

# 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	Unfolding molecular switches in plant heat stress resistance: A comprehensive review. <i>Plant Cell Reports</i> , 2022, 41, 775-798.	2.8	21
2	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
3	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
4	<i>Rhamnella gilgitica</i> functionalized green synthesis of ZnONPs and their multiple therapeutic properties. <i>Microscopy Research and Technique</i> , 2022, , .	1.2	8
5	Phytochemistry, biological activities and in silico molecular docking studies of <i>Oxalis pes-caprae</i> L. compounds against SARS-CoV-2. <i>Journal of King Saud University - Science</i> , 2022, 34, 102136.	1.6	8
6	Electronic, optical and elastic properties of cubic zirconia (c-ZrO <sub>2</sub> ) under pressure: A DFT study. <i>Physica B: Condensed Matter</i> , 2021, 604, 412462.	1.3	12
7	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
8	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
9	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
10	In Silico Characterization and Expression Profiles of Heat Shock Transcription Factors (HSFs) in Maize ( <i>Zea mays</i> L.). <i>Agronomy</i> , 2021, 11, 2335.	1.3	13
11	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
12	Bioactivities of <i>Geranium wallichianum</i> Leaf Extracts Conjugated with Zinc Oxide Nanoparticles. <i>Biomolecules</i> , 2020, 10, 38.	1.8	75
13	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
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	A computational insight of electronic and optical properties of Cd-doped BaZrO <sub>3</sub> . <i>Chinese Journal of Physics</i> , 2020, 66, 318-326.	2.0	15
16	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
17	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
18	Analysis of Germin-like Protein Genes (OsGLPs) Family in Rice Using Various In silico Approaches. <i>Current Bioinformatics</i> , 2020, 15, 17-33.	0.7	13

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19	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
20	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
21	OsRGLP2 promoter derived GUS expression in transgenic tobacco in response to salicylic acid, H <sub>2</sub> O <sub>2</sub> , PEG, NaCl and auxins. <i>Plant Gene</i> , 2019, 19, 100190.	1.4	6
22	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
23	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
24	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
25	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
26	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
27	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
28	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
29	Effect of magnesium on structural and optical properties of CaTiO <sub>3</sub> : A DFT study. <i>Physica B: Condensed Matter</i> , 2019, 568, 88-91.	1.3	19
30	Numerical treatment for Darcy-Forchheimer flow of nanofluid due to a rotating disk with slip effects. <i>Canadian Journal of Physics</i> , 2019, 97, 856-863.	0.4	14
31	Characterization of regulatory elements in OsRGLP2 gene promoter from different rice accessions through sequencing and <i>in silico</i> evaluation. <i>Computational Biology and Chemistry</i> , 2018, 73, 206-212.	1.1	5
32	Visible light photocatalytic degradation of crystal violet dye and electrochemical detection of ascorbic acid & glucose using BaWO <sub>4</sub> nanorods. <i>Materials Research Bulletin</i> , 2018, 104, 38-43.	2.7	32
33	Potential phytochemicals for developing breast cancer therapeutics: Nature's healing touch. <i>European Journal of Pharmacology</i> , 2018, 827, 125-148.	1.7	80
34	First principles investigation of electronic and optical properties of AgAlO <sub>2</sub> . <i>Chinese Journal of Physics</i> , 2018, 56, 2186-2190.	2.0	8
35	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
36	Nanomedicines for developing cancer nanotherapeutics: from benchtop to bedside and beyond. <i>Applied Microbiology and Biotechnology</i> , 2018, 102, 9449-9470.	1.7	54

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37	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
38	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
39	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
40	Role of Ethylene and Bacterial ACC-Deaminase in Nodulation of Legumes. , 2017, , 95-118.		2
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	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
43	Plant-derived anticancer agents: A green anticancer approach. <i>Asian Pacific Journal of Tropical Biomedicine</i> , 2017, 7, 1129-1150.	0.5	403
44	Elastic, electronic and optical properties of anatase TiO <sub>2</sub> under pressure: A DFT approach. <i>Chinese Journal of Physics</i> , 2017, 55, 1252-1263.	2.0	15
45	Molecular Characterization of a MYB Protein from <i>Oryza sativa</i> for its Role in Abiotic Stress Tolerance. <i>Brazilian Archives of Biology and Technology</i> , 2017, 60, .	0.5	14
46	In silico analysis of transcription factor binding sites in promoters of germin-like protein genes in rice. <i>Archives of Biological Sciences</i> , 2016, 68, 863-876.	0.2	10
47	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
48	Design of a negative refractive index material based on numerical simulation. <i>Chinese Journal of Physics</i> , 2016, 54, 587-591.	2.0	4
49	Detoxification of azo dyes by bacterial oxidoreductase enzymes. <i>Critical Reviews in Biotechnology</i> , 2016, 36, 639-651.	5.1	109
50	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
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	Pressure induced electronic and optical properties of rutile SnO <sub>2</sub> by first principle calculations. <i>Superlattices and Microstructures</i> , 2016, 90, 236-241.	1.4	10
53	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
54	Characterization of D-genome diversity for tolerance to boron toxicity in synthetic hexaploid wheat and in silico analysis of candidate genes. <i>Acta Physiologiae Plantarum</i> , 2015, 37, 1.	1.0	11

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55	Identification and analysis of regulatory elements in the germin and germin-like proteins family promoters in rice. Turkish Journal of Botany, 2015, 39, 389-400.	0.5	9
56	Bifunctional catalysts of Co <sub>3</sub> O <sub>4</sub> @GCN tubular nanostructured (TNS) hybrids for oxygen and hydrogen evolution reactions. Nano Research, 2015, 8, 3725-3736.	5.8	117
57	Fenton-biological coupled biochemical oxidation of mixed wastewater for color and COD reduction. Journal of the Taiwan Institute of Chemical Engineers, 2014, 45, 1661-1665.	2.7	18
58	Elastic, electronic and optical properties of baddeleyite TiO <sub>2</sub> by first-principles. Materials Science in Semiconductor Processing, 2014, 27, 958-965.	1.9	3
59	Metal-catalyzed synthesis of ultralong tin dioxide nanobelts: Electrical and optical properties with oxygen vacancy-related orange emission. Materials Science in Semiconductor Processing, 2014, 26, 388-394.	1.9	8
60	Potential of newly isolated bacterial strains for simultaneous removal of hexavalent chromium and reactive black-5 azo dye from tannery effluent. Journal of Chemical Technology and Biotechnology, 2013, 88, 1506-1513.	1.6	55
61	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
62	Tubular graphitic-C <sub>3</sub> N <sub>4</sub> : a prospective material for energy storage and green photocatalysis. Journal of Materials Chemistry A, 2013, 1, 13949.	5.2	238
63	Facile synthesis of novel Nb <sub>3</sub> O <sub>7</sub> F nanoflowers, their optical and photocatalytic properties. CrystEngComm, 2013, 15, 8146.	1.3	38
64	Reactive black-5 azo dye treatment in suspended and attach growth sequencing batch bioreactor using different co-substrates. International Biodeterioration and Biodegradation, 2013, 85, 556-562.	1.9	19
65	Electronic, elastic, acoustic and optical properties of cubic TiO <sub>2</sub> : A DFT approach. Physica B: Condensed Matter, 2013, 420, 74-80.	1.3	14
66	Single crystalline multi-petal Cd nanoleaves prepared by thermal reduction of CdO. Materials Research Bulletin, 2013, 48, 819-822.	2.7	4
67	Preparation of highly pure CdSe hollow structures: Their PL and hydrogen absorption properties. Materials Letters, 2013, 92, 263-266.	1.3	9
68	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
69	DFT calculations: Stress dependence structural and band gap study of anatase and rutile TiO <sub>2</sub> . , 2012, , .		0
70	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
71	Synthesis of highly pure single crystalline SnSe nanostructures by thermal evaporation and condensation route. Materials Chemistry and Physics, 2012, 137, 565-570.	2.0	42
72	Synthesis, characterization, photoluminescence and field emission properties of novel durian-like gallium nitride microstructures. Materials Chemistry and Physics, 2012, 133, 793-798.	2.0	21

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73	Fabrication and photovoltaic characteristics of Cu <sub>2</sub> O/TiO <sub>2</sub> thin film heterojunction solar cell. Thin Solid Films, 2012, 522, 430-434.	0.8	36
74	Elastic, electronic and optical properties of cotunnite TiO <sub>2</sub> from first principles calculations. Physica B: Condensed Matter, 2012, 407, 4495-4501.	1.3	14
75	A DFT calculations: Band structural and equation of states for anatase and rutile TiO <sub>2</sub> , 2012, , .		0
76	Anaerobic co-digestion of municipal solid organic waste with melon residues to enhance biodegradability and biogas production. Journal of Material Cycles and Waste Management, 2012, 14, 388-395.	1.6	24
77	Simultaneous growth of ZnSe cactus-like structures and novel microflowers of selenium. Journal of Alloys and Compounds, 2012, 513, 620-625.	2.8	7
78	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
79	Fabrication of novel SnO <sub>2</sub> nanofibers bundle and their optical properties. Materials Chemistry and Physics, 2012, 136, 10-14.	2.0	23
80	Accelerated decolorization of reactive azo dyes under saline conditions by bacteria isolated from Arabian seawater sediment. Applied Microbiology and Biotechnology, 2012, 96, 1599-1606.	1.7	69
81	Fabrication and Electrical Characterization of p-Cu <sub>2</sub> O/n-ZnO Heterojunction. Journal of Nanoscience and Nanotechnology, 2012, 12, 1967-1971.	0.9	6
82	Allelic variation and composition of HMW-GS in advanced lines derived from d-genome synthetic hexaploid / bread wheat (Triticum aestivum L.). Journal of Crop Science and Biotechnology, 2012, 15, 1-7.	0.7	14
83	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
84	Electronic, elastic, optical properties of rutile TiO <sub>2</sub> under pressure: A DFT study. Physica B: Condensed Matter, 2012, 407, 958-965.	1.3	52
85	COLOR AND COD REMOVAL FROM POULTRY LITTER LEACHATE USING AN OZONATION PROCESS. Environmental Engineering and Management Journal, 2012, 11, 1467-1474.	0.2	5
86	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
87	Reuse of treated wastewater using sequencing batch bioreactor for the improvement of wheat growth. Journal of Water Reuse and Desalination, 2011, 1, 179-184.	1.2	6
88	The anaerobic digestion of solid organic waste. Waste Management, 2011, 31, 1737-1744.	3.7	762
89	Thermal evaporation and condensation synthesis of metallic Zn layered polyhedral microparticles. Materials Research Bulletin, 2011, 46, 2261-2265.	2.7	7
90	Large-scale synthesis of highly pure Cd metal hexagonal nanosheets. Materials Letters, 2011, 65, 1896-1899.	1.3	16

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91	Effect of electrodeposition and annealing of ZnO on optical and photovoltaic properties of the p-Cu <sub>2</sub> O/n-ZnO solar cells. <i>Electrochimica Acta</i> , 2011, 56, 8342-8346.	2.6	43
92	Assessment of genetic variability among selected species of Apocynaceae. <i>Biologia (Poland)</i> , 2011, 66, 64-67.	0.8	3
93	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
94	Role of Ethylene and Bacterial ACC Deaminase in Nodulation of Legumes. , 2010, , 103-122.		6
95	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
96	Plant Growth Promoting Rhizobacteria and Sustainable Agriculture. , 2009, , 133-160.		49
97	Proteome Analysis of Probenazole-Effect in Rice-Bacterial Blight Interactions. <i>Protein and Peptide Letters</i> , 2009, 16, 1041-1052.	0.4	8
98	Germin and Germin-like Proteins: Evolution, Structure, and Function. <i>Critical Reviews in Plant Sciences</i> , 2008, 27, 342-375.	2.7	216
99	GEANT4: Applications in High Energy Physics. <i>AIP Conference Proceedings</i> , 2007, , .	0.3	0
100	Proteomic Analysis of Jasmonic Acid-Regulated Proteins in Rice Leaf Blades. <i>Protein and Peptide Letters</i> , 2007, 14, 311-319.	0.4	12
101	Cloning and sequence analysis of germin-like protein gene 2 promoter from <i>Oryza sativa</i> L. ssp. indica. <i>DNA Sequence</i> , 2007, 18, 26-32.	0.7	14
102	Proteomic analysis of bacterial-blight defense-responsive proteins in rice leaf blades. <i>Proteomics</i> , 2006, 6, 6053-6065.	1.3	105