

Azhar Mahmood

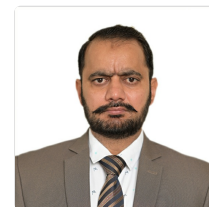
Professor

School of Natural Sciences

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LinkedIn:



About

Dr. Azhar Mahmood is working as Professor in the School of Natural Sciences. Dr. Azhar Mahmood has a PhD in Organic Chemistry. Dr. Azhar Mahmood has published 63 research articles & conference papers having a citation count of 611, carried out 3 projects and filed 3 intellectual property.

Qualifications

PhD in Organic Chemistry University of Karachi , Pakistan	2005 - 2010
MSc in Organic Chemistry University of Karachi , Pakistan	2002 - 2002
B.Sc (Hon) in Chemistry University of Karachi , Pakistan	1999 - 2001

Experience

Professor School of Natural Sciences	2021- Present
Associate Professor School of Natural Sciences	2016 - 2021
Associate Professor Pakistan Navy Engineering College	2016 - 2016
Assistant Professor Pakistan Navy Engineering College	2012- Present
Assistant Professor Pakistan Navy Engineering College	2011 - 2012
Lecturer Pakistan Navy Engineering College	2008 - 2011
Professor SNS NUST , NUST, H-12, Islamabad	2021 - 2022
Assoicate Professor SNS , H-12	2016 - 2021
Assistant Professor PNEC NUST , PNEC NUST Karachi	2011 - 2016
lecturer PNEC NUST , PNEC-NUST Karachi	2008 - 2011
Instructor PNEC , Habib Ibrahim RehmatulALLAH Road Karsaz Karachi	2005 - 2008

Awards

RPA COMKAR research publication award (2015)	2015
Letter of Commendation Letter of Commendation from Rear Admiral Syed Imdad Imam Jaffri SI(M) on account of study conducted on 'Marine corrosion and its prevention in Pakistan Navy' (2013).	2013

Research Projects

National Projects

Development of Corrosion Inhibitor Product (CorroNust) For Oil Exploration and Transportation Installations

Funding Agency: HEC
Amount: PKR 16,960,000.00
Status: Approved_inprocess

Industrial Scale Development of Waterproof Cum Heat Resistant, Montmorillonite Clay Modified High-pressure Plywood Composite (NustoPak Wood) from Renewable-Nonedible Agricultural Wastes

Funding Agency: TTSTF
Amount: PKR 8,121,000.00
Status: Completed

Synthesis of Nano-Green Corrosion and Fouling Inhibitors from Prunus Domestica Linn Extract and their Applications for Corrosion Resistant Cum Antifouling Coatings

Funding Agency: HEC
Amount: PKR 11,978,848.00
Status: Completed

International Projects

Research Articles

Spatial Non-Targeted Screening and Machine Learning-Based Risk Assessment of Organic Pollutants in Honey from Bhakkar District, Pakistan

Mahnoor Baloch Syed Kumail Hussain Naqvi Khurram Shahzad Khaled Chawraba Tahir Mehmood Azhar Mahmood Sang Hyun Park Abrar Hussain
Journal of Environmental Chemical Engineering, Volume 13, Issue 5, Article Number 118509
Impact Factor: 7.200 | **Quartile:** 1
DOI: <https://doi.org/10.1016/j.jece.2025.118509>

Unveiling the antistatic, anticancer and antibacterial properties of boron nitride and ionic liquid blended polyurethane elastomer films

Aroosa Farooq Musammir Khan Samra Farooq Azhar Mahmood Aneela Javed Aamra Imtiaz Anwar Khan Khadija Munawar
Materials Chemistry and Physics, Volume 346, 131413
Impact Factor: 4.700 | **Quartile:** 2
DOI: <https://doi.org/10.1016/j.matchemphys.2025.131413>

Facile synthesis and electrochemical study of NiO-Cr2O3/carbon nanotubes/polyaniline hybrid as a high-performance supercapattery electrode material

Anna Khalid Azhar Mahmood Arshid Numan Mohammad Khalid Mudassir Iqbal Muhammad Adil Mansoor
Journal of Alloys and Compounds, Volume 1031, Article Number 181009
Impact Factor: 5.800 | **Quartile:** 1
DOI: <https://doi.org/10.1016/j.jallcom.2025.181009>

Unravelling the role of non-covalent interactions using imidazolium and amino acid based organic salts for efficient CO2capture: Experimental, DFT and COSMO-RS explorations

Hira Karim Sabahat Sardar Asad Mumtaz Anila Tabassum Muhammad Arfan Azhar Mahmood Jean-Marc Leveque Cecilia Devi Wilfred Syed Farooq Adil Mohammad Rafe Hatshan Mujeeb Khan
Journal of Environmental Chemical Engineering, Volume:13, Issue:3, Article Number 116237
Impact Factor: 7.400 | **Quartile:** 1 | **Citations:** 1
DOI: [10.1016/j.jece.2025.116237](https://doi.org/10.1016/j.jece.2025.116237)

TiO2 nano-filler and ionic liquid-blended polyurethane elastomer films for enhanced antistatic applications

Aroosa Farooq Azhar Mahmood Musammir Khan

Ultrafiltration polyanionic poly (3-sulfopropyl methacrylate) membranes with enhanced antifouling and water flux

2024

Raja Muhammad Asif Khan Habib Nasir Azhar Mahmood Mudassir Iqbal Hussnain A. Janjua Nasir Mahmood Ahmad

Polymers Advanced Technologies , Volume 35, Issue 3, Article Number e6350

Impact Factor: 3.100 | Quartile: 2 | Citations: 1

DOI: <https://doi.org/10.1002/pat.6350>

Development of Waterproof Cum Heat Resistant, Montmorillonite Clay Modified High-Pressure Plywood Composite from Renewable-Nonedible Agricultural Wastes – An Industrial Case Study of ‘Flask to Reactor’ Approach

2023

Muhammad Akram Muhammad Zeeshan Asad Syeda Mahnoor Zehra Aroosa Farooq Azhar Mahmood Muhammad Arfan Syed Tasweer Hussain Shah

Pakistan Journal of Chemistry , Vol:13(3-4), page:81-87

Impact Factor: 0

DOI: 10.15228/2022.v13.i03-4.p03

Phenol-Furfural Resin/Graphite/Ag Based Electrically Conductive Adhesive Composites from Waste Bagasse with Enhanced Thermo-Electric Properties

2023

Syeda Mahnoor Zehra Maryam Bibi Azhar Mahmood Abraiz Khattak Muhammad Zeeshan Asad Syeda Hijab Zehra

Polymers , Volume 15(15), 3283

Impact Factor: 5.0 | Quartile: 1

DOI: <https://doi.org/10.3390/polyxxx>

Antifouling and Water Flux Enhancement in Polyethersulfone Ultrafiltration Membranes by Incorporating Water-Soluble Cationic Polymer of Poly [2-(Dimethyl amino) ethyl Methacrylate]

2023

Raja Muhammad Asif Khan Nasir Mahmood Ahmad Habib Nasir Azhar Mahmood Mudassir Iqbal Hussnain Ahmed Janjua

Polymers , Volume 15(13), Article Number 2868

Impact Factor: 5.0 | Quartile: 1 | Citations: 11

DOI: <https://doi.org/10.3390/polym15132868>

Probing the behavior and kinetic studies of amphiphilic acrylate copolymers with bovine serum albumin

2023

Shehla Mushtaq Muhammad Asad Abbas Habib Nasir Azhar Mahmood Mudassir Iqbal Hussnain Ahmed Janjua Nasir Mahmood Ahmad

Scientific Reports , Volume: 13, Issue: 1, Article number: 4572

Impact Factor: 4.997 | Quartile: 2 | Citations: 6

DOI: 10.1038/s41598-023-27515-5

TiO₂/g-C₃N₄ Binary Composite as an Efficient Photocatalyst for Biodiesel Production from Jatropha Oil and Dye Degradation

2023

Abdul Basit Naveed Aftab Javaid Adeel Zia Muhammad Tayyab Ishaq Muhammad Amin Zia Ur Rahman Farooqi Azhar Mahmood

ACS Omega , Volume 8(2), Pages 2173-2182

Impact Factor: 4.132 | Quartile: 2

DOI: <https://doi.org/10.1021/acsomega.2c048412c04841>

A bioresource catalyst system of alginate-starch-activated carbon microsphere templated Cu nanoparticles: Potentials in nitroarenes hydrogenation and dyes discoloration

2022

Kaleem Ullah Salam Khan Musa Khan Zia Ur Rahman Youssef O. Al-Ghamdi Azhar Mahmood Shah Hussain Sher Bahadar Khan Shahid Ali Khan

International Journal of Biological Macromolecules , Volume 222, Part A, Pages 887-901

Impact Factor: 8.025 | Quartile: 1 | Citations: 24

DOI: 10.1016/j.ijbiomac.2022.09.226

Graphite coatings for biomedical implants: A focus on anti-thrombosis and corrosion resistance properties

2022

Sadia Hassan Aroosa Younis Nadeem Muhammad Ali Murtaza Najabat Ali Muhammad Bilal Khan Niazi Azhar Mahmood

Materials Chemistry and Physics , Volume 290, Article Number 126562

Impact Factor: 4.6 | Quartile: 2 | Citations: 13

DOI: 10.1016/j.matchemphys.2022.126562

Facile Synthesis of ZnSe/Co₃O₄ Heterostructure Nanocomposites for the Photocatalytic Degradation of Congo Red Dye

2022

Adeel Zia Abdul Basit Naveed Aftab Javaid Muhammad Fahad Ehsan Azhar Mahmood

Catalysts , Volume:12, Issue:10, Article Number:1184

Impact Factor: 4.501 Quartile: 2 Citations: 10 DOI: 10.3390/catal12101184	
Exploring the role of octanol-water partition coefficient and Henry's law constant in predicting the lipid-water partition coefficients of organic chemicals <i>Muhammad Irfan Khawar Azhar Mahmood Deedar Nabi (corresponding)</i> <i>Scientific Reports</i> , Volume 12, Issue 1, Article Number 14936 Impact Factor: 4.996 Quartile: 2 Citations: 7 DOI: 10.1038/s41598-022-19452-6	2022
Layer-By-Layer Self-Assembled Dip Coating for Antifouling Functionalized Finishing of Cotton Textile <i>Sana Javaid Azhar Mahmood Habib Nasir Mudassir Iqbal Naveed Ahmed Nasir Mahmood Ahmad</i> <i>Polymers</i> , Volume 14, Issue 13, Article Number 2540 Impact Factor: 4.967 Quartile: 1 Citations: 16 DOI: doi.org/10.3390/POLYM14132540	2022
Water Treatment Using High Performance Antifouling Ultrafiltration Polyether Sulfone Membranes Incorporated with Activated Carbon <i>Zubia Abid Asad Abbas Azhar Mahmood Nosheen Fatima Rana Sher Jamal Khan Laurent Duclaux Kashif Mairaj Deen Nasir Mahmood Ahmad</i> <i>Polymers</i> , Volume 14, Issue 11, Article Number 2264 Impact Factor: 4.967 Quartile: 1 Citations: 8 DOI: https://doi.org/10.3390/polym14112264	2022
Amphiphilic copolymers of dimethyl aminoethyl methacrylate and methyl methacrylate with controlled hydrophilicity for antialgal activity <i>Shehla Mushtaq Muhammad Asad Abbas Habib Nasir Azhar Mahmood Mudassir Iqbal Hussnain Ahmed Janjua Qamar Malik Nasir Mahmood Ahmad</i> <i>Journal of Applied Polymer Science</i> , Volume 139, Issue 5, Article Number 51578 Impact Factor: 3.0 Quartile: 2 Citations: 4 DOI: https://doi.org/10.1002/app.51578	2022
Antialgal Synergistic Polystyrene Blended with Polyethylene Glycol and Silver Sulfadiazine for Healthcare Applications <i>M. Raheel Anjum Shehla Mushtaq M. Asad Abbas Azhar Mahmood Habib Nasir Hussnain Ahmed Janjua Qamar Malik Nasir Mahmood Ahmad</i> <i>Advances in Polymer Technology</i> , Volume 2021, Article ID 6627736, 9 pages Impact Factor: 2.389 Quartile: 3 Citations: 1 DOI: https://doi.org/10.1155/2021/6627736	2021
Impedance Spectroscopy Analysis of PbSe Nanostructures Deposited by Aerosol Assisted Chemical Vapor Deposition Approach <i>Sadia Iram Azhar Mahmood Muhammad Fahad Ehsan Asad Mumtaz Manzar Sohail Effat Sitara Shehla Mushtaq Mohammad Azad Malik Syeda Arooj Fatima Rubina Shaheen Nasir Mahmood Ahmad Sajid Nawaz Malik</i> <i>Nanomaterials</i> , Volume 11(11), Article Number 2817 Impact Factor: 5.719 Quartile: 1 Citations: 4 DOI: 10.3390/nano11112817	2021
Hybrid Beads of Zero Valent Iron Oxide Nanoparticles and Chitosan for Removal of Arsenic in Contaminated Water <i>Mian Fawaz Ahmed Muhammad Asad Abbas Azhar Mahmood Nasir Mahmood Ahmad Hifza Rasheed Muhammad Abdul Qadir Asad Ullah Khan Hazim Qiblawey Shenmin Zhu Rehan Sadiq Niaz Ali Khan</i> <i>Water</i> , Volume 13(20), Article Number 2876 Impact Factor: 3.103 Quartile: 2 Citations: 10 DOI: 10.3390/w13202876	2021
A Facile Synthesis of Bi2O3/CoFe2O4 Nanocomposite with Improved Synergistic Photocatalytic Potential for Dye Degradation <i>Abdul Basit Naveed Fakhira Riaz Azhar Mahmood Ammara Shahid Saman Aqeel</i> <i>Catalysts</i> , Volume:11, Issue:10, Article Number: 1180 Impact Factor: 4.501 Quartile: 2 Citations: 14 DOI: 10.3390/catal11101180	2021
Corrosion Resistance Synergistic Appraisal of Titanium-Impregnated Bisphenol A-Type Epoxy Duplex Coating System in Stimulated and Natural Marine Environments of Southeastern Coastal Area of China–Pakistan Economic Corridor <i>Ishrat Jamil Humaira Bano Vinod C. Malshe Azhar Mahmood Kamran Khan Nasir Mahmood Ahmad</i> <i>Advances in Polymer Technology</i> , Volume 2021, Article ID 9910969, 11 pages	2021

Impact Factor: 2.389 Quartile: 3 DOI: 10.1155/2021/9910969	
Cefotaxime Loaded Polycaprolactone Based Polymeric Nanoparticles with Antifouling Properties for In-Vitro Drug Release Applications <i>Sana Javaid Nasir Mahmood Ahmad Azhar Mahmood Habib Nasir Mudassir Iqbal Naveed Ahmad Sundus Irshad</i> <i>Polymers</i> , Volume 13(13), Article Number 2180 Impact Factor: 4.329 Quartile: 1 Citations: 29 DOI: https://doi.org/10.3390/polym13132180	2021
Investigation of Hydrothermally Stressed Silicone Rubber/Silica Micro and Nanocomposite for the Coating of High Voltage Insulation Applications <i>Faiza Abraiz Khattak Safi Ullah Butt Kashif Imran Abasin Ulasyar Asghar Ali Zuhair Subhani Khan Azhar Mahmood Nasim Ullah Ahmad Aziz Alahmadi Adam Khan</i> <i>Materials</i> , Volume 14(13), Article Number 3567 Impact Factor: 3.748 Quartile: 1 Citations: 12 DOI: https://doi.org/10.3390/ma14133567	2021
Multi-Stressed Nano and Micro-Silica/Silicone Rubber Composites with Improved Dielectric and High-Voltage Insulation Properties <i>Faiza Abraiz Khattak Aqeel Ur Rehman Asghar Ali Azhar Mahmood Kashif Imran Abasin Ulasyar Haris Shehzad Nasim Ullah Adam Khan</i> <i>Polymers</i> , Volume 13(9), Article Number 1400 Impact Factor: 4.329 Quartile: 1 Citations: 18 DOI: https://doi.org/10.3390/polym13091400	2021
Impedance Spectroscopic Study of Nickel Sulfide Nanostructures Deposited by Aerosol Assisted Chemical Vapor Deposition Technique <i>Sadia Iram Azhar Mahmood Asad Mumtaz Manzar Sohail Effat Sitara Syeda Aqsa Batool Bukhari Sumia Gul Syeda Arooj Fatima Muhammad Zarrar Khan Rubina Shaheen Sajid Nawaz Malik Mohammad Azad Malik Muhammad Fahad Ehsan</i> <i>Nanomaterials</i> , Volume 11(5), Article Number 1105 Impact Factor: 5.076 Quartile: 1 Citations: 4 DOI: https://doi.org/10.3390/nano11051105	2021
Antibacterial Amphiphilic Copolymers of Dimethylamino Ethyl Methacrylate and Methyl Methacrylate to Control Biofilm Adhesion for Antifouling Applications <i>Shehla Mushtaq Nasir M. Ahmad Azhar Mahmood Mudassir Iqbal</i> <i>Polymers</i> , Volume 13(2), Article Number 216 Impact Factor: 4.329 Quartile: 1 Citations: 23 DOI: https://doi.org/10.3390/polym13020216	2021
Transpicuous-Cum-Fouling Resistant Copolymers of 3-Sulfopropyl Methacrylate and Methyl Methacrylate for Optonics Applications in Aquatic Medium and Healthcare <i>Shehla Mushtaq Nasir M. Ahmad Azhar Mahmood Shehla Mushtaq Habib Nasir Hussnain A. Janjua</i> <i>Advances in Polymer Technology</i> , Volume 2020, Article ID 5392074, 11 pages Impact Factor: 2.389 Quartile: 3 Citations: 14 DOI: https://doi.org/10.1155/2020/5392074	2020
Starch-Capped Silver Nanoparticles Impregnated into Propylamine-Substituted PVA Films with Improved Antibacterial and Mechanical Properties for Wound-Bandage Applications <i>Mudassir Iqbal Hadia Zafar Azhar Mahmood Muhammad Bilal Khan Niazi Muhammad Waqar Aslam</i> <i>Polymers</i> , Volume 12(9), Article Number 2112 Impact Factor: 4.329 Quartile: 1 Citations: 24 DOI: 10.3390/polym12092112	2020
Nanostructured Lead Sulphide Depositions by AACVD Technique Using Bis(Isobutylidithiophosphinato)Lead(II) Complex as Single Source Precursor and Its Impedance Study <i>Sadia Iram Azhar Mahmood Effat Sitara Syeda Aqsa Batool Bukhari Syeda Arooj Fatima Rubina Shaheen Mohammad Azad Malik</i> <i>Nanomaterials</i> , Volume 10, Issue 8 , Article Number 1438 Impact Factor: 5.076 Quartile: 2 Citations: 4 DOI: 10.3390/nano10081438	2020
Physicochemical studies of galvanized steel corrosion in urban, industrial, and marine environments, and corrosion mapping of Karachi city: An important coastal city of the 21st-century modern maritime silk route <i>Faiza Zafar Humaira Bano Azhar Mahmood Francisco Corvo Joelis Rodriguez</i>	2020

<i>Materials and Corrosion</i> , Pages 1-18	
Impact Factor: 2.097 Quartile: 3 Citations: 3	
DOI: https://doi.org/10.1002/maco.202011872	
Phenol-Furfural Resin/Montmorillonite Based High-Pressure Green Composite from Renewable Feedstock (<i>Saccharum munja</i>) with Improved Thermo-Mechanical Properties	2020
<i>Azhar Mahmood Syed Tasweer Hussain Shah Zeeshan Asad</i>	
<i>Polymers</i> , Volume 12(7), Article Number 1562	
Impact Factor: 4.329 Quartile: 1 Citations: 11	
DOI: https://doi.org/10.3390/polym12071562	
Physicochemical studies of mild steel corrosion and atmospheric corrosivity mapping of Karachi: An important harbor city of modern Maritime Silk Route	2020
<i>Faiza Zafar Humaira Bano Azhar Mahmood Francisco Corvo Joelis Rodriguez</i>	
<i>Materials and Corrosion</i> , Pages 1-19	
Impact Factor: 2.097 Quartile: 3 Citations: 9	
DOI: 10.1002/maco.202011793	
Atmospheric corrosion kinetics and dynamics of electrogalvanized mild steel in southeastern coastal area of China–Pakistan Economic Corridor	2020
<i>Ishrat Jamil Humaira Bano Juan G. Castano Faiza Zafar Azhar Mahmood</i>	
<i>Materials and Corrosion</i> , Pages 1–10	
Impact Factor: 2.097 Quartile: 3 Citations: 9	
DOI: 10.1002/maco.202011679	
MoO3 Nanobelts Embedded Polypyrrole/SIS Copolymer Blends for Improved Electro-Mechanical Dual Applications	2020
<i>Arslan Umer Faroha Liaqat Azhar Mahmood</i>	
<i>Polymers</i> , Volume 12, Issue 2 , Article Number 353	
Impact Factor: 4.329 Quartile: 1 Citations: 23	
DOI: 10.3390/polym12020353	
Phytochemical Screening of Volatile Constituents from Aerial Parts of <i>Murraya paniculata</i>	2019
<i>Shazia Shah Sumayya Saied Azhar Mahmood Abdul Malik</i>	
<i>Pakistan Journal of Botany</i> , Volume 46, Issue 6, Pages 2051-2056	
Impact Factor: 0.800 Quartile: 4	
DOI: -	
Purunosides A-C, alpha-Glucosidase Inhibitory Homoisoflavone Glucosides from <i>Prunus domestica</i>	2019
<i>Shaheen Kosar Itrat Fatima2 Azhar Mahmood Rehana Ahmed Abdul Malik Muhammad Iqbal Chouhdary</i>	
<i>ARCHIVES OF PHARMACAL RESEARCH</i> , Volume: 32 Issue: 12 Pages: 1705-1710	
Impact Factor: 2.934 Quartile: 2 Citations: 15	
DOI: 10.1007/s12272-009-2207-9	
Atmospheric corrosion patterns of electrogalvanized mild steel at east southern coastal areas of CPEC	2018
<i>Faiza Zafar Juan G. Castano Ishrat Jamil Humaira Bano Azhar Mahmood</i>	
<i>MATERIALS AND CORROSION-WERKSTOFFE UND KORROSION</i> , Volume: 69 Issue: 12 Pages: 1870-1878	
Impact Factor: 1.458 Quartile: 2 Citations: 10	
DOI: 10.1002/maco.201810208	
Characterization of atmospheric corrosion near the coastal areas of Arabian Sea	2017
<i>Humaira Bano Juan G. Castano Ishrat Jamil Azhar Mahmood</i>	
<i>Materials and Corrosion</i> , NULL	
Impact Factor: 1.259 Quartile: 2 Citations: 12	
DOI: 10.1002/maco.201709924	
Atmospheric Corrosion Resistance of Epoxy Duplex Coated Electrogalvanized Steel Exposed in Marine, Industrial and Urban Sites at Pakistan	2017
<i>Humaira Bano Azhar Mahmood Syed Arif Kazmi</i>	
<i>Journal of the Chemical Society of Pakistan</i> , Volume 39, No. 04, Pages 560-571	
Impact Factor: 0.28 Quartile: 4	
DOI: https://www.jcsp.org.pk/PublishedVersion/2bc04ffe-5cdc-4b14-a915-439528e57930Manuscript%20no%209,%20Final%20Gally%20Proof%20of%2011244%20(Humaira%20Bano).pdf	

<p>Quantitative evaluation of bioaccumulating toxic and essential metals in vegetables procured from local markets of Pakistan and their public health risk assessment</p> <p><i>H. Bano A. Mahmood F. Zafar</i></p> <p><i>Journal of Animal and Plant Sciences</i>, Volume 26, Issue 6, Pages 1805-1812</p> <p>Impact Factor: 0.381 Quartile: 4</p> <p>DOI: -</p>	2016
<p>Corrosion Resistance Synergistic Performance of Alkyd Based Triplex Coating System Impregnated with Fe, Zn, Cr and Ti based Corrosion Inhibitors</p> <p><i>Humaira Bano Azhar Mahmood Syed Arif Kazmi</i></p> <p><i>Journal of the Chemical Society of Pakistan</i>, Volume 38, Issue 1, Pages 43-55</p> <p>Impact Factor: 0.327 Quartile: 4</p> <p>DOI: -</p>	2016
<p>Relative Risk Estimation of HIV/AIDS among Different Major Cities of Pakistan</p> <p><i>Syed Rizwan Ul Haq Tirmizi Nasiruddin Khan Azhar Mahmood</i></p> <p><i>International Journal of Advanced Research</i>, Volume 3, Issue 4, 911-919</p> <p>Impact Factor: 0</p> <p>DOI: -</p>	2015
<p>Comparative Study of Zinc, Managanese and Calcium in Commercially available Milk Sample</p> <p><i>Humaira Bano Noor Ul Ain Azhar Mahmood</i></p> <p><i>International Journal of Advanced Research</i>, Volume 3, Issue 3, 982-993</p> <p>Impact Factor: 0</p> <p>DOI: -</p>	2015
<p>Corrosion Restraint Synergism Evaluation of Polyurethane Duplex Coating System: A Case Study for Various Anthropogenic and Metropolitan Sites of Karachi City</p> <p><i>Humaira Bano Azhar Mahmood Mazher Islam Khan Syed Arif Kazmi</i></p> <p><i>Journal of the Chemical Society of Pakistan</i>, Vol.37, Issue 1, Pages 162-172</p> <p>Impact Factor: 0.276 Quartile: 4</p> <p>DOI: -</p>	2015
<p>Atmospheric Corrosion Kinetics and Dynamics of Karachi Onshore Areas</p> <p><i>Mazher Islam Khan Humaira Bano Hamida Tabassum Seema Khan Azhar Mahmood Syed Arif Kazmi</i></p> <p><i>Journal of the Chemical Society of Pakistan</i>, Volume 37, Issue 1, Pages 179-189</p> <p>Impact Factor: 0.276 Quartile: 4</p>	2015
<p>Spatial Evaluation of Preservability of Mild Steel by Coal Tar Epoxy Coatings Via Spectroscopic and Microscopic Techniques</p> <p><i>Humaira Bano Azhar Mahmood Mazher Islam Khan Syed Arif Kazmi</i></p> <p><i>Arabian Journal for Science and Engineering</i>, Volume 40, Issue 1, Pages 117-124</p> <p>Impact Factor: 0.728 Quartile: 3 Citations: 7</p> <p>DOI: 10.1007/s13369-014-1509-5</p>	2015
<p>Synergistic Corrosion Mitigation Appraisal of Coal Tar Epoxy Duplex Coating System by Spectroscopic and Microscopic Techniques</p> <p><i>Humaira Bano Azhar Mahmood Mazher Islam Khan Syed Arif Kazmi</i></p> <p><i>Arabian Journal for Science and Engineering</i>, Volume 39, Issue 9, Pages 6783-6791</p> <p>Impact Factor: N/A Citations: 8</p> <p>DOI: 10.1007/s13369-014-1236-y</p>	2014
<p>Corrosion Audit - An Emerging Obligation for Engineering Installations</p> <p><i>Azhar Mahmood</i></p> <p><i>Energo Steel Journal Pakistan</i>, Volume 3, Issue 1, Pages 52-55</p> <p>Impact Factor: 0</p> <p>DOI: -</p>	2014
<p>Flavonoids of Prunus armeniaca and their Antibacterial Studies</p> <p><i>Fahima Rashid Azhar Mahmood Rehana Afzal Abdul malik</i></p> <p><i>Journal of the Chemical Society of Pakistan</i>, Volume 35, Issue 3, Pages 905-910</p> <p>Impact Factor: 0.612 Quartile: 4</p> <p>DOI: -</p>	2013

Prudomestisides A and B, New Flavonoidal Glucosides from Prunus domestica and their Antioxidant Activity	2013
<i>Shaheen Kosar Azhar Mahmood Rehana Ifzal Abdul Malik Fatima Baloch</i> <i>Journal of the Chemical Society of Pakistan</i> , Volume 35, Issue 1, Pages 169-174	
Impact Factor: 0.612 Quartile: 4 DOI: -	
Analysis and Phytotoxicity of Oily Fraction of Aerial Parts of Cichorium intybus	2012
<i>Shahzia Shah Azhar Mahmood Sumayya Saeed Abdul Malik</i> <i>Journal of the Chemical Society of Pakistan</i> , Volume 34, Issue 6, Pages 1464-1467	
Impact Factor: N/A	
Structural determination of prunusins A and B, new C-alkylated flavonoids from Prunus domestica, by 1D and 2D NMR spectroscopy	2010
<i>Azhar Mahmood Itrat Fatima Shaheen Kosar Rehana Ahmed Abdul Malik</i> <i>Magnetic Resonance in Chemistry</i> , Volume 48, Issue 2, Pages 151-154	
Impact Factor: 1.247 Quartile: 3 Citations: 7 DOI: 10.1002/mrc.2540	
Phytochemical Screening and Biological Activities of the Oil Components of Prunus Domestica Linn	2009
<i>Azhar Mahmood Rehana Ahmed Shaheen Kosar</i> <i>Journal of Saudi Chemical Society</i> , Volume 13, Issue 3, Pages 273-277	
Impact Factor: 0 Citations: 33 DOI: 10.1016/j.jscs.2009.10.008	
Insecticidal & Antifungal activities of the seed Kernel of Prunus domestica Linn	2007
<i>Rehana Ahmed Azhar Mahmood Fahima Rashid Zaheer Ahmed Zobia Naseer Shaheen Kosar Muhammad Nadir Rehana Ahmed Fahima Rashid Zaheer Ahmed Zobia Naseer Shaheen Kosar Muhammad Nadir Rehana Ahmed Fahima Rashid Zaheer Ahmed Zobia Naseer Shaheen Kosar Muhammad Nadir</i> <i>Journal of Tropical Medicinal Plants</i> , Volume 8, No.2, Pages 248-255	
Impact Factor: 0 DOI: Not available	
Butyrylcholinesterase Inhibitory Triterpenes from Salsola baryosma	2007
<i>Z. Ahmad S. Mehmood R. Iftal A. Malik N. Afka F. Rashid A. Mahmood L. Iqbal</i> <i>Polish Journal Of Chemistry</i> , Volume 81, Issue 8, Pages 1427-1432	
Impact Factor: 0.483 Quartile: 4 DOI: -	
Flavonoid Glycosides from Prunus armeniaca and the Antibacterial Activity of a Crude Extract	2007
<i>Zaheer Ahmad Nazia Bibi Shahana Urooj Kazmi Fahima Rashid Rehana Ahmed Azhar Mahmood</i> <i>Archives of Pharmacal Research</i> , Volume 30, Issue 8, Pages 932-937	
Impact Factor: 1.085 Quartile: 3 Citations: 37 DOI: 10.1007/BF02993959	
Chemical constituents of seed (kernel) of Prunus domestica and their insecticidal and antifungal activities	2007
<i>Fahima Rashid Zaheer Ahmad Muhmmad Nadir Zobia Naseer Shaheen Kosar Rehana Ahmed Azhar Mahmood</i> <i>Journal of Saudi Chemical Society</i> , Volume 11, Issue 1, Pages 121-130	
Impact Factor: 0 DOI: -	
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Patents

A Novel NiFe2O4/g-C3N4/ZnO Heterogeneous Photocatalytic Nanocomposite Ternary Material for Dual Applications in Energy and Environment	2020
Status: Filed	
Manufacturing of Green Plywood with Improved Properties from Renewable Feedstocks (Saccharum munja and Peanut Shells)	2019
Status: Filed	
A Facile, Green and Efficient Method for Extraction of Furfural from Renewable Feedstocks	2019
Status: Filed	

Industrial Designs

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