Asad Syed

List of Publications by Year
in descending order

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203	5,366	109321	144013
papers	citations	35 h-index	57 g-index

209	209	209	4595
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Green synthesis of anisotropic zinc oxide nanoparticles with antibacterial and cytofriendly properties. Microbial Pathogenesis, 2018, 115, 57-63.	2.9	202
2	Review on biomass feedstocks, pyrolysis mechanism and physicochemical properties of biochar: State-of-the-art framework to speed up vision of circular bioeconomy. Journal of Cleaner Production, 2021, 297, 126645.	9.3	202
3	Intracellular synthesis of gold nanoparticles using alga Tetraselmis kochinensis. Materials Letters, 2012, 79, 116-118.	2.6	186
4	Biological synthesis of silver nanoparticles using the fungus Humicola sp. and evaluation of their cytoxicity using normal and cancer cell lines. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2013, 114, 144-147.	3.9	174
5	Green synthesis and characterization of gold nanoparticles using endophytic fungi Fusarium solani and its in-vitro anticancer and biomedical applications. Saudi Journal of Biological Sciences, 2020, 27, 706-712.	3.8	166
6	Extracellular biosynthesis of platinum nanoparticles using the fungus Fusarium oxysporum. Colloids and Surfaces B: Biointerfaces, 2012, 97, 27-31.	5.0	147
7	Green synthesis of silver nanoparticles using Laminaria japonica extract: Characterization and seedling growth assessment. Journal of Cleaner Production, 2018, 172, 2910-2918.	9.3	141
8	ACC deaminase and antioxidant enzymes producing halophilic Enterobacter sp. PR14 promotes the growth of rice and millets under salinity stress. Physiology and Molecular Biology of Plants, 2020, 26, 1847-1854.	3.1	110
9	Extracellular biosynthesis of CdTe quantum dots by the fungus Fusarium oxysporum and their anti-bacterial activity. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2013, 106, 41-47.	3.9	81
10	Synthesis and antimicrobial photodynamic effect of methylene blue conjugated carbon nanotubes on E. coli and S. aureus. Photochemical and Photobiological Sciences, 2019, 18, 563-576.	2.9	80
11	Co-Inoculation of Rhizobacteria and Biochar Application Improves Growth and Nutrientsin Soybean and Enriches Soil Nutrients and Enzymes. Agronomy, 2020, 10, 1142.	3.0	70
12	Antimicrobial photodynamic activity of toluidine blue encapsulated in mesoporous silica nanoparticles againstPseudomonas aeruginosaandStaphylococcus aureus. Biofouling, 2019, 35, 89-103.	2.2	69
13	In silico evaluation of flavonoids as effective antiviral agents on the spike glycoprotein of SARS-CoV-2. Saudi Journal of Biological Sciences, 2021, 28, 1040-1051.	3.8	66
14	Antimicrobial photodynamic activity of toluidine blue-carbon nanotube conjugate against Pseudomonas aeruginosa and Staphylococcus aureus - Understanding the mechanism of action. Photodiagnosis and Photodynamic Therapy, 2019, 27, 305-316.	2.6	63
15	Photocatalytic degradation of an organic dye using Ag doped ZrO2 nanoparticles: Milk powder facilitated eco-friendly synthesis. Journal of King Saud University - Science, 2020, 32, 1872-1878.	3.5	62
16	Structure and Microbial Synthesis of Sub-10 nm Bi₂O₃ Nanocrystals. Journal of Nanoscience and Nanotechnology, 2008, 8, 3909-3913.	0.9	58
17	Co-inoculation of rhizobacteria promotes growth, yield, and nutrient contents in soybean and improves soil enzymes and nutrients under drought conditions. Scientific Reports, 2021, 11, 22081.	3.3	58
18	Gold nanoconjugates reinforce the potency of conjugated cisplatin and doxorubicin. Colloids and Surfaces B: Biointerfaces, 2017, 160, 254-264.	5.0	54

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19	PGMD/curcumin nanoparticles for the treatment of breast cancer. Scientific Reports, 2021, 11, 3824.	3.3	54
20	Removal of levofloxacin from aqueous solution by green synthesized magnetite (Fe3O4) nanoparticles using Moringa olifera: Kinetics and reaction mechanism analysis. Ecotoxicology and Environmental Safety, 2021, 226, 112826.	6.0	54
21	Genistein: A Potent Anti-Breast Cancer Agent. Current Issues in Molecular Biology, 2021, 43, 1502-1517.	2.4	53
22	Zirconia Enrichment in Zircon Sand by Selective Fungus-Mediated Bioleaching of Silica. Langmuir, 2007, 23, 4993-4998.	3.5	52
23	Bioâ€inspired synthesis of silver nanoparticles from leaf extracts of Cleistanthus collinus (Roxb.): its potential antibacterial and anticancer activities. IET Nanobiotechnology, 2018, 12, 343-348.	3.8	52
24	Synthesis of N-doped potassium tantalate perovskite material for environmental applications. Journal of Solid State Chemistry, 2018, 258, 647-655.	2.9	52
25	Chrysin-Loaded Chitosan Nanoparticles Potentiates Antibiofilm Activity against Staphylococcus aureus. Pathogens, 2020, 9, 115.	2.8	51
26	Halotolerant Microbial Consortia for Sustainable Mitigation of Salinity Stress, Growth Promotion, and Mineral Uptake in Tomato Plants and Soil Nutrient Enrichment. Sustainability, 2021, 13, 8369.	3.2	48
27	Differential responses of maize (Zea mays) at the physiological, biomolecular, and nutrient levels when cultivated in the presence of nano or bulk ZnO or CuO or Zn2+ or Cu2+ ions. Journal of Hazardous Materials, 2021, 419, 126493.	12.4	46
28	Process optimization and characterization of pectin derived from underexploited pineapple peel biowaste as a value-added product. Food Hydrocolloids, 2022, 123, 107141.	10.7	46
29	Rapid colorimetric detection of mercury using silver nanoparticles in the presence of methionine. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 228, 117712.	3.9	45
30	Fungicide-Tolerant Plant Growth-Promoting Rhizobacteria Mitigate Physiological Disruption of White Radish Caused by Fungicides Used in the Field Cultivation. International Journal of Environmental Research and Public Health, 2020, 17, 7251.	2.6	44
31	Heavy Metals Induced Modulations in Growth, Physiology, Cellular Viability, and Biofilm Formation of an Identified Bacterial Isolate. ACS Omega, 2021, 6, 25076-25088.	3.5	44
32	Elucidation of photocatalysis, photoluminescence and antibacterial studies of Ag2MoO4 decorated NiMoO4 nano-heterostructure. Optical Materials, 2021, 113, 110856.	3.6	43
33	Designing spinel NiCr2O4 loaded Bi2O3 semiconductor hybrid for mitigating the charge recombination and tuned band gap for enhanced white light photocatalysis and antibacterial applications. Journal of Alloys and Compounds, 2021, 865, 158735.	5.5	43
34	Colorimetric detection of Cu²⁺ based on the formation of peptideâ€“copper complexes on silver nanoparticle surfaces. Beilstein Journal of Nanotechnology, 2018, 9, 1414-1422.	2.8	42
35	Attenuation of quorum sensing regulated virulence and biofilm development in Pseudomonas aeruginosa PAO1 by Diaporthe phaseolorum SSP12. Microbial Pathogenesis, 2018, 118, 177-189.	2.9	40
36	Antimicrobial photodynamic inactivation of fungal biofilm using amino functionalized mesoporus silica-rose bengal nanoconjugate against Candida albicans. Scientific African, 2018, 1, e00007.	1.5	40

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37	Impact of metal-oxide nanoparticles on growth, physiology and yield of tomato (Solanum) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 116218.	7.5	39
38	A simple approach for the synthesis of bi-functional p-n type ZnO@CuFe2O4 heterojunction nanocomposite for photocatalytic and antimicrobial application. Physica E: Low-Dimensional Systems and Nanostructures, 2021, 130, 114664.	2.7	38
39	Photohydrogen production from dark-fermented palm oil mill effluent (DPOME) and statistical optimization: Renewable substrate for hydrogen. Journal of Cleaner Production, 2018, 199, 11-17.	9.3	37
40	Experimental assessment of performance, combustion and emission characteristics of diesel engine fuelled by combined non-edible blends with nanoparticles. Fuel, 2021, 295, 120590.	6.4	37
41	Mesorhizobium ciceri as biological tool for improving physiological, biochemical and antioxidant state of Cicer aritienum (L.) under fungicide stress. Scientific Reports, 2021, 11, 9655.	3.3	36
42	Decoration of Ag2WO4 on plate-like MnS for mitigating the charge recombination and tuned bandgap for enhanced white light photocatalysis and antibacterial applications. Journal of Alloys and Compounds, 2021, 889, 161662.	5.5	36
43	Construction of nano-heterojunction AgFeO2â€“ZnO for boosted photocatalytic performance and its antibacterial applications. Materials Science in Semiconductor Processing, 2021, 133, 105924.	4.0	35
44	Beijerinckia fluminensis BFC-33, a novel multi-stress-tolerant soil bacterium: Deciphering the stress amelioration, phytopathogenic inhibition and growth promotion in Triticum aestivum (L.). Chemosphere, 2022, 295, 133843.	8.2	34
45	Silver nanoparticle probe for colorimetric detection of aminoglycoside antibiotics: picomolarâ€level sensitivity toward streptomycin in water, serum, and milk samples. Journal of the Science of Food and Agriculture, 2020, 100, 874-884.	3.5	33
46	A Mixture of Piper Leaves Extracts and Rhizobacteria for Sustainable Plant Growth Promotion and Bio-Control of Blast Pathogen of Organic Bali Rice. Sustainability, 2020, 12, 8490.	3.2	33
47	Drought Tolerant Enterobacter sp./Leclercia adecarboxylata Secretes Indole-3-acetic Acid and Other Biomolecules and Enhances the Biological Attributes of Vigna radiata (L.) R. Wilczek in Water Deficit Conditions. Biology, 2021, 10, 1149.	2.8	33
48	An intensified approach for transesterification of biodiesel from Annona squamosa seed oil using ultrasound-assisted homogeneous catalysis reaction and its process optimization. Fuel, 2021, 291, 120195.	6.4	32
49	Preparation of plasmonic CoS/Ag2WO4 nanocomposites: Efficient visible light driven photocatalysts and enhanced anti-microbial activity. Colloids and Interface Science Communications, 2021, 42, 100415.	4.1	29
50	Integrating Ag2WO4 on VS4 nanoplates with synergy of plasmonic photocatalysis and boosted visible-light harvesting and its antibacterial applications. Journal of Alloys and Compounds, 2021, 865, 158810.	5.5	29
51	A general microwave synthesis of metal (Ni, Cu, Zn) selenide nanoparticles and their competitive interaction with human serum albumin. New Journal of Chemistry, 2018, 42, 5759-5766.	2.8	28
52	Biogenic Synthesis of NiO Nanoparticles Using Areca catechu Leaf Extract and Their Antidiabetic and Cytotoxic Effects. Molecules, 2021, 26, 2448.	3.8	28
53	Antimicrobial photodynamic therapy on Staphylococcus aureus and Escherichia coli using malachite green encapsulated mesoporous silica nanoparticles: an in vitro study. PeerJ, 2019, 7, e7454.	2.0	28
54	Synthesis of biocompatible chitosan decorated silver nanoparticles biocomposites for enhanced antimicrobial and anticancer property. Process Biochemistry, 2020, 99, 348-356.	3.7	27

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55	Mercury removal from aqueous solution using petal-like MoS2 nanosheets. Frontiers of Environmental Science and Engineering, 2021, 15, 1.	6.0	27
56	Luteolin-Fabricated ZnO Nanostructures Showed PLK-1 Mediated Anti-Breast Cancer Activity. Biomolecules, 2021, 11, 385.	4.0	27
57	Visible light driven photocatalytic activity and efficient antibacterial activity of ZnFe2O4 decorated CdO nanohybrid heterostructures synthesized by ultrasonic-assisted method. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 628, 127307.	4.7	27
58	Fabrication of intimately coupled CeO2/ZnFe2O4 nano-heterojunction for visible-light photocatalysis and bactericidal application. Materials Chemistry and Physics, 2022, 279, 125759.	4.0	27
59	UVâ€“vis spectroscopic method for the sensitive and selective detection of mercury by silver nanoparticles in presence of alanine. Optik, 2020, 204, 164160.	2.9	26
60	Biogenic Silver Nanoparticles Decorated with Methylene Blue Potentiated the Photodynamic Inactivation of Pseudomonas aeruginosa and Staphylococcus aureus. Pharmaceutics, 2020, 12, 709.	4.5	26
61	Enhanced antibacterial and visible light driven photocatalytic activity of CaFe2O4 doped CdO heterojunction nanohybrid particles prepared by sono-chemical method. Optical Materials, 2021, 113, 110595.	3.6	26
62	Facile synthesis of MgS/Ag2MoO4 nanohybrid heterojunction: Outstanding visible light harvesting for boosted photocatalytic degradation of MB and its anti-microbial applications. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 627, 127097.	4.7	26
63	Designing Z-scheme AgIO4 nanorod embedded with Bi2S3 nanoflakes for expeditious visible light photodegradation of congo red and rhodamine B. Chemosphere, 2022, 294, 133755.	8.2	26
64	Molecular and Morphological Characterization of a Taxol-Producing Endophytic Fungus,Gliocladiumsp., fromTaxus baccata. Mycobiology, 2011, 39, 151-157.	1.7	25
65	Malachite green-conjugated multi-walled carbon nanotubes potentiate antimicrobial photodynamic inactivation of planktonic cells and biofilms of Pseudomonas aeruginosa and Staphylococcus aureus . International Journal of Nanomedicine, 2019, Volume 14, 3861-3874.	6.7	25
66	Anticancer and genotoxicity effect of (Clausena lansium (Lour.) Skeels) Peel ZnONPs on neuroblastoma (SH-SY5Y) cells through the modulation of autophagy mechanism. Journal of Photochemistry and Photobiology B: Biology, 2020, 203, 111748.	3.8	25
67	Evaluation of Annona muricata Acetogenins as Potential Anti-SARS-CoV-2 Agents Through Computational Approaches. Frontiers in Chemistry, 2020, 8, 624716.	3.6	25
68	Spinel FeV2O4 coupling on nanocube-like Bi2O3 for high performance white light photocatalysis and antibacterial applications. Journal of Alloys and Compounds, 2021, 887, 161432.	5.5	25
69	Effect of CeO2-ZnO Nanocomposite for Photocatalytic and Antibacterial Activities. Crystals, 2020, 10, 817.	2.2	24
70	Physiological disruption, structural deformation and low grain yield induced by neonicotinoid insecticides in chickpea: A long term phytotoxicity investigation. Chemosphere, 2021, 262, 128388.	8.2	24
71	Influence of lauryl betaine on aqueous solution stability, foamability and foam stability. Journal of Petroleum Exploration and Production, 2019, 9, 2659-2665.	2.4	23
72	Bromelain capped gold nanoparticles as the novel drug delivery carriers to aggrandize effect of the antibiotic levofloxacin. EXCLI Journal, 2016, 15, 772-780.	0.7	23

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73	Designing intimate porous Al2O3 decorated 2D CdO nano-heterojunction as enhanced white light driven photocatalyst and antibacterial agent. Journal of Alloys and Compounds, 2022, 896, 162807.	5.5	23
74	Biological characteristics and biomarkers of novel SARS-CoV-2 facilitated rapid development and implementation of diagnostic tools and surveillance measures. Biosensors and Bioelectronics, 2021, 177, 112969.	10.1	22
75	Co-fermentation of residual algal biomass and glucose under the influence of Fe3O4 nanoparticles to enhance biohydrogen production under dark mode. Bioresource Technology, 2021, 342, 126034.	9.6	22
76	Graphene quantum dot and iron co-doped TiO2 photocatalysts: Synthesis, performance evaluation and phytotoxicity studies. Ecotoxicology and Environmental Safety, 2021, 226, 112855.	6.0	22
77	A Spectral Probe for Detection of Aluminum (III) Ions Using Surface Functionalized Gold Nanoparticles. Nanomaterials, 2017, 7, 287.	4.1	21
78	Colorimetric detection of mercury ions from environmental water sample by using 3-(Trimethoxysilyl)propyl methacrylate functionalized Ag NPs-tryptophan nanoconjugate. Journal of Photochemistry and Photobiology B: Biology, 2020, 207, 111888.	3.8	21
79	Performance analysis of novel Bi6Cr2O15 coupled Co3O4 nano-heterostructure constructed by ultrasonic assisted method: Visible-light driven photocatalyst and antibacterial agent. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 622, 126671.	4.7	21
80	Novel NiS/Ag2MoO4 heterostructure nanocomposite: Synthesis, characterization and superior antibacterial and enhanced photocatalytic activity. Physica E: Low-Dimensional Systems and Nanostructures, 2021, 133, 114767.	2.7	21
81	Differential bioaccumulations and ecotoxicological impacts of metal-oxide nanoparticles, bulk materials, and metal-ions in cucumbers grown in sandy clay loam soil. Environmental Pollution, 2021, 289, 117854.	7.5	21
82	Isolation of limonoid compound (Hamisonine) from endophytic fungi Penicillium oxalicum LA-1 (KX622790) of Limonia acidissima L. for its larvicidal efficacy against LF vector, Culex quinquefasciatus (Diptera: Culicidae). Environmental Science and Pollution Research, 2017, 24, 21272-21282.	5.3	20
83	Chlortetracycline-Functionalized Silver Nanoparticles as a Colorimetric Probe for Aminoglycosides: Ultrasensitive Determination of Kanamycin and Streptomycin. Nanomaterials, 2020, 10, 997.	4.1	20
84	Vincamine, a safe natural alkaloid, represents a novel anticancer agent. Bioorganic Chemistry, 2021, 107, 104626.	4.1	20
85	Synthesis of novel heterostructured FeS2/Ag2MoO4 nanocomposite: Characterization, efficient antibacterial and enhanced visible light driven photocatalytic activity. Surfaces and Interfaces, 2021, 23, 101003.	3.0	20
86	Biosynthesis of Anti-Proliferative Gold Nanoparticles Using Endophytic Fusarium oxysporum Strain Isolated from Neem (A. indica) Leaves. Current Topics in Medicinal Chemistry, 2016, 16, 2036-2042.	2.1	20
87	Gallic acid-functionalized silver nanoparticles as colorimetric and spectrophotometric probe for detection of Al3+ in aqueous medium. Journal of Industrial and Engineering Chemistry, 2020, 82, 243-253.	5.8	19
88	Poly-(Lactic-co-Glycolic) Acid Nanoparticles for Synergistic Delivery of Epirubicin and Paclitaxel to Human Lung Cancer Cells. Molecules, 2020, 25, 4243.	3.8	19
89	Enhanced SPR signals based on methylenediphosphonic acid functionalized Ag NPs for the detection of Hg(II) in the presence of an antioxidant glutathione. Journal of Molecular Liquids, 2020, 311, 113281.	4.9	19
90	Highly selective and effective environmental mercuric ion detection method based on starch modified Ag NPs in presence of glycine. Optics Communications, 2020, 465, 125564.	2.1	19

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91	High performance MnO2â€“Al2O3 nanocomposite as white light photocatalyst and bactericidal agent: Insights on photoluminescence and intrinsic mechanism. Optical Materials, 2021, 120, 111438.	3.6	19
92	Fruit Derived Potentially Bioactive Bioengineered Silver Nanoparticles. International Journal of Nanomedicine, 2021, Volume 16, 7711-7726.	6.7	19
93	Novel Genomic and Evolutionary Perspective of Cyanobacterial tRNAs. Frontiers in Genetics, 2017, 8, 200.	2.3	18
94	Highly sensitive and selective colorimetric detection of arginine by polyvinylpyrrolidone functionalized silver nanoparticles. Journal of Molecular Liquids, 2020, 300, 112361.	4.9	18
95	Investigation of Antifungal Properties of Synthetic Dimethyl-4-Bromo-1-(Substituted Benzoyl) Pyrrolo[1,2-a] Quinoline-2,3-Dicarboxylates Analogues: Molecular Docking Studies and Conceptual DFT-Based Chemical Reactivity Descriptors and Pharmacokinetics Evaluation. Molecules, 2021, 26, 2722.	3.8	18
96	Coupling of nano-spinel MgFe2O4 on Co3O4 for heterogeneous photocatalysis and antibacterial applications: Insights of optoelectrical properties. Colloids and Interface Science Communications, 2021, 44, 100467.	4.1	18
97	Nutratherapeutics approach against cancer: tomatoâ€mediated synthesised gold nanoparticles. IET Nanobiotechnology, 2018, 12, 1-5.	3.8	17
98	In-vitro antibacterial, antioxidant potentials and cytotoxic activity of the leaves of Tridax procumbens. Saudi Journal of Biological Sciences, 2020, 27, 757-761.	3.8	17
99	Preparation of Ag-cellulose nanocomposite for the selective detection and quantification of mercury at nanomolar level and the evaluation of its photocatalytic performance. International Journal of Biological Macromolecules, 2020, 164, 911-919.	7.5	17
100	Phyto-Mediated Synthesis of Silver Nanoparticles Using Terminalia chebula Fruit Extract and Evaluation of Its Cytotoxic and Antimicrobial Potential. Molecules, 2020, 25, 5042.	3.8	17
101	Construction of Ag2WO4 decorated CoWO4 nano-heterojunction with recombination delay for enhanced visible light photocatalytic performance and its antibacterial applications. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 629, 127416.	4.7	17
102	Purification and kinetics of the PHB depolymerase of Microbacterium paraoxydans RZS6 isolated from a dumping yard. PLoS ONE, 2019, 14, e0212324.	2.5	16
103	Polyethylene glycol functionalised Ag NPs based optical probe for the selective and sensitive detection of Hg(II). Journal of Molecular Liquids, 2020, 307, 112978.	4.9	16
104	Development of silver-polyvinylpyrrolidone nanocomposite for the selective and sensitive detection of sulfide from aqueous sample and its antimicrobial activity. Materials Chemistry and Physics, 2021, 257, 123789.	4.0	16
105	Synthesis of gallotannin capped iron oxide nanoparticles and their broad spectrum biological applications. RSC Advances, 2021, 11, 9880-9893.	3.6	16
106	Antitumor Potential of Green Synthesized ZnONPs Using Root Extract of Withania somnifera against Human Breast Cancer Cell Line. Separations, 2021, 8, 8.	2.4	16
107	Virtual screening of potential phyto-candidates as therapeutic leads against SARS-CoV-2 infection. Environmental Challenges, 2021, 4, 100136.	4.2	16
108	Lignocellulosic composition based thermal kinetic study of Mangiferaindica Lam, Artocarpus Heterophyllus Lam and Syzygium Jambolana seeds. Bioresource Technology, 2021, 341, 125891.	9.6	16

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109	Extracellular Biosynthesis of Metal Sulfide Nanoparticles Using the Fungus Fusarium oxysporum. Current Nanoscience, 2014, 10, 588-595.	1.2	16
110	Spectrophotometric determination of Fe(III) by using casein-functionalized gold nanoparticles. Mikrochimica Acta, 2017, 184, 4695-4704.	5.0	15
111	Cadmium oxide nanoparticles: An attractive candidate for novel therapeutic approaches. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 585, 124017.	4.7	15
112	Production, purification and evaluation of biodegradation potential of PHB depolymerase of Stenotrophomonas sp. RZS7. PLoS ONE, 2020, 15, e0220095.	2.5	15
113	Synthesis of Carbon Stabilized Zinc Oxide Nanoparticles and Evaluation of Its Photocatalytic, Antibacterial and Anti-biofilm Activities. Journal of Inorganic and Organometallic Polymers and Materials, 2020, 30, 2279-2288.	3.7	15
114	Tree bark scrape fungus: A potential source of laccase for application in bioremediation of non-textile dyes. PLoS ONE, 2020, 15, e0229968.	2.5	15
115	Everything Old Is New Again: Drug Repurposing Approach for Non-Small Cell Lung Cancer Targeting MAPK Signaling Pathway. Frontiers in Oncology, 2021, 11, 741326.	2.8	15
116	Enhanced biogas production potential analysis of rice straw: Biomass characterization, kinetics and anaerobic co-digestion investigations. Bioresource Technology, 2022, 358, 127391.	9.6	15
117	Purification and kinetic behavior of glucose isomerase from Streptomyces lividans RSU26. Saudi Journal of Biological Sciences, 2020, 27, 1117-1123.	3.8	14
118	Facile synthesis of Ag/Cu-cellulose nanocomposite for detection, photocatalysis and anti-microbial applications. Optik, 2020, 220, 165218.	2.9	14
119	Diosgenin Loaded Polymeric Nanoparticles with Potential Anticancer Efficacy. Biomolecules, 2020, 10, 1679.	4.0	14
120	Assessment of Chemopreventive Potential of the Plant Extracts against Liver Cancer Using HepG2 Cell Line. Molecules, 2021, 26, 4593.	3.8	14
121	New Insight into the Chemical Composition, Antimicrobial and Synergistic Effects of the Moroccan Endemic Thymus atlanticus (Ball) Roussine Essential Oil in Combination with Conventional Antibiotics. Molecules, 2021, 26, 5850.	3.8	14
122	Plants and endophytes â€“ a partnership for the coumarin production through the microbial systems. Mycology, 2022, 13, 243-256.	4.4	14
123	Silicate nanoparticles by bioleaching of glass and modification of the glass surface. Journal of Non-Crystalline Solids, 2008, 354, 3433-3437.	3.1	13
124	Development of an electrochemical enzyme-free glucose sensor based on self-assembled Ptâ€“Pd bimetallic nanosuperlattices. Analyst, The, 2020, 145, 7898-7906.	3.5	13
125	Preparation, Spectroscopic Characterization, Theoretical Investigations, and In Vitro Anticancer Activity of Cd(II), Ni(II), Zn(II), and Cu(II) Complexes of 4(3H)-Quinazolinone-Derived Schiff Base. Molecules, 2020, 25, 5973.	3.8	13
126	Exploring the Antibacterial and Antibiofilm Efficacy of Silver Nanoparticles Biosynthesized Using Punica granatum Leaves. Molecules, 2021, 26, 5762.	3.8	13

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127	Titanium Dioxide Nanoparticles Induce Inhibitory Effects against Planktonic Cells and Biofilms of Human Oral Cavity Isolates of Rothia mucilaginosa, Georgenia sp. and Staphylococcus saprophyticus. Pharmaceutics, 2021, 13, 1564.	4.5	13
128	Evaluation of enhanced production of cellulose deconstructing enzyme using natural and alkali pretreated sugar cane bagasse under the influence of graphene oxide. Bioresource Technology, 2021, 342, 126015.	9.6	13
129	Understanding the phytotoxic impact of Al3+, nano-size, and bulk Al2O3 on growth and physiology of maize (Zea mays L.) in aqueous and soil media. Chemosphere, 2022, 300, 134555.	8.2	13
130	Î±Au₂S nanoparticles: Fungal-mediated synthesis, structural characterization and bioassay. Green Chemistry Letters and Reviews, 2022, 15, 61-70.	4.7	13
131	Sericin-functionalized GNPs potentiate the synergistic effect of levofloxacin and balofloxacin against MDR bacteria. Microbial Pathogenesis, 2020, 148, 104467.	2.9	12
132	Improved visible-light driven photocatalysis of a novel heterostructure by the decoration of CuS on Ag2MoO4 nanorod: Synthesis, characterization, elucidation of photocatalytic mechanism and anti-microbial application. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 629, 127371.	4.7	12
133	The Effect of Various Capping Agents on Surface Modifications of CdO NPs and the Investigation of Photocatalytic Performance, Antibacterial and Anti-biofilm Activities. Journal of Inorganic and Organometallic Polymers and Materials, 2020, 30, 1865-1876.	3.7	12
134	Continuous photocatalysis via Z-scheme based nanocatalyst system for environmental remediation of pharmaceutically active compound: Modification, reaction site, defect engineering and challenges on the nanocatalyst. Journal of Molecular Liquids, 2022, 353, 118745.	4.9	12
135	Citrate functionalized Ag NPs-polyethylene glycol nanocomposite for the sensitive and selective detection of mercury (II) ion, photocatalytic and antimicrobial applications. Physica E: Low-Dimensional Systems and Nanostructures, 2020, 124, 114335.	2.7	11
136	Highly selective and sensitive tool for the detection of Hg(II) using 3-(Trimethoxysilyl) propyl methacrylate functionalized Ag-Ce nanocomposite from real water sample. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 242, 118738.	3.9	11
137	Antimicrobial and synergistic effect of Moroccan native Argania spinosa essential oil for modulating of antibiotics resistance. Natural Product Research, 2021, 35, 6078-6082.	1.8	11
138	Phytochemical profiling, antioxidant and antibacterial efficacy of a native Himalayan Fern: Woodwardia unigemmata (Makino) Nakai. Saudi Journal of Biological Sciences, 2020, 27, 1961-1967.	3.8	11
139	Naphthyridine derived colorimetric and fluorescent turn off sensors for Ni2+ in aqueous media. Scientific Reports, 2021, 11, 19242.	3.3	11
140	Biogenic enabled in-vitro synthesis of nickel cobaltite nanoparticle and its application in single stage hybrid biohydrogen production. Bioresource Technology, 2021, 342, 126006.	9.6	11
141	Synthesis, Computational Pharmacokinetics Report, Conceptual DFT-Based Calculations and Anti-Acetylcholinesterase Activity of Hydroxyapatite Nanoparticles Derived From Acorus Calamus Plant Extract. Frontiers in Chemistry, 2021, 9, 741037.	3.6	11
142	Photocatalytic degradation of methyl orange by cadmium oxide nanoparticles synthesized by the sol-gel method. Optik, 2022, 251, 168401.	2.9	11
143	Physical manipulation of biological and chemical syntheses for nanoparticle shape and size control. Applied Physics Letters, 2006, 89, 263105.	3.3	10
144	Synthesis of Dandelionâ€"like CuO microspheres for photocatalytic degradation of reactive black-5. Materials Research Express, 2018, 5, 015053.	1.6	10

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145	Synthesis of CTAB functionalized MnS/PVP-Ag nanocomposite for Hg2+ detection, photocatalysis and antibacterial application. Optical Materials, 2020, 110, 110452.	3.6	10
146	Functional reduced graphene oxide/cobalt hydroxide composite for energy storage applications. Materials Letters, 2020, 276, 128193.	2.6	10
147	Nano-decolorization of methylene blue by Phyllanthus reticulatus iron nanoparticles: an eco-friendly synthesis and its antimicrobial, phytotoxicity study. Applied Nanoscience (Switzerland), 2023, 13, 2527-2537.	3.1	10
148	Integrating plasmonic effect and nano-heterojunction formation for boosted light harvesting and photocatalytic performance using CaWO4/Ag2MoO4 and its antibacterial applications. Materials Science in Semiconductor Processing, 2021, 133, 105921.	4.0	10
149	Alzheimerâ€™s Disease and Herbal Combination Therapy: A Comprehensive Review. Journal of Alzheimer's Disease Reports, 2020, 4, 417-429.	2.2	9
150	Tumoricidal Potential of Novel Amino-1,10-phenanthroline Derived Imine Ligands: Chemical Preparation, Structure, and Biological Investigations. Molecules, 2020, 25, 2865.	3.8	9
151	A potent multifunctional MnS/Ag-polyvinylpyrrolidone nanocomposite for enhanced detection of Hg2+ from aqueous samples and its photocatalytic and antibacterial applications. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2021, 244, 118844.	3.9	9
152	Development of multifunctional Cu sensitized Ag-dextran nanocomposite for selective and sensitive detection of mercury from environmental sample and evaluation of its photocatalytic and anti-microbial applications. Journal of Molecular Liquids, 2021, 321, 114742.	4.9	9
153	Bioremediation characteristics, influencing factors of dichlorodiphenyltrichloroethane (DDT) removal by using non-indigenous Paracoccus sp.. Chemosphere, 2021, 270, 129474.	8.2	9
154	Studies on Zero-cost algae based phytoremediation of dye and heavy metal from simulated wastewater. Bioresource Technology, 2021, 342, 125971.	9.6	9
155	Non-noble metal (Ni, Cu)-carbon composite derived from porous organic polymers for high-performance seawater electrolysis. Environmental Pollution, 2021, 289, 117861.	7.5	9
156	SPR based gold nano-probe as optical sensor for cysteine detection via plasmonic enhancement in the presence of Cr3+. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2022, 265, 120356.	3.9	9
157	Nevirapine Loaded Core Shell Gold Nanoparticles by Double Emulsion Solvent Evaporation: In vitro and In vivo Evaluation. Current Drug Delivery, 2016, 13, 1071-1083.	1.6	9
158	Graphene oxide mediated enhanced cellulase production using pomegranate waste following co-cultured condition with improved pH and thermal stability. Fuel, 2022, 312, 122807.	6.4	9
159	Upper rim modified calix[4]arene towards selective turn-on fluorescence sensor for spectroscopically silent metal ions. Inorganica Chimica Acta, 2021, 516, 120133.	2.4	8
160	Chemical composition and synergistic effect of three Moroccan lavender EOs with ciprofloxacin against foodborne bacteria: a promising approach to modulate antimicrobial resistance. Letters in Applied Microbiology, 2021, 72, 698-705.	2.2	8
161	Biosorption of oxybenzene using biosorbent prepared by raw wastes of Zea mays and comparative study by using commercially available activated carbon. Saudi Journal of Biological Sciences, 2021, 28, 3469-3476.	3.8	8
162	Designing spinel CoFe2O4 loaded sheet-like Bi2O3 nano-heterostructure for synergetic white-light photocatalysis with recombination delay and antibacterial applications. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 629, 127449.	4.7	8

#	Article	IF	Citations
163	Impact of mixed lignocellulosic substrate and fungal consortia to enhance cellulase production and its application in NiFe2O4 nanoparticles mediated enzymatic hydrolysis of wheat straw. Bioresource Technology, 2022, 345, 126560.	9.6	8
164	Silver-doped cadmium sulfide for electrochemical water oxidation. Applied Nanoscience (Switzerland), 2020, 10, 4351-4358.	3.1	7
165	A systematic review and meta-analysis on the prevalence of infectious diseases of Duck: A world perspective. Saudi Journal of Biological Sciences, 2021, 28, 5131-5144.	3.8	7
166	Performance analysis of novel La6WO12/Ag2WO4 nano-system for efficient visible-light photocatalysis and antimicrobial activity. Journal of Alloys and Compounds, 2021, 879, 160075.	5.5	7
167	High performance nanohybrid CeO2@2D CdO plates with suppressed charge recombination: Insights of photoluminescence, visible-light photocatalysis, intrinsic mechanism and antibacterial activity. Optical Materials, 2021, 121, 111510.	3.6	7
168	A novel SPR based Fe@Ag coreâ€“shell nanosphere entrapped on starch matrix an optical probe for sensing of mercury(II) ion: A nanomolar detection, wide pH range and real water sample application. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2021, 263, 120204.	3.9	7
169	The toxicity analysis of PVP, PVA and PEG surface functionalized ZnO nanoparticles on embryonic as well as adultÂDanio rerio. Environmental Monitoring and Assessment, 2021, 193, 824.	2.7	7
170	Potentially Bioactive Fungus Mediated Silver Nanoparticles. Nanomaterials, 2021, 11, 3227.	4.1	7
171	Plant growth promoting strain Bacillus cereus (RCS-4 MZ520573.1) enhances phytoremediation potential of Cynodon dactylon L. in distillery sludge. Environmental Research, 2022, 208, 112709.	7.5	7
172	The aqueous dependent sensing of hydrazine and phosphate anions using a bis-heteroleptic Ru(<scp>ii</scp>) complex with a phthalimideâ€“anchored pyridine-triazole ligand. Analyst, The, 2021, 146, 1430-1443.	3.5	6
173	Biological synthesis of Î±-Ag2S composite nanoparticles using the fungus Humicola sp. and its biomedical applications. Journal of Drug Delivery Science and Technology, 2021, 66, 102770.	3.0	6
174	N-((1H-Pyrrol-2-yl)methylene)-6-methoxypyridin-3-amine and Its Co(II) and Cu(II) Complexes as Antimicrobial Agents: Chemical Preparation, In Vitro Antimicrobial Evaluation, In Silico Analysis and Computational and Theoretical Chemistry Investigations. Molecules, 2022, 27, 1436.	3.8	6
175	Influence of Dy³⁺ co-doping on the luminescence properties of bluish-green Ba_{1â^'0.5y}Sr_{1â^'0.5y}Al₂SiO₇:yEu²⁺ phosphors. New Journal of Chemistry, 2020, 44, 15821-15827.	2.8	5
176	Development of Ag decorated Au core-shell nanospheres for the detection of Cr(III) from environmental sample. Optical Materials, 2021, 120, 111409.	3.6	5
177	Visible-light sensitization and recombination delay through coupling CaFe2O4 on Bi2O3 nanocomposite for high performance photocatalytic and antibacterial applications. Surfaces and Interfaces, 2021, 26, 101336.	3.0	5
178	Virtual Screening for Potential Phytobioactives as Therapeutic Leads to Inhibit NQO1 for Selective Anticancer Therapy. Molecules, 2021, 26, 6863.	3.8	5
179	AR independent anticancer potential of enza against prostate cancer. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 642, 128598.	4.7	5
180	Hydrogen Peroxide-Assisted Hydrothermal Synthesis of BiFeO3 Microspheres and Their Dielectric Behavior. Magnetochemistry, 2020, 6, 42.	2.4	4

#	Article	IF	Citations
181	Incidence and antimicrobial profile of extended-spectrum Î²-lactamase producing gram-negative bacterial isolates: An in-vitro and statistical analysis. Journal of Infection and Public Health, 2020, 13, 1729-1733.	4.1	4
182	Facile two-step electrochemical approach for the fabrication of nanostructured nickel oxyhydroxide/SS and its studies on oxygen evolution reaction. Chemical Papers, 2021, 75, 2485-2494.	2.2	4
183	Synthesis and characterization of poly-3-(9H-carbazol-9-yl)propylmethacrylate as a gel electrolyte for dye-sensitized solar cell applications. Polymer Bulletin, 2022, 79, 921-934.	3.3	4
184	Ag0 decorated Cr2S3 NPs embedded on PVP matrix: A colorimetric probe for selective and rapid detection of sulphide ions from environmental samples. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2022, 264, 120253.	3.9	4
185	Structural, Electronic, Vibrational and Pharmacological Investigations of Highly Functionalized Diarylmethane Molecules Using DFT Calculations, Molecular Dynamics and Molecular Docking. Polycyclic Aromatic Compounds, 2023, 43, 2177-2195.	2.6	4
186	Histidine Functionalized Gold Nanoparticles for Screening Aminoglycosides and Nanomolar Level Detection of Streptomycin in Water, Milk, and Whey. Chemosensors, 2021, 9, 358.	3.6	4
187	Green synthesis of Cu/Fe3O4nanocomposite using Calendula extract and evaluation of its catalytic activity for chemoselective oxidation of sulfides to sulfoxides with aqueous hydrogen peroxide. Journal of Organometallic Chemistry, 2021, 954-955, 122077.	1.8	3
188	Genotoxic assay of silver and zinc oxide nanoparticles synthesized by leaf extract of Garcinia livingstonei T. Anderson: A comparative study. Pharmacognosy Magazine, 2021, 17, 114.	0.6	3
189	Potential antileptospiral constituents from Phyllanthus amarus. Pharmacognosy Magazine, 2020, 16, 371.	0.6	3
190	Validation of enhanced OER performance of the amorphous Al2O3-added Co3O4/NiO two-dimensional ternary nanocomposite. Chemical Papers, 0, , 1.	2.2	3
191	Significance of Immune Status of SARS-CoV-2 Infected Patients in Determining the Efficacy of Therapeutic Interventions. Journal of Personalized Medicine, 2022, 12, 349.	2.5	3
192	Isolation and characterization of plant growth promoting rhizobacteria and their biocontrol efficacy against phytopathogens of tomato (Solanum lycopersicum L.). Plant Biosystems, 2020, , 1-7.	1.6	2
193	In vitro antimicrobial and synergistic effect of essential oil from the red macroalgae Centroceras clavulatum (C. Agardh) Montagne with conventional antibiotics. Asian Pacific Journal of Tropical Biomedicine, 2021, 11, 414.	1.2	2
194	Facile Hydrothermal Synthesis of Tungsten Tri-oxide/Titanium Di-oxide Nanohybrid Structures as Photocatalyst for Wastewater Treatment Application. Journal of Cluster Science, 2022, 33, 1327-1336.	3.3	2
195	In silico screening and validation of KPHS_00890 protein of Klebsiella pneumoniae proteome: An application to bacterial resistance and pathogenesis. Journal of King Saud University - Science, 2021, 33, 101537.	3.5	2
196	Investigation of Pharmaceutical Importance of 2H-Pyran-2-One Analogues via Computational Approaches. Symmetry, 2021, 13, 1619.	2.2	2
197	Isolation and identification of Leptospira species from bovines by rpoB and LipL41 genes based phylogenetic analysis. Journal of King Saud University - Science, 2021, 33, 101272.	3.5	1
198	Callus induction and shoot regeneration from the immature flower bud of Caesalpinia bonducella and its antileptospiral potential by in vitro and in silico analysis. Pharmacognosy Magazine, 2021, 17, 38.	0.6	1

#	Article	IF	Citations
199	Identification and Characterization of Downy Mildew-Responsive microRNAs in Indian Vitis vinifera by High-Throughput Sequencing. Journal of Fungi (Basel, Switzerland), 2021, 7, 899.	3.5	1
200	Sulfonated PVdF-HFP/shuttle-like SrBaWO4 nanocomposite membranes for the evolution of high performance and durable DMFCs. Solid State Ionics, 2021, 372, 115776.	2.7	1
201	An insight into reactivity and bioactivity properties of quorum sensing peptides against PDE10A: a computational peptidology approach. Journal of Molecular Modeling, 2022, 28, .	1.8	1
202	Cu Nanoparticles Anchored over Chitosan-Alginate Modified Magnetic Nanoparticles to Explore the C-N Heterocoupling Reactions. Polycyclic Aromatic Compounds, 0, , 1-12.	2.6	0
203	Cu Nanoparticles Anchored over Chitosan-Alginate Modified Magnetic Nanoparticles to Explore the C-N Heterocoupling Reactions. Polycyclic Aromatic Compounds, 0, , 1-13.	2.6	0