

**Dr. NAUMAN ALI**

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**EDUCATIONAL QUALIFICATION:**

➤ **M.Phil. Research Topic:**

- Influence of structural changes of diamine ligands on the biological activity of complexes.

➤ **Ph.D. Research topic: Korea Research Foundation (KRF-2007521-D00125).**

Morphology control of PS-b-P4VP by solvent mixture systems and functionalization with gold and Disperse Red 1

- **Teaching Experience:** Working as Assistant professor from **16th feb 2010** to 9 may 2022, Associate professor in the institute of chemical science, University of Peshawar **9<sup>th</sup> may 2022 to date.**

- **Editorial Board Members** for Discover Applied Sciences

<https://link.springer.com/journal/42452/editorial-board>

- **Webofscience id** <https://www.webofscience.com/wos/author/record/K-9140-2019>

- **Google Scholar id**

[https://scholar.google.com/citations?hl=en&user=ux\\_CAXcAAAAJ&view\\_op=list\\_works&sortby=pubdate](https://scholar.google.com/citations?hl=en&user=ux_CAXcAAAAJ&view_op=list_works&sortby=pubdate)

- **Research gate**

<https://www.researchgate.net/profile/Nauman-Ali>

**PUBLICATIONS:**

|    | <b>Paper title journal name</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>Year</b> |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| 1. | Catalytic oxidation of volatile organic compounds: A review of recent advances in supported and non-supported catalysts<br><b>Coordination Chemistry Reviews</b><br>Volume 535, 15                                                                                                                                                                                                                                                                                                                                                                                     | 2025        |
| 2. | Carboxymethyl-cellulose/starch/copper-oxide nanocomposite hydrogel green synthesis for organic pollutants photocatalytic degradation that supports health applications<br><b>Colloids and Surfaces A: Physicochemical and Engineering Aspects</b><br>Volume 718,                                                                                                                                                                                                                                                                                                       | 2025        |
| 3. | <b>Catalytic performance of in-situ generated gold nanoparticles in alginate biopolymer and carbon nitride nanocomposite hydrogel beads</b><br>Aisha Aziz, Adnan Khan, <b>Nauman Ali</b> , Mazhar Ul-Islam, Sher Bahadar Khan, Naved Azum, Khalid A. Alzahrani, Malik Abdul Rub, Ihsan Ullah, Tahseen Kamal<br><br>Inorganic chemistry communication 173(1):113854                                                                                                                                                                                                     | 2024        |
| 4. | <b>Understanding the working principle of sustainable catalytic materials for selective hydrogenation of carbonyls bond in <math>\alpha</math>, <math>\beta</math>-unsaturated aldehydes</b><br>Muhammad Zahid, Ahmed Ismail , Muhammad Farooq Khan, <b>Nauman Ali</b> , Syedul Hasnain Bakhtiar, Atef El Jery, Basem Al Alwan, Rizwan Ullah, Fazal Raziq, Weidong He, K.H.L. Zhang, Jiabao Yi, Xiaoqiang Wu, Sharafat Ali, Liang Qiao<br><br>DOI: <a href="https://doi.org/10.1016/j.ccr.2024.216295">10.1016/j.ccr.2024.216295</a><br>Coordination chemistry reviews | 2025        |
| 5. | <b>Catalytic degradation of dyes using gold nanoparticles supported over chitosan coated cotton cloth composite</b><br>Awais, Fahim Ullah, Adnan Khan, Romana Khan, Sher Bahadar Khan, Khalid A Al zahrani, NaumanAli, MazharUl-Islam,Muhammad Tariq Saeed Chani and Tahseen Kamal<br><br><i>Mater.Res.Express</i> 12 015008                                                                                                                                                                                                                                           | 2025        |
| 6. | <b>Cellulose acetate sheet supported Gold nanoparticles for the catalytic reduction of toxic organic pollutants</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2024        |

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|    | Fahim Ullah, Adnan Khan, Kasif Gul, Abdullah M. Asiri, Tahseen Kamal,<br><b>Nauman Ali</b><br><b>Zeitschrift für Physikalische Chemie</b>                                                                                                                                                                                         |      |
| 7. | Biodegradable cobalt and tin doped chitosan nanocomposites from structure tailoring to solar-driven photocatalytic degradation of toxic organic dyes<br><b>International Journal of Biological Macromolecules</b><br>Volume 283,                                                                                                  | 2024 |
| 8. | Visible Light-Triggered Chitosan Supported Ternary Ferrite for Efficient Removal of Organic Dye Pollutants from Wastewater<br>Topics in Catalysis (2025) 68:759–779                                                                                                                                                               | 2024 |
| 9. | Solar Light Assisted Metal Selenide-Chitosan Nanoparticles from Structure Tailoring to Photocatalytic Mineralization of Selected Industrial Dyes<br>J Azam, M Farhan, A Khan, T Aziz, <b>N Ali</b> , H Khan, S Malik, N Ali<br>Water, Air, & Soil Pollution 235 (6), 386                                                          | 2024 |
| 10 | Ternary Metal Oxide–Chitosan Hybrids for Efficient Photocatalytic Remediation of Organic Pollutants from Wastewater<br>L Qirui, M Faisal, S Ali, <b>N Ali</b> , L Nian, A Khan, S Malik, M Farhan, N Ali<br>Topics in Catalysis, 1-16                                                                                             | 2024 |
| 11 | Zn/Al layered double hydroxide and carboxymethyl cellulose composite beads as support for the catalytic gold nanoparticles and their applications in the reduction of nitroarenes<br>A Khalil, A Khan, T Kamal, AAP Khan, SB Khan, MTS Chani, KA Alzahrani, ...<br>International Journal of Biological Macromolecules 262, 129986 | 2024 |
| 12 | Layered double hydroxide and graphitic carbon nitride hybrid as nanoadsorbent for selected azo-dye removal from aqueous solution<br>R Khan, U Jadoon, N Ali, AA Tahir, M Siddique, M Bilal, M Sillanpaa, ...<br>International Journal of Environmental Science and Technology 20 (9), 9733-9744                                   | 2023 |
| 13 | Biomimetic electrochemical sensors based on core-shell imprinted polymers for targeted sunset yellow estimation in environmental samples<br>S Malik, A Khan, H Khan, G Rahman, N Ali, S Khan, MDPT Sotomayor<br>Biosensors 13 (4), 429                                                                                            | 2023 |

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| 14 | Engineering of oxygen vacancy defect in CeO <sub>2</sub> through Mn doping for toluene catalytic oxidation at low temperature<br>A Ismail, M Zahid, S Ali, N Ali, A Khan, Y Zhu<br>Environmental Research 226, 115680                                                                                                                                      | 2023 |
| 15 | Design and fabrication of chitosan cross-linked bismuth sulfide nanoparticles for sequestration of mercury in river water samples<br>Y Han, J Tao, A Khan, R Ullah, N Ali, N Ali, S Malik, C Yu, Y Yang, M Bilal<br>Environmental Research 215, 113978                                                                                                     | 2022 |
| 16 | Exploration of solid waste materials for sustainable manufacturing of cementitious composites<br>Hamayun Khan, Anwar Baig, Mahtab Faisal, Adnan Khan, Kashif Gul, <b>Nauman Ali</b> , Nisar Ali, Muhammad Bilal<br>Environ Sci Pollut Res Int. 2022 Jul 7                                                                                                  | 2022 |
| 17 | Designing, characterization, and evaluation of chitosan-zinc selenide nanoparticles for visible-light-induced degradation of tartrazine and sunset yellow dyes<br>S Zhang, A Khan, N Ali, S Malik, H Khan, N Ali, HMN Iqbal, M Bilal<br>Environmental Research 213, 113722                                                                                 | 2022 |
| 18 | Effect of Morphology-Dependent Oxygen Vacancies of CeO <sub>2</sub> on the Catalytic Oxidation of Toluene<br>A Ismail, M Zahid, B Hu, A Khan, N Ali, Y Zhu<br>Catalysts 12 (9), 1034                                                                                                                                                                       | 2022 |
| 19 | Core-shell magnetic molecularly imprinted polymer for selective recognition and detection of sunset yellow in aqueous environment and real samples<br>Sumeet Malik, Adnan Khan, Gul Rahman, <b>Nauman Ali</b> , Hamayun Khan Sabir Khan, Maria D.P.T.Sotomayor <sup>d</sup><br><b>Environmental Research</b><br>Volume 212, Part A, September 2022, 113209 | 2022 |
| 20 | Synthesis of ternary-based visible light nano-photocatalyst for decontamination of organic dyes-loaded wastewater<br>A Nawaz, A Khan, N Ali, P Mao, X Gao, N Ali, M Bilal, H Khan<br>Chemosphere 289, 133121                                                                                                                                               | 2022 |

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| 21 | Extended visible light driven photocatalytic hydrogen generation by electron induction from g-C <sub>3</sub> N <sub>4</sub> nanosheets to ZnO through the proper heterojunction<br>A Zada, M Khan, Z Hussain, MIA Shah, M Ateeq, M Ullah, N Ali, ...<br>Zeitschrift für Physikalische Chemie 236 (1), 53-66 | 2022 |
| 22 | Photocatalytic degradation of organic dyes by U <sub>3</sub> MnO <sub>10</sub> nanoparticles under UV and sunlight<br><b>Inorganic Chemistry Communications</b><br>Volume 134 109075                                                                                                                        | 2021 |
| 23 | Synthesis and catalytic evaluation of silver@ nickel oxide and alginate biopolymer nanocomposite hydrogel beads<br>A Khalil, <b>N Ali</b> , AM Asiri, T Kamal, SB Khan, J Ali<br>Cellulose 28 (18), 11299-11313                                                                                             | 2021 |
| 24 | Catalytic reduction of 4-nitrophenol and methylene blue pollutants in water by copper and nickel nanoparticles decorated polymer sponges<br>T Kamal, AM Asiri, <b>N Ali</b><br>Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy 261, 120019                                              | 2021 |
| 25 | Understanding the electrokinetic behavior of the acrylic acid-based Fe(II) ion-imprinted polymer for its application in Fe(II) ions removal from aqueous medium with high selectivity<br>Desalination and Water Treatment<br>Volume 232, August 2021, Pages 165-186                                         | 2021 |
| 26 | Potential application of in-situ synthesized cobalt nanoparticles on chitosan-coated cotton cloth substrate as catalyst for the reduction of pollutants<br><b>N Ali</b> , A Khan, AM Asiri, T Kamal<br>Environmental Technology & Innovation 23, 101675                                                     | 2021 |
| 27 | Development and characterization of regenerable chitosan-coated nickel selenide nano-photocatalytic system for decontamination of toxic azo dyes<br>M Khan, A Khan, H Khan, <b>N Ali</b> , S Sartaj, S Malik, N Ali, H Khan, S Shah, ...<br>International Journal of Biological Macromolecules 182, 866-878 | 2021 |
| 28 | Degradation of Congo red dye using ternary metal selenide-chitosan microspheres as robust and reusable catalysts<br>S Khan, A Khan, <b>N Ali</b> , S Ahmad, W Ahmad, S Malik, N Ali, H Khan, ...<br>Environmental Technology & Innovation 22, 101402                                                        | 2021 |

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| 29 | Selective separation of tungsten from the model and industrial effluents through supported liquid membrane<br><b>N Ali</b> , S Shah, A Khan, SB Khan, T Kamal, AM Asiri<br>Chemical Papers 75 (2), 553-563                                                                             | 2021 |
| 30 | Photocatalytic degradation of crystal violet dye under sunlight by chitosan-encapsulated ternary metal selenide microspheres<br>W Ahmad, A Khan, N Ali, S Khan, S Uddin, S Malik, <b>N Ali</b> , H Khan, H Khan, ...<br>Environmental Science and Pollution Research 28 (7), 8074-8087 | 2021 |
| 31 | Chitosan-capped ternary metal selenide nanocatalysts for efficient degradation of Congo red dye in sunlight irradiation<br>Y Yang, N Ali, A Khan, S Khan, S Khan, H Khan, S Xiaoqi, W Ahmad, .. <b>N Ali</b> .<br>International Journal of Biological Macromolecules 167, 169-181      | 2021 |
| 32 | Catalytic potential of cobalt oxide and agar nanocomposite hydrogel for the chemical reduction of organic pollutants<br>A Khalil, <b>N Ali</b> , A Khan, AM Asiri, T Kamal<br>International Journal of Biological Macromolecules 164, 2922-2930                                        | 2020 |
| 33 | In situ transport and electrodeposition of Ag(I) on stainless steel electrode across carrier mediated supported liquid membrane<br>Desalination and Water Treatment<br>Volume 205, November 2020, Pages 189-197                                                                        | 2020 |
| 34 | Fabrication and characterization of new ternary ferrites-chitosan nanocomposite for solar-light driven photocatalytic degradation of a model textile dye<br>A Nawaz, A Khan, N Ali, <b>N Ali</b> , M Bilal<br>Environmental Technology & Innovation 20, 101079                         | 2020 |
| 35 | Regenerable chitosan-bismuth cobalt selenide hybrid microspheres for mitigation of organic pollutants in an aqueous environment<br><b>N Ali</b> , S Uddin, A Khan, S Khan, S Khan, N Ali, H Khan, H Khan, M Bilal<br>International Journal of Biological Macromolecules 161, 1305-1317 | 2020 |
| 36 | Photocatalytic Performance Evaluation Of Bismuth Doped Tin-Dioxide Under Uv And Direct Sunlight Irradiation For Congo Red Dye Degradation<br><b>Nauman Ali</b> , Adnan khan, Aaisha Riaz<br>J.Chem.Soc.Pak. 42 (05), 687-695                                                           | 2020 |

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| 37 | Selenide-chitosan as high-performance nanophotocatalyst for accelerated degradation of pollutants<br><b>N Ali</b> , S Ahmad, A Khan, S Khan, M Bilal, S Ud Din, N Ali, HMN Iqbal, ...<br>Chemistry–An Asian Journal 15 (17), 2660-2673                                                                                             | 2020 |
| 38 | Synthesis of CoCrFeO <sub>4</sub> -chitosan beads sun-light-driven photocatalyst with well recycling for efficiently degrading high-concentration dyes<br>SJ Shah, A Khan, N Naz, A Ismail, M Zahid, MS Khan, M Ismail, I Khan, <b>N Ali...</b><br>Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy 236, 118314 | 2020 |
| 39 | Adsorptive removal of acrylic acid from the aqueous environment using raw and chemically modified alumina: Batch adsorption, kinetic, equilibrium and thermodynamic studies<br>MB Hamayun Khan, Iram, Kashif Gul, Behisht Ara, Adnan Khan, <b>Nauman Ali ...</b><br>Journal of Environmental Chemical Engineering 8, 103927        | 2020 |
| 40 | Chitosan-zinc sulfide nanoparticles, characterization and their photocatalytic degradation efficiency for azo dyes<br>Aisha Aziz, Nisar Ali, Adnan Khan, Muhammad Bilal, Sumeet Malik, <b>Nauman Ali</b><br>International Journal of Biological Macromolecules 153, 502-512                                                        | 2020 |
| 41 | Performance evaluation of photolytic and electrochemical oxidation processes for enhanced degradation of food dyes laden wastewater<br>S Sartaj, <b>N Ali</b> , A Khan, S Malik, M Bilal, M Khan, N Ali, S Hussain, H Khan, ...<br>Water Science and Technology 81 (5), 971-984                                                    | 2020 |
| 42 | Surface plasmon resonance excited electron induction greatly extends H <sub>2</sub> evolution and pollutant degradation activity of g-C <sub>3</sub> N <sub>4</sub> under visible light irradiation<br>WK Amir Zada, <b>Nauman Ali</b> , Muhammad Ateeq, Ali M, Huerta-Flore, Zahid Hussain ...<br>J Chin Chem Soc 66 (11), 1-7    | 2020 |
| 43 | SELECTIVE TRANSPORTATION OF MOLYBDENUM FROM MODEL AND ORE THROUGH POLY INCLUSION MEMBRANE<br><b>Nauman Ali*</b> , Nasiha Naz, Ziarat Shah, Anwar ul Haq Ali shah                                                                                                                                                                   | 2020 |

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|    | Bull. Chem. Soc. Ethio 34 (1), 93-104                                                                                                                                                                                                                                                                                                            |      |
| 44 | Experimental studies on removal of arsenites from industrial effluents using tridodecylamine supported liquid membrane<br><b>Ali N</b> , Azeem S, Khan A, Khan H, Kamal T<br>Environ Sci Pollut Res Int.                                                                                                                                         | 2020 |
| 45 | <u>Performance evaluation of photolytic and electrochemical oxidation processes for enhanced degradation of food dyes laden wastewater</u><br>S Sartaj, N Ali, A Khan, S Malik, M Bilal, M Khan, N Ali, S Hussain, H Khan, ...<br>Water Science and Technology 81 (5), 971-984                                                                   | 2020 |
| 46 | Enhanced photodegradation of methylene blue with alkaline and transition-metal ferrite nanophotocatalysts under direct sun light irradiation. <b>Nauman Ali</b> Amir Zada Muhammad Zahid Ahmed Ismail Misbha Rafiq Aaisha Riaz Adnan Khan Journal of Chinese Chemical Society 66 (4), 402-408 2019.                                              | 2019 |
| 47 | Extraction and Facilitated Transport of Cd(II) Ions across Triethylenediamine-Carbon Tetrachloride Supported Liquid Membranes Naheed Bibi <sup>1*</sup> , Hanif Ur Rehman <sup>2</sup> , Kamin Khan <sup>2</sup> , Aisha Kanwal <sup>1</sup> , Rana Gul, , <b>Nauman Ali</b><br>Journal of Membrane Science & Technology 9 (1), 1-6              | 2019 |
| 48 | Suitable energy platform significantly improves charge separation of g-C <sub>3</sub> N <sub>4</sub> for CO <sub>2</sub> reduction and pollutant oxidation under visible-light<br>AmirZada, <b>NaumanAli</b> , FazleSubhan, Natasha Anwara, Muhammad Ishaq, Ali Shah ...<br>Progress in Natural Science: Materials International 29 (2), 139-144 | 2019 |
| 49 | Synthesis of Potent Chitosan Beads a Suitable alternative for Textile dye reduction in sunlight"<br>Adnan Khan, Syed Jamal Shah; Karishma Mehmood, Awais Awais, <b>Nauman Ali</b> , Hamayun Khan, Journal of Materials Science: Materials in Electronics January 2019, Volume 30, Issue 1, pp 406–414                                            | 2019 |
| 50 | Synthesis and characterization of polyaniline–zirconium dioxide and polyaniline–cerium dioxide composites with enhanced photocatalytic degradation of rhodamine B dye<br>Anwar-ul-Haq Ali Shah, Shafaq Akhlaq, Murtaza Sayed, Salma Bilal, <b>Nauman Ali</b> , October 2018, 72,10, pp 2523–2538                                                 | 2018 |

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| 51 | Synthesis, characterization, and photocatalytic application of Pd/ZrO <sub>2</sub> and Pt/ZrO <sub>2</sub><br>Khalid Saeed, Mohammad Sadiq, Idrees Khan, Saleem Ullah, <b>Nauman Ali</b> , Adnan Khan, Applied Water Science (2018) 8:60                                                                    | 2018 |
| 52 | Chitosan-coated cotton cloth supported copper nanoparticles for toxic dye reduction<br><b>N Ali</b> , T Kamal, M Ul-Islam, A Khan, SJ Shah, A Zada<br>International journal of biological macromolecules 111, 832-838                                                                                       | 2018 |
| 53 | Spectrophotometric methods for the determination of urea in real samples using silver nanoparticles by standard addition and 2nd order derivative methods<br><b>N Ali</b> , M Ismail, A Khan, H Khan, S Haider, T Kamal<br>Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy 189, 110-115 | 2018 |
| 54 | Preparation of crosslinked chitosan magnetic membrane for cations sorption from aqueous solution<br>A Khan, S Begum, <b>N Ali</b> , S Khan, S Hussain, MDPT Sotomayor<br>Water Science and Technology 75 (9), 2034-2046                                                                                     | 2017 |
| 55 | Synthesis Of Schiff Bases Derived From 2-Hydroxy-1-Naphth- Aldehyde And Their Tin(II) Complexes For Antimicrobial And Antioxidan...<br>Neelofar, <b>Nauman Ali</b> *, Adnan Khan, Salma Amir<br>Bull. Chem. Soc. Ethiop 31 (3), 445-456                                                                     | 2017 |
| 56 | Removal of toxic metals with activated carbon prepared from Salvadora persica<br>NA Fazal Wahid, Imdad Ullah Mohammadzai *, Adnan Khan, Ziarat Shah, Waseem <b>Nauman Ali</b><br>Arabian Journal of Chemistry 10, S2205–S2212                                                                               | 2017 |
| 57 | Transport of Zn (II) by TDDA-Polypropylene Supported Liquid Membranes and Recovery from Waste Discharge Liquor of Galvanizing Plant of Zn (II)<br>H Ur Rehman, G Akhtar, H Ur Rashid, <b>N Ali</b> , I Ahmad, S Ur Rehman, ...<br>Journal of Chemistry 2017                                                 | 2017 |
| 58 | Synthesis and evaluation of antioxidant and antimicrobial activities of Schiff base tin (II) complexes<br>Neelofar, <b>Nauman Ali</b> , Shabir Ahmad, Naser M AbdEl-Salam, Riaz Ullah<br>Tropical Journal of Pharmaceutical Research 15 (12), 2693-2700                                                     | 2017 |
| 59 | Polymer nanocomposite membranes for antifouling nanofiltration                                                                                                                                                                                                                                              | 2016 |

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|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
|    | Tahseen Kamal, <b>Nauman Ali</b> , Abbas Ali Naseem<br>Recent Patents on Nanotechnology                                                                                                                                                                                   |      |
| 60 | Synthesis, Pyrolytic and Antibacterial study of 3-[(E)-(2-phenylhydrazinylidene) methyl] pyridine (PHMP) and its transition metal complexes<br>S Rehman, A Faiz, R Nawaz, <b>N Ali</b><br>Synthesis and Reactivity in Inorganic, Metal-Organic, and Nano-Metal.           | 2016 |
| 61 | Photocatalytic degradation of bromophenol blue in aqueous medium using chitosan conjugated magnetic nanoparticles<br>H Khan, AK Khalil, A Khan, K Saeed, <b>N Ali</b><br>Korean Journal of Chemical Engineering 33 (10), 2802-2807.                                       | 2016 |
| 62 | Selective removal of zinc using tri-ethanolamine-based supported liquid membrane<br>K Ali, R Nawaz, <b>N Ali</b> , A Khaliq, R Ullah<br>Desalination and Water Treatment, 1-12                                                                                            | 2016 |
| 63 | Removal of Chromium (VI) from Industrial Effluents Through Supported Liquid Membrane Using Trioctylphosphine Oxide as a Carrier<br>R Nawaz, K Ali, <b>N Ali</b> , A Khaliq<br>Journal of the Brazilian Chemical Society 27 (1), 209-220                                   | 2016 |
| 64 | Single-step modification of chitosan for toxic cations remediation from aqueous solution<br>A Khan, F Wahid, <b>N Ali</b> , S Badshah, C Airoidi<br>Desalination and Water Treatment 56 (4), 1099-1109                                                                    | 2015 |
| 65 | Antibacterial and Thermal Study of Selected Transition Metal Complexes of N-[(E)-pyridin-3-ylmethylidene] quinolin-3-amine (PMQA)<br>Saeed-ur-Rehman, A Faiz, R Nawaz, <b>N Ali</b><br>Synthesis and Reactivity in Inorganic, Metal-Organic, and Nano-Metal ...           | 2013 |
| 66 | Development of Direct Reversed-Phase High Performance Liquid Chromatographic Method for Quantitative Determination of Gabapentin in Pharmaceutical Dosage<br>W Hassan, B Zaman, S Rahman, AU Rahman, <b>N Ali</b> , IU Mohammadzai<br>J. Chem. Soc. Pak 34 (6), 1477-1481 | 2012 |
| 67 | Characterization of Coal Samples from Dasal-I Coal Mine<br>F Wahid, IU Mohammadzai, <b>N Ali</b> , MT Shah, H Khan<br>Journal of the Chemical Society of Pakistan 34 (5)                                                                                                  | 2012 |

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| 68 | Mn (VII) ions transport by triethanolamine cyclohexanone based supported liquid membrane and recovery of Mn (II) ions from discharged zinc carbon dry battery cell<br>S ur Rehman, G Akhtar, MA Chaudry, N Bukhari, <b>N Ali</b><br>Journal of membrane science 366 (1), 125-131 | 2011 |
| 69 | Effects of the reducing agents on morphologies of gold nanoparticles in poly (styrene-b-4-vinylpyridine) micelles<br><b>N Ali</b> , DH Kim, LS Park, IK Kang, KB Yoon, G Kwak, SY Park<br>International Journal of Modern Physics B 24 (15n16), 3197-3202                        | 2010 |
| 70 | Characterization of poly (butylene terephthalate) electrspun nanofibres containing titanium oxide<br>K Saeed, SY Park, <b>N Ali</b><br>Iran Polym J 18 (8), 671-677                                                                                                              | 2009 |
| 71 | Fluorescence Emission of Disperse Red 1 in PS-b-P4VP Micelles Controlled by a Toluene/Ethanol Solvent Mixture<br><b>N Ali</b> , SY Park<br>Langmuir 25 (23), 13426-13431                                                                                                         | 2009 |
| 72 | Structures of the cylindrical and vesicular micelles of an P4VP-longer asymmetric PS-b-P4VP<br><b>N Ali</b> , WH Sul, DY Lee, DH Kim, SY Park<br>Macromolecular Research 17 (8), 553-556                                                                                         | 2009 |
| 73 | Transition Metal Complexes of Some Biologically Active Ligands; Synthesis Characterization and Bioactivities<br>Saeed-Ur-Rehman, <b>N Ali</b> , M Nisar<br>JOURNAL OF THE CHEMICAL SOCIETY OF PAKISTAN 31 (3), 383-390                                                           | 2009 |
| 74 | <u>The structural studies of complexes of 1, 3-di-(1H-imidazol-1-yl)-2-propanol</u><br>SU Rehman, N Ali<br>Journal of the Chemical Society of Pakistan 31                                                                                                                        | 2009 |
| 75 | Micellar Structures of Poly (styrene-b-4-vinylpyridine) s in THF/Toluene Mixtures and Their Functionalization with Gold<br><b>N Ali</b> , SY Park<br>Langmuir 24 (17), 9279-9285                                                                                                 | 2008 |
| 76 | Assessment of potable water quality of Kohat Division and its impact on health<br>H Khan, S Haider, K Saeed, <b>N Ali</b><br>Journal of the Chemical Society of Pakistan 30 (2), 246-250                                                                                         | 2008 |

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| 77 | Characterization and evaluation of Thur coal for different mineral contents<br>K Saeed, M Ishaq, I Ahmad, M Shakirullah, SY Park, H Khan, <b>N Ali</b><br>Journal of the Chemical Society of Pakistan 28 (3), 207-210 | <b>2006</b> |
| 78 | Complexes of 1,3-Diimidazolypropane with transition and representative metals<br>Saeed-Ur-Rehman, <b>N Ali</b> , M Shakirullah, M Arshad<br>Journal of the Chemical Society of Pakistan 27 (2), 178-185               | <b>2005</b> |
| 79 | Complexes of 1, 2-diimidazoloethane with transition and representative metals<br>SU Rehman, S Pervez, SA Khan, J Shah, S Khattak, <b>N Ali</b> , M Arshad<br>JOURNAL-CHEMICAL SOCIETY OF PAKISTAN 25 (2), 147-152     | <b>2003</b> |

## Ph.D/M.Phil Student supervised

| Ph.D. Scholar Name | THESIS TITLE                                                                                                                                         | STATUS                          |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
| NEELOFAR           | SYNTHESIS OF 2-HYDROXY-1-NAPHTHALDEHYDE DERIVED SCHIFF BASES AND THEIR METAL COMPLEXES FOR BIOLOGICAL ACTIVITIES                                     | Completed                       |
| HANIF UR REHMAN    | PRECIOUS METAL IONS Ag(I), Au(II), Pt(II) AND U(II) EXTRACTION THROUGH SUPPORTED LIQUID MEMBRANE BY ELECTRODEPOSITION METHOD                         | Completed                       |
| AWAIS              | CATALYTIC REDUCTION OF ORGANIC DYES BY METAL NANOPARTICLES SUPPORTED OVER CHITOSAN-COATED COTTON CLOTH                                               | Completed                       |
| Mehreen Zafar      | A HYDROTHERMAL SYNTHESIS AND CHARACTERIZATION OF METAL ORGANIC FRAMEWORK FOR THE ADSORPTION APPLICATION OF DYES FROM AQUEOUS MEDIUM                  | Thesis submitted                |
| Aisha              | Photocatalytic activity of carboxy methyl cellulose coated Palladium (0)/C <sub>3</sub> N <sub>4</sub> for reduction of Nitroaniline and Nitrophenol | Course work / Research Proposed |

| M.PHIL Scholar Name | THESIS TITLE                                                                                      | STATUS    |
|---------------------|---------------------------------------------------------------------------------------------------|-----------|
| AWAIS               | PHOTOCATALYTIC DEGRADATION OF DISPERSE BLUE 1 DYE USING PVC/MWCNT/FERRITES NANOCOMPOSITES         | COMPLETED |
| SYED RIFFAT JAMAL   | SYNTHESIS AND CHARACTERIZATION OF NEWLY PREPARED CELLULOSE ACETATE/MWCNT/MAGNETITE NANOCOMPOSITES | COMPLETED |
| MUHAMMAD ISMAIL     | PREPARATION OF SILVER NANOPARTICLE FOR SPECTROPHOTOMETRIC DETERMINATION OF UREA                   | COMPLETED |
| ASMA GUL            | PREPARATION OF BIODEGRADABLE POLYMER FROM BACTERIAL ISOLATES AND ITS BLENDS WITH POLYETHYLENE     | COMPLETED |

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| <b>ZAINI ALI</b>             | <b>RECOVERY OF TUNGSTEN FROM FILAMENTS OF USED LIGHTENING LAMPS THROUGH POLY INCULSION MEMBRANE</b>                                             | <b>COMPLETED</b> |
| <b>BUSHRA GUL</b>            | <b>SYNTHESIS OF ZINC NAPROXEN BASED SILVER OXIDE NANO DRUG DELIVERY SYSTEM AND ITS EVALUATION IN ANTI INFLAMMATORY AND ANALGESIC ACTIVITIES</b> | <b>COMPLETED</b> |
| <b>SUMBAL AZEEM</b>          | <b>REMOVAL OF ARSENITES FROM INDUSTRIAL EFFLUENTS USING TRIDODECYLAMINE SUPPORTED LIQUID MEMBRANE</b>                                           | <b>COMPLETED</b> |
| <b>SAMEERA SHAH</b>          | <b>SELECTIVE SEPARATION OF TUNGSTEN FROM MODEL AND INDUSTRIAL EFFLUENTS THROUGH SUPPORTED LIQUID MEMBRANE</b>                                   | <b>Completed</b> |
| <b>AISHA RIAZ</b>            | <b>EFFECT OF ALKALINE EARTH AND TRANSITION METAL FERRITES NANOPARTICLES ON PHOTOCATALYTIC DEGRADATION OF METHYLENE BLUE AND THYMOL BLUE DYE</b> | <b>Completed</b> |
| <b>MISBAH RAFIQ</b>          | <b>EFFECT OF TRANSITION METAL BISMUTH OXIDE NANOPARTICLES ON PHOTO-CATALYTIC DEGRADATION OF METHYLENE BLUE AND THYMOL BLUE DYE</b>              | <b>Completed</b> |
| <b>FARYAL NASEEB</b>         | <b>PHOTOCATALYTIC EFFICIENCY OF URANIUM MANGANESE OXIDE NANOPARTICLES ON DEGRADATION OF BROMOTHYMOL BLUE DYE</b>                                | <b>Completed</b> |
| <b>SALEEM ULLAH</b>          | <b>STARCH-CARBOXY METHYL CELLULOSE BASED HYDROGEL SUPPORTED COPPER OXIDE NANOPARTICLES FOR PHOTODEGRADATION OF DYES</b>                         | <b>Completed</b> |
| <b>ASHI KHALIL</b>           | <b>CHEMICAL REDUCTION OF CONGO RED BY USING COBALT OXIDE NANOPARTICLES LOADED ON AGAR MICROGEL</b>                                              | <b>Completed</b> |
| <b>HASSENA REHMAN ABBASI</b> | <b>PHOTOCATALYTIC ACTIVITY OF MANGANESE CERIUM OXIDE NANOCOMPOSITE FOR DEGRADATION OF DYES</b>                                                  | <b>Completed</b> |
| <b>AANAB FAROOQ</b>          | <b>PHOTOCATALYTIC ACTIVITY OF SILVER CHROMATE/BISMUTH OXIDE UNDER UV</b>                                                                        | <b>Completed</b> |

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|                          | <b>AND VISIBLE LIGHT IRRADIATION FOR DEGRADATION OF DYES</b>                                                                                   |                                        |
| <b>GHADA BINTE SAJID</b> | <b>APPLICATION OF COPPER MODIFIED BISMUTH TITANIUM OXIDE NANO COMPOSITE ON PHOTOCATALYTIC DEGRADATION OF DYES AS PHOTOCATALYST</b>             | <b>Completed</b>                       |
| <b>FaheemUllah</b>       | <b>GOLD NANOPARTICLES SUPPORTED BY CELLULOSE ACETATE AS CATALYTIC POTENTIAL FOR THE CHEMICAL REDUCTION OF TOXIC ORGANIC POLLUTANTS</b>         | <b>Completed</b>                       |
| <b>Lalmina</b>           | <b>SYNTHESIS OF COPPER DOPED VANADIUM PENTOXIDE SUPPORTED BY CHITOSAN FOR PHOTOCATALYTIC DEGRADATION OF DYE</b>                                | <b>Completed</b>                       |
| <b>Sana</b>              | <b>SYNTHESIS OF CHITOSAN-COATED COPPER NICKEL SELENIDE NANOPARTICLES FOR PHOTOCATALYTIC DEGRADATION OF CRYSTAL VIOLET DYE IN AQUEOUS MEDIA</b> | <b>Completed</b>                       |
| <b>Faiza</b>             | <b>Application of composite CuO/ polyvinyl carbazol coated chitosan for Catalytic oxidation of dyes</b>                                        | <b>Course work / Research Proposed</b> |
| <b>Maria Pharkha</b>     |                                                                                                                                                | <b>Course work</b>                     |
| <b>Mominah Shah</b>      |                                                                                                                                                | <b>Course work</b>                     |

| <b>M.PHIL CO-SUPERVISED</b> | <b>THESIS TITLE</b>                                                                                         | <b>STATUS</b>    |
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| <b>MUHAMMAD YASIR</b>       | <b>DEVELOPMENT OF METHOD FOR THE DETERMINATION OF PARACETAMOL ON HIGH PERFORMANCE LIQUID CHROMATOGRAPHY</b> | <b>COMPLETED</b> |
| <b>NAZIR AHMAD</b>          | <b>SYNTHESIS OF 1,3-DI (1H-IMIDAZOL-1-YL) ACETONE, ITS COMPLEXES AND ANTIMICROBIAL ACTIVITIES</b>           | <b>COMPLETED</b> |

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| SADAF NAZ | THERMAL STUDY OF 1, 3-DI (1H-IMIDAZOL-1-YL) ACETONE AND ITS TRANSITION METAL COMPLEXES | <b>COMPLETED</b> |