

ZAKA ULLAH



Research Profiles

<https://ue.edu.pk/emprofile.php?id=1964>

<https://scholar.google.com/citations?user=Kgd1RHoAAAAJ&hl=en>

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Permanent Address

Mohsin House, Near
Burhan Filling Station,
Mohallah Eid Gah,
Taunsa Sharif, District
Dera Ghazi Khan,
32100, Pakistan.

Date of Birth

October 24, 1986

Nationality

Pakistani

Gender

Male

Marital Status

Married

Religion

Islam

Passport No.

CH2745943

Objective

I am oriented to work in an established academic institution in Pakistan which could provide me opportunities to offer my teaching and research skills, so that I can transfer my knowledge and initiate novel research projects at the institution to lead and train early-stage researchers, and I can get and deliver worthy experience and can contribute at my level best for the development of host institution, my country Pakistan and the humanity, and I can fulfil my dream to see Pakistan among the top research nations in the world.

Current Employment

2021 to Date I am working as an **Assistant Professor (TTS)** at the Department of Physics, University of Education, Lahore (Multan Campus, Multan), Pakistan, since November 29, 2021.

Past Experience

2019 to 2021 I have been working as a **Postdoctoral Researcher** at the College of Materials Science and Engineering, Shenzhen University, Shenzhen, China, from November 01, 2019 to May 31, 2021.

2017 to 2019 I have been working as an **Assistant Professor** at the Centre of Excellence in Solid State Physics, University of the Punjab, Lahore, Pakistan, from November 24, 2017 to September 23, 2019.

Academic Record

2013-2017 **Ph.D. in Microelectronics and Solid State Electronics**
University of Chinese Academy of Sciences, Beijing, China
Thesis Title: Synthesis of Graphene Materials for Transparent and Flexible Electronics

2010-2012 **M.Phil. in Solid State Physics**
University of the Punjab, Lahore, Pakistan
Thesis Title: Synthesis and Characterization of Pb doped Sr-Ferrites
1st Division

2007-2009 **M.Sc. in Applied Physics**
University of Engineering & Technology, Lahore, Pakistan
Thesis Title: Attenuation of Laser Plasma X-Rays by Metallic Filters
1st Division

2005-2007 **B.Sc.**
Bahauddin Zakariya University, Multan, Pakistan
Subjects: Physics, Chemistry, Mathematics
1st Division

Research Expertise

✚ I have a broad knowledge, training and experience of following equipment and characterization techniques, and can handle independently:

Optical Microscopy, SEM, EDS, XRD, Raman Spectroscopy, UV-Vis Spectroscopy, Four-Point Probe Apparatus, Electrochemical Workstation, Keithley Source Meter, Spin Coater, Sonicator, Furnaces, Vacuum Pumps, Apparatus for APCVD, LPCVD and PECVD, Techniques for Printed Electronics, etc.

✚ I have a wide knowledge, but fair training and experience of following equipment to operate independently:

TEM, SAED, AFM, VSM, XPS, IR Spectroscopy, FTIR Spectroscopy, RF Magnetron Sputtering, Mass Spectrometer, MBE, Nd:YAG Laser, Excimer Laser, etc.

Research Interests

Materials Synthesis and Characterization, Carbon Materials, Graphene, 2D Materials, Thin Film Technology, Electronic Devices Fabrication, Transparent and Flexible Electronics, Printed Electronics, Sensors, Batteries, Supercapacitors, Phase-Change Memory, etc.

Research Supervision

- I have **Supervised 3 BS Physics Research Students** at the Department of Physics, University of Education, Lahore, Multan Campus, Multan, Pakistan, during February 2022 to August 2022.
- I have **Supervised 12 MPhil Research Students** at the Centre of Excellence in Solid State Physics, University of the Punjab, Lahore, Pakistan.

Research Profile

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|--|---|
| Journal Papers: 52 | Accumulative Impact Factor: 287.789 |
| Patent (Chinese): 1 | Citations (as per Google Scholar): 798 |
| h-index (as per Google Scholar): 16 | i10-index (as per Google Scholar): 25 |

Has **Published** in Journals including **Energy Storage Materials (IF: 20.831)**, **Nano Energy (IF: 19.069)**, **Small (IF: 15.153: Published 2 times)** and **Journal of Materials Chemistry A (IF: 14.511: Published 2 times)**

List of Research Publications

➤ HEC Approved PhD Supervisor

- [52] *One step fabrication of nanostructured nickel thin films on porous nickel foam for drastic electrocatalytic oxygen evolution*
Muhammad Ali Ehsan, **Zaka Ullah**, Muhammad Faizan Nazar, Muhammad Younas, Munzir Suliman
International Journal of Hydrogen Energy (2023): doi.org/10.1016/j.ijhydene.2023.01.083
<https://www.sciencedirect.com/science/article/pii/S0360319923000848?via%3Dihub>
- [51] *Ultrahigh current output from triboelectric nanogenerators based on UIO-66 materials for electrochemical cathodic protection*
Penghao Zhu, **Zaka Ullah**, Surong Zheng, Zairui Yang, Shiwei Yu, Shoupu Zhu, Liwei Liu, Aihua He, Cunguo Wang, Qi Li
Nano Energy (2023) 108195
<https://www.sciencedirect.com/science/article/pii/S2211285523000319>
- [50] *First-principles calculations to investigate Structural, Elastic, Electronic, Optical, and Magnetic Properties of Hg₂WO₄ for Photocatalytic Applications*
Sania Ayub, Adnan Khalil, Rahila Shaheen, Soumaya Gouadria, Muhammad Bilal Tahir, **Zaka Ullah**, Abdul Hannan, El Sayed Yousef, Meshal Alzaid
Optik (2023) 170565
<https://www.sciencedirect.com/science/article/pii/S003040262300061X>
- [49] *Longer cycle life and higher discharge voltage of a small molecular indanthrone resulting from the extended conjugated framework*
Liyi Zhao, Yunfei Ning, Qingyu Dong, **Zaka Ullah**, Penghao Zhu, Surong Zheng, Guang Xia, Shoupu Zhu, Qi Li, Liwei Liu
Journal of Power Sources 556 (2023) 232518
<https://www.sciencedirect.com/science/article/pii/S0378775322014951>
- [48] *First-principles calculations to investigate HgY₂S/Se₄ spinel chalcogenides for optoelectronic and thermoelectric applications*
Ghulam M. Mustafa, Sadaf Saba, N. A. Noor, A. Laref, Magda Abd El-Rahman, Zahid Farooq, R. B. Behram, **Zaka Ullah**
Journal of Materials Research and Technology 22 (2023) 97
<https://www.sciencedirect.com/science/article/pii/S2238785422018245>
- [47] *Stretchable photodetectors based on 2D materials: materials synthesis, fabrications and applications*
Waqas Ahmad, **Zaka Ullah**, Karim Khan
FlatChem 36 (2022) 100452
<https://www.sciencedirect.com/science/article/pii/S2452262722001192>
- [46] *Single Iron Atom Anchored on ZIF-8 Derived Carbon Framework to Directionally Regulate Lithium Deposition with Minimum Nucleation Overpotential*
Zhixing Guan, **Zaka Ullah**, Surong Zheng, Ruizai Yang, Penghao Zhu, Qing Cheng, Penghao Song, Qi Li, Liwei Liu
Advanced Materials Interfaces (2022) 2201278
<https://onlinelibrary.wiley.com/doi/10.1002/admi.202201278>
- [45] *Flexible and Disposable Ultrasensitive Liquid Sensors Based on CNTs and CNTs/ZnO-NPs Spray-Coated Cellulose Fiber Frameworks*
Zaka Ullah*, Ayesha Rehman, Bushra Rehman, Muhammad Altaf, Nazmina Imrose Sonil, Shahid Atiq, Muhammad Saleem, Muhammad Azhar, Saira Riaz, Shahzad Naseem
Microelectronic Engineering 250 (2021) 111638

<https://www.sciencedirect.com/science/article/pii/S0167931721001404>

- [44] *High-Performance PDB Organic Cathodes Reinforced by 3D Flower-like Carbon for Lithium-/Sodium-Ion Batteries*
Cunguo Wang, Qun Ji, Rongrong Chu, **Zaka Ullah**, Mengge Zheng, Xuan Dong, Yue Sun, Qi Li, Liwei Liu
ACS Applied Energy Materials (2021) doi/10.1021/acsaem.1c02393
<https://pubs.acs.org/doi/10.1021/acsaem.1c02393>
- [43] *High protection performance based on corrosion media-consumption and barrier properties of the supramolecular polymer reinforced graphene oxide composite coatings*
Mengge Zheng, Qun Ji, **Zaka Ullah**, Yingfei Zhang, Mingliang Chen, Weiwei Li, Qi Li, Liwei Liu
Journal of Polymer Research 28 (2021) 426
<https://link.springer.com/article/10.1007/s10965-021-02801-w>
- [42] *Navigating recent advances in monoelemental materials (Xenes)-fundamental to biomedical applications*
Karim Khan, Ayesha Khan Tareen, Muhammad Iqbal, Lude Wang, Chunyang Ma, Zhe Shi, Zhang Ye, Waqas Ahmad, Rizwan Ur Rehman Sagar, S. Saqib Shams, Ponjar Joice Sophia, **Zaka Ullah**, Zhongjian Xie, Zhongyi Guo, Han Zhang
Progress in Solid State Chemistry 63 (2021) 100326
<https://www.sciencedirect.com/science/article/abs/pii/S0079678621000194>
- [41] *Introduction, Production, Characterization and Applications of Defects in Graphene*
Waqas Ahmad, **Zaka Ullah***, Nazmina Imrose Sonil, Karim Khan
Journal of Materials Science: Materials in Electronics 32 (2021) 19991
<https://link.springer.com/article/10.1007/s10854-021-06575-1>
- [40] *Acetone sensing and modeling through functionalized Ag-catalysts and CNTs via low cost metal-organic framework-derived ZnO nanostructures*
Farhat Ullah Khan, M. Tamoor Ansar, **Zaka Ullah**, Rozi Ali, Muhammad Waseem, Ghulam M. Mustafa, Shahid Atiq, Shahzad Naseem
Ceramics International 47 (2021) 3361
<https://www.sciencedirect.com/science/article/pii/S0272884220328856>
- [39] *Tailoring the laser irradiation effects by covering the targets with polymer tapes*
Maryam Sardar, Chen Jun, **Zaka Ullah***, Ju Cheng, Sundas Sardar, Lu Jian
Optical Materials 110 (2020) 110405
<https://www.sciencedirect.com/science/article/pii/S0925346720307461>
- [38] *ZIF-8 derived nitrogen-doped carbon composites boost the rate performance of organic cathodes for sodium ion batteries*
Rongrong Chu, Hwei Song, **Zaka Ullah**, Zhixing Guan, Yingfei Zhang, Liyi Zhao, Mingliang Chen, Weiwei Li, Qi Li, Liwei Liu
Electrochimica Acta 362 (2020) 137115
<https://www.sciencedirect.com/science/article/pii/S0013468620315085>
- [37] *CNTs/ZnO and CNTs/ZnO/Ag multilayers spray coated on cellulose fiber for use as an efficient humidity sensor*
Babar Kalim, Muhammad Tamoor Ansar, **Zaka Ullah**, S. Kumail Abbas, Saira Riaz, Saadat A. Siddiqi, Shahid Atiq
Ceramics International 46 (2020) 25593
<https://www.sciencedirect.com/science/article/pii/S0272884220320319?via%3Dihub>
- [36] *Ultrasensitive piezoresistive strain sensors based on CNTs/Ag-NPs coated highly stretchable textile*
Muhammad Altaf, Bushra Rehman, Ayesha Rehman, Nazmina Imrose Sonil, Shahid Atiq, Saira Riaz, Shahzad Naseem, **Zaka Ullah***
Journal of Materials Science: Materials in Electronics 31 (2020) 9870
<https://link.springer.com/article/10.1007/s10854-020-03531-3>
- [35] *Significantly stable organic cathode for lithium-ion battery based on nanoconfined poly(anthraquinonyl sulfide)@MOF-derived microporous carbon*
Liyi Zhao, Zhixing Guan, **Zaka Ullah**, Congcong Yu, Hwei Song, Rongrong Chu, Yingfei Zhang, Weiwei Li, Qi Li, Liwei Liu
Electrochimica Acta 335 (2020) 135681
<https://www.sciencedirect.com/science/article/pii/S0013468620300724>
- [34] *Study of microstructural variation with annealing temperature of Ti–Al–C films coated on stainless steel substrates*
Nadeem Abbas, Xiande Qin, Shoukat Ali, Guangming Zhu, Zheng Yi, Xinge Yang, Xierong Zeng, **Zaka Ullah**, Kunming Gu, Jiaoning Tang
International Journal of Hydrogen Energy 45 (2020) 3186
<https://www.sciencedirect.com/science/article/abs/pii/S0360319919343861>
- [33] *Tailored Polyimide as Positive Electrode and Polyimide-Derived Carbon as Negative Electrode for Sodium Ion Full Battery*
Cunguo Wang, Rongrong Chu, Zhixing Guan, **Zaka Ullah**, Hwei Song, Yingfei Zhang, Congcong Yu, Liyi Zhao, Qi Li, Liwei Liu

- Nanoscale** 12 (2020) 4729
<https://pubs.rsc.org/en/content/articlelanding/2020/nr/c9nr09237d#!divAbstract>
- [32] *Iron single-atom catalyst anchored on nitrogen-rich MOF-derived carbon nanocage to accelerate polysulfide redox conversion for lithium sulfur batteries*
 Cunguo Wang, Hwei Song, Congcong Yu, **Zaka Ullah**, Zhixing Guan, Rongrong Chu, Yingfei Zhang, Liyi Zhao, Qi Li, Liwei Liu
Journal of Materials Chemistry A 8 (2020) 3421
<https://pubs.rsc.org/en/Content/ArticleLanding/2020/TA/C9TA11680J#!divAbstract>
- [31] *RuO₂ nanorods decorated CNTs grown carbon cloth as a free standing electrode for supercapacitor and lithium ion batteries*
 Sumreen Asim, Muhammad Sufyan Javed, Shahid Hussain, Masud Rana, Fozia Iram, Dingding Lv, Muhammad Hashim, Muhammad Saleem, Muhammad Khalid, Riffat Jawaria, **Zaka Ullah**, Nafisa Gull
Electrochimica Acta 326 (2019) 135009
<https://www.sciencedirect.com/science/article/pii/S0013468619318808#!>
- [30] *Ultralight and flexible graphene foam coated with Bacillus subtilis as a highly efficient electromagnetic interference shielding film*
 Chitian Xing, Shoupu Zhu, **Zaka Ullah**, Xiaochun Pan, Fan Wu, Xiaobo Zuo, Jianfei Liu, Mingliang Chen, Weiwei Li, Qi Li, Liwei Liu
Applied Surface Science 491 (2019) 616
<https://www.sciencedirect.com/science/article/pii/S0169433219318161>
- [29] *Enhanced lithium storage performance of graphene nanoribbons doped with high content of nitrogen atoms*
 Yuting Qian, Lai Jiang, **Zaka Ullah**, Zhixing Guan, Congcong Yu, Shoupu Zhu, Mingliang Chen, Weiwei Li, Qi Li, Liwei Liu
Nanotechnology 30 (2019) 225401
<https://iopscience.iop.org/article/10.1088/1361-6528/ab0434>
- [28] *Nanopore confined anthraquinone in MOF-derived N-doped microporous carbon as stable organic cathode for lithium-ion battery*
 Liyi Zhao, Jing Yu, Chitian Xing, **Zaka Ullah**, Congcong Yu, Shoupu Zhu, Mingliang Chen, Weiwei Li, Qi Li, Liwei Liu
Energy Storage Materials 22 (2019) 433
<https://www.sciencedirect.com/science/article/pii/S2405829718313059>
- [27] *Thermally Stable Polypyrrole/Hematite Composites with Tunable Dielectric and Magnetic Properties*
 Aisha Batool, Farah Kanwal, Sumreen Asim, Saira Riaz, Shahid Atiq, Shahzad Naseem, Muhammad Waheed Mushtaq, **Zaka Ullah***
Polymer Science Series A 61 (2019) 112
<https://link.springer.com/article/10.1134/S0965545X19010024>
- [26] *Realization of magnetostructural transition and magnetocaloric properties of Ni-Mn-Mo-Sn Heusler alloys*
 Ishfaq Ahmad Shah, Najam ul Hassan, Abudu Keremu, Saira Riaz, Shahzad Naseem, Feng Xu, **Zaka Ullah***
Journal of Superconductivity and Novel Magnetism 32 (2019) 659
<https://link.springer.com/article/10.1007/s10948-018-4750-4>
- [25] *Structural, Morphological and Optical Investigations of Silver Nanoparticles Synthesized by Sol-Gel Auto-combustion Method*
 A. Aziz, M. Khalid, M. S. Akhtar, M. Nadeem, Z. A. Gilani, H. M. N. U. H. K. Asghar, J. Rehman, **Z. Ullah**, M. Saleem
Digest Journal of Nanomaterials and Biostructures 13 (2018) 679
http://www.chalcogen.ro/679_KhalidM.pdf
- [24] *Effect of Ni-Mn Ratio on Structural, Martensitic and Magnetic Properties of Ni-Mn-Co-Ti Ferromagnetic Shape Memory Alloys*
 Najam ul Hassan, Ishfaq Ahmad Shah, Mohsan Jelani, M. Naeem, Saira Riaz, Shahzad Naseem, Feng Xu, **Zaka Ullah***
Materials Research Express 5 (2018) 086102
<http://iopscience.iop.org/article/10.1088/2053-1591/aad124>
- [23] *Strongly coupled perylene bisimide/reduced graphene oxide as organic cathode materials for lithium ion batteries*
 Wei Deng, Jing Yu, Yuting Qian, Rubing Wang, **Zaka Ullah**, Shoupu Zhu, Mingliang Chen, Weiwei Li, Yufen Guo, Qi Li, Liwei Liu
Electrochimica Acta 282 (2018) 24
<https://www.sciencedirect.com/science/article/pii/S0013468618313215>
- [22] *A comparative study of graphene growth by APCVD, LPCVD and PECVD*
Zaka Ullah*, Saira Riaz, Qi Li, Shahid Atiq, Muhammad Saleem, Muhammad Azhar, Shahzad Naseem, Liwei Liu
Materials Research Express 5 (2018) 035606
<https://iopscience.iop.org/article/10.1088/2053-1591/aab7b4/meta>
- [21] *Synthesis of surfactant-coated cobalt ferrite nanoparticles for adsorptive removal of acid blue 45 dye*

- Muhammad Waheed Mushtaq, Farah Kanwal, Muhammad Imran, Naila Ameen, Madeeha Batool, Aisha Batool, Shahid Bashir, Syed Mustansar Abbas, Ata ur Rehman, Saira Riaz, Shahzad Naseem, **Zaka Ullah***
Materials Research Express 5 (2018) 035058
<http://iopscience.iop.org/article/10.1088/2053-1591/aab6a4/meta>
- [20] *Investigations on surface morphology and bandgap engineering of single crystal boron-doped silicon irradiated by nanosecond laser*
 Maryam Sardar, Jun Chen, **Zaka Ullah**, Aasma Tabassum, Mohsan Jelani, Ju Cheng, Yuxiang Sun, Xueming Lv, Jian Lu
Applied Optics 57 (2018) 1296
<https://www.osapublishing.org/ao/abstract.cfm?uri=ao-57-6-1296>
- [19] *Graphene/Ag-NWs Electrodes for Highly Transparent and Extremely Stretchable Supercapacitor*
Zaka Ullah, Qi Li, Rubing Wang, Qi Zeng, Weiwei Li, Liwei Liu
IEEE Transactions on Nanotechnology 17 (2018) 65
<http://ieeexplore.ieee.org/document/7763802/>
- [18] *Multipulse nanosecond laser irradiation of silicon for the investigation of surface morphology and photoelectric properties*
 Maryam Sardar, Jun Chen, **Zaka Ullah**, Mohsan Jelani, Aasma Tabassum, Ju Cheng, Yuxiang Sun, Jian Lu
Materials Research Express 4 (2017) 125902
<http://iopscience.iop.org/article/10.1088/2053-1591/aa9b68/meta>
- [17] *Low resistivity of graphene nanoribbons with zigzag-dominated edge fabricated by hydrogen plasma etching combined with Zn/HCl pretreatment*
 Fengkui Liu, Qi Li, Rubing Wang, Jianbao Xu, Junxiong Hu, Weiwei Li, Yufen Guo, Yuting Qian, Wei Deng, **Zaka Ullah**, Zhongming Zeng, Mengtao Sun, Liwei Liu
Applied Physics Letters 111 (2017) 203102
<http://aip.scitation.org/doi/abs/10.1063/1.4996055>
- [16] *Ultra-broadband graphene-InSb heterojunction photodetector*
 Jianbao Xu, Junxiong Hu, Rubing Wang, Qi Li, Weiwei Li, Yufen Guo, Fengkui Liu, **Zaka Ullah**, Long Wen, Liwei Liu
Applied Physics Letters 111 (2017) 051106
<http://aip.scitation.org/doi/abs/10.1063/1.4997327>
- [15] *Annealing disintegrates Cu₂MoS₄ nanosheets into MoS₂ and Cu₂S nanoheterostructures*
 Irfan Ali, **Zaka Ullah**, Imran Rehan, Adnan Khalil, Muhammad Habib, Hafiz Tariq Masood, Yasir Sohail, Muhammad Waseem
Journal of Materials Science: Materials in Electronics 28 (2017) 15936
<https://link.springer.com/article/10.1007/s10854-017-7490-5>
- [14] *Assembly of highly stable aqueous dispersions and flexible films of nitrogen-doped graphene for high-performance stretchable supercapacitors*
 Qi Zeng⁺, **Zaka Ullah**⁺, Mingliang Chen⁺, Huitao Zhang, Rubing Wang, Lina Gao, Liwei Liu, Guanhong Tao, Qi Li
Journal of Materials Science 52 (2017) 12751
⁺ These authors contributed equally
<https://link.springer.com/article/10.1007/s10853-017-1336-7>
- [13] *Significant Enhancement of Metal Heat Dissipation from Mechanically Exfoliated Graphene Nanosheets through Thermal Radiation Effect*
 Junxiong Hu, Jianbao Xu, Chao Zhu, Qi Li, **Zaka Ullah**, Fengkui Liu, Weiwei Li, Yufen Guo, Xinluo Zhao, Liwei Liu
AIP Advances 7 (2017) 055315
<http://aip.scitation.org/doi/full/10.1063/1.4984028>
- [12] *Fast Batch Production of High-quality Graphene Films in Sealed Thermal Molecular Movement System*
 Jianbao Xu, Junxiong Hu, Qi Li, Rubing Wang, Weiwei Li, Yufen Guo, Yongbo Zhu, Fengkui Liu, **Zaka Ullah**, Guocai Dong, Zhongming Zeng, Liwei Liu
Small 13 (2017) 1700651
<http://onlinelibrary.wiley.com/doi/10.1002/sml.201700651/abstract>
- [11] *Polymer-Coated CoFe₂O₄ Nanoassemblies as Biocompatible Magnetic Nanocarriers for Anticancer Drug Delivery*
 Muhammad Waheed Mushtaq, Farah Kanwal, Aisha Batool, Tahir Jamil, Muhammad Zia-ul-Haq, Bushra Ijaz, Qingrong Huang, **Zaka Ullah***
Journal of Materials Science 52 (2017) 9282
<https://link.springer.com/article/10.1007/s10853-017-1141-3>
- [10] *Roles of Oxygen and Hydrogen in Crystal Orientation Transition of Copper Foils for High-Quality Graphene Growth*
 Junxiong Hu, Jianbao Xu, Yanfei Zhao, Lin Shi, Qi Li, Fengkui Liu, **Zaka Ullah**, Weiwei Li, Yufen Guo, Liwei Liu
Scientific Reports 7 (2017) 45358
<http://www.nature.com/articles/srep45358>

- [9] *Inducing the Magnetic Character in Reduced Graphene Oxide through Incorporation of Fe₂O₃ Nanoparticles*
Abdur Rauf, Syed Sohail Ahmad Shah, Sobia Allah Rakha, Munazza Gul, Ishaq Ahmad, **Zaka Ullah***, Ishfaq Ahmad Shah, Shahzad Naseem
International Journal of Modern Physics B 31 (2017) 1750118
<http://www.worldscientific.com/doi/abs/10.1142/S0217979217501181>
- [8] *Self-assembly of Urchin-like Porphyrin/Graphene Microspheres for Artificial Photosynthetic Production of Formic Acid from CO₂*
Qi Li, Qi Zeng, Lina Gao, **Zaka Ullah**, Hui Li, Yufen Guo, Weiwei Li, Ying Shi, Guanhong Tao, Liwei Liu
Journal of Materials Chemistry A 5 (2017) 155
<http://pubs.rsc.org/en/content/articlelanding/2016/ta/c6ta07508h#!divAbstract>
- [7] *Influence of Ion Beam Irradiation on Structural, Magnetic and Electrical Characteristics of Ho-doped AlN Thin Films*
Najam ul Hassan, Zahid Hussain, M. Naeem, Ishfaq Ahmad Shah, G. Husnain, Ishaq Ahmad, **Zaka Ullah***
Surface Review and Letters 24 (2017) 1750021
<http://www.worldscientific.com/doi/abs/10.1142/S0218625X17500214>
- [6] *Wide Range Strain Sensors Based on Highly Transparent and Supremely Stretchable Graphene/Ag-Nanowires Hybrid Structures*
Qi Li⁺, **Zaka Ullah***, Weiwei Li, Yufen Guo, Jianbao Xu, Rubing Wang, Qi Zeng, Mingliang Chen, Chaojun Liu, Liwei Liu
Small 12 (2016) 5058
+ These authors contributed equally
<http://onlinelibrary.wiley.com/doi/10.1002/sml.201600487/full>
- [5] *Sintering Effects on Structural and Magnetic Behaviours of NdFeB Magnets*
Ishfaq Ahmad Shah, Tahir Abbas, **Zaka Ullah***, Najum ul Hassan, Abdur Rauf, Kaleem Ullah, Shahzad Naseem
Armenian Journal of Physics 8 (2015) 185
<http://ajp.asj-oa.am/750/>
- [4] *Optical Response of UV Laser Irradiated Extrinsic Semiconductor*
Maryam Sardar, **Zaka Ullah***, Anwar Latif, Bushra Jabar, Abida Perveen, Muhammad Shahid Rafique, Muhammad Khaleeq-Ur-Rahman
Armenian Journal of Physics 8 (2015) 79
<http://ajp.asj-oa.am/740/>
- [3] *Sn doped ZnO Thin Films Prepared by Pulsed Laser Deposition for Photovoltaic Applications*
Irfan Ali, **Zaka Ullah***, Khurram Siraj, Muhammad Shahid Rafique, Muhammad Khaleeq-ur-Rahman
International Journal of Thin Films Science and Technology 3 (2014) 107
<http://www.naturalspublishing.com/Article.asp?ArtcID=5527>
- [2] *Indexing the Diffraction Patterns and Investigating the Crystal Structure of Pb-doped Strontium Ferrites*
Zaka Ullah, Shahid Atiq, Shahzad Naseem
Journal of Scientific Research 5 (2013) 235
<https://www.banglajol.info/index.php/JSR/article/view/11578>
- [1] *Influence of Pb Doping on Structural, Electrical and Magnetic Properties of Sr-Hexaferrites*
Zaka Ullah, Shahid Atiq, Shahzad Naseem
Journal of Alloys and Compounds 555 (2013) 263
<http://www.sciencedirect.com/science/article/pii/S0925838812022852>

* Corresponding author

Chinese Patent

可拉伸的柔性压力传感器及其制造方法 (Stretchable Pliable Pressure Sensor and its Manufacture Method)

刘立伟, 扎卡乌拉, 李奇, 高丽, 娜王汝, 冰曾奇 (Liwei Liu, **Zaka Ullah**, Qi Li, Qi Zeng, Lina Gao, Rubing Wang)

Application Number: CN107525613A (Available Online: <https://patents.google.com/patent/CN107525613A/en>)

International Conference Presentations

- Assembly of CNTs Coated Stretchable Fabric for the Fabrication of Wearable Strain Sensors (*Invited Talk*)
Zaka Ullah, Muhammad Waseem, M. Tamoor Ansar, Ghulam M. Mustafa, Shahid Atiq, Saira Riaz and Shahid M. Ramay
Presented in International Conference on Innovations in Chemistry and Physics (ICP-22) held on March 14-15, 2022 at the **University of Education, Lahore (Faisalabad Campus), Pakistan.**
- Fabrication of Wearable Strain Sensors Based on ZnO/CNTs Coated Stretchable Textile (*Invited Talk*)
Zaka Ullah, Bushra Rehman, Muhammad Altaf, Ayesha Rehman, Nazmina Imrose Sonil, Shahid Atiq, Saira Riaz, Shahzad Naseem
Presented in International Conference on Solid State Physics, 2021 (ICSSP'21) held on February 21-24, 2022 at the **Centre of Excellence in Solid State Physics, University of the Punjab, Lahore, Pakistan.**

3. A Comparative Study of Graphene Growth by APCVD, LPCVD and PECVD (*Invited Talk*)
Zaka Ullah, Saira Riaz, Shahid Atiq, Qi Li, Muhammad Saleem, Muhammad Azhar, Liwei Liu, Shahzad Naseem
Presented in *International Conference on Solid State Physics, 2017 (ICSSP'17)* held on December 10-14, 2017 at Centre of Excellence in Solid State Physics, University of the Punjab, Lahore, Pakistan.
2. Graphene/Ag-NWs Electrodes for Highly Transparent and Extremely Stretchable Supercapacitor
Zaka Ullah, Qi Li, Rubing Wang, Qi Zeng, Weiwei Li, Liwei Liu
Presented in *The 7th IEEE International Nanoelectronics Conference 2016 (IEEE INEC 2016)* held on May 9-11, 2016 at University of Electronic Science and Technology of China, Chengdu, China.
1. Influence of A-site Pb substitution on Structural and Magnetic Properties of Sr-Hexaferrites
Zaka Ullah, Shahid Atiq, Murtaza Saleem, Shahzad Naseem,
Poster presented in *International Conference on Condensed Matter Physics and Engineering (ICCMPE-12)*, held on December 27-29, 2012 at Bahauddin Zakariya University, Multan, Pakistan.

Computer Skills towards Scientific Research

- ✚ I am skilled in following **Computer Software** which can be used for Scientific Research:
L-Tex, Microsoft Office, EndNote, MDI Jade, Cell, MathType, Adobe Acrobat, Origin, AFM Nanoscop, NanoFit, etc.
- ✚ I have reasonable command on following **Computer Software** which can be used for Scientific Research:
MATLAB, Mathematica, ChemDraw, Xpert Highscore, Adobe Photoshop, Corel Draw, Edraw Max, etc.

Member of Editorial Board and Reviewer of Scientific Journals

Reviewer Profile: <https://www.webofscience.com/wos/author/record/O-3157-2016>

- ✚ I have **Reviewed More than 270 Research Papers of Following SCL Journals** and **1 Foreign Master Student Thesis:**

1. **Associate Editor** of **Frontiers in Materials (IF: 3.985)**
2. **Associate Editor** of **International Journal of Innovations in Science & Technology**
3. **Member of Editorial Board** of **International Journal of Engineering Works**
4. **Guest Editor** for Special Issue of **Frontiers in Materials (IF: 3.985)**
5. **Guest Editor** for Special Issue of **Frontiers in Sensors (IF: Pending)**
6. Reviewer of **Carbon (IF: 11.307)**
7. Reviewer of **ACS Applied Materials & Interfaces (IF: 10.383)**
8. Reviewer of **Materials & Design (IF: 9.417)**
9. Reviewer of **ACS Sustainable Chemistry & Engineering (IF: 9.224)**
10. Reviewer of **Journal of Alloys and Compounds (IF: 6.371)**
11. Reviewer of **Biosensors (IF: 5.743)**
12. Reviewer of **ACS Applied Nano Materials (IF: 5.097)**
13. Reviewer of **Journal of Materials Research and Technology (IF: 5.039)**
14. Reviewer of **ACS Applied Electronic Materials (IF: 4.494)**
15. Reviewer of **Results in Physics (IF: 4.476)**
16. Reviewer of **Journal of Physics and Chemistry of Solids (IF: 4.383)**
17. Reviewer of **Journal of Materials Science (IF: 4.220)**
18. Reviewer of **Sustainability (IF: 4.089)**
19. Reviewer of **Vacuum (IF: 3.627)**
20. Reviewer of **Materials (IF: 3.623)**
21. Reviewer of **Sensors (IF: 3.576)**
22. Reviewer of **ACS Omega (IF: 3.512)**
23. Reviewer of **Materials Letters (IF: 3.423)**
24. Reviewer of **Coatings (IF: 2.881)**
25. Reviewer of **Applied Sciences (IF: 2.679)**
26. Reviewer of **Minerals (IF: 2.644)**
27. Reviewer of **Mathematics (IF: 2.592)**
28. Reviewer of **Journal of Materials Science: Materials in Electronics (IF: 2.478)**
29. Reviewer of **Optical and Quantum Electronics (IF: 2.084)**
30. Reviewer of **Applied Optics (IF: 1.980)**
31. Reviewer of **International Journal of Modern Physics B (IF: 1.219)**
32. Reviewer of **Journal of Innovations in Science and Technology (IF: Pending)**
33. Reviewer of **Advanced Ceramics Progress (IF: Pending)**
34. Reviewer of **Carbon Trends (IF: Pending)**
35. Reviewer of **Journal of Renewable Materials (IF: Pending)**
36. Reviewer of **Nanoscience and Nanotechnology Letters (IF: Pending)**

Other Particulars

- Received **Top Peer Reviewer 2019 Award** from Publons/Web of Science

- **American Chemical Society (ACS) Complimentary Member** with **Membership Number 32158683** for the year 2019-20 and 2022-23
- Won a **Postdoctoral Fellowship** at College of Materials Science and Engineering, Shenzhen University, Shenzhen, China, for two years
- Won a **Research Grant** (under Startup Research Grant Program) of value **~0.5 million PKR** from HEC for IPFP Project entitled, Inkjet-Printed Transparent and Flexible Multifunctional Sensors and Liquid Gauges, at the Centre of Excellence in Solid State Physics, University of the Punjab, Lahore, Pakistan, on April 16, 2018
- Won **CAS-TWAS President's Fellowship** for PhD study in China during September 2013 to July 2017
- Got 6.5 Band Score in **IELTS** Test Arranged by British Council in January 2013
- Attended **2016 Summer School on Frontier and Interdisciplinary Science** during July 25-31, 2016, organized by University of Chinese Academy of Sciences, Beijing, China
- **Chess Champion** in **Sports Gala-CSSP-2018** held at Centre of Excellence in Solid State Physics, University of the Punjab, Lahore, Pakistan, during March 21-23, 2018
- Attended **13 Research and Technology Online Trainings** of ProQuest Arranged by HEC during 2020-21
- Attended **2nd One Day Workshop on Young Researchers' Skill Development and NAYS Emerging Ideas Conference** (NAYS-EIC), held on January 07, 2012 at University of the Punjab, Lahore, Pakistan
- Life Member of Pakistan Institute of Physics (**PIP**)
- Life Member of National Academy of Young Scientists (**NAYS**)
- Member of Materials Science Society of Pakistan (**MSSP**)

References

References will be furnished on demand.