

Arpita Roy

List of Publications by Year in descending order

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79
papers

1,992
citations

257450

24
h-index

289244

40
g-index

81
all docs

81
docs citations

81
times ranked

1058
citing authors

#	ARTICLE	IF	CITATIONS
1	Biological agents for synthesis of nanoparticles and their applications. Journal of King Saud University - Science, 2022, 34, 101869.	3.5	143
2	Current Prospects of Nutraceuticals: A Review. Current Pharmaceutical Biotechnology, 2020, 21, 884-896.	1.6	122
3	Exploring the Journey of Zinc Oxide Nanoparticles (ZnO-NPs) toward Biomedical Applications. Materials, 2022, 15, 2160.	2.9	122
4	Understanding the holistic approach to plant-microbe remediation technologies for removing heavy metals and radionuclides from soil. Current Research in Biotechnology, 2021, 3, 84-98.	3.7	112
5	Degradation of dyes using biologically synthesized silver and copper nanoparticles. Environmental Nanotechnology, Monitoring and Management, 2020, 13, 100278.	2.9	85
6	Silver nanoparticle synthesis from <i>Plumbago zeylanica</i> and its dye degradation activity. Bioinspired, Biomimetic and Nanobiomaterials, 2019, 8, 130-140.	0.9	69
7	Flavonoids a Bioactive Compound from Medicinal Plants and Its Therapeutic Applications. BioMed Research International, 2022, 2022, 1-9.	1.9	66
8	Structural Properties and Antimicrobial Activities of Polyalthia longifolia Leaf Extract-Mediated CuO Nanoparticles. BioNanoScience, 2021, 11, 579-589.	3.5	65
9	Nanomaterials for Remediation of Environmental Pollutants. Bioinorganic Chemistry and Applications, 2021, 2021, 1-16.	4.1	60
10	Biological Synthesis of Nanocatalysts and Their Applications. Catalysts, 2021, 11, 1494.	3.5	54
11	Applications of Nanomaterials in Agrifood and Pharmaceutical Industry. Journal of Nanomaterials, 2021, 2021, 1-10.	2.7	50
12	Antimicrobial Peptides as Potential Therapeutic Agents: A Review. International Journal of Peptide Research and Therapeutics, 2021, 27, 555-577.	1.9	49
13	Nanomaterials: An alternative source for biodegradation of toxic dyes. Food and Chemical Toxicology, 2022, 164, 112996.	3.6	47
14	Bioremediation of heavy metals from wastewater using nanomaterials. Environment, Development and Sustainability, 2021, 23, 9617-9640.	5.0	46
15	In silico analysis of selected alkaloids against main protease (Mpro) of SARS-CoV-2. Chemico-Biological Interactions, 2020, 332, 109309.	4.0	44
16	Antibacterial and Dye Degradation Activity of Green Synthesized Iron Nanoparticles. Journal of Nanomaterials, 2022, 2022, 1-6.	2.7	39
17	Molecular docking analysis of selected phytochemicals against SARS-CoV-2 Mpro receptor. Vegetos, 2020, 33, 766-781.	1.5	36
18	A Review on the Biosurfactants: Properties, Types and its Applications. Journal of Fundamentals of Renewable Energy and Applications, 2018, 08, .	0.2	35

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19	Plumbagin: A Potential Anti-cancer Compound. <i>Mini-Reviews in Medicinal Chemistry</i> , 2021, 21, 731-737.	2.4	34
20	Biotechnological Approaches for the Production of Pharmaceutically Important Compound: Plumbagin. <i>Current Pharmaceutical Biotechnology</i> , 2018, 19, 372-381.	1.6	32
21	Fungus and plant-mediated synthesis of metallic nanoparticles and their application in degradation of dyes. , 2021, , 287-308.		31
22	Hydrogen-based sono-hybrid catalytic degradation and mitigation of industrially-originated dye-based pollutants. <i>International Journal of Hydrogen Energy</i> , 2023, 48, 6597-6612.	7.1	31
23	Plant Derived Silver Nanoparticles and their Therapeutic Applications. <i>Current Pharmaceutical Biotechnology</i> , 2021, 22, 1834-1847.	1.6	30
24	Role of medicinal plants against Alzheimer's disease. <i>International Journal of Complementary & Alternative Medicine</i> , 2018, 11, .	0.1	28
25	Allium cepa: A Treasure of Bioactive Phytochemicals with Prospective Health Benefits. <i>Evidence-based Complementary and Alternative Medicine</i> , 2022, 2022, 1-27.	1.2	28
26	Establishment of root suspension culture of <i>Plumbago zeylanica</i> and enhanced production of plumbagin. <i>Industrial Crops and Products</i> , 2019, 137, 419-427.	5.2	27
27	Cytotoxicity, Removal of Congo Red Dye in Aqueous Solution Using Synthesized Amorphous Iron Oxide Nanoparticles from Incense Sticks Ash Waste. <i>Journal of Nanomaterials</i> , 2022, 2022, 1-12.	2.7	26
28	Efficient removal of heavy metals from artificial wastewater using biochar. <i>Environmental Nanotechnology, Monitoring and Management</i> , 2021, 16, 100602.	2.9	22
29	Plant-Mediated Synthesis and Characterization of Silver and Copper Oxide Nanoparticles: Antibacterial and Heavy Metal Removal Activity. <i>Journal of Cluster Science</i> , 2022, 33, 1697-1712.	3.3	21
30	Minor tropical fruits as a potential source of bioactive and functional foods. <i>Critical Reviews in Food Science and Nutrition</i> , 2023, 63, 6491-6535.	10.3	21
31	Medicinal Plants as a Potential Source of Chemopreventive Agents. , 2018, , 109-139.		20
32	Role of Microbes and Nanomaterials in the Removal of Pesticides from Wastewater. <i>International Journal of Photoenergy</i> , 2022, 2022, 1-12.	2.5	20
33	Hairy Root Culture an Alternative for Bioactive Compound Production from Medicinal Plants. <i>Current Pharmaceutical Biotechnology</i> , 2020, 22, 136-149.	1.6	19
34	Role of Medicinal Plants against Neurodegenerative Diseases. <i>Current Pharmaceutical Biotechnology</i> , 2022, 23, 123-139.	1.6	18
35	Venom-Derived Bioactive Compounds as Potential Anticancer Agents: A Review. <i>International Journal of Peptide Research and Therapeutics</i> , 2021, 27, 129-147.	1.9	17
36	Role of plant derived bioactive compounds against cancer. <i>South African Journal of Botany</i> , 2022, 149, 1017-1028.	2.5	17

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37	Phytoremediation: An alternative approach for removal of dyes. , 2022, , 369-386.		17
38	Graphene: A Multifunctional Nanomaterial with Versatile Applications. Advances in Materials Science and Engineering, 2021, 2021, 1-8.	1.8	17
39	Effect of Different Carbon Sources and Elicitors on Shoot Multiplication in Accessions of <i>Centella asiatica</i> . , 2016, 05, .		16
40	Remediation of heavy metals using nanophytoremediation. , 2021, , 273-296.		15
41	Effect of various culture conditions on shoot multiplication and GCâ€“MS analysis of <i>Plumbago zeylanica</i> accessions for plumbagin production. Acta Physiologiae Plantarum, 2018, 40, 1.	2.1	13
42	Ethnobotanical Uses, Phytochemistry, Toxicology, and Pharmacological Properties of <i>Euphorbia nerifolia</i> Linn. against Infectious Diseases: A Comprehensive Review. Molecules, 2022, 27, 4374.	3.8	13
43	Microplastics in marine and aquatic habitats: sources, impact, and sustainable remediation approaches. Environmental Sustainability, 2022, 5, 39-49.	2.8	12
44	Medicinal Plants in the Management of Cancer: A Review. International Journal of Complementary & Alternative Medicine, 2017, 9, .	0.1	11
45	Evaluation of bioactive compounds from <i>Boswellia serrata</i> against SARS-CoV-2. Vegetos, 2022, 35, 404-414.	1.5	11
46	Potential Benefits of Nutraceuticals for Oxidative Stress Management. Revista Brasileira De Farmacognosia, 2022, 32, 211-220.	1.4	11
47	<i>Solanum tuberosum</i> Leaf Extract Templated Synthesis of Co ₃ O ₄ Nanoparticles for Electrochemical Sensor and Antibacterial Applications. Bioinorganic Chemistry and Applications, 2022, 2022, 1-15.	4.1	11
48	Biotechnological methods for the production of ginsenosides. South African Journal of Botany, 2021, 141, 25-36.	2.5	10
49	Structure-Based In Silico Investigation of Agonists for Proteins Involved in Breast Cancer. Evidence-based Complementary and Alternative Medicine, 2022, 2022, 1-12.	1.2	10
50	Assessment of bacoside production, total phenol content and antioxidant potential of elicited and non-elicited shoot cultures of <i>Bacopa monnieri</i> (L.). Environmental Sustainability, 2019, 2, 441-453.	2.8	9
51	A Current Perspective of Plants as an Antibacterial Agent: A Review. Current Pharmaceutical Biotechnology, 2020, 21, 1588-1602.	1.6	9
52	Silver Nanoparticles Synthesis from a Pharmaceutically Important Medicinal Plant <i>Plumbago Zeylanica</i> . MOJ Bioequivalence & Bioavailability, 2017, 3, .	0.1	8
53	In silico analysis of plumbagin against cyclin-dependent kinases receptor. Vegetos, 2021, 34, 50-56.	1.5	7
54	Role of Different Peptides for Cancer Immunotherapy. International Journal of Peptide Research and Therapeutics, 2021, 27, 2777-2793.	1.9	7

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55	Effect of different media and growth hormones on shoot multiplication of in vitro grown <i>Centella asiatica</i> accessions. <i>Advanced Techniques in Biology & Medicine</i> , 2015, 04, .	0.1	7
56	Ultrasensitive and Selective Electrochemical Detection of Dopamine Based on CuO/PVA Nanocomposite-Modified GC Electrode. <i>International Journal of Photoenergy</i> , 2022, 2022, 1-9.	2.5	7
57	Biobutanol preparation through sugar-rich biomass by <i>Clostridium saccharoperbutylacetonicum</i> conversion using ZnO nanoparticle catalyst. <i>Biomass Conversion and Biorefinery</i> , 0, , 1.	4.6	7
58	Fatty Acid Methyl Ester Profile Analysis of In-Vitro Grown Accessions of <i>Plumbago zeylanica</i> . <i>Natural Products Chemistry & Research</i> , 2018, 06, .	0.2	6
59	Media optimization using Box Behnken design for enhanced production of biomass, beta-carotene and lipid from <i>Dunaliella salina</i> . <i>Vegetos</i> , 2020, 33, 31-39.	1.5	6
60	Effect Of Different Culture Medias On Shoot Multiplication And Stigmasterol Content In Accessions Of <i>Centella Asiatica</i> . <i>International Journal of Ayurvedic and Herbal Medicine</i> , 0, , .	0.0	6
61	Role of Cannabinoids in Various Diseases: A Review. <i>Current Pharmaceutical Biotechnology</i> , 2022, 23, 1346-1358.	1.6	6
62	Assessment of phytochemical and genetic diversity analysis of <i>Plumbago zeylanica</i> accessions. <i>Genetic Resources and Crop Evolution</i> , 2022, 69, 209-219.	1.6	5
63	Biofertilizers for Agricultural Sustainability: Current Status and Future Challenges. <i>Environmental and Microbial Biotechnology</i> , 2021, , 525-553.	0.7	5
64	Estimation of Asiaticoside by Using RP-HPLC and FAME Analysis of Medicinally Important Plant <i>Centella asiatica</i> . <i>Journal of Plant Biochemistry & Physiology</i> , 2017, 05, .	0.5	5
65	Sensing beyond Senses: An Overview of Outstanding Strides in Architecting Nanopolymer-Enabled Sensors for Biomedical Applications. <i>Polymers</i> , 2022, 14, 601.	4.5	4
66	Evaluation of Antioxidant, Cytotoxic, Anti-Inflammatory, Antiarthritic, Thrombolytic, and Anthelmintic Activity of Methanol Extract of <i>Lepidagathis hyalina</i> Nees Root. <i>Evidence-based Complementary and Alternative Medicine</i> , 2022, 2022, 1-10.	1.2	4
67	Fungal Secondary Metabolites: Biological Activity and Potential Applications. <i>Fungal Biology</i> , 2021, , 159-188.	0.6	3
68	Removal of toxic pollutants using microbial fuel cells. , 2020, , 153-177.		3
69	<i>Centella Asiatica</i> : A Pharmaceutically Important Medicinal Plant. <i>Current Trends in Biomedical Engineering & Biosciences</i> , 2017, 5, .	0.2	3
70	Effect of Various Culture Parameters on the Bio-surfactant Production from Bacterial Isolates. <i>Journal of Petroleum & Environmental Biotechnology</i> , 2017, 08, .	0.3	3
71	Establishment of the Shoot and Callus Culture of an Important Medicinal Plant <i>Plumbago zeylanica</i> . <i>Advances in Plants & Agriculture Research</i> , 2017, 7, .	0.3	3
72	A Review on the Nutritional Aspects of Wild Edible Plants. <i>Current Traditional Medicine</i> , 2021, 7, 552-563.	0.4	3

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73	Nanomaterials and Bioactive Compounds against SARS-CoV-2. Journal of Nanomaterials, 2022, 2022, 1-13.	2.7	3
74	Fungal Communities for the Remediation of Environmental Pollutants. Fungal Biology, 2021, , 127-165.	0.6	2
75	Medicinal Plants against Ischemic Stroke. Current Pharmaceutical Biotechnology, 2021, 22, 1302-1314.	1.6	2
76	Centellosides: pharmaceutical applications and production enhancement strategies. Plant Cell, Tissue and Organ Culture, 0, , 1.	2.3	2
77	Factors Associated with the Prevalence of Hepatitis B among Volunteer Blood Donors at Jimma Blood Bank, South Ethiopia. Canadian Journal of Gastroenterology and Hepatology, 2022, 2022, 1-5.	1.9	2
78	Herd Immunity Against Coronavirus: A Review. Recent Patents on Biotechnology, 2022, 16, 256-265.	0.8	1
79	Bacosides: a pharmaceutically important compound. Proceedings of the National Academy of Sciences India Section B - Biological Sciences, 2021, 91, 753-759.	1.0	0