Malik Adeel Umer

Associate Professor

School of Chemical & Materials Engineering

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About

Dr. Malik Adeel Umer is working as Associate Professor in the School of Chemical & Materials Engineering. Dr. Malik Adeel Umer has a PhD in Materials Science And Engineering. Dr. Malik Adeel Umer has published 65 research articles & conference papers having a citation count of 925, carried out 9 projects and filed 1 intellectual property.

Qualifications

PhD in Materials Science And Engineering 2010 - 2015
Korea Advanced Institute of Science & Technology , Korea

MS in Materials Science And Engineering 2008 - 2010
Korea Advanced Institute of Science & Technology , Korea

BS in Metallurgy And Materials Engineering 2002 - 2006
Ghulam Ishaq Khan Institute of Science & Technology , Pakistan

Experience

Associate Professor 2021- Present
School of Chemical & Materials Engineering

Assistant Professor 2019 - 2021
School of Chemical & Materials Engineering

Assistant Professor 2016 - 2019
School of Chemical & Materials Engineering

Assistant Professor 2015 - 2016
School of Chemical & Materials Engineering

Trainee Engineer 2007 - 2008
Pakistan International Airline , Engineering Complex, PIAC, Karachi

Awards

Best Paper Award 2009
Awarding Body: "Korean Society for Composite Materials, KSCM" for presentation titled: "Fabrication and characterization of nano TiN coated cBN compacts".

Professional Memberships

PEC Since 2018

Research Projects

National Projects

Development of an Optimized Process for Diamond Based Chamfering Tools Manufacturing 2024
Funding Agency: NESCOM
Amount: PKR 500,000.00
Status: Approved_inprocess

Development of Electroplated Diamond Tool Technique 2024
Funding Agency: NESCOM
Amount: PKR 800,000.00
Status: Approved_inprocess

Synthesis and Characterization of Silicon Nitride powder 2021
Funding Agency: NESCOM
Amount: PKR 500,000.00
Status: Completed

Development and characterization of 3D fabric reinforced epoxy matrix comopsites 2021
Funding Agency: NESCOM RAC
Amount: PKR 500,000.00
Status: Completed

Development of smart self-healing corrosion protection coating for 7xxxx Alloys 2022
Funding Agency: NESCOM
Amount: PKR 3,500,000.00
Status: Approved_inprocess

Synthesis and Characterization of rigid thermal protective system for space vehicles 2021
Funding Agency: NESCOM
Amount: PKR 500,000.00
Status: Approved_inprocess

Synthesis and Characterization of Silicon Nitride powder 2021
Funding Agency: NESCOM
Amount: PKR 500,000.00
Status: Approved_inprocess

Indigenous fabrication of Al2O3 Ceramic Tiles for Ballistic Armour 2018
Funding Agency: HEC
Amount: PKR 13,410,000.00
Status: Completed

Feasibility study of Smart MRE based base isolation system for Large scale application in civil engineering structures 2019
Funding Agency: HEC
Amount: PKR 11,990,000.00
Status: Completed

International Projects

Research Articles

Experimental and numerical analysis of damage resistance in multi-functional hybrid sandwich composites against low-velocity impacts 2025
Zafar Iqbal Malik Adeel Umer Faisal Siddiqui Talha Aamir
Polymer Composites, Pages 1-15
Impact Factor: 4.800 | **Quartile:** 1 | **Citations:** 1
DOI: https://doi.org/10.1002/pc.29922

Hybrid biochar-graphitic carbon nitride (g-C3N4) composite photocatalyst: a facile strategy for enhanced degradation of Ciprofloxacin (CIP) 2025
Ijlal Idriss Muhammad Zafar Malik Adeel Umer Amna Mir Fahad Rehman Abrar Faisal Abdul Razzaq Woo Young Kim
Materials Research Express, Volume 12, Issue 3, Article Number 035503
Impact Factor: 1.800 | **Quartile:** 3
DOI: 10.1088/2053-1591/adb9bc

Interfacial Strength Enhancement of Diffusion-Bonded High-Strength Low-Alloy Steel Using Beryllium-Copper Alloy as an Interlayer 2025

Mian muhammad Hussain Abdul Basit Shahid Ikram Ullah Butt Shamraiz Ahmad Malik Adeel Umer Rashid Ali

Journal of Materials Engineering and Performance, Pages 1-11

Impact Factor: 2.200 | **Quartile:** 3 | **Citations:** 1

DOI: 10.1007/s11665-025-10907-1

Effect of process parameters and material composition of Al2O3-HAP composite using powder metallurgy 2025

Muhammad Tayyab Bhutta Sadaqat Ali Malik Adeel Umer Aamir Mubashar Emad Ud Din Adnan Munir Abdul Basit

Results in Materials, Volume:25, Article Number 100669

Impact Factor: N/A

DOI: https://doi.org/10.1016/j.rinma.2025.100669

Silver (Ag) doped graphitic carbon nitride (g-C3N4)/biochar composite photocatalyst for improved photocatalytic degradation of ciprofloxacin (CIP) 2025

Ijlal Idriss Muhammad Zafar Malik Adeel Umer Fahad Rehman Abdul Razzaq Seongwan Kim Yunsook Yang Woo Young Kim

Results in Physics, Volume:68, Article Number 108071

Impact Factor: 4.400 | **Quartile:** 1 | **Citations:** 1

DOI: https://doi.org/10.1016/j.rinp.2024.108071

Development of 4- Component Eutectic High Entropy Alloys Using Electromagnetic Levitation Technique 2025

Ahmed Umar Munawar Fatima Nisar Aamna Masood Aqsa aamer Naqvi Muhammad Shahin Khurram Munir Malik Adeel Umer Florian Kargl

JOM, Volume:77, Issue:1, Pages 294-302

Impact Factor: 2.100 | **Quartile:** 2

DOI: https://doi.org/10.1007/s11837-024-06988-3

Fe-Ni binder modified NbC cermets: A cost-effective solution with superior mechanical properties 2024

Abdul Basit Furqan Anwar Sadaqat Ali Malik Adeel Umer Tauheed Shahbaz Emad ud Din Aamir Mubashar

Ceramics International, Volume: 50, Issue: 22, Part C, Pages: 47768-47779

Impact Factor: 5.100 | **Quartile:** 1 | **Citations:** 1

DOI: https://doi.org/10.1016/j.ceramint.2024.09.121

Microstructure and mechanical properties of TiC reinforced NbC-Ni4VC4Mo2C cermets 2024

Asad Malik Abdul Basit Farzik Ijaz Furqan Anwar Malik Adeel Umer Yang Shao

Materials Research Express, Volume 11, Number 9, Article Number 096518

Impact Factor: 1.800 | **Quartile:** 3 | **Citations:** 1

DOI: 10.1088/2053-1591/ad78b4

Recovery and restoration of glass fibers from end-of-life composite waste through pyrolysis and partial oxidation processes combined with hot alkaline surface treatments 2024

A. Rafay Muhammad Irfan Salman Raza Naqvi Malik Adeel Umer M. A. Rehman Mohsin Saleem Muhammad Shoaib Butt Asad Ullah Khan

Polymer Composites, Pages 1-14

Impact Factor: 4.800 | **Quartile:** 1

DOI: https://doi.org/10.1002/pc.28916

Multi-functional hybrid sandwich composite structures: Evaluating damage mechanics and tolerance using compression after impacts 2024

Zafar Iqbal Malik Adeel Umer Haris Ali Khan Kamran Asim

Journal of Reinforced Plastics and Composites, Pages 1-17

Impact Factor: 2.300 | **Quartile:** 3

DOI: https://doi.org/10.1177/0731684424127298

Empirical and numerical analysis of damage tolerance in multifunctional hybrid sandwich fiber reinforced polymers composite structures for aerospace applications using compression after impact (CAI) testing 2024

Zafar Iqbal Malik Adeel Umer Haris Ali Khan Kamran Asim

Polymer Composites, Pages: 12

Impact Factor: 4.8 | **Quartile:** 1 | **Citations:** 2

DOI: 10.1002/pc.28833

Revealing Microstructure and Electrochemical Corrosion Behaviour of CoNiCrAlY Coatings Fabricated by Supersonic Plasma Spraying 2024

Muhammad Ilyas Kashif Mehmood Malik Adeel Umer Abdullah Cahit Karaoglanli Humaira Kousar Muhammad Siyar Ahmed Umar Munawar

JOM , Volume: 76, Pages: 3935-3944

Impact Factor: 2.100 | **Quartile:** 2 | **Citations:** 2

DOI: https://doi.org/10.1007/s11837-024-06672-6

Exceptional mechanical properties and wear behavior of Al2O3 nanoparticle reinforced Ni-W-P coatings 2024

Humaira Kousar Malik Adeel Umer Khuram Shahzad Rabeeka Ferdous Kashif Mehmood Abdul Basit Tauheed Shahbaz Muhammad Yasir Abdul Shakoor

Tribology International , Volume: 194, Article Number:109533,

Impact Factor: 6.2 | **Quartile:** 1 | **Citations:** 14

DOI: 10.1016/j.triboint.2024.109533

Dielectric and thermal properties of composite radome material under accelerated aging: an experimental study 2024

Imran Haider Iftikhar Hussain Gul Malik Adeel Umer Mutawara Mahmood Baig

Journal of Materials Science: Material in Electronics, Volume 35, article number 540,

Impact Factor: 2.8 | **Quartile:** 2 | **Citations:** 2

DOI: 10.1007/s10854-024-12098-2

Silver (Ag) doped graphitic carbon nitride (g-C3N4) photocatalyst for enhanced degradation of Ciprofloxacin (CIP) under visible light irradiation 2024

Ijlal Idrees Abdul Razzaq Muhammad Zafar Malik Adeel Umer Faiza Mustafa Fahad Rehman Woo Young Kim

Arabian Journal of Chemistry, Volume 17, Issue 3, Article Number 105615

Impact Factor: 5.300 | **Quartile:** 2 | **Citations:** 14

DOI: https://doi.org/10.1016/j.arabjc.2024.105615

Investigating damage resistance in aerospace radome applications: Experimental analysis of hybrid sandwich composites 2024

Zafar Iqbal Malik Adeel Umer Kamran Asim Haris Ali Khan

Journal of Reinforced Plastics and Composites, Pages:16

Impact Factor: 3.100 | **Quartile:** 2 | **Citations:** 5

DOI: 10.1177/07316844241229849

Incorporating Controlled Porosity in a Cu2SnSe3 Material To Enhance Its Thermoelectric Properties 2023

Muhammad Siyar Malik Adeel Umer Umar Ijaz Chan Park Muhammad Ishaq Yue-xing Chen Zhuang-hao Zheng

ACS Applied Energy Materials , Volume 6, Issue 24, Pages 12353-12363

Impact Factor: 5.400 | **Quartile:** 2 | **Citations:** 5

DOI: https://doi.org/10.1021/acsaem.3c02172

A Low-Cost Silica Fiber/Epoxy Composite with Excellent Dielectric Properties, and Good Mechanical and Thermal Stabil 2023

Imran Haider Iftikhar Hussain Gul Adeel Umer Malik Mutawara Mahmood Baig

Materials , Volume: 16, Issue: 23, Article Number: 7410

Impact Factor: 3.4 | **Quartile:** 2 | **Citations:** 7

DOI: 10.3390/ma16237410

Tuning the electronic properties in facile in-situ solution synthesis of SnSe2/rGO nanocomposites with enhanced thermoelectric performance 2023

Haad Khan Muhammad Siyar Chan Park Farhan Javaid Malik Adeel Umer Woochan Jin Mohsin Saleem Adnan

Journal of Materials Research, Volume 38, Pages 3913-3922

Impact Factor: 2.7 | **Quartile:** 3 | **Citations:** 5

DOI: 10.1557/s43578-023-01112-8

Enhanced mechanical properties of surface modified and silica reinforced nomex sandwich composites 2023

Malik Adeel Umer Muhammad Irfan Muhammad Siyar Muhammad Usman Sana Abbasi Muhammad Talha Masood

Materials Today Communications, Volume 36, Article Number 106346

Impact Factor: 3.8 | **Quartile:** 2 | **Citations:** 2

DOI: 10.1016/j.mtcomm.2023.106346

In-situ synthesis of crystalline MoS2@ZIF-67 nanocomposite for efficient removal of Methyl Orange Dye from aqueous media 2023

Tahreem Haq Nawz Muhammad Talha Masood Amna Safdar Muhammad Shahid Tayyaba Noor Muzammil Hussain Ayesha Razi Malik Adeel Umer

Micromachines , Volume 14(8), Article Number 1534

Impact Factor: 3.4 | **Quartile:** 2 | **Citations:** 6

DOI: https://doi.org/10.3390/mi14081534

Development of mortar filled honeycomb sandwich panels for resistance against repeated ballistic impacts 2023

Mehvesh Iqbal Muhammad Usman Ghulam Hussain Malik Adeel Umer Asad Hanif Wasim Khaliq

Journal of Materials Research and Technology, Volume 24, Pages 8121-8134

Impact Factor: 6.267 | **Quartile:** 1 | **Citations:** 6

DOI: https://doi.org/10.1016/j.jmrt.2023.05.026

Silica-Fiber-Reinforced Composites for Microelectronic Applications: Effects of Curing Routes 2023

Imran Haider Iftikhar Hussain Gul Malik Adeel Umer Mutawara Mahmood Baig

Materials , Volume 16, Issue 5, Article Number 1790

Impact Factor: 3.4 | **Quartile:** 2 | **Citations:** 8

DOI: 10.3390/ma16051790

Microstructure and mechanical properties of hot isostatic pressed tungsten heavy alloy with FeNiCoCrMn high entropy alloy binder 2023

Zahid Anwer Malik Adeel Umer Fatima Nisar Muhammad Arslan Hafeez KHURRAM YAQOOB Xian Luo Iftikhar Ahmad

Journal of Materials Research and Technology, Volume 22, Pages 2897-2909

Impact Factor: 6.267 | **Quartile:** 1 | **Citations:** 28

DOI: https://doi.org/10.1016/j.jmrt.2022.12.078

Development of Cost-Effective Microstructure and Isothermal Oxidation-Resistant Bond Coats on Inconel 718 by Atmospheric Plasma-Sprayed NiCoCrAlFe High-Entropy Alloy 2022

Kashif Mehmood Muhammad Imran Liaqat Ali Adeel Umer Malik Musharaf Abbas Mohsin Saleem

JOM , Pages 1-9

Impact Factor: 2.597 | **Quartile:** 2 | **Citations:** 3

DOI: https://doi.org/10.1007/s11837-022-05578-5

Effect of Volume Fraction on Shear Mode Properties of Fe-Co and Fe-Ni Filled Magneto-Rheological Elastomers 2022

Shayan Tahir Muhammad Usman Malik Adeel Umer

Polymers , Volume:14, Issue:14,

Impact Factor: 4.967 | **Quartile:** 1 | **Citations:** 14

DOI: https://doi.org/10.3390/polym14142968

Future advances and challenges of nanomaterial-based technologies for electromagnetic interference-based technologies: A review 2022

Syed Shujaat Karim Zahid Murtaza Sarah Farrukh Malik Adeel Umer Syed Sarim Ali Mohammad Younas Muhammad Mubashir Sidra Saqib Muhammad Ayoub Awais Bokhari Angela Paul Peter Kuan Shiong Khoo Sami Ullah Pau Loke Show

Environmental Research , Volume 205, Article Number 112402

Impact Factor: 6.498 | **Quartile:** 1 | **Citations:** 23

DOI: https://doi.org/10.1016/j.envres.2021.112402

Microstructure and Corrosion Behavior of Atmospheric Plasma Sprayed NiCoCrAlFe High Entropy Alloy Coating 2022

Kashif Mehmood Malik Adeel Umer Ahmed Umar Munawar M. Imran Muhammad Shahid Rabeeka Firdous Humair Kousar Muhammad Usman

Materials , Volume 15, Issue 4, Article Number 1486

Impact Factor: 3.748 | **Quartile:** 1 | **Citations:** 18

DOI: https://doi.org/10.3390/ma15041486

Electrochemical Water Splitting Using NiO-NiFe2O4/MWCNTs Nanocomposite as Electrocatalyst 2021

Rida Noor Muhammad Shahid Fahd Nawaz Khan Malik Adeel Umer

NUST Journal of Engineering Sciences, Volume 14, No. 2, Pages 41-49

Impact Factor: 0

DOI: https://doi.org/10.24949/njes.v14i2.660

Effect of Urea Addition on Anatase Phase Enrichment and Nitrogen Doping of TiO2 for Photocatalytic Abatement of Methylene Blue 2021

Maira Asi Muhammad Zafar Parveen Akhter Murid Hussain Malik Adeel Umer Abdul Razzaq Woo-Young Kim

Applied Sciences , Volume 11(17), Article Number 8264

Impact Factor: 2.679 | **Quartile:** 3 | **Citations:** 15

DOI: https://doi.org/10.3390/app11178264

Enhancement in bonding strength and ageingresistance of polychloroprene solvent-baseadhesives through graft copolymerization 2021

Fariz Aneeq Muhammad Shahid Mohsin Saleem Muhammad Awais Muhammad Shoaib Butt Malik Adeel Umer

Journal of Adhesion Science and Technology , Volume 35, No.16, Pages 1752-1763

Impact Factor: 2.077 | **Quartile:** 3 | **Citations:** 7

DOI: https://doi.org/10.1080/01694243.2020.1857581

Controlled Morphology and Its Effects on the Thermoelectric Properties of SnSe2 Thin Films 2021

Muhammad Siyar Maroosha Farid Haad Khan Malik Adeel Umer Waqas Hassan Amna Safdar

Crystals , Volume 11(8), Article Number 942

Impact Factor: 2.589 | **Quartile:** 1 | **Citations:** 5

DOI: 10.3390/cryst11080942

Nanoporous Alumina Membranes for Sugar Industry: An Investigation of Sintering Parameters Influence onUltrafiltration Performance 2021

Farooq Khan Niazi Malik Adeel Umer Ashfaq Ahmed Muhammad Arslan Hafeez Zafar Khan Muhammad Shoaib Butt Z Luo Young-Kwon Park Abdul Razzaq

Sustainibility , Volume 13(14), Article Number 7593

Impact Factor: 3.251 | **Quartile:** 2 | **Citations:** 2

DOI: https://doi.org/10.3390/ su13147593

Effect of concentration of TiC on the properties of pulse electrodeposited Ni–P–TiC nanocomposite coatings 2021

Khuram Shehzad A. Bahgat Radwan Osama Fayyaz R.A Shakoor Madeeha Uzma Malik Adeel Umer M. N Baig A. Raza

Ceramics International , Volume 47, Issue 13, Pages 19123-19133

Impact Factor: 5.532 | **Quartile:** 1 | **Citations:** 41

DOI: 10.1016/j.ceramint.2021.03.259

Effect of high energy ball milling and low temperature densification of plate-like alumina powder 2021

Maryam Saghir Malik Adeel Umer Nasbah Bint Mounir Ashfaq Ahmed Umair Manzoor Abdul Razzaq Khwaja Mohammad Muhammad Shahid Young-Kwon Park Luo Xian Luo Xian

Powder Technology , Volume 383, Pages 84-92

Impact Factor: 5.640 | **Quartile:** 1 | **Citations:** 15

DOI: https://doi.org/10.1016/j.powtec.2021.01.026

Biopolymer blended films of poly(butylene succinate)/cyclic olefin copolymer with enhanced mechanical strength for packaging applications 2021

Muhammad Arman Liaqat Malik Adeel Umer Sadia Janjua Zakir Hussain Zikriya Khan

Journal of Applied Polymer Science, Article Number e50081, Pages 1-6

Impact Factor: 3.057 | **Quartile:** 2 | **Citations:** 15

DOI: https://doi.org/10.1002/app.50081

Recent Progress in Isotropic Magnetorheological Elastomers and Their Properties: A Review 2020

Muhammad Arslan Hafeez Muhammad Usman Asad Hanif Malik Adeel Umar

Polymers , Volume 12(12), Article Number 3023

Impact Factor: 4.329 | **Quartile:** 1 | **Citations:** 47

DOI: 10.3390/polym12123023

Enhanced mechanical and corrosion protection properties of pulse electrodeposited NiP-ZrO2 nanocomposite coatings 2020

Mostafa H. Sliem Khuram Shahzad V.N. Sivaprasad Rana A Shakoor Aboubakr M. Abdullah Osama Fayyaz Ramazan Kahraman Malik Adeel Umer

Surface and Coatings Technology, Volume 403, Article Number 126340

Impact Factor: 4.158 | **Quartile:** 2 | **Citations:** 52

DOI: https://doi.org/10.1016/j.surfcoat.2020.126340

Development and Aging Behaviour of Solvent-Based Polychloroprene Rubber Nano-Adhesive Using Multiwall Carbon Nanotubes 2020

Muhammad Awais Muhammad Shahid Mohsin Saleem Fariz Aneeq Muhammad Shoaib Butt Malik Adeel Umer

Journal of Materials Science and Chemical Engineering, Volume 8(9), Pages 31-44

Impact Factor: -

DOI: 10.4236/msce.2020.89004

Corrosion and Heat Treatment Study of Electroless NiP-Ti Nanocomposite Coatings Deposited on HSLA Steel 2020

Khuram Shahzad Eman M. Fayyad Muddasir Nawaz Osama Fayyaz R. A. Shakoor Mohammad K. Hassan Malik Adeel Umer M. N. Baig A. Raza Aboubakr M. Abdullah

Nanomaterials , Volume 10(10), Article Number 1932

Impact Factor: 5.076 | **Quartile:** 2 | **Citations:** 27

DOI: 10.3390/nano10101932

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

Mechanical and thermal properties of multiwalled carbon-nanotube-reinforced Al2O3 nanocomposites 2020

C. Guo X. Luoa W.A. Shah J.K. Lib B. Huang Malik Adeel Umer Y.Q. Yang

Ceramics International , Volume 46, Issue 11, Part A, Pages 17449-17460

Impact Factor: 4.527 | **Quartile:** 1 | **Citations:** 27

DOI: https://doi.org/10.1016/j.ceramint.2020.04.039

Development and characterization of a novel hybrid magnetorheological elastomer incorporating micro and nano size iron fillers 2020

Sadia Umer Khayam Muhammad Usman Malik Adeel Umer Ahmed Rafique

Materials & Design , Volume 192, Article Number 108748

Impact Factor: 7.991 | **Quartile:** 1 | **Citations:** 51

DOI: https://doi.org/10.1016/j.matdes.2020.108748

Nanoindentation-Based Micro-Mechanical and Electrochemical Properties of Quench-Hardened, Tempered Low-Carbon Steel 2020

Muhammad Usman Malik Adeel Umer Muhammad Arslan Hafeez Muhammad Adnan Arshad

Crystals , Volume 10, Article Number 508

Impact Factor: 2.589 | **Quartile:** 2 | **Citations:** 11

DOI: 10.3390/cryst10060508

Revealing the Effects of Microarc Oxidation on the Mechanical and Degradation Properties of Mg-Based Biodegradable Composites 2020

Muhammad Shoaib Butt Mohsin Saleem Adnan Maqbool Malik Adeel Umer Farhan Javaid Rizwan Ahmed Malik Muhammad Asif Hussain Zabdur Rehman

ACS Omega , Volume 5(23), Pages 13694–13702

Impact Factor: 2.87 | **Quartile:** 2 | **Citations:** 14

DOI: https://dx.doi.org/10.1021/acsomega.0c00836

Enhanced Mechanical Properties of Surface Treated AZ31 Reinforced Polymer Composites 2020

Muhammad Shoaib Butt Mohsin Saleem Adnan Maqbool Malik Adeel Umer Rizwan Ahmed Malik Ibrahim M. Alarif Hussein Alrobei

Crystals , Volume 10, Issue 5, Article Number 381

Impact Factor: 2.404 | **Quartile:** 2 | **Citations:** 10

DOI: https://doi.org/10.3390/cryst10050381

Percolation phenomena of dielectric permittivity of a microwave-sintered BaTiO3–Ag nanocomposite for high energy capacitor 2020

Mohsin Saleem Muhammad Shoaib Butt Adnan Maqbool Malik Adeel Umer Muhammad Shahid Farhan Javaid Rizwan Ahmed Malik Hamid Jabbar Hafiz Muhammad Waseem Khalil Lim Dong Hwan Minsoo Kim Bo-Kun Koo Soon Jong Jeong

Journal of Alloys and Compounds, Volume 822, Article Number 153525

Impact Factor: 5.316 | **Quartile:** 1 | **Citations:** 29

DOI: https://doi.org/10.1016/j.jallcom.2019.153525

Mechanical and electrical properties of carbon nanotube reinforced Al2O3 nanocomposites 2020

C. Guo Xian Luo Wajid Ali Shah B. Huang J. K. Li Y. Q. Yang Malik Adeel Umer C. Guo Xian Luo Wajid Ali Shah B. Huang J. K. Li Y. Q. Yang

Journal of Materials Science , Volume 55, Page 8728-8740

Impact Factor: 4.220 | **Quartile:** 2 | **Citations:** 19

DOI: 10.1007/s10853-019-04173-5

Optimized Corrosion Performance of AISI 1345 Steel in Hydrochloric Acid Through Thermo-Mechanical Cyclic Annealing Processes 2020

Muhammad Usman Muhammad Arslan Hafeez Aqil Inam Misbah Ul Hassan Malik Adeel Umer Asad Hanif

Crystals , Volume 10, Article Number 256

Impact Factor: 2.589 | **Quartile:** 2 | **Citations:** 5

DOI: 10.3390/cryst10040265

Electrochemical and thermodynamic study on the corrosion performance of API X120 steel in a sweet corrosive environment 2020

Khuram Shahzad Mostafa H. Sliem R. Abdul Shakoor A. Bahgat Radwan Ramazan Kahraman Umair Manzoor Aboubakr M. Abdullah Malik Adeel Umer

Scientific Reports , Volume 10, Article Number 4314

Impact Factor: 4.380 | **Quartile:** 1 | **Citations:** 62
DOI: https://doi.org/10.1038/s41598-020-61139-3

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

Reinforcing capability of multiwall carbon nanotubes in alumina ceramic hybrid nanocomposites containing zirconium oxide nanoparticles 2019
Malik Adeel Umer Iftikhar Ahmad Shahid Parvez Khurram S. Munir Mohammad Islam Nuha Al Habis Nannan Wang Yanqiu Zhu
International Journal of refractory metals and hard materials, Volume 84, Article Number 105018
Impact Factor: 3.407 | **Quartile:** 1 | **Citations:** 22
DOI: 10.1016/j.ijrmhm.2019.105018

Surface degradation study of magnesium tested in simulated body fluid 2019
Muhammad Mujahid Aftab Akram Malik Adeel Umer Anum Sana Iqra Malik
Bio-Medical Materials and Engineering, Volume 30, Issue 3, Pages 341-348
Impact Factor: 1.243 | **Quartile:** 4 | **Citations:** 4
DOI: 10.3233/BME-191057

Effect of solution-aging treatment on the microstructure and tensile properties of SiCf/C/Mo/Ti2AlNb composites 2018
X. Luo J.J. Xu Y.Q. Wang Y.Q. Yang Malik Adeel Umer S.Q. Zhang
Intermetallics, NULL
Impact Factor: 3.353 | **Quartile:** 1 | **Citations:** 14
DOI: 10.1016/j.intermet.2018.01.007

Fabrication of Protective-coated SiC Reinforced Tungsten Matrix Composites with Reduced Reaction Phases By Spark Plasma Sintering 2016
Dongju Lee Owais Ahmed Waseem Ho Jin Ryu Soon Hyung Hong Malik Adeel Umer
Metals and Materials International, Volume 22, Issue 3, Pages 493-500
Impact Factor: 1.952 | **Quartile:** 1 | **Citations:** 12
DOI: 10.1007/s12540-016-5700-y

Fabrication of ZrO2 based nanocomposites for transuranic element burning inert matrix fuel 2015
QUSAI MISTARIHI MALIK A. UMER JOON HUI KIM SOON HYUNG HONG HO JIN RYU Malik Adeel Umer
Nuclear Engineering and Technology, Volume: 47 Issue: 5 Pages: 617-623
Impact Factor: 0.792 | **Quartile:** 3 | **Citations:** 24
DOI: 10.1016/j.net.2015.05.003

The effect of HfC content on mechanical properties HfC-W composites 2014
Dongju Lee Ho J. Ryu Soon H. Hong Malik Adeel Umer
International Journal of Refractory Metals and Hard Materials, Volume 44, Pages 49-53
Impact Factor: 1.989 | **Quartile:** 1 | **Citations:** 65
DOI: 10.1016/j.ijrmhm.2014.01.012

Elevated temperature ablation resistance of HfC particle-reinforced tungsten composites 2014
Dongju Lee Ho J. Ryu Soon H. Hong Malik Adeel Umer
International Journal of Refractory Metals and Hard Materials, Volume 43, Pages 89-93
Impact Factor: 1.989 | **Quartile:** 1 | **Citations:** 33
DOI: 10.1016/j.ijrmhm.2013.11.009

High Temperature Ablation Resistance of ZrNp Reinforced W Matrix Composites 2014
Ho Jin Ryu Soon Hyung Hong Malik Adeel Umer Dongju Lee
International Journal of Refractory Metals and Hard Materials, Volume 42, Pages 17-22
Impact Factor: 1.989 | **Quartile:** 1 | **Citations:** 10
DOI: 10.1016/j.ijrmhm.2013.10.001

Oxidation behavior and ablation properties of MDF-based biomorphic SiC composites 2013
Dongju Lee Yun C. Kim Malik Adeel Umer Kwang H. Lim Sang B. Park Soon H. Hong
Ceramics International, Volume 39, Issue 7, Pages 7475-7481
Impact Factor: 2.086 | **Quartile:** 1 | **Citations:** 8
DOI: 10.1016/j.ceramint.2013.02.096

Sono-assisted sulfuric acid process for economical recovery of fermentable sugars and mesoporous pure silica from rice straw 2013

Muhammad Saif Ur Rehman Naim Rashid Ilgook Kim Jong-In Han Malik Adeel Umer

Industrial Crops and Products, Volume: 49 Pages: 705-711

Impact Factor: 3.208 | **Quartile:** 1 | **Citations:** 32

DOI: 10.1016/j.indcrop.2013.06.034

Polycrystalline cubic Boron Nitride Sintered Compacts Prepared from NanocrystallineTiN Coated cBN Powder 2012

Park Hee Sub Dong Ju Lee Ho Jin Ryu Soon Hyung Hong Malik Adeel Umer

Materials Science and Engineering A-Structural Materials Properties Microstructure and Processing, Volume 552, Pages 151-156

Impact Factor: 2.108 | **Quartile:** 1 | **Citations:** 38

DOI: 10.1016/j.msea.2012.05.024

A sol-gel route to nanocrystalline TiN coated cubic boron nitride particles 2011

Hee Sub Park Dong Ju Lee Ho Jin Ryu Soon Hyung Hong Hee Sub Park Dong Ju Lee Ho Jin Ryu Soon Hyung Hong Malik Adeel Umer

Journal of Alloys and Compounds, 10.1016/j.jallcom.2011.07.070

Impact Factor: 2.289 | **Quartile:** 1 | **Citations:** 10

DOI: 10.1016/j.jallcom.2011.07.070

Preparation of nanocrystalline TiN coated cubic boron nitride powders by a sol-gel process 2011

Hee S. Park Ho J. Ryu Soon H. Hong Malik Adeel Umer

Journal of Nanoscience and Nanotechnology, Volume 11, Issue 1, Pages 363-367

Impact Factor: 1.563 | **Quartile:** 2 | **Citations:** 6

DOI: 10.1166/jnn.2011.3225

Conference Proceedings

Towards the Optimization of Microstructure and Mechanical Properties of NbC-based Cermets 2024

Abdul Basit Asad Malik Dr. Sadaqat Ali Adeel Umer Rafi-ud-Din

4th International Conference on Scientific and Academic Research, res.country(224,)

Citations: N/A

DOI: https://drive.google.com/file/d/1xwCke5VoshDPKTux1eOZma-5prJzdCwE/view

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Reviewed Papers for Journals
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Multi-layer ballistic composite armor 2021
Status: Filed

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