

KHURRAM YAQOOB

Professor

School of Chemical & Materials Engineering

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About

Dr. KHURRAM YAQOOB is working as Professor in the School of Chemical & Materials Engineering. Dr. KHURRAM YAQOOB has a PhD in Materials Science. Dr. KHURRAM YAQOOB has published 46 research articles & conference papers having a citation count of 956, carried out 7 projects and filed 0 intellectual property.

Qualifications

PhD in Materials Science Université Val-de-Marne (Paris XII) , France	2009 - 2012
MS in Materials Science Université Paul Sabatier (Toulouse III) , France	2008 - 2009
BE in Metallurgical And Materials Engineering UET Lahore , Pakistan	2003 - 2007

Experience

Professor School of Chemical & Materials Engineering	2024- Present
Associate Professor School of Chemical & Materials Engineering	2019 - 2019
Assistant Professor School of Chemical & Materials Engineering	2013 - 2013
Assistant Professor School of Chemical & Materials Engineering	2013 - 2019

Awards

Best Researcher of SCME Best Researcher of SCME for the year 2017-2018	2018
Best oral presentation - Best oral presentation award on the 2016 Fall KIM+ conference in Busan, South Korea	2016
Best poster presentation - Best poster presentation award on the 2016 Fall KIM+ conference in Busan, South Korea	2016
Best poster presentation - Best poster presentation award on the 2016 ISMANAM conference in Nara, Japan	2016
Best oral presentation - Best oral presentation award on the 2016 spring KIM+ conference at Gyeongju, South Korea	2016

Professional Memberships

PEC

Research Projects

National Projects

4th ASEAN-Pakistan Conference on Materials Science (APCoMS 2025)	2025
Funding Agency: ASEAN Pakistan Collaboration Fund	
Amount: PKR 24,780,568.00	
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	
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	2022
Funding Agency: PSF	
Amount: PKR 13,596,000.00	
Status: Completed	
Development of TiB2 Cu, Ni composites	2020
Funding Agency: NESCOM	
Amount: PKR 400,000.00	
Status: Completed	
Development of TiB2 (Cu, Ni) Composite	2019
Funding Agency: NESCOM	
Amount: PKR 400,000.00	
Status: Completed	
Development and characterization of high entropy foams for structural applications	2017
Funding Agency: HEC	
Amount: PKR 14,000,000.00	
Status: Completed	
Indigenous fabrication of Al2O3 Ceramic Tiles for Ballistic Armour	2018
Funding Agency: HEC	
Amount: PKR 13,410,000.00	
Status: Completed	

International Projects

Research Articles

Semi-coherent and coherent nanoprecipitation induced superior strength-ductility combination in additively manufactured CoCrMoW alloy	2026
Canjuan Xiao Weijin Cai Ruidi Li Song Ni Wenting Jiang Zhangwei Wang KHURRAM YAQOOB Zibin Chen Yi Huang Min Song	
Journal of Materials Science & Technology, Volume:242, Pages 1-14	
Impact Factor: 14.3000 Quartile: 1	
DOI: https://doi.org/10.1016/j.jmst.2025.02.100	
Nitrogen alloyed MoSe2 coatings – Role of optimized morphology, structure and mechanical properties on diverse environment sliding performance	2025
Talha Bin Yaqub Irfan Nadeem Filipe Fernandes KHURRAM YAQOOB Mitjan Kalin Albano Cavaleiro	
Tribology International, Volume 209, Article Number 110716	
Impact Factor: 6.900 Quartile: 1	
DOI: https://doi.org/10.1016/j.triboint.2025.110716	
Thermal Stability and Strengthening Effect of Coherent Precipitates in a (FeCoNi)92Al2.5Ti5.5 High Entropy Alloy	2024
Yuqi Liu Feng Wang Songyang Chen Hul Wang Zhiping Xiong Khurram Yaqoob Zhangwei Wang Min Song	
Acta Metallurgica Sinica (English Letters), Pages 1-10	
Impact Factor: 2.900 Quartile: 2 Citations: 4	
DOI: https://doi.org/10.1007/s40195-024-01727-8	

Design and development of porous CoCrFeNiMn high entropy alloy (Cantor alloy) with outstanding electrochemical properties <i>Talha Abid M. Aftab Akram Talha Bin Yaqub M. Ramzan Abdul Karim Filipe Fernandes Muhammad Farooq Zafar Khurram Yaqoob</i> <i>Journal of Alloys and Compounds</i> , Volume 970, Article Number 172633 Impact Factor: 6.2 Quartile: 1 Citations: 16 DOI: https://doi.org/10.1016/j.jallcom.2023.172633	2024
Design and development of NbTiVZr porous high entropy alloys for energy applications <i>Talha Abid Muhammad Aftab Akram Talha Bin Yaqub M. Ramzan Abdul Karim Filipe Fernandes Rizwan Khan KHURRAM YAQOOB Ayesha Siddique</i> <i>Journal of Energy Storage</i> , Volume 73, Part C, Article Number 109131 Impact Factor: 9.4 Quartile: 1 Citations: 5 DOI: https://doi.org/10.1016/j.est.2023.109131	2023
Development of eutectic high entropy alloy by addition of W to CoCrFeNi HEA <i>M. Abdullah M. Mukarram Talha bin Yaqub Filipe Fernandes KHURRAM YAQOOB</i> <i>International Journal of Refractory Metals and Hard Materials</i> , Volume 115, Article Number: 106300 Impact Factor: 4.804 Quartile: 1 Citations: 21 DOI: 10.1016/j.jirmhm.2023.106300	2023
Ultrasounds-assisted solvothermal synthesis of Ni-Co-Mn MOFs/PANI-CNTs nanocomposites with enhanced electrochemical energy storage performance <i>Wajahat Khalid Muhammad Ramzan Abdul Karim Muhammad Atif Waseem Shehzad Mohsin Ali Marwat KHURRAM YAQOOB</i> <i>Energy and Environment</i> , Pages 1-16 Impact Factor: 4.2 Quartile: 2 Citations: 5 DOI: https://doi.org/10.1177/0958305X231196126	2023
Chemically Activated Carbon Synthesized from Rice Husk for Adsorption of Methylene Blue in Polluted Water <i>Arshad Hussain Wazir Inam Ullah khurram yaqoob</i> <i>Environmental Engineering Science</i> , Volume:40, Issue:8, Page:307-317 Impact Factor: 1.8 Quartile: 4 Citations: 11 DOI: 10.1089/ees.2022.0373	2023
Characterization of chemical short-range order in VCoNi medium-entropy alloy processed by spark plasma sintering <i>Weijin Cai Junyang He Li Wang Wenchao Yang Xiangqi Xu KHURRAM YAQOOB Zhangwei Wang Min Song</i> <i>Scripta Materialia</i> , Volume 231, Article Number 115463 Impact Factor: 6.302 Quartile: 1 Citations: 24 DOI: https://doi.org/10.1016/j.scriptamat.2023.115463	2023
Development and characterization of boride-reinforced CoCrFeNi composites <i>M. Adil Mehmood Muhammad Mujahid Andy Godfrey Muhammad Farooq Zafar KHURRAM YAQOOB</i> <i>Journal of Alloys and Compounds</i> , Volume 947, Article Number 169535 Impact Factor: 6.371 Quartile: 1 Citations: 12 DOI: https://doi.org/10.1016/j.jallcom.2023.169535	2023
Superior strength–ductility combination in Al alloys via dislocation gradient structure <i>Feng Wang Yue Li Xinren Chen HuanZhao KHURRAM YAQOOB Yong Du Zhangwei Wang Min Song</i> <i>Materials Research Letters</i> , Volume 11, No. 5, Pages 347-353 Impact Factor: 8.516 Quartile: 1 Citations: 21 DOI: https://doi.org/10.1080/21663831.2022.2151851	2023
Microstructure and mechanical properties of hot isostatic pressed tungsten heavy alloy with FeNiCoCrMn high entropy alloy binder <i>Zahid Anwer Malik Adeel Umer Fatima Nisar Muhammad Arslan Hafeez KHURRAM YAQOOB Xian Luo Iftikhar Ahmad</i> <i>Journal of Materials Research and Technology</i> , Volume 22, Pages 2897-2909 Impact Factor: 6.267 Quartile: 1 Citations: 28 DOI: https://doi.org/10.1016/j.jmrt.2022.12.078	2023
A Novel Method For The Production Of Titanium Foams To Reduce Stress Shielding In Implants <i>KHURRAM YAQOOB Izza Amjad Muhammad Awais Munir Awan Muhammad Zahoor Usman Liaqat Muhammad Kashif</i> <i>ACS Omega</i> , Volume 8, Issue 2, Pages 1876-1884 Impact Factor: 4.132 Quartile: 2 Citations: 15 DOI: https://doi.org/10.1021/acsomega.2c02340	2023

Ceramic-reinforced HEA matrix composites exhibiting an excellent combination of mechanical properties <i>M. Adil Mehmood Khurram Shehzad Muhammad Mujahid Talha bin Yaqub Andy Godfrey Filipe Fernandes F. Z. Muhammad KHURRAM YAQOOB</i> <i>Scientific Reports</i> , Volume 12, Article Number 21486 Impact Factor: 4.996 Quartile: 2 Citations: 15 DOI: https://doi.org/10.1038/s41598-022-25734-w	2022
Impact Energy Absorption Analysis of Shape Memory Hybrid Composites <i>Huma Ozair Muhammad Atiq Ur Rehman Abrar H. Baluch KHURRAM YAQOOB Ibrahim Qazi Abdul Wadood</i> <i>Journal of Composites Science</i> , Volume 6(12), Article Number 365 Impact Factor: N/A Citations: 1 DOI: doi.org/10.3390/jcs6120365	2022
Combination of laser-induced breakdown spectroscopy, and time-of-flight mass spectrometry for the quantification of CoCrFeNiMo high entropy alloys <i>Usman Liaqat KHURRAM YAQOOB Amir Fayyaz Rizwan Ahmed Zeshan A. Umar M. Aslam Baig</i> <i>Spectrochimica Acta - Part B Atomic Spectroscopy</i> , Volume 198, Article Number 106562 Impact Factor: 3.662 Quartile: 1 Citations: 14 DOI: https://doi.org/10.1016/j.sab.2022.106562	2022
Vacuum Tribological Properties of W-S-N Coatings Synthesized by Direct Current Magnetron Sputtering <i>Talha Bin Yaqub KHURRAM YAQOOB Amir Mukhtar Filipe Fernandes Andrey Bondarev Fábio Ferreira Abbas AL-Rjoub Albano Cavaleiro</i> <i>Coatings</i> , Volume 12, Issue 11, Article Number 1646 Impact Factor: 3.236 Quartile: 2 Citations: 2 DOI: https://doi.org/10.3390/coatings12111646	2022
Failure analysis of cartridge brass shell <i>KHURRAM YAQOOB Fahim Hashmi Waqas Hassan</i> <i>Engineering Failure Analysis</i> , Volume 138, Article Number 106325 Impact Factor: 3.634 Quartile: 2 Citations: 9 DOI: https://doi.org/10.1016/j.engfailanal.2022.106325	2022
Microstructural evolution and mechanical characterization of a WC-reinforced CoCrFeNi HEA matrix composite <i>Syed Waqas Hussain M. Adil Mehmood M. Ramzan Abdul Karim Andy Godfrey KHURRAM YAQOOB</i> <i>Scientific Reports</i> , Volume 12, Issue 1, Article Number 9822 Impact Factor: 4.996 Quartile: 2 Citations: 23 DOI: https://doi.org/10.1038/s41598-022-13649-5	2022
Effect of Annealing Heat Treatment on the Composition, Morphology, Structure and Mechanical Properties of the W-S-N Coatings <i>Talha Bin Yaqub Abbas Al-Rjoub Hafiza Ayesha Khalid KHURRAM YAQOOB Filipe Fernandes Albano Cavaleiro</i> <i>Materials</i> , Volume 15, Issue 12, Article number 4088 Impact Factor: 3.748 Quartile: 1 Citations: 1 DOI: https://doi.org/10.3390/ma15124088	2022
Solvothermal Synthesis of Flower-Flakes Like Nano Composites of Ni-Co Metal Organic Frameworks and Graphene Nanoplatelets for Energy Storage Applications <i>Muhammad Ramzan Abdul Karim Muhammad Noman Khurram Imran Khan Waseem Shehzad Ehsan Ul Haq Nadia Shahzad KHURRAM YAQOOB</i> <i>ECS Journal of Solid State Science and Technology</i> , Volume 11, Number 1, Article Number 011001 Impact Factor: 2.070 Quartile: 3 Citations: 22 DOI: 10.1149/2162-8777/ac44f8	2022
Removal of levofloxacin from aqueous solution by green synthesized magnetite (Fe₃O₄) nanoparticles using Moringa olifera: Kinetics and reaction mechanism analysis <i>Sikandar Altaf Rabeea Zafar Waqas Qamar Zaman Shakil Ahmad KHURRAM YAQOOB Asad Syed Asim Jahangir Khan Muhammad Bilal Muhammad Arshad</i> <i>Ecotoxicology and Environmental Safety</i> , Volume 226, Article Number 112826 Impact Factor: 6.291 Quartile: 1 Citations: 82 DOI: 10.1016/j.ecoenv.2021.112826	2021
Systematic Development of Eutectic High Entropy Alloys by Thermodynamic Modeling and Experimentation: An Example of the CoCrFeNi-Mo System <i>Muhammad Mukarram M. Awais Munir Muhammad Mujahid KHURRAM YAQOOB</i>	2021

Metals , Volume 11, Issue 9, Article Number 1484

Impact Factor: 2.695 | **Quartile:** 2 | **Citations:** 16

DOI: doi.org/10.3390/met11091484

Superior performance of electrodeposited CoMnS as novel electrode material for supercapattery devices

2021

Syed Shabhi Haider Muhammad Zahir Iqbal Sana Zakar Amir Muhammad Afzal KHURRAM YAQOOB Sikandar Aftab

Journal of Energy Storage , Volume 39, Article Number 102608

Impact Factor: 6.583 | **Quartile:** 1 | **Citations:** 25

DOI: https://doi.org/10.1016/j.est.2021.102608

TiO₂ nanoparticles dose, application method and phosphorous levels influence genotoxicity in Rice (*Oryza sativa* L.), soil enzymatic activities and plant growth

2021

S. Phziya Tariq Waani Shagufta Irum Iram Gul KHURRAM YAQOOB Muhammad Usman Khalid Muhammad Arif Ali Umair Manzoor Tayyaba Noor Shafaqat Ali Muhammad Rizwan Muhammad Arshad

Ecotoxicology and Environmental Safety , Volume 213, Article Number 111977

Impact Factor: 6.291 | **Quartile:** 1 | **Citations:** 50

DOI: https://doi.org/10.1016/j.ecoenv.2021.111977

Design and development of CoCrFeNiTa eutectic high entropy alloys

2021

Muhammad Mukarram Mohammad Mujahid KHURRAM YAQOOB

Journal of Materials Research and Technology , Volume 10, Pages 1243-1249

Impact Factor: 5.039 | **Quartile:** 2 | **Citations:** 64

DOI: https://doi.org/10.1016/j.jmrt.2020.12.042

Lead phytoextraction by *Pelargonium hortorum*: Comparative assessment of EDTA and DIPA for Pb mobility and toxicity

2020

Muhammad Arshad Neelam Naqvi Iram Gul Khurram Yaqoob Muhammad Bilal Jean Kallerhoff

Science of the Total Environment , Volume 748, Article Number 141496

Impact Factor: 6.551 | **Quartile:** 1 | **Citations:** 54

DOI: 10.1016/j.scitotenv.2020.141496

Phosphoric Acid Activated Carbon from *Melia azedarach* Waste Sawdust for Adsorptive Removal of Reactive Orange 16: Equilibrium Modelling and Thermodynamic Analysis

2020

Jehanzeb Ali Shah Tayyab Ashfaq Butt Cyrus Raza Mirza Ahson Jabbar Shaikh Muhammad Saqib Khan Muhammad Arshad Nadia Riaz Hajira Haroon Syed Mubashar Hussain Gardazi KHURRAM YAQOOB Muhammad Bilal

Molecules , Volume 25(9), Article Number 2118

Impact Factor: 4.412 | **Quartile:** 2 | **Citations:** 28

DOI: 10.3390/molecules25092118

Binary composites of strontium oxide/polyaniline for high performance supercapattery devices

2020

Muhammad Zahir Iqbal Shahid Alam Amir Muhammad Afzal Muhammad Javaid Iqbal KHURRAM YAQOOB Muhammad Arshad Kamran Muhammad Ramzan Abdul Karim Thamer Alherbi

Solid State Ionics , Volume 347, Article Number 115276

Impact Factor: 3.785 | **Quartile:** 2 | **Citations:** 57

DOI: https://doi.org/10.1016/j.ssi.2020.115276

Novel Strategy for Synthesis of Al Powder Comprising of Al Nanoflakes Via Ultrasonication of Al Foil

2020

Mubeen Hanif KHURRAM YAQOOB Malik Adeel Umer Zakir Hussain

Ultrasonics Sonochemistry , Volume 61, Article Number 104838

Impact Factor: 7.491 | **Quartile:** 1 | **Citations:** 6

DOI: https://doi.org/10.1016/j.ultsonch.2019.104838

Effect of austempering conditions on the microstructure and mechanical properties of AISI 4340 and AISI 4140 steels

2019

Mian Muhammad Bilal KHURRAM YAQOOB Mohammad Hammad Zahid Ehsan ul haq Waqas Hassan Tanveer Abul Wadood Bilal Ahmed

Journal of Materials Research and Technology , Vol.8(6), Pages 5194-5200

Impact Factor: 5.289 | **Quartile:** 1 | **Citations:** 52

DOI: https://doi.org/10.1016/j.jmrt.2019.08.042

Synthesis and Characterization of Carbon Micro Balls from Graphite by the Arc Discharge Method

2019

Arshad Hussain Wazir Abdul Manan Mu rad Khan Imdad Ullah Qurashi Wahib Noor Khan KHURRAM YAQOOB Safeer Ahmad

Pakistan Journal of Analytical & Environmental Chemistry , Volume 20, Issue 1, Pages 88-92

Impact Factor: 0 | **Citations:** 2

DOI: 10.21743/pjaec/2019.06.12

Comparative effectiveness of organic and inorganic amendments on cadmium bioavailability and uptake by <i>Pelargonium hortorum</i> <i>Iram Gul Maria Manzoor Nosheen Hashim KHURRAM YAQOOB Jean Kallerhoff Muhammad Arshad</i> <i>Journal of Soils and Sediments</i> , Volume 19, Issue 5, pp 2346–2356 Impact Factor: 2.763 Quartile: 2 Citations: 27 DOI: 10.1007/s11368-018-2202-1	2019
Effect of rare earth and transition metal La-Mn substitution on electrical properties of co-precipitated M-type Ba-ferrites nanoparticles <i>KHURRAM YAQOOB Muhammad Ayub Iftikhar Hussain Gul Khalid Nawaz</i> <i>Journal of Rare Earths</i> , Volume 37, Issue 2, Pages 193-197 Impact Factor: 3.104 Quartile: 2 Citations: 31 DOI: https://doi.org/10.1016/j.jre.2018.08.005	2019
Thermodynamic modeling of the Mo-Ni system <i>KHURRAM YAQOOB Jean-Claude Crivello Jean-Marc Joubert</i> <i>Calphad</i> , Volume 62, Pages 215-222 Impact Factor: 2.652 Quartile: 1 Citations: 12 DOI: https://doi.org/10.1016/j.calphad.2018.07.002	2018
Experimentation and Modelling of Nanostructured Nickel Cermet Anodes for Submicron SOFCs Fuelled Indirectly by Industrial Waste Carbon <i>Waqas Hassan Tanveer Hiroshi Iwai Wonjong Yu Arunkumar Pandiyan Sanghoon Ji Yoon Ho Lee Yeageun Lee KHURRAM YAQOOB Gu Young Cho Suk Won Cha</i> <i>Journal of Materials Chemistry A</i> , online Impact Factor: 10.733 Quartile: 1 Citations: 9 DOI: 10.1039/C7TA10273A	2018
Experimental and theoretical correlation of reinforcement trends in acrylonitrile butadiene styrene/single-walled carbon nanotubes hybrid composites <i>Ahmad Nawaz Khan Qaiser Waheed Rahim Jan KHURRAM YAQOOB Zulfiqar Ali Iftikhar Hussain Gul</i> <i>POLYMER COMPOSITES</i> , Volume: 39 Pages: E902-E908 Supplement: 2 Special Issue: SI Impact Factor: 2.268 Quartile: 2 Citations: 11 DOI: 10.1002/pc.24321	2018
Synthesis and characterization of electrodeposited NiO thin film on electrode grade carbon plate for supercapacitor applications <i>Zakir Hussain Ahmad Nawaz Khan KHURRAM YAQOOB Imran Sohail</i> <i>Materials Research Express</i> , Volume: 4 Issue: 11 Article Number: 116412 Impact Factor: 1.151 Quartile: 4 Citations: 17 DOI: 10.1088/2053-1591/aa997a	2017
Synthesis of alumino-silicates functionalized titanium as potential adsorbent: An industrial possibility <i>KHURRAM YAQOOB Fatima Tariq Uzaira Rafique</i> <i>EPITOANYAG - Journal of Silicate Based And Composite Materials</i> , Volume 69, No. 3, Pages 94-97 Impact Factor: 0 DOI: 10.14382/epitoanyag-jsbcm.2017.16	2017
Effect of polyaniline on the dielectric and EMI shielding behaviors of styrene acrylonitrile <i>KHURRAM YAQOOB Abdul Saboor Hammad M. Cheema Ahmed Shafqat Ahmad Nawaz Khan</i> <i>Journal of Materials Science: Materials in Electronics</i> , Volume 27, Pages:9634-9641 Impact Factor: 2.019 Quartile: 2 Citations: 33 DOI: 10.1007/s10854-016-5021-4	2016
CALPHAD description of the Mo-Re system focused on the sigma phase modeling☆ <i>R. Mathieu N. Dupin J.-C. Crivello KHURRAM YAQOOB A. Breidi J.-M. Fiorani N. David J.-M. Joubert</i> <i>CALPHAD-COMPUTER COUPLING OF PHASE DIAGRAMS AND THERMOCHEMISTRY</i> , Volume 43, Pages 18-31 Impact Factor: 1.394 Quartile: 2 Citations: 48 DOI: 10.1016/j.calphad.2013.08.002	2013
A modulated structure derived from the σ phase in the Mo-Ni-Re system <i>KHURRAM YAQOOB Laure Guénée Radovan Cerný Jean-Marc Joubert</i> <i>Intermetallics</i> , Volume 37, Pages 42-45 Impact Factor: 2.119 Quartile: 1 Citations: 3 DOI: 10.1016/j.intermet.2013.01.018	2013

Experimental investigation of the Mo-Ni-Re system <i>KHURRAM YAQOOB Jean-Marc Joubert</i> <i>Journal of Alloys and Compounds</i> , Volume 559, Pages 101-111 Impact Factor: 2.726 Quartile: 1 Citations: 11 DOI: 10.1016/j.jallcom.2013.01.045	2013
Experimental determination and thermodynamic modeling of the Ni-Re binary system <i>KHURRAM YAQOOB Jean-Marc Joubert</i> <i>Journal of Solid State Chemistry</i> , Volume 196, Pages 320-325 Impact Factor: 2.040 Quartile: 2 Citations: 19 DOI: 10.1016/j.jssc.2012.06.036	2012
Comparison of the Site Occupancies Determined by Combined Rietveld Refinement and Density Functional Theory Calculations: Example of the Ternary Mo-Ni-Re γ Phase <i>KHURRAM YAQOOB Jean-Claude Crivello Jean-Marc Joubert</i> <i>Inorganic Chemistry</i> , Volume 51, Issue 5, Pages 3071-3078 Impact Factor: 4.593 Quartile: 1 Citations: 29 DOI: 10.1021/ic202479y	2012

Editorial Activities

Journal of Alloys and Compounds Communications Reviewed Papers for Journals Impact Factor: 5.8	2024
Journal of Alloys and Metallurgical Systems Reviewed Papers for Journals Impact Factor: 0.5	2024
Journal of Materials Research and Technology Reviewed Papers for Journals Impact Factor: 6.4	2024
Advanced Functional Materials Reviewed Papers for Journals Impact Factor: 18.5	2024
Journal of Materials Science and Technology Reviewed Papers for Journals Impact Factor: 11.2	2024