [IF: 7.1]Q2
25. Rana, H.T.H., Shad, N.A., Hussain, S., Jilani, A., Umair, M., Sajid, M.M., Faheem, M., Shah, A., Jamil, Y., Shafique, M.A. and **Javed, Y***, 2023. Dysprosium doped calcium tungstate as an efficient electrode material for the electrochemical energy storage devices. Ceramics International. [IF: 5.5]Q1
26. Abbas, M.K., **Javed, Y***, Jamil, Y. and Shahid, M., Polyethylene glycol dictates the therapeutic response (anticancer and wound healing) of silver oxide nanomaterials. Polymers for Advanced Technologies. <https://doi.org/10.1002/pat.6076>. [IF: 3.3]Q2
27. Sajid, M.M., Zhai, H., Iqbal, M.A., Shad, N.A., **Javed, Y.**, Ishaq, A.R., Abd Alreda, B., Morsy, K. and Choi, J.R., 2023. Experimental insights on the synthesis and characteristics of Fe_{1-x}BixVO₄ photocatalysts for efficient environmental and electrical applications. Arabian Journal of Chemistry, 16(8), p.104986. [IF: 6.2]Q1
28. Shad, N.A., Munawar, A., **Javed, Y.**, Rakha, A., Riaz, A., Din, S.U., Zareef, I., Sajid, M.M., Khan, M.F., Akhtar, S. and Salman, M., 2023. In-field deployable and facile nanosensor for the detection of pesticides residues. Analytica Chimica Acta, 1259, p.341204. [IF: 6.9]Q1
29. Shariq, M., BaQais, A., Althagafi, T.M., Madkhali, O., Alholaisi, A.A., Hussain, S. and **Javed, Y.**, 2023. Synthesis of Co₃O₄/NiO nanospherical composites as

electrode material for high-performance supercapacitors. The European Physical Journal Plus, 138(5), p.389. [IF: 3.7]Q2

30. Sajid, M.M., Zhai, H., Shad, N.A., Alomayri, T., Hassan, M.A., **Javed, Y.**, Amin, N., Zhang, Z., Sillanpaa, M. and Iqbal, M.A., 2023. Synthesis of novel Fe doped MoS₂/BiVO₄ magnetic composite for enhanced photocatalytic and antimicrobial activity. Inorganic Chemistry Communications, 151, p.110589. [IF: 3.4]Q2
31. Monteles, I.A., Penha, B.V., Fonseca, W.S., Silva, L.M., Santos, E.C., de Souza, L.K., Santos, C.C., de Menezes, A.S., Sharma, S.K., **Javed, Y.** and Khawar, M.R., 2023. Bi-phasic BiPO₄ prepared through template-assisted hydrothermal method with enhanced electrochemical response for hybrid supercapacitor applications. Journal of Applied Electrochemistry, pp.1-14. [IF: 2.9]Q2
32. Shrivastava, N., Ospina, C., Jacinto, C., de Menezes, A.S., Muraca, D., **Javed, Y.**, Knobel, M., Luo, Z. and Sharma, S.K., 2023. Probing the optical and magnetic modality of multi core-shell Fe₃O₄@ SiO₂@ β-NaGdF₄: RE³⁺ (RE= Ce, Tb, Dy) nanoparticles. Optical Materials, 137, p.113585. [IF: 3.7]Q1
33. Ahmad, G., Shad, N.A., Munawar, A., Razzaq, A., Jilani, A., Hussain, D., Sajid, M.M., Ikram, M., Sarwar, M., Akhtar, B. and **Javed, Y.***, 2023. Non-enzymatic rapid sensing platform based on Iron doped lead sulfide nano-interfaces for chloramphenicol. Inorganic Chemistry Communications, p.110487. [IF: 3.4]Q2
34. Sajid, M.M., Zhai, H., Anwar, N., Shad, N.A., Sohail, M., **Javed, Y.**, Amin, N., Al-Bahrani, M., Morsy, K., Zhang, Z. and Iqbal, M.A., 2023. Synthesis, Structural Characteristics, and Photocatalytic Performance of Zn_{3-x}Bix (VO₄)₂ Heterostructures. Surfaces and Interfaces, p.102658. [IF: 6.1]Q1

2022

35. Khawar, M.R., Shad, N.A., Hussain, S., **Javed, Y.***, Sajid, M.M., Jilani, A., Faheem, M. and Asghar, A., 2022. Cerium oxide nanosheets-based tertiary composites (CeO₂/ZnO/ZnWO₄) for supercapattery application and evaluation of faradic & non-faradic capacitive distribution by using Donn's model. Journal of Energy Storage, 55, p.105778. [IF: 8.9]Q1
36. Tarabi, T., **Javed, Y.**, Sajid, M.M., Rakha, A., Munawar, A., Shad, N.A., Munir, H., Riaz, A. and Jilani, A., 2022. Ultrasensitive and rapid detection of artemisinin based on bismuth tungstate dressed rGO nanocomposite. Materials Chemistry and Physics, p.126547.[IF: 4.77]Q1
37. Ikram, M., Rasheed, S., Afzal, A.M., Shad, N.A., **Javed, Y.**, Mohyuddin, A., Alomayri, T., Sajid, M.M., Almahri, A. and Hussain, D., 2022. Ultrasensitive V doped WO₃ 1D nanorods heterojunction photodetector with pronounced photosensing activities. Journal of Alloys and Compounds, 909, p.164753.[IF: 6.37]Q1
38. Sajid, M.M., Zhai, H., Alomayri, T., Khan, S.B., **Javed, Y.**, Shad, N.A., Ishaq, A.R., Amin, N. and Zhang, Z., 2022. Platinum doped bismuth vanadate (Pt/BiVO₄) for enhanced photocatalytic pollutant degradation using visible light irradiation. Journal of Materials Science: Materials in Electronics, pp.1-16[IF: 2.77]Q2
39. Perveen, R., Jamil, Y., **Javed, Y.** and Shahid, M., 2022. A Comprehensive Study on Pulsed Nd: YAG Laser Irradiation of Maize Kernels: Measurement of Biophoton Emissions, Metabolite Levels and Thermodynamical Attributes During Germination. Arabian Journal for Science and Engineering, 47(6), pp.7593-7607. [IF: 2.8]Q1
40. Ahmad, G., **Javed, Y.***, Jamil, Y. and Jilani, K., 2022. Efficient label-free detection of chloramphenicol by iron-doped cadmium sulfide nanomaterials. Journal of Materials Science: Materials in Electronics, 33(15), pp.12295-12309. [IF: 2.77]Q2

41. Saleem, M.U., Muhammad, F., Sharif, A., Arshad, M.I., Akhtar, K., **Javed, Y.** and Akhtar, B., 2022. Methotrexate-loaded biodegradable nanoparticles exert anti-arthritic effect by downregulating pro-inflammatory cytokines in Freund's complete adjuvant-induced arthritic rats. *Inflammopharmacology*, pp.1-13 [IF: 5.09]Q1.
42. Faheem, M., Riaz, S., **Javed, Y.**, Aziz, H., Ashraf, M., Younus, A., Rehman, F. and Ali, K., 2022. Rapid Single-Step Synthesis and Crystal Structure Analysis of Cu: ZnO Photocatalyst for Efficient Degradation of Reactive Dyes Under UV–Visible Light Irradiation. *Arabian Journal for Science and Engineering*, pp.1-17 [IF: 2.8]Q1.
43. Anam Munawar, Ahmad Mukhtar Khalid, Nadia Batool Zahra, Naveed Akhtar Shad, Ammad Shafeeq, Aamir Razaq, **Yasir Javed** and Muhammad Munir Sajid. Tetracycline biomimetic imprinted beads cast as a label-free sensing constituent in different transduction systems. *Applied Nanoscience* (2022). <https://doi.org/10.1007/s13204-021-02266-9> [IF: 3.67]Q2.
44. Afzal, Amir Muhammad, Muhammad Zahir Iqbal, Muhammad Waqas Iqbal, Thamer Alomayri, Ghulam Dastgeer, **Yasir Javed**, Naveed Akhter Shad et al. "High performance and gate-controlled GeSe/HfS₂ negative differential resistance device." *RSC Advances* 12, no. 3 (2022): 1278-1286 [IF: 3.36]Q2.
45. Ullah, Asmat, Malik Saadullah, Farah Alvi, Lubna Sherin, Akbar Ali, Naveed Akhtar Shad, **Yasir Javed***, M. Munir Sajid, Ghulam Yasin, and Wasim Abbas. "Synergistic effect of silver doped ZnO nanomaterials enhances the anticancer potential against A459 lung cancer cells." *Journal of King Saud University-Science* 34, no. 1 (2022): 101724 [IF: 4.01]Q1.
46. Shad, Naveed Akhtar, Anum Jameel, Muhammad Munir Sajid, Amir Muhammad Afzal, **Yasir Javed***, Asmat Ullah, Ali Asghar et al. "Fabrication of Spike-Like Spherical Iron Manganite Nanoparticles for the Augmented Photocatalytic Degradation of Methylene Blue Dye." *Journal of Electronic Materials* (2022): 1-10 [IF: 1.93]Q3.
47. Jahanger, Muhammad Irfan, Naveed Akhtar Shad, Muhammad Munir Sajid, Kanwal Akhtar, **Yasir Javed***, Asmat Ullah, Muhammad Aamir Hassan, Muhammad Haroon Sarwar, Muhammad Sarwar, and Mika Sillanpää. "Aqueous photodegradation of methyl orange and antimicrobial activity against E. coli and S. aureus bacteria using pH modified MgO nanomaterials." *Reaction Kinetics, Mechanisms and Catalysis* (2022): 1-12 [IF: 2.08]Q3.

2021

48. Al Islam, S., Jamil, Y., Javaid, Z., Hao, L., Amin, N., **Javed, Y.**, Rehman, M. and Anwar, H., 2021. A Study on Thermal Response of Nanoparticles in External Magnetic Field. *Journal of Superconductivity and Novel Magnetism*, pp.1-6. [IF: 1.5]Q3.
49. Asghar, A., Yousaf, M.I., Shad, N.A., Munir Sajid, M., Afzal, A.M., **Javed, Y***, Razzaq, A., Shariq, M., Sarwar, M. and Sharma, S.K., 2021. Enhanced Electrochemical Performance of Hydrothermally Synthesized NiS/ZnS Composites as an Electrode for Super-Capacitors. *Journal of Cluster Science*, pp.1-11. [IF: 3.06]Q2.
50. Sultan, M.Z., Jamil, Y., **Javed, Y.** and Sarfraz, R.A., 2021. Synthesis, Characterization, and Study of Thermal Response of Cu-Doped Fe₃O₄ Nanoparticles. *Journal of Superconductivity and Novel Magnetism*, pp.1-13. [IF: 1.5]Q3.
51. Kanwal Akhtar, Naveed Akhtar Shad, Muhammad Munir Sajid, **Yasir Javed***, Faqir Muhammad, Bushra Akhtar, M. Irfan Hussain, Ali Sharif, Wasim Abbas &

- Anam Munawar (2021) In vivo toxicity and biodegradation studies in mimicked biological media of bare and functionalised hematite nanoparticles, *Advances in Applied Ceramics*, DOI: 10.1080/17436753.2021.1956292 [IF: 2.08]Q2.
52. Sajid, M.M., Zhai, H., Shad, N.A., Shafique, M., Afzal, A.M., **Javed, Y.**, Khan, S.B., Amin, N. and Zhang, Z., 2021. Construction of 1T-MoS₂ quantum dots-interpersed (Bi_{1-x}Fe_x)VO₄ heterostructures for electron transport and photocatalytic properties. *RSC Advances*, 11(22), pp.13105-13118. [IF: 3.12]Q2
 53. Ikram, M., **Javed, Y.**, Shad, N.A., Sajid, M.M., Irfan, M., Munawar, A., Hussain, T., Imran, M. and Hussain, D., Facile Hydrothermal Synthesis of Nickel Tungstate (NiWO₄) Nanostructures with Pronounced Supercapacitor and Electrochemical Sensing Activities. *Journal of Alloys and Compounds*, Vol. 878, p.160314. [IF: 4.65]Q1
 54. Afzal, A. M., Mumtaz, S., Iqbal, M. Z., Iqbal, M. W., Manzoor, A., Dastgeer, G., Iqbal, M. J., **Javed, Y.**, Khan, R., Shad, N. A., Sajid, M. M., Zahid, T. 2021. Fast and high photoresponsivity gallium telluride/hafnium selenide van der Waals heterostructure photodiode. *Journal of Materials Chemistry C*. <https://doi.org/10.1039/D1TC00867F> [IF: 7.09]Q1
 55. Sajid, M.M., Zhai, H., Shad, N.A., Shafique, M., Afzal, A.M., **Javed, Y.**, Khan, S.B., Ikram, M., Amin, N. and Zhang, Z., 2021. Photocatalytic performance of ferric vanadate (FeVO₄) nanoparticles synthesized by hydrothermal method. *Materials Science in Semiconductor Processing*, 129, p.105785. [IF: 3.08]Q1
 56. Sajid, M.M., Khan, S.B., **Javed, Y.**, Amin, N., Zhang, Z., Shad, N.A. and Zhai, H., 2021. Bismuth vanadate/MXene (BiVO₄/Ti₃C₂) heterojunction composite: enhanced interfacial control charge transfer for highly efficient visible light photocatalytic activity. *Environmental Science and Pollution Research*, pp.1-13. [IF: 3.05]Q1
 57. Shad, N.A., M.M. Sajid, A.M. Afzal, N. Amin, **Y. Javed***, S. Hassan, Z. Imran, A. Razaq, M.I. Yousaf, A. Munawar and S.K. Sharma. 2021. Facile synthesis of Bi₂WO₆/rGO nanocomposites for photocatalytic and solar cell applications. *Ceramics International*. [IF: 3.83]Q1
 58. Akhtar, K., **Javed, Y***, Muhammad, F., Akhtar, B., Shad, N.A., Sajid, M.M., Jamil, Y., Sharif, A. and Abbas, W., 2021. Biotransformation and toxicity evaluation of functionalized manganese doped iron oxide nanoparticles. *Journal of Biomedical Materials research. Part B, Applied Biomaterials*. [IF: 2.83]Q2
 59. Sajid, M.M., Shad, N.A., **Javed, Y.**, Shafique, M., Afzal, A.M., Khan, S.B., Amin, N., Hassan, M.A., Khan, M.U.H., Tarabi, T. and Zhai, H., 2021. Efficient Photocatalytic and Antimicrobial Behaviour of Zinc Oxide Nanoplates Prepared By Hydrothermal Method. *Journal of Cluster Science*, pp.1-11. [IF: 3.06]Q2
 60. Afzal, A.M., A. Manzoor, M.Z. Iqbal, **Y. Javed**, A.H. Deshmukh, R. Khan, N.A. Shad, M.M. Sajid, M. Alzaid and U. Anwar. 2021. Environmental effect on structural, magnetic, and dielectric properties of bfo nanostructure and its solar cell applications. *Journal of Materials Science: Materials in Electronics*. <https://doi.org/10.1007/s10854-020-05079-8> [IF: 2.2]Q2.
- 2020**
61. Sajjad, M., Ali, K., **Javed, Y.**, Sattar, A., Akbar, L., Nawaz, A., Rashid, M.Z., Rasool, K. and Alzaid, M., 2020. Detailed analysis of structural and optical properties of spinel cobalt doped magnesium zinc ferrites under different substitutions. *Journal of Materials Science: Materials in Electronics*, pp.1-13. [IF: 2.2]Q2
 62. Sajid, M.M., Khan, S.B., **Javed, Y.**, Amin, N., Shad, N.A., Zhang, Z. and Zhai, H., 2020. Facile synthesis of Se/BiVO₄ heterojunction composite and evaluation of synergetic reaction mechanism for efficient photocatalytic staining of organic

- dye pollutants in wastewater under visible light. *Journal of Materials Science: Materials in Electronics*, pp.1-14. [IF: 2.2]Q2
63. Sajid, M.M., Khan, S.B., **Javed, Y.**, Amin, N., Shad, N.A., Zhang, Z., Yousuf, M.I., Sarwar, M. and Zhai, H., 2020. Synthesis of novel visible light assisted Pt doped Zinc Vanadate (Pt/Zn₄V₂O₉) for Enhanced Photocatalytic Properties. *Chemical Physics*, p.110980. [IF: 1.77]Q2
 64. Iqbal, S., Shaid, N.A., Sajid, M.M., **Javed, Y.***, Fakhar-e-Alam, M., Mahmood, A., Ahmad, G., Afzal, A.M., Hussain, S.Z., Ali, F. and Sarwar, M., 2020. Extensive evaluation of changes in structural, chemical and thermal properties of copper sulfide nanoparticles at different calcination temperature. *Journal of Crystal Growth*, p.125823. [IF: 1.63]Q2
 65. Akhtar, K., **Javed, Y.***, Jamil, Y. and Muhammad, F., 2020. Functionalized cobalt ferrite cubes: toxicity, interactions and mineralization into ferritin proteins. *Applied Nanoscience*, pp.1-16. [IF: 3.19]Q2
 66. Ahmad, G., Batool, A., Iqbal, Q., Iqbal, A., Ali, F., Nawaz, S., Shad, N.A., Sajid, M.M. and **Javed, Y.***, 2020, May. Effect of calcination temperature on the structural and morphological properties of zinc sulphide nanomaterials. In *IOP Conference Series: Materials Science and Engineering* (Vol. 863, No. 1, p. 012020). IOP Publishing.
 67. Altaf, N.H., Anjam, T., Sajid, M.M., Shad, N.A., Shukrullah, S., Naz, M.Y. and **Javed, Y.***, 2020, May. Characterization of manganese/cobalt oxide composites synthesized by chemical co-precipitation method. In *IOP Conference Series: Materials Science and Engineering* (Vol. 863, No. 1, p. 012021). IOP Publishing.
 68. Sajid, M.M., Shad, N.A., Afzal, A.M., **Javed, Y.***, Khan, S.B., Amin, N., Shah, A., Yousaf, I. and Zhai, H., Generation of strong oxidizing radicals from plate-like morphology of BiVO. *Applied Physics A*. 2020, 126: 314 [IF:1.78]Q2
 69. Afzal, A.M., **Javed, Y.**, Shah, N.A., Iqbal, M.Z., Dastgeer, G., Sajid, M.M. and Mumtaz, S., 2020. Tunneling-based rectification and photoresponsivity in black phosphorus/hexagonal boron nitride/rhenium diselenide van der Waals heterojunction diode. *Nanoscale*. 2020 [IF:6.9]Q1
 70. Naveed Akhtar S, Muhammad Munir S, **Javed Y***, Muhammad I, Muhammad Irfan H, Somia N, et al. Lamellar shape lead tungstate (PbWO₄) nanostructures as synergistic catalyst for peroxidase mimetic activity. *Materials Research Express*. 2020. [IF:1.44]Q2
 71. Shad NA, Sajid MM, **Javed Y***, Amin N, Ikram M, Akhtar K, et al. High-yield synthesis of pure ZnO nanoparticles by one-step solid-state reaction approach for enhanced photocatalytic activity. *Journal of the Chinese Chemical Society*. 2020 Vol.67(6):1045-1053 [IF:1.18]Q3
 72. Sajid, M.M., Shad, N.A., **Javed, Y.**, Khan, S.B., Zhang, Z., Amin, N. and Zhai, H., 2020. Preparation and characterization of Vanadium pentoxide (V₂O₅) for photocatalytic degradation of monoazo and diazo dyes. *Surfaces and Interfaces*, p.100502. [CiteScore:2.44]
 73. Sajid, M.M., Shad, N.A., **Javed, Y.**, Khan, S.B., Zhang, Z., Amin, N. and Zhai, H., 2020. Morphological effects on the photocatalytic performance of FeVO₄ nanocomposite. *Nano-Structures & Nano-Objects*, 22, p.100431. [CiteScore:4.25]
- 2019**
74. Sajid, Muhammad Munir, Naveed Akhtar Shad, **Yasir Javed**, Sadaf Bashir Khan, Nasir Amin, Zhengjun Zhang, Zahid Imran, and Muhammad Imran Yousuf. "Facile synthesis of Zn₃(VO₄)₂/FeVO₄ heterojunction and study on its photocatalytic and electrochemical properties." *Applied Nanoscience* (2019): 1-13. [IF:3.19]Q2

75. Afzal, A. M., **Yasir Javed**, Sajad Hussain, Adnan Ali, M. Z. Yaqoob, and Sohail Mumtaz. "Enhancement in photovoltaic properties of bismuth ferrite/zinc oxide heterostructure solar cell device with graphene/indium tin oxide hybrid electrodes." *Ceramics International* (2019). [IF:3.45]Q1
 76. Arshad Hafiz Muhammad Umair, Hafeez Anwar, **Yasir Javed**, M. Yasin Naz, Abdul Ghaffar, M. Zubair Khan, and Zahid Farooq. "Investigation of photocatalytic degradation of methylene orange dye using titanium dioxide–zinc oxide nanocomposites." *Materials Research Express* 6, no. 12 (2019): 125009. [IF:1.44]Q2
 77. Sajid, M.M., Shad, N.A., **Javed, Y.**, Khan, S.B., Zhang, Z. and Amin, N., 2019. Study of the interfacial charge transfer in bismuth vanadate/reduce graphene oxide (BiVO₄/rGO) composite and evaluation of its photocatalytic activity. *Research on Chemical Intermediates*, pp.1-15. [IF:2.06]Q2
 78. Shad, N. A., M. M. Sajid, N. Amin, **Yasir Javed***, K. Akhtar, G. Ahmad, S. Hassan, and M. Ikram. "Photocatalytic degradation performance of cadmium tungstate (CdWO₄) nanosheets-assembly and their hydrogen storage features." *Ceramics International* (2019). [IF:3.45]Q1
 79. Shad, N.A., Sajid, M.M., Haq, A.U., Amin, N., Imran, Z., Anwar, H., Ali, K., Hussain, Z., Younus, A. and **Javed, Y***, 2019. Photocatalytic Investigation of Cadmium Oxide Nanosheets Prepared by Hydrothermal Method. *Arabian Journal for Science and Engineering*, pp.1-7. [IF:2.8]Q1
 80. Sajid, M.M., Shad, N.A., **Javed, Y.**, Khan, S.B., Imran, Z., Hassan, S., Hussain, Z., Zhang, Z. and Amin, N., 2019. Fast Surface Charge Transfer with Reduced Band Gap Energy of FeVO₄/Graphene Nanocomposite and Study of Its Electrochemical Property and Enhanced Photocatalytic Activity. *Arabian Journal for Science and Engineering*, pp.1-9. [IF:2.8]Q1
 81. Sajid, M.M., Amin, N., Shad, N.A., Khan, S. B., **Javed, Y.** and Zhang, Z., 2019. Hydrothermal fabrication of monoclinic bismuth vanadate (m-BiVO₄) nanoparticles for photocatalytic degradation of toxic organic dyes. *Materials Science and Engineering: B*, 242, pp.83-89. [IF:3.31]Q2
 82. Ali, K., Tariq, Z., Khan, H., **Javed, Y.**, Sultan, M., Anmol, M., Ahmad, I., Usman, M., Jameel, M., Sajjad, M. and Ali, A., 2019. Analysis of non-uniform doping in solar cell and optimization using PC1D. *Journal of Ovonic Research*, 15(4). [IF:1.0]Q3
- 2018**
83. Alloyeau, D., Volatron, J., **Javed, Y.**, Piffoux, M., Dachraoui, W., Elgrabli, D., Lartigue, L., Gazeau, F. and Ricolleau, C., 2018. Challenges and Opportunities in Transmission Electron Microscopy for Revealing the Fate of Inorganic Nanomaterials in Living Beings. *Microscopy and Microanalysis*, 24(S1), pp.1694-1695. [IF:2.8]Q3
 84. Abdullah, M., S. R. Malik, M. H. Iqbal, M. M. Sajid, N. A. Shad, S. Z. Hussain, W. Razzaq, and **Y. Javed***. 2018. Sedimentation and Stabilization of Nano-fluids with Dispersant. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 552, pp. 86-92. 2018. [IF:2.71]Q2
 85. Mahmood, Q., M. Yaseen, K.C. Bhamu, A. Mahmood, **Y. Javed** and S.M. Ramay. Magnetism, optical, and thermoelectric response of CdFe₂O₄ by using DFT scheme. *Chinese Physics B*, 27(3), p.037103, 2018. [IF:1.22]Q2
 86. Anwar, H., Rana, B.C., **Javed, Y.**, Mustafa, G., Ahmad, M.R., Jamil, Y. and Akhtar, H., 2018. Effect of ZnO on photocatalytic degradation of Rh B and its inhibition activity for C. coli bacteria. *Russian Journal of Applied Chemistry*, 91(1), pp.143-149. [IF:0.49]Q3
- 2017**

87. **Javed*, Y.**, K. Akhtar, H. Anwar, and Y. Jamil. 2017. MRI based on iron oxide nanoparticles contrast agents: effect of oxidation state and architecture. *Journal of Nanoparticle Research*, 19(11), p.366. [IF:2.02]Q2
 88. Navadeep Shrivastava, LU Khan, JM Vargas, Carlos Ospina, JAQ Coaquira, Giorgio Zoppellaro, HF Brito, **Yasir Javed**, DK Shukla, MCFC Felinto, Surrender K Sharma. 2017. Efficient multicolor tunability of ultrasmall ternary-doped LaF₃ nanoparticles: energy conversion and magnetic behavior. *Physical Chemistry Chemical Physics*. 19(28) p:18660-70. [IF: 3.9]Q1
 89. Volatron, J., Kolosnjaj-Tabi, **J., Javed**, Y., Vuong, Q.L., Gossuin, Y., Neveu, S., Luciani, N., Hémadi, M., Carn, F., Alloyeau, D. and Gazeau, F., 2017. Physiological Remediation of Cobalt Ferrite Nanoparticles by Ferritin. *Scientific Reports*, 7, p.40075. [IF:5.224]Q1
 90. Volatron, J., Carn, F., Kolosnjaj-Tabi, J., **Javed**, Y., Vuong, Q.L., Gossuin, Y., Ménager, C., Luciani, N., Charron, G., Hémadi, M. and Alloyeau, D., 2017. Ferritin Protein Regulates the Degradation of Iron Oxide Nanoparticles. *Small*, 13(2). [IF:8.32]Q1
 91. Shrivastava, N., Khan, L.U., Khan, Z.U., Vargas, J., Moscoso-Londoño, O., Ospina, C., Brito, H.F., **Javed**, Y., Felinto, M.C.F., de Menezes, A.S. and Knobel, M., 2017. Building block magneto-luminescent nanomaterials of iron-oxide/ZnS@ LaF₃: Ce³⁺, Gd³⁺, Tb³⁺ with green emission. *Journal of Materials Chemistry C*. DOI: 10.1039/C6TC05053K. [IF:5.06]Q1
- 2016 onward**
92. Serveena, Muraca, D., Zélis, P.M., **Javed**, Y., Ahmad, N., Vargas, J.M., Moscoso-Londoño, O., Knobel, M., Singh, M. and Sharma, S.K., 2016. Surface and interface interplay on the oxidizing temperature of iron oxide and Au–iron oxide core–shell nanoparticles. *RSC Advances*, 6(74), pp.70394-70404. [IF:3.289]Q2
 93. **Y. Javed**, L. Lartigue, P. Hugounenq, Q. L. Vuong, Y. Gossuin, R. Bazzi, C. Wilhelm, C. Ricolleau, F. Gazeau, and D. Alloyeau. Biodegradation mechanisms of iron oxide monocrystalline nanoflowers and tunable shield effect of gold coating. *SMALL*, 10 (16), p: 3325-3337 (2014) [IF: 8.32]Q1.
 94. J. Kolosnjaj, L. Lartigue, **Y. Javed**, N. Luciani, T. Pellegrino, C. Wilhelm, D. Alloyeau, F. Gazeau. Biotransformations of magnetic nanoparticles in the body, *Nano Today*, Available online 19 January 2016, ISSN 1748-0132, <http://dx.doi.org/10.1016/j.nantod.2015.10.001> [IF: 13.157]Q1.
 95. J. Kolosnjaj, **Y. Javed**, L. Lartigue, J. Volatron, D. Elgrabli, I. Marangon, G. Pugliese, B. Caron, A. Figuerola, N. Luciani, T. Pellegrino, D. Alloyeau, F. Gazeau. The one-year fate of iron oxide coated gold nanoparticles in mice. accepted in *ACS NANO*, 9(8), p:7925 (2015) [IF:12.88]Q1.
 96. L. Lartigue, D. Alloyeau, J. Kolosnjaj-Tabi, **Y. Javed**, P. Guardia, A. Riedinger, C. Pechoux, T. Pellegrino, C. Wilhelm, and F. Gazeau. Biodegradation of iron oxide nanocubes: high-resolution in situ monitoring. *ACS NANO*, 7 (5), p:3939-3952 (2013) [IF:12.88]Q1.
 97. D. Alloyeau, W. Darchaoui, **Y. Javed**, H. Belkahla, G. Wang, H. Lecoq, S. Ammar, O. Ersen, A. Wisnet, F. Gazeau, C. Ricolleau. Unravelling kinetic and thermodynamic effects on the growth of gold nanoplates by Liquid Transmission Electron Microscopy. *Nanoletters*, 15(4) p:2574-2581 (2015) [IF:13.59]Q1.
 98. M. Ahmad, M.A. Rafiq, Z. Imran, K. Rasool, R.N. Shahid, **Y. Javed**, M.M. Hasan. Charge conduction and relaxation in MoS₂ nanoflakes synthesized by simple solid state reaction. *Journal of Applied Physics*, 114 (4), p:043710-5 (2013) [IF:2.6]Q2.
 99. Z. Imran, S.S. Batool, M.Q. Israr, J.R. Sadaf, M. Usman, H. Jamil, **M.Y. Javed**, M.A. Rafiq, M.M. Hasan, O. Nur, M. Willander. Fabrication of cadmium titanate

nanofibers via electrospinning technique. *Ceramic International*, 38 (4), p:3361–3365 (2012) [IF:2.2]Q1.

Books (Edited)

Magnetic Nanoheterostructures: Diagnostic, Imaging and Treatment. Editors: Prof. Surender Kumar Sharma and **Yasir Javed**, Springer Publisher, 2020, ISBN 978-3-030-39923-8.

Book Chapters

1. Saleem, A., Afzal, I., **Javed, Y.** and Jamil, Y., 2023. Fundamentals of light–matter interaction. In *Modern Luminescence from Fundamental Concepts to Materials and Applications* (pp. 185-218). Woodhead Publishing.
2. Kiran, I., N.A. Shad, M.M. Sajid, H.Z. Mahmood, **Y. Javed***, M. Sarwar, H. Nosrati, H. Danafar, and S.K. Sharma. 2022. **X-ray Triggered Photodynamic Therapy**, in *Harnessing Materials for X-ray Based Cancer Therapy and Imaging*, S.K. Sharma, H. Nosrati, and T. Kavetsky, Editors. 2022, Springer International Publishing: Cham. p. 201-216.
3. Kiran, I., N.A. Shad, M. Munir Sajid, H. Zeeshan Mahmood, **Y. Javed***, M. Hanif, R. Ali, M. Sarwar, H. Nosrati, H. Danafar, and S.K. Sharma. 2022. **Emerging Nanomaterials as Radio-Sensitizer in Radiotherapy**, in *Harnessing Materials for X-ray Based Cancer Therapy and Imaging*, S.K. Sharma, H. Nosrati, and T. Kavetsky, Editors. 2022, Springer International Publishing: Cham. p. 59-75.
4. Kiran, I., Shad, N.A., Sajid, M.M., Jamil, Y., Javed, Y., Hussain, M.I. and Akhtar, K., 2021. **Graphene Functionalized PLA Nanocomposites and Their Biomedical Applications**. In *Graphene Based Biopolymer Nanocomposites* (pp. 83-105). Springer, Singapore.
5. Akhtar, K., **Javed, Y.***, Akhtar, M.I. and Shad, N.A., **Applications of Iron Oxide Nanoparticles in the Magnetic Resonance Imaging for the Cancer Diagnosis**. In *Nanopharmaceuticals: Principles and Applications Vol. 1* (pp. 115-158). Springer, Cham.
6. Ahmad, G., Nawaz, A., Nawaz, S., Shad, N.A., Sajid, M.M. and **Javed, Y*.**, 2020. **Nanomaterial-based gas sensor for environmental science and technology**. In *Nanofabrication for Smart Nanosensor Applications* (pp. 229-252). Elsevier.
7. Kanwal Akhtar, **Y. Javed***, Naveed Akhtar Shad, 2020. **Noninvasive/Minimally Invasive Nanodiagnosics**. In *Intelligent Nanomaterials for Drug Delivery Applications* (pp: 105) Elsevier. ISBN: 978-0-12-817830-0.
8. Hussain, M.I., Nawaz, S., Sajid, M.M., Nawaz, A., Irum, A., **Javed, Y.**, Ge, C. and Yasin, G., 2020. **Corrosion resistance of nanostructured metals and alloys**. In *Corrosion Protection at the Nanoscale* (pp. 63-87). Elsevier.
9. Niraula, G., Shrivastava, N., Akhtar, K., **Javed, Y.**, Coaquira, J.A.H. and Sharma, S.K., 2020. **Liquid-Phase Synthesis of Multifunctional Nanomaterials: A Recent Update**. In *Magnetic Nanoheterostructures* (pp. 1-56). Springer, Cham.
10. Akhtar, K., **Javed, Y*.**, Shad, N.A., Shrivastava, N. and Sharma, S.K., 2020. **Persistence, Toxicity, and Biodegradation of Gold-and Iron Oxide-Based Nanoparticles in the Living Systems**. In *Magnetic Nanoheterostructures* (pp. 447-478). Springer, Cham.
11. Hussain, M.I., Xia, M., Akhtar, K., Nawaz, A., Sharma, S.K. and **Javed, Y.**, 2020. **Ferrite Nanoparticles for Biomedical Applications**. In *Magnetic Nanoheterostructures* (pp. 243-265). Springer, Cham.

12. Sultan, M.Z., Jamil, Y., **Javed, Y.**, Sharma, S.K. and Tahir, M.S., 2020. **Thermal Response of Iron Oxide and Metal-Based Iron Oxide Nanoparticles for Magnetic Hyperthermia.** In *Magnetic Nanoheterostructures* (pp. 333-356). Springer, Cham.
13. Shrivastava, N., **Javed, Y.**, Ali, K., Ahmad, M.R., Akhtar, K. and Sharma, S.K., 2020. **Manganite Pervoskite Nanoparticles: Synthesis, Heating Mechanism, Toxicity, and Self-regulated Hyperthermia.** In *Magnetic Nanoheterostructures* (pp. 357-381). Springer, Cham.
14. Shrivastava, N., Shad, N.A., Sajid, M.M., Singh, M., **Javed, Y.** and Sharma, S.K., 2020. **Evaluation of Hyperthermic Properties of Magnetic Nano-Heterostructures Based on Gold-Iron Oxide and Noble Metal-Ferrite Systems.** In *Magnetic Nanoheterostructures* (pp. 317-332). Springer, Cham.
15. Akhtar, K., Shad, N.A., Sajid, M.M., **Javed, Y.***, Asif, M., Ali, K., Anwar, H., Jamil, Y. and Sharma, S.K., 2020. **Photovoltaic-Based Nanomaterials: Synthesis and Characterization.** In *Solar Cells* (pp. 139-158). Springer, Cham.
16. Akhtar, K., **Javed, Y.***, Anwar, H., Ali, K. and Shad, N.A., 2019. **Solid-Lipid Hybrid Nanostructures and Their Biomedical Applications.** *Nanohybrids in Environmental & Biomedical Applications*, p.115. CRC Press, ISBN 9780815367628.
17. Ali, K., Bano, S.S. and **Javed, Y.**, 2019. **TiO₂ Based Nano-Hybrids for Energy and Environmental Applications.** In Surender Sharma (ed.) *Nanohybrids in Environmental & Biomedical Applications*, p.169. CRC Press, ISBN 9780815367628
18. Anwar, H., Arif, I., Javeed, U. and **Javed, Y.**, 2019. **Titanium Dioxide-Based Nanohybrids as Photocatalysts for Removal and Degradation of Industrial Contaminants.** In Surender Sharma (ed.) *Nanohybrids in Environmental & Biomedical Applications*, p.255. CRC Press, ISBN 9780815367628
19. **Javed Y.***, M. I. Hussain, M. Yaseen, M. Asif. 2019. **Gold-Iron oxide nanohybrids: Characterization and Biomedical applications.** In Kaushik Pal (ed.) *Hybrid Nanocomposites: Fundamentals, Synthesis and Applications*, Pan Stanford Publishing Pte. Ltd. ISBN 978-981-4800-34-1 (Hardcover), 978-0-429-00096-6 (eBook).
20. Anwar H., **Y. Javed**, Irum Arif and Uswa Javeed. 2019. **Facile synthesis and applications of Polyaniline/TiO₂ hybrid nanocomposites.** In Kaushik Pal (ed.) *Hybrid Nanocomposites: Fundamentals, Synthesis and Applications*, Pan Stanford Publishing Pte. Ltd. ISBN 978-981-4800-34-1(Hardcover), 978-0-429-00096-6 (eBook).
21. K. Ali and **Y. Javed**. 2019. **Processing of nanocomposite solar cells in optical applications.** In Kaushik Pal (ed.) *Hybrid Nanocomposites: Fundamentals, Synthesis and Applications*, Pan Stanford Publishing Pte. Ltd. ISBN 978-981-4800-34-1(Hardcover), 978-0-429-00096-6 (eBook).
22. **Javed Y.***, K. Ali, K Akhtar, Jawaria, M. I. Hussain, G. Ahmad, T. Arif. 2018. **TEM for Atomic-Scale Study: Fundamental, Instrumentation, and Applications in Nanotechnology.** In: Sharma S. (eds) *Handbook of Materials Characterization*. Springer, Cham. pp 147-216. ISBN 978-3-319-92954-5
23. Ali K., **Y. Javed**. 2018. **Radiation-Resistant Solar Cells: Recent Updates and Future Prospective.** In: Martínez L., Kharissova O., Kharisov B. (eds) *Handbook of Ecomaterials*. Springer, Cham. pp 1-26 ISBN No. 978-3-319-48281-1
24. **Yasir Javed***, Khuram Ali, Yasir Jamil. Book Chapter: **“Magnetic Nanoparticle-Based Hyperthermia for Cancer Treatment: Factors**

Affecting Heat Generation Efficiency". Book Title: "COMPLEX MAGNETIC NANOSTRUCTURES: SYNTHESIS, ASSEMBLY & APPLICATIONS" Springer International Publishing. DOI: 10.1007/978-3-319-52087-2.

25. Khuram Ali, **Yasir Javed**, Yasir Jamil. Book Chapter: "**Size and Shape Control Synthesis of Iron Oxide–Based Nanoparticles: Current Status and Future Possibility**". Book Title: "COMPLEX MAGNETIC NANOSTRUCTURES: SYNTHESIS, ASSEMBLY & APPLICATIONS" Springer International Publishing. DOI: 10.1007/978-3-319-52087-2.

National Conference Presentations

1. Presented as **an invited speaker** in **The Women University Multan** in **National Symposium on Condensed Matter and Nanotechnology** held on 17 March 2016.
2. Y. Javed. *Studying kinetic and thermodynamical effects on the growth of gold platelets by liquid cell Transmission Electron Microscopy*. **Symposium on Nanomaterials Research**. at PIEAS, Islamabad on 15-17 June 2015.

Workshop/Seminar Organized

1. Organized one day seminar on "**Nanotechnology: Recent trends and future prospects**" held on 23 April 2016.
2. Organized one day training workshop on "**Mendeley: a reference management software**" held on March 19, 2016.

Experimental Skills

1. 3 Years working experience on JEOL ARM 200F aberration corrected High Resolution Transmission Electron Microscopy (Characterization of structural and chemical changes, EDX, Energy Filtered TEM, HAADF-STEM, Chemical Mapping, Liquid TEM)
2. TEM of in vivo samples at 80kV
3. Quantum design PPMS- VSM Magnetometer (Magnetization, Hysteresis, ZFC/FC, Low Temperature measurements)
4. Quantum Design MPMS- SQUID Magnetometer
5. XRD analysis for structure
6. Controlled chemical synthesis of nanomaterials
7. Pulsed Laser Deposition (PLD)
8. Electrochemical properties

Computing Skills

1. Regular use of MS Windows, MS Office, Acrobat
2. Gatan Digital Micrograph for TEM
3. JEMS software for structural analysis
4. Analysis station for STEM
5. Origin Pro 8

Students Supervision as main supervisor

Degree	Graduated	In Progress
PhD	3	4
MS/MPhil	30	7

PhD Student

Miss Kanwal Akhtar, Title: “Bio-transformations and toxicity of iron oxide and metal-based iron oxide nanomaterials” (Graduated in 2021)

Mr. Gulzar Ahmad, Title: “Synthesis and characterization of metal sulfide nanostructures for sensing applications” (Graduated in 2022)

Mr. Muhammad Khawar Abbas, Title: “Toxicity and Biological Applications of Metal oxide polymer nanocomposites” (Graduated in 2024)

Course Taught

Post graduate

1. Methods and Techniques of Experimental Physics
2. Advanced Solid State Physics
3. Instrumentation and Advanced Analytical Techniques

Undergraduate

1. Bio-Physics
2. Structure and Properties of Materials
3. Nano-devices
4. Modern Physics (Lab Course)
5. Mechanics and Optics (Lab Course)

Administrative Experience

1. Convener, Budget Rationalisation Committee of Evening and Weekend programs of the University of Agriculture Faisalabad
2. Member, Faculty Board, Faculty of Sciences, University of Agriculture Faisalabad.
3. Member, Board of Studies, Department of Physics, University of Agriculture, Faisalabad.
4. Incharge, Departmental Library, Department of Physics, University of Agriculture Faisalabad
5. Take care purchases and tender committees of the Department of Physics, University of Agriculture, Faisalabad.

References

1. **Dr. Yasir Jamil (Chairman/Associate Professor)**
E-mail: yasirjamil@uaf.edu.pk
Tel: +92419200109
Address: Chairman, Department of Physics, University of Agriculture, Faisalabad.
2. **Prof. Surender Kumar Sharma**,
Email: surender76@gmail.com
Tel: +559881005069/+916280427174
Address: Department of Physics, Federal University of Maranhão - Sao Luis, Brazil.
3. **Dr. Sajjad Hussain (Associate Professor)**
Email: sajjad.hussain@ue.edu.pk
Tel: +923316578780
Department of Physics, University of Education Lahore, Lahore, Pakistan.