

Tariq Mahmood

List of Publications by Year in descending order

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Version: 2024-02-01

102
papers

4,466
citations

117571

34
h-index

114418

63
g-index

102
all docs

102
docs citations

102
times ranked

5896
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | The anaerobic digestion of solid organic waste. <i>Waste Management</i> , 2011, 31, 1737-1744. | 3.7 | 762 |
| 2 | Plant-derived anticancer agents: A green anticancer approach. <i>Asian Pacific Journal of Tropical Biomedicine</i> , 2017, 7, 1129-1150. | 0.5 | 403 |
| 3 | Tubular graphitic-C3N4: a prospective material for energy storage and green photocatalysis. <i>Journal of Materials Chemistry A</i> , 2013, 1, 13949. | 5.2 | 238 |
| 4 | Germin and Germin-like Proteins: Evolution, Structure, and Function. <i>Critical Reviews in Plant Sciences</i> , 2008, 27, 342-375. | 2.7 | 216 |
| 5 | Bifunctional catalysts of Co3O4@GCN tubular nanostructured (TNS) hybrids for oxygen and hydrogen evolution reactions. <i>Nano Research</i> , 2015, 8, 3725-3736. | 5.8 | 117 |
| 6 | Detoxification of azo dyes by bacterial oxidoreductase enzymes. <i>Critical Reviews in Biotechnology</i> , 2016, 36, 639-651. | 5.1 | 109 |
| 7 | Proteomic analysis of bacterial-blight defense-responsive proteins in rice leaf blades. <i>Proteomics</i> , 2006, 6, 6053-6065. | 1.3 | 105 |
| 8 | Drought response of <i>Mucuna pruriens</i> (L.) DC. inoculated with ACC deaminase and IAA producing rhizobacteria. <i>PLoS ONE</i> , 2018, 13, e0191218. | 1.1 | 98 |
| 9 | Plant-extract mediated green approach for the synthesis of ZnONPs: Characterization and evaluation of cytotoxic, antimicrobial and antioxidant potentials. <i>Journal of Molecular Structure</i> , 2019, 1189, 315-327. | 1.8 | 89 |
| 10 | Ursolic acid a promising candidate in the therapeutics of breast cancer: Current status and future implications. <i>Biomedicine and Pharmacotherapy</i> , 2018, 108, 752-756. | 2.5 | 87 |
| 11 | Potential phytochemicals for developing breast cancer therapeutics: Nature's healing touch. <i>European Journal of Pharmacology</i> , 2018, 827, 125-148. | 1.7 | 80 |
| 12 | Plant-mediated synthesis of nickel oxide nanoparticles (NiO) via <i>Geranium wallichianum</i> : characterization and different biological applications. <i>Materials Research Express</i> , 2019, 6, 0850a7. | 0.8 | 79 |
| 13 | Bioactivities of <i>Geranium wallichianum</i> Leaf Extracts Conjugated with Zinc Oxide Nanoparticles. <i>Biomolecules</i> , 2020, 10, 38. | 1.8 | 75 |
| 14 | Phytogenic Synthesis of Nickel Oxide Nanoparticles (NiO) Using Fresh Leaves Extract of <i>Rhamnus triquetra</i> (Wall.) and Investigation of Its Multiple In Vitro Biological Potentials. <i>Biomedicines</i> , 2020, 8, 117. | 1.4 | 72 |
| 15 | Green synthesis of zinc oxide nanoparticles using <i>Elaeagnus angustifolia</i> L. leaf extracts and their multiple in vitro biological applications. <i>Scientific Reports</i> , 2021, 11, 20988. | 1.6 | 72 |
| 16 | Potential phytochemicals in the fight against skin cancer: Current landscape and future perspectives. <i>Biomedicine and Pharmacotherapy</i> , 2019, 109, 1381-1393. | 2.5 | 71 |
| 17 | Accelerated decolorization of reactive azo dyes under saline conditions by bacteria isolated from Arabian seawater sediment. <i>Applied Microbiology and Biotechnology</i> , 2012, 96, 1599-1606. | 1.7 | 69 |
| 18 | Biogenic synthesis of green and cost effective iron nanoparticles and evaluation of their potential biomedical properties. <i>Journal of Molecular Structure</i> , 2020, 1199, 126979. | 1.8 | 68 |

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|----|---|-----|-----------|
| 19 | Facile green synthesis approach for the production of chromium oxide nanoparticles and their different in vitro biological activities. <i>Microscopy Research and Technique</i> , 2020, 83, 706-719. | 1.2 | 67 |
| 20 | Improving nodulation, growth and yield of <i>Cicer arietinum</i> L. through bacterial ACC-deaminase induced changes in root architecture. <i>European Journal of Soil Biology</i> , 2010, 46, 342-347. | 1.4 | 59 |
| 21 | Biofabrication of iron oxide nanoparticles by leaf extract of <i>Rhamnus virgata</i> : Characterization and evaluation of cytotoxic, antimicrobial and antioxidant potentials. <i>Applied Organometallic Chemistry</i> , 2019, 33, e4947. | 1.7 | 57 |
| 22 | Potential of newly isolated bacterial strains for simultaneous removal of hexavalent chromium and reactive black azo dye from tannery effluent. <i>Journal of Chemical Technology and Biotechnology</i> , 2013, 88, 1506-1513. | 1.6 | 55 |
| 23 | Nanomedicines for developing cancer nanotherapeutics: from benchtop to bedside and beyond. <i>Applied Microbiology and Biotechnology</i> , 2018, 102, 9449-9470. | 1.7 | 54 |
| 24 | Electronic, elastic, optical properties of rutile TiO ₂ under pressure: A DFT study. <i>Physica B: Condensed Matter</i> , 2012, 407, 958-965. | 1.3 | 52 |
| 25 | Molecular mechanisms of plant tolerance to heat stress: current landscape and future perspectives. <i>Plant Cell Reports</i> , 2021, 40, 2247-2271. | 2.8 | 51 |
| 26 | Plant Growth Promoting Rhizobacteria and Sustainable Agriculture. , 2009, , 133-160. | | 49 |
| 27 | Environmentally friendly green approach for the fabrication of silver oxide nanoparticles: Characterization and diverse biomedical applications. <i>Microscopy Research and Technique</i> , 2020, 83, 1308-1320. | 1.2 | 47 |
| 28 | Analyzing the regulatory role of heat shock transcription factors in plant heat stress tolerance: a brief appraisal. <i>Molecular Biology Reports</i> , 2022, 49, 5771-5785. | 1.0 | 47 |
| 29 | Effect of electrodeposition and annealing of ZnO on optical and photovoltaic properties of the p-Cu ₂ O/n-ZnO solar cells. <i>Electrochimica Acta</i> , 2011, 56, 8342-8346. | 2.6 | 43 |
| 30 | Synthesis of highly pure single crystalline SnSe nanostructures by thermal evaporation and condensation route. <i>Materials Chemistry and Physics</i> , 2012, 137, 565-570. | 2.0 | 42 |
| 31 | Anaerobic co-digestion of catering waste with partially pretreated lignocellulosic crop residues. <i>Journal of Cleaner Production</i> , 2016, 117, 56-63. | 4.6 | 41 |
| 32 | Role of dietary phytochemicals in modulation of miRNA expression: Natural swords combating breast cancer. <i>Asian Pacific Journal of Tropical Medicine</i> , 2018, 11, 501. | 0.4 | 41 |
| 33 | Facile synthesis of novel Nb ₃ O ₇ F nanoflowers, their optical and photocatalytic properties. <i>CrystEngComm</i> , 2013, 15, 8146. | 1.3 | 38 |
| 34 | Fabrication and photovoltaic characteristics of Cu ₂ O/TiO ₂ thin film heterojunction solar cell. <i>Thin Solid Films</i> , 2012, 522, 430-434. | 0.8 | 36 |
| 35 | Potential phytochemicals in the prevention and treatment of esophagus cancer: A green therapeutic approach. <i>Pharmacological Reports</i> , 2019, 71, 644-652. | 1.5 | 36 |
| 36 | Phytofabrication of cobalt oxide nanoparticles from <i>Rhamnus virgata</i> leaves extract and investigation of different bioactivities. <i>Microscopy Research and Technique</i> , 2021, 84, 192-201. | 1.2 | 34 |

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|----|--|-----|-----------|
| 37 | Functional characterization of germin and germin-like protein genes in various plant species using transgenic approaches. <i>Biotechnology Letters</i> , 2016, 38, 1405-1421. | 1.1 | 33 |
| 38 | Biogenic synthesis of green and cost effective cobalt oxide nanoparticles using <i>Geranium wallichianum</i> leaves extract and evaluation of <i>in vitro</i> antioxidant, antimicrobial, cytotoxic and enzyme inhibition properties. <i>Materials Research Express</i> , 2019, 6, 115407. | 0.8 | 33 |
| 39 | Visible light photocatalytic degradation of crystal violet dye and electrochemical detection of ascorbic acid & glucose using BaWO ₄ nanorods. <i>Materials Research Bulletin</i> , 2018, 104, 38-43. | 2.7 | 32 |
| 40 | Bioinspired synthesis and activity characterization of iron oxide nanoparticles made using <i>Rhamnus Triquetra</i> leaf extract. <i>Materials Research Express</i> , 2019, 6, 1250e7. | 0.8 | 32 |
| 41 | Evaluation of bacteria isolated from textile wastewater and rhizosphere to simultaneously degrade azo dyes and promote plant growth. <i>Journal of Chemical Technology and Biotechnology</i> , 2017, 92, 2760-2768. | 1.6 | 29 |
| 42 | Green formulation and chemical characterizations of <i>Rhamnella gilgitica</i> aqueous leaves extract conjugated NiONPs and their multiple therapeutic properties. <i>Journal of Molecular Structure</i> , 2020, 1218, 128490. | 1.8 | 29 |
| 43 | Anaerobic co-digestion of municipal solid organic waste with melon residues to enhance biodegradability and biogas production. <i>Journal of Material Cycles and Waste Management</i> , 2012, 14, 388-395. | 1.6 | 24 |
| 44 | Fabrication of novel SnO ₂ nanofibers bundle and their optical properties. <i>Materials Chemistry and Physics</i> , 2012, 136, 10-14. | 2.0 | 23 |
| 45 | Morphological and molecular characterization of selected <i>Artemisia</i> species from Rawalakot, Azad Jammu and Kashmir. <i>Acta Physiologiae Plantarum</i> , 2011, 33, 625-633. | 1.0 | 21 |
| 46 | Synthesis, characterization, photoluminescence and field emission properties of novel durian-like gallium nitride microstructures. <i>Materials Chemistry and Physics</i> , 2012, 133, 793-798. | 2.0 | 21 |
| 47 | Unfolding molecular switches in plant heat stress resistance: A comprehensive review. <i>Plant Cell Reports</i> , 2022, 41, 775-798. | 2.8 | 21 |
| 48 | Reactive black-5 azo dye treatment in suspended and attach growth sequencing batch bioreactor using different co-substrates. <i>International Biodeterioration and Biodegradation</i> , 2013, 85, 556-562. | 1.9 | 19 |
| 49 | Effect of magnesium on structural and optical properties of CaTiO ₃ : A DFT study. <i>Physica B: Condensed Matter</i> , 2019, 568, 88-91. | 1.3 | 19 |
| 50 | Fenton-biological coupled biochemical oxidation of mixed wastewater for color and COD reduction. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2014, 45, 1661-1665. | 2.7 | 18 |
| 51 | First-principles calculation of electronic and optical properties of graphene like ZnO (G-ZnO). <i>Superlattices and Microstructures</i> , 2016, 90, 165-169. | 1.4 | 17 |
| 52 | Large-scale synthesis of highly pure Cd metal hexagonal nanosheets. <i>Materials Letters</i> , 2011, 65, 1896-1899. | 1.3 | 16 |
| 53 | Cobalt Phosphide Ultrathin and Freestanding Sheets Prepared through Microwave Chemical Vapor Deposition: A Highly Efficient Oxygen Evolution Reaction Catalyst. <i>ChemElectroChem</i> , 2019, 6, 5469-5478. | 1.7 | 16 |
| 54 | Germin-like protein 2 gene promoter from rice is responsive to fungal pathogens in transgenic potato plants. <i>Functional and Integrative Genomics</i> , 2016, 16, 19-27. | 1.4 | 15 |

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|----|--|-----|-----------|
| 55 | Elastic, electronic and optical properties of anatase TiO ₂ under pressure: A DFT approach. Chinese Journal of Physics, 2017, 55, 1252-1263. | 2.0 | 15 |
| 56 | A computational insight of electronic and optical properties of Cd-doped BaZrO ₃ . Chinese Journal of Physics, 2020, 66, 318-326. | 2.0 | 15 |
| 57 | Cloning and sequence analysis of germin-like protein gene 2 promoter from <i>Oryza sativa</i> L. ssp. indica. DNA Sequence, 2007, 18, 26-32. | 0.7 | 14 |
| 58 | Elastic, electronic and optical properties of cotunnite TiO ₂ from first principles calculations. Physica B: Condensed Matter, 2012, 407, 4495-4501. | 1.3 | 14 |
| 59 | Allelic variation and composition of HMW-GS in advanced lines derived from d-genome synthetic hexaploid / bread wheat (<i>Triticum aestivum</i> L.). Journal of Crop Science and Biotechnology, 2012, 15, 1-7. | 0.7 | 14 |
| 60 | Electronic, elastic, acoustic and optical properties of cubic TiO ₂ : A DFT approach. Physica B: Condensed Matter, 2013, 420, 74-80. | 1.3 | 14 |
| 61 | Molecular Characterization of a MYB Protein from <i>Oryza sativa</i> for its Role in Abiotic Stress Tolerance. Brazilian Archives of Biology and Technology, 2017, 60, . | 0.5 | 14 |
| 62 | Numerical treatment for Darcy–Forchheimer flow of nanofluid due to a rotating disk with slip effects. Canadian Journal of Physics, 2019, 97, 856-863. | 0.4 | 14 |
| 63 | Structural, Elastic Constant, and Vibrational Properties of Wurtzite Gallium Nitride: A First-Principles Approach. Journal of Physical Chemistry A, 2011, 115, 14502-14509. | 1.1 | 13 |
| 64 | Pressure based first-principles study of the electronic, elastic, optic and phonon properties of zincblende InN. Physica B: Condensed Matter, 2013, 430, 67-73. | 1.3 | 13 |
| 65 | Analysis of Germin-like Protein Genes (OsGLPs) Family in Rice Using Various In silico Approaches. Current Bioinformatics, 2020, 15, 17-33. | 0.7 | 13 |
| 66 | In Silico Characterization and Expression Profiles of Heat Shock Transcription Factors (HSFs) in Maize (<i>Zea mays</i> L.). Agronomy, 2021, 11, 2335. | 1.3 | 13 |
| 67 | Proteomic Analysis of Jasmonic Acid-Regulated Proteins in Rice Leaf Blades. Protein and Peptide Letters, 2007, 14, 311-319. | 0.4 | 12 |
| 68 | Electronic, optical and elastic properties of cubic zirconia (c-ZrO ₂) under pressure: A DFT study. Physica B: Condensed Matter, 2021, 604, 412462. | 1.3 | 12 |
| 69 | High-molecular-weight (HMW) glutenin subunit composition of the Elite-II synthetic hexaploid wheat subset (<i>Triticum turgidum</i> × <i>Aegilops tauschii</i> ; 2n × 6x = 42; AABBDD). Plant Genetic Resources: Characterisation and Utilisation, 2012, 10, 1-4. | 0.4 | 11 |
| 70 | Characterization of D-genome diversity for tolerance to boron toxicity in synthetic hexaploid wheat and in silico analysis of candidate genes. Acta Physiologiae Plantarum, 2015, 37, 1. | 1.0 | 11 |
| 71 | In silico analysis of transcription factor binding sites in promoters of germin-like protein genes in rice. Archives of Biological Sciences, 2016, 68, 863-876. | 0.2 | 10 |
| 72 | Pressure induced electronic and optical properties of rutile SnO ₂ by first principle calculations. Superlattices and Microstructures, 2016, 90, 236-241. | 1.4 | 10 |

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|----|--|-----|-----------|
| 73 | Involvement of WRKY, MYB and DOF DNA-binding proteins in interaction with a rice germin-like protein gene promoter. <i>Acta Physiologiae Plantarum</i> , 2017, 39, 1. | 1.0 | 10 |
| 74 | Preparation of highly pure CdSe hollow structures: Their PL and hydrogen absorption properties. <i>Materials Letters</i> , 2013, 92, 263-266. | 1.3 | 9 |
| 75 | Identification and analysis of regulatory elements in the germin and germin-like proteins family promoters in rice. <i>Turkish Journal of Botany</i> , 2015, 39, 389-400. | 0.5 | 9 |
| 76 | Proteome Analysis of Probenazole-Effect in Rice-Bacterial Blight Interactions. <i>Protein and Peptide Letters</i> , 2009, 16, 1041-1052. | 0.4 | 8 |
| 77 | Metal-catalyzed synthesis of ultralong tin dioxide nanobelts: Electrical and optical properties with oxygen vacancy-related orange emission. <i>Materials Science in Semiconductor Processing</i> , 2014, 26, 388-394. | 1.9 | 8 |
| 78 | First principles investigation of electronic and optical properties of AgAlO ₂ . <i>Chinese Journal of Physics</i> , 2018, 56, 2186-2190. | 2.0 | 8 |
| 79 | <i>Rhamnella gilgitica</i> functionalized green synthesis of ZnONPs and their multiple therapeutic properties. <i>Microscopy Research and Technique</i> , 2022, , . | 1.2 | 8 |
| 80 | Phytochemistry, biological activities and in silico molecular docking studies of Oxalis pes-caprae L. compounds against SARS-CoV-2. <i>Journal of King Saud University - Science</i> , 2022, 34, 102136. | 1.6 | 8 |
| 81 | Thermal evaporation and condensation synthesis of metallic Zn layered polyhedral microparticles. <i>Materials Research Bulletin</i> , 2011, 46, 2261-2265. | 2.7 | 7 |
| 82 | Simultaneous growth of ZnSe cactus-like structures and novel microflowers of selenium. <i>Journal of Alloys and Compounds</i> , 2012, 513, 620-625. | 2.8 | 7 |
| 83 | Study of the structural and electronic properties of FeO at the LDA and GGA level. <i>Chinese Journal of Physics</i> , 2017, 55, 1135-1141. | 2.0 | 7 |
| 84 | Functional characterization of the rice root Germin-like protein gene-1 (OsRGLP1) promoter in <i>Nicotiana tabacum</i> . <i>3 Biotech</i> , 2019, 9, 130. | 1.1 | 7 |
| 85 | Role of Ethylene and Bacterial ACC Deaminase in Nodulation of Legumes. , 2010, , 103-122. | | 6 |
| 86 | Reuse of treated wastewater using sequencing batch bioreactor for the improvement of wheat growth. <i>Journal of Water Reuse and Desalination</i> , 2011, 1, 179-184. | 1.2 | 6 |
| 87 | Fabrication and Electrical Characterization of p-Cu ₂ O/n-ZnO Heterojunction. <i>Journal of Nanoscience and Nanotechnology</i> , 2012, 12, 1967-1971. | 0.9 | 6 |
| 88 | OsRGLP2 promoter derived GUS expression in transgenic tobacco in response to salicylic acid, H ₂ O ₂ , PEG, NaCl and auxins. <i>Plant Gene</i> , 2019, 19, 100190. | 1.4 | 6 |
| 89 | Effect of high pressure on structural, electrical, and optical properties of graphene-like zinc oxide (g-ZnO) structure. <i>Materials Science in Semiconductor Processing</i> , 2022, 142, 106465. | 1.9 | 6 |
| 90 | Characterization of regulatory elements in OsRGLP2 gene promoter from different rice accessions through sequencing and in silico evaluation. <i>Computational Biology and Chemistry</i> , 2018, 73, 206-212. | 1.1 | 5 |

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|-----|--|-----|-----------|
| 91 | COLOR AND COD REMOVAL FROM POULTRY LITTER LEACHATE USING AN OZONATION PROCESS. Environmental Engineering and Management Journal, 2012, 11, 1467-1474. | 0.2 | 5 |
| 92 | Single crystalline multi-petal Cd nanoleaves prepared by thermal reduction of CdO. Materials Research Bulletin, 2013, 48, 819-822. | 2.7 | 4 |
| 93 | Design of a negative refractive index material based on numerical simulation. Chinese Journal of Physics, 2016, 54, 587-591. | 2.0 | 4 |
| 94 | Assessment of genetic variability among selected species of Apocynaceae. Biologia (Poland), 2011, 66, 64-67. | 0.8 | 3 |
| 95 | Elastic, electronic and optical properties of baddeleyite TiO ₂ by first-principles. Materials Science in Semiconductor Processing, 2014, 27, 958-965. | 1.9 | 3 |
| 96 | Controlled growth of catalyst assisted and catalyst free CdSe micro cactuses with sharply pointed nanorods, their Photoluminescence (PL) and Photo electrochemical (PEC) properties. Electrochimica Acta, 2012, 85, 122-130. | 2.6 | 2 |
| 97 | High yield preparation of single crystalline Cd metal nanotubes by non-catalytic thermal decomposition route. Solid State Sciences, 2012, 14, 693-697. | 1.5 | 2 |
| 98 | Role of Ethylene and Bacterial ACC-Deaminase in Nodulation of Legumes. , 2017, , 95-118. | | 2 |
| 99 | Effect of Ni Charge States on Structural, Electronic, Magnetic, and Optical Properties of InN. Journal of Physical Chemistry A, 2013, 117, 5650-5654. | 1.1 | 1 |
| 100 | GEANT4: Applications in High Energy Physics. AIP Conference Proceedings, 2007, , . | 0.3 | 0 |
| 101 | DFT calculations: Stress dependence structural and band gap study of anatase and rutile TiO ₂ . , 2012, , . | | 0 |
| 102 | A DFT calculations: Band structural and equation of states for anatase and rutile TiO ₂ . , 2012, , . | | 0 |