Usman Liaqat

Associate Professor

School of Chemical & Materials Engineering

Email: usman.liaqat@scme.nust.edu.pk

Contact: 0515738511

LinkedIn: https://www.linkedin.com/in/usmanliaqat/



About

Dr. Usman Liaqat is working as Associate Professor in the School of Chemical & Materials Engineering. Dr. Usman Liaqat has a PhD in Biomaterials. Dr. Usman Liaqat has published 51 research articles & conference papers having a citation count of 742, carried out 15 projects and filed 1 intellectual property.

Qualifications

PhD in Biomaterials	2012 - 2017
Yonsei University , Korea	
BS in Metallurgy And Materials Science	2005 - 2009
University of the Punjab , Pakistan	
Experience	
Associate Professor	2023- Present
School of Chemical & Materials Engineering	
Assistant Professor	2020 - 2023
School of Chemical & Materials Engineering	

School of Chemical & Materials Engineering

2017 - 2017

School of Chemical & Materials Engineering

R&D Officer 2009 - 2012

Jawwad & Waqqas Pvt. Ltd., 175 - S Quaid-i-Azam Industrial Estate Kotlakhpat, Township, Lahore, Pakistan

Awards

Assistant Professor

Assistant Professor

Professional Memberships

TMS	Since 2019
PEC	Since 2017
ASM	Since 2019
AIST	Since 2019
ACERS	Since 2019

Research Projects

National Projects

4th ASEAN-Pakistan Conference on Materials Science (APCoMS 2025)

Funding Agency: ASEAN Pakistan Collaboration Fund

Amount: PKR 24,780,568.00 Status: Approved_inprocess

Technology Development for Local Fabrication of Effective Hemodialysis Membranes

Funding Agency: Higher Education Commission of Pakistan

Amount: PKR 12,051,000.00 **Status:** Approved_inprocess

2025

2017 - 2020

2025

Two-Dimensional Transition Metal-Boride (MBenes) for Electrochemical Sensing of Hepcidin: A Biomarker of Iron-Related Disorders—An Experimental and DFT Study Funding Agency: Pakistan Academy of Sciences	2025
Amount: PKR 4,000,000.00	
Status: Approved_inprocess	
Mobility Project under Erasmus+ KA171 with Bursa Technical University	2025
Funding Agency: Erasmus	
Amount: PKR N/A	
Status: Approved_inprocess	
Establishment of Centre of Research in Surface Engineering (CoRiSE), NUST, Islamabad	2024
Funding Agency: Ministry of Science and Technology	
Amount: PKR 1,271,219,000.00	
Status: Approved_inprocess	
Multi-wall CNTs Composites for High Strength composites (Vessels)	2023
Funding Agency: NESCOM	
Amount: PKR 580,000.00	
Status: Approved_inprocess	
Development of bioelectrochemical system platform for rapid metabolic monitoring of bacteria for industrial applications	
Funding Agency: Pakistan Science Foundation	
Amount: PKR 6,950,000.00	
Status: Approved_inprocess	
Technology Development for Effective Fabrication and Reuse of hemodialysis Membranes	
Funding Agency: HEC-industry	
Amount: PKR 13,440,000.00	
Status: Approved_inprocess	
Enhancing export potential of locally developed implants by designing and developing hybrid coated micro porous titanium based implant materials capable of reducing/overcoming stress shielding and aseptic loosening in orthopedic implants Funding Agency: PSF	2022
Amount: PKR 13,596,000.00	
Status: Completed	
Fabrication of Glucose Sensor Based on Metal Organic Frameworks Interconnected by CNTs and	2021
Decorated with Metallic Nanoparticles	
Funding Agency: Pakistan Academy of Sciences	
Amount: PKR 3,000,000.00	
Status: Completed	
Development of MOF based electrochemical sensor for the detection of pre-diabetes biomarker	2022
Funding Agency: PSF	
Amount: PKR 3,510,000.00	
Status: Approved_inprocess	
Antibacterial Coating on Polymeric Hospital Utilities Using Silver (Ag) Nanoparticles Coatings	2021
Funding Agency: NESCOM	
Amount: PKR 150,000.00	
Status: Completed	
Biodegradable Metallic Materials Strengthened Poly-Lactic Acid (PLA) Composites through Interfacial	2018
Properties for Osteosynthesis Implantation	
Funding Agency: HEC	
Amount: PKR 492,000.00	
Status: Completed	
Surface modification of polymer surface by laser ablation for culture of mammalian cells.	2017
Funding Agency: HEC	
Amount: PKR 495,000.00 Status: Completed	
International Projects	

Industry Projects

National Projects

Testing Thermal Efficiency of Gas Storage Water Geyser

Client: Hotwell industries	
Amount: PKR 50,000.00	
Status: Completed	
International Projects	
Research Articles	
Rapid elemental imaging of copper-bearing critical ores using laser-induced breakdown spectroscopy	2026
coupled with PCA and PLS-DA Amir Forwar Muhammad Wagas Haroon Acabar Pizwan Ahmad Haman Liggat Kashif Nassam Muhammad Aslam Paig	
Amir Fayyaz Muhammad Waqas Haroon Asghar Rizwan Ahmed Usman Liaqat Kashif Naseem Muhammad Aslam Baig Talanta , Volume:296, Article Number 128463	
Impact Factor: 6.100 Quartile: 1	
DOI: https://doi.org/10.1016/j.talanta.2025.128463	
Enhanced drug-loading potential through silver and strontium doping in iron oxide nanoparticles for	2025
drug delivery applications Syeda Sana Ali Naqvi Waheed Miran Iftikhar Hussain Gul Zakir Hussain Aneela Javed Usman Liagat	
Journal of Materials Research, Volume:40, Issue:13, Page:2016-2025	
Impact Factor: 2.900 Quartile: 3	
DOI: https://doi.org/10.1557/s43578-025-01632-5	
Chiralization of sine evide menomenticles on the in vitue and in vitre mentameness of networks	2025
Study of shape of zinc oxide nanoparticles on the in-vitro and in-vivo performance of polymeric hydrogels for wound dressing	2020
Hizbullah Malik Fatima Amir Zaib Jahan Usman Liaqat Saadia Andleeb Sulalit Bandyopadhyay Muhammad Bilal Khan Niazi	
International Journal of Pharmaceutics, Volume:674, Article Number 125482	
Impact Factor: 5.200 Quartile: 1 Citations: 1	
DOI: https://doi.org/10.1016/j.ijpharm.2025.125482	
Impact of polypyrrole/MXene modified anode on bioelectricity generation in microbial fuel cells	2025
Fareeha Batool Waheed Miran Marghoob Ahmed Syed Rizwan Hussain Osama Naeem Hamza Zaheer Usman Liaqat	
Journal of Applied Electrochemistry, Pages 1-11	
Impact Factor: 2.400 Quartile: 3	
DOI: 10.1007/s10800-025-02275-4	
Analytical Techniques for Detecting Rare Earth Elements in Geological Ores: Laser-Induced	2024
Breakdown Spectroscopy (LIBS), MFA-LIBS, Thermal LIBS, Laser Ablation Time-of-Flight Mass	
Spectrometry, Energy-Dispersive X-ray Spectroscopy, Energy-Dispersive X-ray Fluorescence	
Spectrometer, and Inductively Coupled Plasma Optical Emission Spectroscopy Amir Fayyaz Muhammad Aslam Baig Muhammad Waqas Usman Liaqat	
Minerals , Volume 14(10), Article Number 1004	
Impact Factor: 2.200 Quartile: 2 Citations: 6	
DOI: https://doi.org/10.3390/min14101004	
BMSCs-laden mechanically reinforced bioactive sodium alginate composite hydrogel microspheres for	2024
minimally invasive bone repair	
Shengjie Jiang Hua Jing Yu Zhuang Jinjie Cui Zeyu Fu Dejian Li Cancan Zhao Usman Liaqat Kaili Lin	
Carbohydrate Polymers , Volume: 332, Article Number: 121933	
Impact Factor: 11.2 Quartile: 1 Citations: 33	
DOI: 10.1016/j.carbpol.2024.121933	
Fe-MOF as a novel saturable-absorber for pulse operation in erbium-doped fiber lasers	2024
Hafsa Hameed Haroon Asghar Usman Liaqat Muhammad Sohail Rizwan Ahmed Zeshan Adeel Umer Muhammad Aslam Baig	
Optical Fiber Technology, Volume:84, Article Number:103771	
Impact Factor: 2.7 Quartile: 2 Citations: 14 DOI: 10.1016/j.yofte.2024.103771	
An electrochemical sensor based on copper oxide nanoparticles loaded on a mesoporous MCM-41 for	2024
non-enzymatic detection of glucose	
Zohaa Dooa Arif Muneeb Hassan Muhammad Abdullah Waheed Miran Muhammad Ahsan Nasir Sadaf Batool Muhammad Aslam Baig Usman Liaqat	
Ceramics International, Volume: 50, Issue: 7, Part B, Pages: 12614-12620	

2024

DOI: 10.1016/j.ceramint.2024.01.171	
Whitlockite -A study on the effect of reaction parameters on morphology in one-solvent system. Anum Ayub Usman Liaqat Zakir Hussain Waheed Miran	2024
Materials Chemistry and Physics, Volume 314, Article Number: 128932	
Impact Factor: 4.6 Quartile: 2 Citations: 1	
DOI: 10.1016/j.matchemphys.2024.128932	
Preparation and physicochemical characterization of whitlockite/ PVA/Gelatin composite for bone tissue regeneration	2024
Sadaf Batool Usman Liaqat Zakir Hussain	
Frontiers in Chemistry, Volume 12	
Impact Factor: 5.5 Quartile: 2 Citations: 5 DOI: DOI: 10.3389/fchem.2024.1355545	
	0000
Promoting vascularized bone regeneration via strontium-incorporated hydroxyapatite bioceramic Usman Liaqat Yu Zhuang Angi Liu Shengjie Jiang Kaili Lin Wenjun Sun Changyong Yuan	2023
Materials & Design, Volume 234, Article Number 112313	
Impact Factor: 8.4 Quartile: 1 Citations: 42	
DOI: https://doi.org/10.1016/j.matdes.2023.112313	
The effect of pH on the morphological transformation of nanocrystalline hydroxyapatite during wet	2023
chemical synthesis	2023
Anum Ayub Awan Usman Liaqat Zakir Hussain	
Journal of Korean Ceramic Society, Pages 1-18	
Impact Factor: 2.5 Quartile: 1 Citations: 2	
DOI: https://doi.org/10.1007/s43207-023-00324-2	
Multiwalled CNTs/copper sulfide hybrids embedded in polyaniline thin films for near-infrared (NIR)	2023
photo detecting applications	
Ramsha Zia Muhammad Talha Masood Zakir Hussain Usman Liagat Safina Iram Javed Sajid Hussain Zeeshan Adeel Umar	
Journal of Materials Science: Materials in Electronics, Volume 34, Issue 22, Volume 34, Article Number 1622	
Impact Factor: 2.8 Quartile: 2 DOI: doi.org/10.1007/s10854-023-11035-z	
Novel cytotoxicity study of strontium (Sr) doped iron oxide (Fe3O4) nanoparticles aided with ibuprofen	2023
for drug delivery applications	
Imad Ud Din Irum Shahid Khan Iftikhar Hussain Gul Zakir Hussain Waheed Miran Farhan Javaid Usman Liaqat Naunyn-Schmiedeberg's Archives of Pharmacology, Pages 1-17	
Impact Factor: 3.6 Quartile: 2 Citations: 7	
DOI: https://doi.org/10.1007/s00210-023-02582-7	
Enhanced visible and IR light-sensing performance of photoconductive VO2 (M1) nanorods thin film	2023
Zeshan Adeel Umer Rizwan Ahmed Umer Farooq Haroon Asghar Usman Liaqat Muhammad Aslam Baig	2020
Photonics and Nanostructures - Fundamentals and Applications, Volume 55, Article Number 101149	
Impact Factor: 3.064 Quartile: 2 Citations: 2	
DOI: https://doi.org/10.1016/j.photonics.2023.101149	
Analysis of Rare Earth Ores Using Laser-Induced Breakdown Spectroscopy and Laser Ablation Time-	2023
of-Flight Mass Spectrometry	
Amir Fayyaz Raheel Ali Muhammad Waqas Usman Liaqat Rizwan Ahmed Zeshan Adeel Umer Muhammad Aslam Baig	
Minerals , Volume 13, Issue 6, Article Number 787	
Impact Factor: 2.5 Quartile: 2 Citations: 13	
DOI: https://doi.org/10.3390/min13060787	
Vanillin cross-linked hydrogel membranes interfacial reinforced by carbon nitride nanosheets for	2023
enhanced antibacterial activity and mechanical properties	
Umer Shahzad malik Qixiang Duan Muhammad Bilal Khan Niazi Zaib Jahan Usman Liaqat Farqooq Sher Yanchang Gan Honghao Hou	
Chinese Chemical Letters , Volume 34, Issue 4, ID:108071	
Impact Factor: 8.455 Quartile: 1 Citations: 24 DOI: https://doi.org/10.1016/j.cclet.2022.108071	
A Comparative Study of Gelatin/HPMC/HA and Gel/HPMC/TCP Nanocomposites for Bone Tissue Regeneration	2023

Impact Factor: 5.2 | Quartile: 1 | Citations: 19

Muhammad Bilal Sadaf Batool Zakir Hussain Muhammad Bilal Khan Niazi Usman Liaqat Journal of Polymers and the Environment, Pages 1-12	
Impact Factor: 4.705 Quartile: 1 Citations: 4	
DOI: https://doi.org/10.1007/s10924-023-02823-z	
A Novel Method For The Production Of Titanium Foams To Reduce Stress Shielding In Implants	2023
KHURRAM YAQOOB Izza Amjad Muhammad Awais Munir Awan Muhammad Zahoor Usman Liaqat Muhammad Kashif	
ACS Omega , Volume 8, Issue 2, Pages 1876-1884	
Impact Factor: 4.132 Quartile: 2 Citations: 15 DOI: https://doi.org/10.1021/acsomega.2c02340	
Combination of laser-induced breakdown spectroscopy, and time-of-flight mass spectrometry for the	2022
quantification of CoCrFeNiMo high entropy alloys	
Usman Liaqat KHURRAM YAQOOB Amir Fayyaz Rizwan Ahmed Zeshan A. Umar M. Aslam Baig	
Spectrochimica Acta - Part B Atomic Spectroscopy,, Volume 198, Article Number 106562	
Impact Factor: 3.662 Quartile: 1 Citations: 14	
DOI: https://doi.org/10.1016/j.sab.2022.106562	
VO2 thin film based highly responsive and fast VIS/IR photodetector	2022
Usman Liaqat Z.A. Umar R. Ahmed H. Asghar A. Fayyaz M.A. Baig	
Materials Chemistry and Physics, Volume 290, Article Number 126655	
Impact Factor: 4.6 Quartile: 2 Citations: 16 DOI: https://doi.org/10.1016/j.matchemphys.2022.126655	
	2022
Near room temperature, SMT and visible photo-response in pulsed laser deposited VO2 (M1) thin films	2022
Usman Liaqat Nasar Ahmed Rashad Mahmood Zeshan Adeel Umer Muhammad Anwar ul Haq Rizwan Ahmed Pervaiz Ahmad Syed Raza Ali Raza	
Muhammad Aslam Baig	
Physica B: Condensed Matter, Volume 635, Article Number 413841	
Impact Factor: 2.436 Quartile: 3 Citations: 10 DOI: https://doi.org/10.1016/j.physb.2022.413841	
Solid-state synthesis and process optimization of bone whitlockite	2022
Sadaf Batool Zakir Hussain Usman Liaqat Manzar Sohail	
Ceramics International, Article in Press	
Impact Factor: 5.2 Quartile: 1 Citations: 8 DOI: https://doi.org/10.1016/j.ceramint.2022.01.267	
The role of nanoparticles concentration in the emission intensity enhancement of the laser-produced	2022
aluminum plasma.	
Usman Liaqat S. Jamil N. Ahmed R. Ahmed Z.A. Umar M.A. Baig Physica B: Condensed Matter, Volume 627, Article Number 413620	
Impact Factor: 2.436 Quartile: 3 Citations: 7	
DOI: https://doi.org/10.1016/j.physb.2021.413620	
Synthesis and Investigation of Electrical Properties of Strontium Metal-Doped Hexaferrite Nanoparticles	2022
Hina Waris Usman Liaqat Iftikhar Hussain Gul Muhammad Irfan	
Journal of Superconductivity and Novel Magnetism, Volume 35, Pages 235-241	
Impact Factor: 1.8 Quartile: 4	
DOI: https://doi.org/10.1007/s10948-021-06051-1	
Determination of Micronutrients and Toxic Elements in Moringa Oleifera Leaves by Calibration Free	2021
Laser-Induced Breakdown Spectroscopy (LIBS)	
Usman Liaqat Zeshan Adeel Umar Rizwan Ahmed Rinda Hedwig M. Ramli M. A. Marpaung K. H. Kurniawan M. Pardede Muhammad Aslam Baig Analytical Letters, Pages 1-15	
Impact Factor: 2.267 Quartile: 3 Citations: 15	
DOI: https://doi.org/10.1080/00032719.2021.1966794	
Studying the effect of nHAP on the mechanical and surface properties of PBS matrix	2021
Mamoon Asif Usman Liaqat Zakir Hussain Muzamil Ahmad Khan Muhammad Arman Liaqat Hasan Ahmed Mussayib Quddusi	
Journal of Polymer Research, Volume 28, Article Number: 349	
Impact Factor: 3.061 Quartile: 2 Citations: 8	

DOI: https://doi.org/10.1007/s10965-021-02711-x

Preparation of porous ZIF-67 network interconnected by MWCNTs and decorated with Ag nanoparticles 2021 for improved non-enzymatic electrochemical glucose sensing. Elizbit Usman Liaqat Zakir Hussain Mutawara Mahmood Baig Muzamil Ahmad Khan Dooa Arif Journal of the Korean Ceramic Society, Pages 1-8 Impact Factor: 2.506 | Quartile: 3 | Citations: 33 DOI: https://doi.org/10.1007/s43207-021-00132-6 Liquid crystal based binding assay for detecting HIV-1 surface glycoprotein 2021 Usman Liagat Amna Didar Abbasi Dooa Arif Zakir Hussain Kun-Lin Yang Frontiers in Chemistry, Volume 9, Article Number 668870 Impact Factor: 5.545 | Quartile: 2 | Citations: 11 DOI: https://doi.org/10.3389/fchem.2021.668870 Bone whitlockite: synthesis, applications, and future prospects 2021 Usman Liagat Sadaf Batool Bushra Babar Zakir Hussain Journal of the Korean Ceramic Society, Pages 1-18 Impact Factor: 2.506 | Quartile: 2 | Citations: 23 DOI: https://doi.org/10.1007/s43207-021-00120-w Detection of lead in soil implying sample heating and laser-induced breakdown spectroscopy 2021 Zeshan Adeel Umar Usman Liaqat Rizwan Ahmed Muhammad Aslam Baig Rizwan Ahmed Muhammad Aslam Baig Applied Optics, Volume 60(2), Pages 452-458 Impact Factor: 1.905 | Quartile: 3 | Citations: 17 DOI: https://doi.org/10.1364/AO.404672 Enhanced Mechanical Properties of Functionalized BN nanosheets-Polymer Composites 2020 M. Umer Farooq Rahim Jan Muhammad Azeem M. Adeel Umer Usman Liaqat Muhammad Aftab Akram Ahmad Nawaz Khan Imtiaz Ahmad Sajjad A. Khan Zeshan A. Umar Journal of Polymer Research, Volume 27, Article Number 310 Impact Factor: 3.097 | Quartile: 2 | Citations: 18 **DOI:** 10.1007/s10965-020-02286-z 2020 Synthesis, Characterization and Process Optimization of Bone Whitlockite Manzar Sohail Sadaf Batool Usman Liagat Sadaf Batool Zakir Hussain Nanomaterials, Volume 10(9), Article Number 1856 Impact Factor: 5.076 | Quartile: 1 | Citations: 27 DOI: https://doi.org/10.3390/nano10091856 Preparation of PBS/PLLA/HAP Composites by the Solution Casting Method: Mechanical Properties and 2020 **Biocompatibility** Usman Liaqat Zakir Hussain Muzamil Ahmad Khan Muhammad Arman Liaqat Muhammad Zahoor Nanomaterials, Volume 10(9), Article Number 1778 Impact Factor: 5.076 | Quartile: 2 | Citations: 16 DOI: https://doi.org/10.3390/nano10091778 Comparative Study of the Emission Enhancement Due to Target Heating and Laser Energy on the 2020 Laser-Produced Copper-Zinc Alloy Plasma Usman Liaqat Zeshan Adeel Umar Rizwan Ahmed Muhammad Aslam Baig Analytical Letters, Volume 53, Issue 17, Pages 1-16 Impact Factor: 2.329 | Quartile: 3 | Citations: 7 DOI: https://doi.org/10.1080/00032719.2020.1799385 Detection of toxicity in some oral antidiabetic drugs using LIBS and LA-TOF-MS 2020 Usman Liaqat Nasar Ahmed M. Rafique M. Aslam Baig Walid Tawfik Microchemical Journal, Volume 155, Article Number 104679 Impact Factor: 4.821 | Quartile: 1 | Citations: 24 DOI: https://doi.org/10.1016/j.microc.2020.104679 2019 Laser-induced plasma-assisted ablation (LIPAA) of glass: Effects of the laser fluence on plasma parameters and crater morphology T.U. Rahman Z.U. Rehman S. Ullah H. Qayyum B. Shafique R. Ali U. Liaqat A.H. Dogar A. Qayyum Journal of Optics and Laser Technology, Volume 120, 105768 Impact Factor: 3.233 | Quartile: 1 | Citations: 43 DOI: 10.1016/j.optlastec.2019.105768

Classification of Nephrite Using Calibration-Free Laser Induced Breakdown Spectroscopy (CF-LIBS) 2019 with Comparison to Laser Ablation-Time-of-Flight-Mass Spectrometry (LA-TOF-MS) Usman Liaqat Zeshan Adeel Umar Rizwan Ahmed Muhammad Aslam Baig Analytical Letters, -Impact Factor: 1.467 | Quartile: 3 | Citations: 12 DOI: 10.1080/00032719.2019.1643359 Elemental Analysis of Cement by Calibration-Free Laser Induced Breakdown Spectroscopy (CF-LIBS) 2019 and Comparison with Laser Ablation? Time-of-Flight? Mass Spectrometry (LA-TOF-MS), Energy Dispersive X-Ray Spectrometry (EDX), X-Ray Fluorescence Spectroscopy (XRF), and Proton Induced X-Ray Emission Spectrometry (PIXE). Amir Fayyaz Usman Liagat Zeshan Adeel Umar Rizwan Ahmed Muhammad Aslam Baig Analytical Letters, Volume 52, Issue 12, Pages 1951-1965 Impact Factor: 1.467 | Quartile: 3 | Citations: 27 DOI: 10.1080/00032719.2019.1586914 Preparation and Investigation of Ag Nanoparticles/TOPAS Nanocomposie Films for Packaging 2018 **Applications** Hareem Zainab Zakir Hussain Ahmad Nawaz Khan Usman Liagat Muhammad Bilal Khan Niazi Tahir Ahmed Baig Current Nanoscience, Volume 14, Issue 6, Pages 538-544 Impact Factor: 1.586 | Quartile: 3 | Citations: 1 DOI: 10.2174/1573413714666180717114523 Qualitative and quantitative analyses of copper ores collected from Baluchistan, Pakistan using LIBS 2018 and LA-TOF-MS Nasar Ahmad Rizwan Ahmed Zeshan A. Umar1 Usman Liaqat Umair Manzoor M. Aslam Baig Applied Physics B: Lasers and Optics, Volume 124, Article Number 160 Impact Factor: 1.769 | Quartile: 3 | Citations: 29 DOI: 10.1007/s00340-018-7032-8 Elemental composition analysis of granite rocks using LIBS and LA-TOF-MS. 2018 ZESHAN ADEEL UMAR NASAR AHMED RIZWAN AHMED USMAN LIAQAT MUHAMMAD ASLAM BAIG Applied Optics, NULL Impact Factor: 1.973 | Quartile: 2 DOI: https://www.ncbi.nlm.nih.gov/pubmed/30117955 UV-irradiated parylene surfaces for proliferation and differentiation of PC-12 cells 2017 Usman Liagat Hwal Suh Misu Lee Hyuk Ko Jae-Chul Pyun Enzyme and Microbial Technology, Volume 97, Pages 1-10 Impact Factor: 2.932 | Quartile: 2 | Citations: 11 DOI: 10.1016/j.enzmictec.2016.10.016 2016 Surface modification of parylene-N films for the culture of osteoblast-like cells (MG-63) Usman Liaqat Hyuk Ko Misu Lee Hwal Suh Jae-Chul Pyun Applied Surface Science, Volume 378, Pages 277-285 Impact Factor: 3.387 | Quartile: 1 | Citations: 13 DOI: 10.1016/j.apsusc.2016.03.218 **Conference Proceedings** Synthesis of Parylene Thin Film by Pulsed Laser Deposition (PLD). 2018 10th International Scientific School – 2018 (ISS-2018), res.country(177,) Citations: N/A

DOI: No DOI available

Book Chapters

Antibacterial Properties of Two-Dimensional Nanomaterials	2023
Elishba Noor Usman Liaqat Waqas Qamar Zaman Sabir Hussain Asif Shahzad Kashif Rasool Zaeem Bin Babar Waheed Miran	
In: Book on Two-Dimensional Materials for Environmental Applications, 1st Edition, Chapter 5, Pages 137-160	
Citations: 3	
DOI : 10.1007/978-3-031-28756-5_5	
In Vitro and In Vivo Studies of Bioactive Glasses	2022
Sadaf Batool Zakir Hussain Usman Liaqat	
In: Book on Bioactive Glasses and Glass-Ceramics: Fundamentals and Applications, Chapter 17, Pages 397-429	
Citations: 5 DOI: 10.1002/9781119724193	
Editorial Activities	
Molecules	2023
Reviewed Papers for Journals	
Impact Factor: 4.6	
Journal of Functional Biomaterials	2023
Reviewed Papers for Journals	
Impact Factor: 4.901	
	2020
Reviewed Papers for Journals	
	2020
Reviewed Papers for Journals	
	2020
Reviewed Papers for Journals	2020
	2020
Reviewed Papers for Journals	
Impact Factor: 2.309	
	2020
Reviewed Papers for Journals	
Impact Factor: 2.309	
	2020
Reviewed Papers for Journals Impact Factor: 1.85	
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Reviewed Papers for Journals	2018
Impact Factor: 1.4	
Reviewed Papers for Journals	2018
Tionional Laporo for addition	
Pavioused Papara for Journals	2018
Reviewed Papers for Journals	
	2018
Reviewed Papers for Journals Impact Factor: 1.039	
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Designated Process for January In	2017
Reviewed Papers for Journals	
Impact Factor: 1.4	

Intellectual Property

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Patents

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