

Muhammad Shahid

Professor

School of Chemical & Materials Engineering

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About

Dr. Muhammad Shahid is working as Professor in the School of Chemical & Materials Engineering. Dr. Muhammad Shahid has a PhD in Corrosion and Protection. Dr. Muhammad Shahid has published 65 research articles & conference papers having a citation count of 968, carried out 9 projects and filed 0 intellectual property.

Qualifications

PhD in Corrosion and Protection University of Manchester , United Kingdom	1988 - 1991
MS in Metallic and ceramic materials University of Manchester , United Kingdom	1986 - 1988
BS in Metallurgy UET Lahore , Pakistan	1977 - 1983

Experience

Professor School of Chemical & Materials Engineering	2020- Present
Professor School of Chemical & Materials Engineering	2016 - 2020
Professor School of Chemical & Materials Engineering	2010 - 2016
Professor College of Electrical & Mechanical Engineering	2007 - 2010
Associate Professor GIK Institute of Engineering Sciences & Technology , GIK Institute, Topi, Swabi	2000 - 2006
Principal Engineer KRL , KRL, Kahuta	1985 - 2001
Captain Pak Army , Pakistan Army, Corps of EME	1983 - 1985

Awards

ORS award Overseas Research Student award during PhD in UK.	1989
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Professional Memberships

PEC	Since 1983
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Research Projects

National Projects

Material Composition & Trace Analysis Investigation Funding Agency: PAF Amount: PKR 168,600.00 Status: Completed	2022
To improve the mechanical properties of 3D c/c composites by addition of ceramic particles Funding Agency: NESCOM Amount: PKR 200,000.00 Status: Approved_inprocess	2021
Development of superior carbon - carbon composites with enhanced oxidation/ablation resistance at high temperatures for aerospace applications Funding Agency: NESCOM Amount: PKR 250,000.00 Status: Approved_inprocess	2021
Develop an innovative technique for processing the olive fruit waste to achieve leftover oil for edible use under Competitive Research Grants Funding Agency: Pakistan Agricultural Council Amount: PKR 7,013,000.00 Status: Completed	2021
Quantification of interface adhesion strength of adhesive bonded dissimilar materials using ultrasonic technique Funding Agency: NESCOM Amount: PKR 100,000.00 Status: Completed	2018
Electroforming of thin walled nickel components Funding Agency: NESCOM Amount: PKR 250,000.00 Status: Completed	2018
Development and commercialization of High Bond Strength, Synthetic Rubber Adhesives, for high-tech applications in local industry Funding Agency: PSF Amount: PKR 4,125,000.00 Status: Completed	2019
Electrochemical forming of nickel product Funding Agency: NESCOM Amount: PKR 250,000.00 Status: Completed	2018

International Projects

Industry Projects

National Projects

Upgradation and automation in production plant and lab development for quality control at Aqsa Chemical Industries, Multan Road, Lahore. Client: Aqsa Chemicals, Lahore Amount: PKR 1,000,000.00 Status: Completed	2015
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International Projects

Research Articles

Incorporation of Ceramic-Based Lyophilized Sepiolite Clay Enhances Mechanical Properties and Thermal Stability of HDPE <i>Shafi Ur Rehman Sana Javaid Sadaf Munir Fawad Ahmed Muhammad Shahid Asim Shahzad Badar Rashid Ahmed B. M. Ibrahim Maged S. Al-Fakeh Polymer Composites</i>	2025
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Impact Factor: 4.700 Quartile: 1 DOI: https://doi.org/10.1002/pc.70009	
In-situ synthesis of crystalline MoS₂@ZIF-67 nanocomposite for efficient removal of Methyl Orange Dye from aqueous media <i>Tahreem Haq Nawz Muhammad Talha Masood Amna Safdar Muhammad Shahid Tayyaba Noor Muzammil Hussain Ayesha Razi Malik Adeel Umer Micromachines</i> , Volume 14(8), Article Number 1534 Impact Factor: 3.4 Quartile: 2 Citations: 6 DOI: https://doi.org/10.3390/mi14081534	2023
Improved anti-corrosion and mechanical aspects of reinforced cementitious composites with bio-inspired strategies <i>Maria Kanwal Rao Arsalan Khushnood Abdul Ghafar Wattoo Muhammad Shahid Journal of Building Engineering</i> , Volume 70, Article Number 105930 Impact Factor: 7.144 Quartile: 1 Citations: 7 DOI: https://doi.org/10.1016/j.jobbe.2023.105930	2023
The Synergistic Effect of Polystyrene/Modified Boron Nitride Composites for Enhanced Mechanical, Thermal and Conductive Properties <i>Shafi Ur Rehman Sana Javaid Muhammad Shahid Nasir Mahmood Ahmad Badar Rashid Caroline R. Szczepanski Asim Shahzad Polymers</i> , Volume 15(1), Article Number 235 Impact Factor: 4.967 Quartile: 1 Citations: 5 DOI: https://doi.org/10.3390/polym15010235	2023
Corrosion Inhibition of Low Carbon Steel in Soil Solutions, Using Novel Schiff Base Inhibitor <i>Mehmooona Faryal Muhammad Uzman Muhammad Shahid Muhammad Arfan Solid State Phenomena</i> , Volume 336, Pages 25-33 Impact Factor: N/A DOI: https://doi.org/10.4028/p-btm662	2022
Polystyrene-Sepiolite Clay Nanocomposites with Enhanced Mechanical and Thermal Properties <i>Shafi Ur Rehman Sana Javaid Muhammad Shahid Iftikhar Hussain Gul Badar Rashid Caroline R. Szczepanski Muhammad Naveed Sabrina J. Curley Polymers</i> , Volume 14, Issue 17, Article Number 3576 Impact Factor: 4.967 Quartile: 1 Citations: 14 DOI: https://doi.org/10.3390/polym14173576	2022
An integrated and eco-friendly approach for corrosion inhibition and microstructural densification of reinforced concrete by immobilizing Bacillus subtilis in pyrolytic sugarcane-bagasse <i>Maria Kanwal Rao Arsalan Khushnood Muhammad Shahid Abdul Ghafar Wattoo Journal of Cleaner Production</i> , Volume 355, Article Number 131785 Impact Factor: 11.1 Quartile: 1 Citations: 40 DOI: 10.1016/j.jclepro.2022.131785	2022
Effects of Braid Angle and Material Modulus on the Negative Poisson's Ratio of Braided Auxetic Yarns <i>Arif Ali Shah Muhammad Shahid John J Hardy Naveed A Siddiqui Andrew R Kennedy Iftikhar Hussain Gul Shafi Ur Rehman Yasir Nawab Crystals</i> , Volume 12, Issue 6, Article Number 781 Impact Factor: 2.670 Quartile: 2 Citations: 4 DOI: https://doi.org/10.3390/cryst12060781	2022
Synthesis of Magnetic Fe₃O₄ Nano Hollow Spheres for Industrial TNT Wastewater Treatment <i>Sana Javaid Muhammad Shahid Shafi Ur Rehman Mutawara Mahmood Baig Badar Rashid Caroline R Szczepanski Sabrina J Curley Nanomaterials</i> , Volume 12, Issue 5, Article Number 881 Impact Factor: 5.3 Quartile: 1 Citations: 8 DOI: 10.3390/nano12050881	2022
Microstructure and Corrosion Behavior of Atmospheric Plasma Sprayed NiCoCrAlFe High Entropy Alloy Coating <i>Kashif Mehmood Malik Adeel Umer Ahmed Umar Munawar M. Imran Muhammad Shahid Rabeeka Firdous Humair Kousar Muhammad Usman Materials</i> , Volume 15, Issue 4, Article Number 1486 Impact Factor: 3.748 Quartile: 1 Citations: 18 DOI: https://doi.org/10.3390/ma15041486	2022
Electrochemical Water Splitting Using NiO-NiFe₂O₄/MWCNTs Nanocomposite as Electrocatalyst <i>Rida Noor Muhammad Shahid Fahd Nawaz Khan Malik Adeel Umer NUST Journal of Engineering Sciences</i> , Volume 14, No. 2, Pages 41-49	2021

Impact Factor: 0 DOI: https://doi.org/10.24949/njes.v14i2.660	
Enhancement in bonding strength and ageing resistance of polychloroprene solvent-based adhesives through graft copolymerization <i>Fariz Aneeq Muhammad Shahid Mohsin Saleem Muhammad Awais Muhammad Shoaib Butt Malik Adeel Umer</i> <i>Journal of Adhesion Science and Technology</i> , Volume 35, No.16, Pages 1752-1763 Impact Factor: 2.077 Quartile: 3 Citations: 7 DOI: https://doi.org/10.1080/01694243.2020.1857581	2021
Effect of high energy ball milling and low temperature densification of plate-like alumina powder <i>Maryam Saghir Malik Adeel Umer Nasbah Bint Mounir Ashfaq Ahmed Umair Manzoor Abdul Razzaq Khwaja Mohammad Muhammad Shahid Young-Kwon</i> <i>Park Luo Xian Luo Xian</i> <i>Powder Technology</i> , Volume 383, Pages 84-92 Impact Factor: 5.640 Quartile: 1 Citations: 15 DOI: https://doi.org/10.1016/j.powtec.2021.01.026	2021
Development and Aging Behaviour of Solvent-Based Polychloroprene Rubber Nano-Adhesive Using Multiwall Carbon Nanotubes <i>Muhammad Awais Muhammad Shahid Mohsin Saleem Fariz Aneeq Muhammad Shoaib Butt Malik Adeel Umer</i> <i>Journal of Materials Science and Chemical Engineering</i> , Volume 8(9), Pages 31-44 Impact Factor: - DOI: 10.4236/msce.2020.89004	2020
Percolation phenomena of dielectric permittivity of a microwave-sintered BaTiO₃-Ag nanocomposite for high energy capacitor <i>Mohsin Saleem Muhammad Shoaib Butt Adnan Maqbool Malik Adeel Umer Muhammad Shahid Farhan Javaid Rizwan Ahmed Malik Hamid Jabbar Hafiz</i> <i>Muhammad Waseem Khalil Lim Dong Hwan Minsoo Kim Bo-Kun Koo Soon Jong Jeong</i> <i>Journal of Alloys and Compounds</i> , Volume 822, Article Number 153525 Impact Factor: 5.316 Quartile: 1 Citations: 29 DOI: https://doi.org/10.1016/j.jallcom.2019.153525	2020
Interface Adhesion Strength of Adhesive-Bonded Materials Using Ultrasonic Technique <i>Mukarram Ali Muhammad Shahid Haseeb Ahmad Khan Lodhi Danyal Naseer Imran Sadiq</i> <i>Journal of Multidisciplinary Approaches in Science</i> , Volume 11, Issue 1, Pages 8-17 Impact Factor: -	2019
Design assisted fatigue failure of an aircraft's pole piece assembly <i>Muhammad Mansoor Muhammad Irfan Shaheed Khan Amjad Ali Muhammad Shahid Khalid Mahmood</i> <i>Engineering Failure Analysis</i> , Volume 105, Pages 246-254 Impact Factor: 2.897 Quartile: 1 Citations: 1 DOI: 10.1016/j.engfailanal.2019.06.046	2019
Corrosion protection with eco-friendly inhibitors <i>Muhammad Shahid</i> <i>Advances in Natural Sciences: Nanoscience and Nanotechnology</i> , Advances in Natural Sciences: Nanoscience and Nanotechnology Vol. 2, Article No.043001, Pages 06, 31 Oct 2011 Impact Factor: 0 Citations: 49 DOI: 10.1088/2043-6262/2/4/043001	2019
In-situ corrosion monitoring under flowing conditions; a review <i>Mamoona Zaheer Muhammad Shahid</i> <i>Science International-Lahore</i> , Volume 31, Issue 2, Pages 325-330 Impact Factor: 0 DOI: -	2019
Electrochemical corrosion and bacterial adhesion study of Two Osteosynthetic Maxillofacial Bone Plates <i>Rabia Anwar Muhammad Kaleem Shahreen Zahid Khan Irfan Shah Muhammad Shahid</i> <i>Journal of the Pakistan Medical Association</i> , Volume: 69, Issue: 4, Pages: 514-517 Impact Factor: 0.573 Quartile: 4 DOI: NA	2019
Electrochemical Comparison of SAN/PANI/FLG and ZnO/GO Coated Cast Iron Subject to Corrosive Environments	2018

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Materials , Volume: 11, Issue: 11, Article No.223
Impact Factor: 2.972 | **Quartile:** 2 | **Citations:** 9
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- Stress relaxation behavior of annealed aluminum-carbon nanotube composite** 2018
Muhammad Mansoor Muhammad Shahid
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- Electrochemical Study of Polymer and Ceramic-Based Nanocomposite Coatings for Corrosion Protection of Cast Iron Pipeline** 2018
Zulfiqar Ahmad Khan Ameen Uddin Ammar Muhammad Shahid Muhammad Khitab Ahmed Munawar Khan Amir Khalid
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DOI: 10.3390/ma11030332
- Effect of heating on the structural and optical properties of TiO₂ nanoparticles: antibacterial activity** 2018
Wajid Rehman Mahfooz-ur-Rehman Muhammad Waseem Rehan Javed Sirajul Haq Muhammad Shahid
Applied Nanoscience , Volume 8, Issue 1-2, Pages 11-18
Impact Factor: 3.198 | **Quartile:** 2 | **Citations:** 62
DOI: 10.1007/s13204-018-0647-6
- Effect of multiple repair welding on mechanical performance and corrosion resistance of quenched and tempered 30CrMnSiA steel** 2017
Zeeshan Ahmad Muhammad Shahid Musharaf Abbas
Journal of the Brazilian Society of Mechanical Sciences and Engineering, Volume 39, Issue 4, Pages 1233-1243
Impact Factor: 1.627 | **Quartile:** 3 | **Citations:** 6
DOI: 10.1007/s40430-016-0535-5
- Photo-stability and photo-sensitizing characterization of selected sunscreens? ingredients** 2017
Abdul Rahman Abid Bronislaw Marciniak Tomasz Pedzinski Muhammad Shahid Abdul Rahman Abid Bronislaw Marciniak Tomasz Pedzinski
Journal of Photochemistry and Photobiology A: Chemistry, Volume 332, Pages 241-250
Impact Factor: 2.891 | **Quartile:** 2 | **Citations:** 49
DOI: <http://dx.doi.org/10.1016/j.jphotochem.2016.08.036>
- Strengthening and the Mechanism in Al-CNT nanocomposite Fabricated by Induction Melting** 2016
Muhammad Shahid Muhammad Mansoor
International Journal of Materials and Metallurgical Engineering, Vol.10, No.6, Pages 682-687
Impact Factor: 0
DOI: doi.org/10.52https://waset.org/publications/10004490/induction-melting-as-a-fabrication-route-for-aluminum-carbon-nanotubes-nanocomposite81/zenodo.1124427
- Adsorption of Cd²⁺ ions on plant mediated SnO₂ nanoparticles** 2016
Sirajul Haq Wajid Rehman Muhammad Waseem Muhammad Shahid Mahfooz-ur-Rehman Khizar Hussain Shah Mohsan Nawaz
Materials Research Express , Volume 3, Issue 10, Article Number 105019
Impact Factor: 1.068 | **Quartile:** 3 | **Citations:** 28
DOI: 10.1088/2053-1591/3/10/105019
- Microstructure and lifetime of EB-PVD TBCs with Hf-doped bond coat and Gd-zirconate ceramic top coat on CMSX-4 substrates** 2016
Ahmed Umar Munawar Uwe Schulz Muhammad Shahid
Surface and Coatings Technology, Volume 299, Pages 104-112
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DOI: 10.1016/j.surfcoat.2016.05.005
- Thermogravimetric, Differential Scanning Calorimetric and Experimental Thermal Transport Study of Functionalized Nanokaolinite Doped Elastomeric Nanocomposites** 2016
Sadia Sagar Iqbal Fawad Inam Nadeem Iqbal Tahir Jamil Arshad Bashir Mohammad Shahid
Journal of Thermal Analysis and Calorimetry, Volume: 125, Issue: 2 Pages: 871-880
Impact Factor: 1.953 | **Quartile:** 2 | **Citations:** 7
DOI: 10.1007/s10973-016-5486-7

Carbon nanotube-reinforced aluminum composite produced by induction melting <i>Muhammad Mansoor Muhammad Shahid</i> <i>Journal of Applied Research and Technology</i> , Volume 14, Issue 4, Pages 215-224 Impact Factor: - Citations: 105 DOI: doi:10.1016/j.jart.2016.05.002	2016
Cladding of Ni-20Cr Coatings by Optimizing the CO₂ Laser Parameters <i>M Mudassar Rauf Muhammad Shahid Yaseer A Durrani A Nusair Khan A Hussain R Akhter</i> <i>Arabian Journal for Science and Engineering</i> , Volume: 41 Issue: 6 Pages: 2353-2362 Impact Factor: 0.865 Quartile: 3 Citations: 9 DOI: 10.1007/s13369-015-1972-7	2016
Hot Corrosion of Yttria-Stabilized Zirconia Coating, in a Mixture of Sodium Sulfate and Vanadium Oxide at 950 degrees C <i>Imran Nazir Quresh Muhammad Shahid A. Nusair Khan</i> <i>Journal of Thermal Spray Technology</i> , Volume 25, Issue 3, Pages 567-579 Impact Factor: 1.488 Quartile: 2 Citations: 23 DOI: 10.1007/s11666-015-0374-4	2016
Evaluation of Titanium Nitride-Modified Bondcoat System Used in Thermal Barrier Coating in Corrosive Salts Environment at High Temperature <i>Imran Nazir Quresh Muhammad Shahid A. Nusair Khan Yaseer A. Durrani</i> <i>journal of thermal spray technology</i> , Volume 24, Issue 8, Pages 1520–1528 Impact Factor: 1.568 Quartile: 2 Citations: 2 DOI: 10.1007/s11666-015-0344-x	2015
Heat treatment of electrodeposited NiO films for improved catalytic water oxidation <i>Farhan Basharat U A Rana Muhammad Shahid M Serwar</i> <i>RCS Advances</i> , Volume 5, Issue 105, Pages 86713-86722 Impact Factor: 3.289 Quartile: 2 Citations: 48 DOI: 10.1039/c5ra17041a	2015
Negative Poisson's ratio behavior of idealized elastomeric auxetic cellular structures for various carbon black nanoparticles loadings <i>Muhammad Farhan Muhammad Shahid</i> <i>Journal of Elastomers & Plastics</i> , Journal of Elastomers & Plastics, Volume: 47 issue: 6, page(s): 479-487 Impact Factor: 1.833 Quartile: 4 Citations: 1 DOI: 10.1177/0095244314526736	2015
A Facile One-Step Method of Coating Aluminum on Multiwall Carbon Nanotubes <i>Muhammad Mansoor Muhammad Shahid</i> <i>Journal of Alloys and Compounds</i> , Volume 643, Pages 74-78 Impact Factor: 3.014 Quartile: 1 Citations: 10 DOI: 10.1016/j.jallcom.2015.03.262	2015
Laser Cladding to Improve Oxidation Behavior of Air Plasma-Sprayed Ni-20Cr Coating on Stainless Steel Substrate <i>K. Mehmood M Mudassar Rauf Muhammad Shahid A Nusair Khan</i> <i>Journal of Materials Engineering and Performance</i> , Volume 24, Issue 9, Pages 3651-3657 Impact Factor: 1.094 Quartile: 3 Citations: 3 DOI: 10.1007/s11665-015-1632-9	2015
Effect of Bondcoat Thickness on High Temperature Hot Corrosion of ZrO₂-8Y₂O₃ Thermal Barrier Coating <i>Imran Nazir Qureshi Muhammad Shahid A N Khan</i> <i>ACTA Physica Polonica A</i> , Volume 128, Issue 2B, Pages B314-B316 Impact Factor: 0.525 Quartile: 4 Citations: 10 DOI: 10.12693/APhysPolA.128.B-314	2015
Fractographic Evaluation of Crack Initiation and Growth in Al-CNTs Nanocomposite Fabricated by Induction Melting <i>Muhammad Mansoor Muhammad Shahid</i> <i>ACTA Physica Polonica A</i> , Volume 128, Issue 2B, Pages B276-B278 Impact Factor: 0.525 Quartile: 4 Citations: 11 DOI: 10.12693/APhysPolA.128.B-276	2015

Tribological Properties of MWCNTs Strengthened Aluminum Composite Fabricated by Induction Melting <i>Muhammad Mansoor Muhammad Shahid</i> <i>Advanced Materials Research</i> , Volume 1101, Pages 62-65 Impact Factor: - DOI: doi:10.4028/www.scientific.net/AMR.1101.62	2015
Effect of Na2SO4-V2O5 Mixture on Y2O3 Stabilized ZrO2 Thermal Barrier Coatings Exposed at High Temperature <i>Imran Nazir Qureshi A. Nusair Khan Imran Nazir Qureshi Muhammad Shahid A. Nusair Khan</i> <i>Advanced Materials Research</i> , Volume 1101, Pages 423-427 Impact Factor: - DOI: doi:10.4028/www.scientific.net/AMR.1101.423	2015
On the designing, efficiency and stirring force of an induction coil for the processing of prototype Al based nanocomposites <i>Muhammad Mansoor Muhammad Shahid</i> <i>Journal of Metallurgy</i> , Volume 2014, Article ID 637031, 6 pages Impact Factor: 0 DOI: 10.1155/2014/637031	2014
Synthesis of carboxymethyl cellulose from waste of cotton ginning industry <i>Noor Haleem Muhammad Shahid Muhammad Ashraf Tahir Muhammad Arshad</i> <i>Carbohydrate Polymers</i> , Volume: 113, Pages: 249-255 Impact Factor: 4.074 Quartile: 1 Citations: 147 DOI: 10.1016/j.carbpol.2014.07.023	2014
Strengthening of Bisphenol-A Epoxy Resin by the Addition of Multi-Wall Carbon Nanotubes <i>Muhammad Mansoor Muhammad Shahid Amir Habib</i> <i>Arabian Journal for Science and Engineering</i> , Volume 39 Issue 8 Pages 6411-6420 Impact Factor: N/A Citations: 4 DOI: 10.1007/s13369-014-1290-5	2014
Optimization of ethanol flow rate for improved catalytic activity of Ni particles to synthesize MWCNTs using a CVD reactor <i>Muhammad Mansoor Muhammad Shahid Amir Habib</i> <i>Materials Research-IBERO-American Journal of Materials</i> , MATERIALS RESEARCH-IBERO-AMERICAN JOURNAL OF MATERIALS Volume: 17 Issue: 3 Pages: 739-746, June 2014 Impact Factor: 0.793 Quartile: 4 Citations: 8 DOI: 10.1590/S1516-14392014005000070	2014
Fabrication and thermal characteristics of functionalized carbon nanotubes impregnated polydimethylsiloxane nanocomposites <i>Sadia Sagar Nadeem Iqbal Asghari Maqsood Muhammad Shahid Nazar Abbas Shah Tahir Jamil Mohamed Ismail Bassyouni</i> <i>Journal of Composite Materials</i> , Volume 49 Issue 8 Pages 995-1006 Impact Factor: 1.173 Quartile: 2 Citations: 32 DOI: 10.1177/0021998314528733	2014
Structural, Viscoelastic, and Vulcanization Study of Sponge Ethylene?Propylene?Diene Monomer Composites with Various Carbon Black Loadings <i>M Arshad Bashir Nadeem Iqbal Muhammad Shahid Quratulain Riaz Ahmed</i> <i>Journal of Applied Polymer Science</i> , Volume 131 Issue 1 Article Number 39423 Impact Factor: 1.768 Quartile: 2 Citations: 18 DOI: 10.1002/app.39423	2014
Carbon Nanotube/nanodiamond Reinforced Carbon Fiber Epoxy Matrix Composites ? Processing and Characterization <i>U Farooq A A Khurram M S Khan S A Rakha N Ali Muhammad Shahid A Munir T Subhani</i> <i>NUST Journal of Engineering Sciences</i> , Volume 6, Issue 1 Impact Factor: 0 DOI: -	2013
Synthesis of Laser Beam Rapidly Solidified Novel Surfaces on D2 Tool Steel <i>B.A. Ahmed K.F. Rizwan Jafar A. Minhas Syed Waheed-ul-Haq M. Shahid</i>	2012

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Effect of current on substrates? stability in LIPAA (laser induced plasma assisted ablation) process

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Muhammad Shahid Muhammad Faisal

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M Shahid
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- Corrosion study of API 5L X-series pipeline steels in 3.5% NaCl solution under varying environments** 2003
M Shahid M I Qureshi M U Farooq M I Khan
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- Characterization of ceramic-reinforced epoxy-based composite materials** 1997
A Quddos M Shahid S zulfiqar
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