

Siavash Iravani

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

90
papers

4,803
citations

26
h-index

68
g-index

100
ext. papers

6,279
ext. citations

5.4
avg, IF

7.3
L-index

#	Paper	IF	Citations
90	Green synthesis of metal nanoparticles using plants. <i>Green Chemistry</i> , 2011 , 13, 2638	10	1907
89	Plant-derived nanostructures: types and applications. <i>Green Chemistry</i> , 2016 , 18, 20-52	10	257
88	Production of nanoparticles using organisms. <i>Critical Reviews in Biotechnology</i> , 2009 , 29, 279-306	9.4	209
87	Bacteria in Nanoparticle Synthesis: Current Status and Future Prospects. <i>International Scholarly Research Notices</i> , 2014 , 2014, 359316	0	202
86	Starch, cellulose, pectin, gum, alginate, chitin and chitosan derived (nano)materials for sustainable water treatment: A review. <i>Carbohydrate Polymers</i> , 2021 , 251, 116986	10.3	174
85	Greener synthesis of lignin nanoparticles and their applications. <i>Green Chemistry</i> , 2020 , 22, 612-636	10	169
84	Green synthesis of silver nanoparticles using Pinus eldarica bark extract. <i>BioMed Research International</i> , 2013 , 2013, 639725	3	140
83	Green synthesis, biomedical and biotechnological applications of carbon and graphene quantum dots. A review. <i>Environmental Chemistry Letters</i> , 2020 , 18, 1-25	13.3	136
82	Green-synthesized nanocatalysts and nanomaterials for water treatment: Current challenges and future perspectives. <i>Journal of Hazardous Materials</i> , 2021 , 401, 123401	12.8	124
81	Optimization of biological synthesis of silver nanoparticles using Lactobacillus casei subsp. casei. <i>Journal of Chemical Technology and Biotechnology</i> , 2012 , 87, 932-937	3.5	113
80	Plants and plant-based polymers as scaffolds for tissue engineering. <i>Green Chemistry</i> , 2019 , 21, 4839-4867		80
79	Carbon-based sustainable nanomaterials for water treatment: State-of-art and future perspectives. <i>Chemosphere</i> , 2021 , 263, 128005	8.4	80
78	Nanomaterials and Nanotechnology-Associated Innovations against Viral Infections with a Focus on Coronaviruses. <i>Nanomaterials</i> , 2020 , 10,	5.4	76
77	Plant molecular farming: production of metallic nanoparticles and therapeutic proteins using green factories. <i>Green Chemistry</i> , 2019 , 21, 1845-1865	10	75
76	Technology and potential applications of probiotic encapsulation in fermented milk products. <i>Journal of Food Science and Technology</i> , 2015 , 52, 4679-96	3.3	61
75	Plant-Derived Edible Nanoparticles and miRNAs: Emerging Frontier for Therapeutics and Targeted Drug-Delivery. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 8055-8069	8.3	59
74	Metallic nanoparticles: green synthesis and spectroscopic characterization. <i>Environmental Chemistry Letters</i> , 2017 , 15, 223-231	13.3	58

73	Biosynthesis of silver nanoparticles using <i>Saccharomyces cerevisiae</i> . <i>Artificial Cells, Nanomedicine and Biotechnology</i> , 2016 , 44, 235-9	6.1	55
72	Optimization of Biological Synthesis of Silver Nanoparticles using <i>Fusarium oxysporum</i> . <i>Iranian Journal of Pharmaceutical Research</i> , 2013 , 12, 289-98	1.1	52
71	Nano- and biosensors for the detection of SARS-CoV-2: challenges and opportunities. <i>Materials Advances</i> , 2020 , 1, 3092-3103	3.3	50
70	Sustainable synthesis of cobalt and cobalt oxide nanoparticles and their catalytic and biomedical applications. <i>Green Chemistry</i> , 2020 , 22, 2643-2661	10	47
69	Bacteria in Heavy Metal Remediation and Nanoparticle Biosynthesis. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 5395-5409	8.3	44
68	Biofactories: engineered nanoparticles via genetically engineered organisms. <i>Green Chemistry</i> , 2019 , 21, 4583-4603	10	42
67	Cockroach wings-promoted safe and greener synthesis of silver nanoparticles and their insecticidal activity. <i>Bioprocess and Biosystems Engineering</i> , 2019 , 42, 2007-2014	3.7	30
66	Diatoms with Invaluable Applications in Nanotechnology, Biotechnology, and Biomedicine: Recent Advances. <i>ACS Biomaterials Science and Engineering</i> , 2021 , 7, 3053-3068	5.5	28
65	Synthesis of silver nanoparticles using methanol and dichloromethane extracts of <i>Pulicaria gnaphalodes</i> (Vent.) Boiss. aerial parts. <i>Artificial Cells, Nanomedicine and Biotechnology</i> , 2016 , 44, 328-333 ^{6.1}	6.1	26
64	Silver Nanoparticles 2012 ,		26
63	Quantum dots for photocatalysis: synthesis and environmental applications. <i>Green Chemistry</i> , 2021 , 23, 4931-4954	10	22
62	Green biosynthesis of silver nanoparticles using <i>Quercus brantii</i> (oak) leaves hydroalcoholic extract. <i>Pharmaceutical Biology</i> , 2015 , 53, 807-12	3.8	21
61	SARS-CoV-2 (COVID-19): New Discoveries and Current Challenges. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 3641	2.6	20
60	Green synthesis of bimetallic ZnO-CuO nanoparticles and their cytotoxicity properties. <i>Scientific Reports</i> , 2021 , 11, 23479	4.9	20
59	Plants in Nanoparticle Synthesis. <i>Reviews in Advanced Sciences and Engineering</i> , 2014 , 3, 261-274		19
58	MXenes for Cancer Therapy and Diagnosis: Recent Advances and Current Challenges. <i>ACS Biomaterials Science and Engineering</i> , 2021 , 7, 1900-1913	5.5	19
57	Trimetallic Nanoparticles: Greener Synthesis and Their Applications. <i>Nanomaterials</i> , 2020 , 10,	5.4	18
56	Biosynthesis of spinel nickel ferrite nanowhiskers and their biomedical applications. <i>Scientific Reports</i> , 2021 , 11, 17431	4.9	18

55	Eco-friendly and sustainable synthesis of biocompatible nanomaterials for diagnostic imaging: current challenges and future perspectives. <i>Green Chemistry</i> , 2020 , 22, 2662-2687	10	17
54	MXenes and MXene-based materials for tissue engineering and regenerative medicine: recent advances. <i>Materials Advances</i> , 2021 , 2, 2906-2917	3.3	17
53	Biosynthesis of lead oxide and cerium oxide nanoparticles and their cytotoxic activities against colon cancer cell line. <i>Inorganic Chemistry Communication</i> , 2021 , 131, 108800	3.1	16
52	Carbon-based nanomaterials for targeted cancer nanotherapy: recent trends and future prospects. <i>Journal of Drug Targeting</i> , 2021 , 29, 716-741	5.4	15
51	Molecularly imprinted polymers for the detection of viruses: challenges and opportunities. <i>Analyst, The</i> , 2021 , 146, 3087-3100	5	15
50	Lignin, lipid, protein, hyaluronic acid, starch, cellulose, gum, pectin, alginate and chitosan-based nanomaterials for cancer nanotherapy: Challenges and opportunities. <i>International Journal of Biological Macromolecules</i> , 2021 , 178, 193-228	7.9	14
49	MXenes and MXene-based Materials for the Removal of Water Pollutants: Challenges and Opportunities. <i>Comments on Inorganic Chemistry</i> , 2021 , 41, 213-248	3.9	13
48	Green biosynthesis of silver nanoparticles using <i>Althaea officinalis</i> radix hydroalcoholic extract. <i>Artificial Cells, Nanomedicine and Biotechnology</i> , 2016 , 44, 209-15	6.1	12
47	CoreShell Nanophotocatalysts: Review of Materials and Applications. <i>ACS Applied Nano Materials</i> , 2022 , 5, 55-86	5.6	10
46	Plant gums for sustainable and eco-friendly synthesis of nanoparticles: recent advances. <i>Inorganic and Nano-Metal Chemistry</i> , 2020 , 50, 469-488	1.2	9
45	Silver Nanoparticles 2010 ,		9
44	Synthesis of silver nanoparticles using biotransformations by <i>Saccharomyces boulardii</i> . <i>Green Processing and Synthesis</i> , 2014 , 3,	3.9	8
43	Phytosynthesis of Nanoparticles 2015 , 203-258		8
42	Theranostic applications of metalOrganic frameworks (MOFs)-based materials in brain disorders: Recent advances and challenges. <i>Inorganic Chemistry Communication</i> , 2021 , 134, 108997	3.1	8
41	Green and Eco-Friendly Synthesis of Nanophotocatalysts: An Overview. <i>Comments on Inorganic Chemistry</i> , 2021 , 41, 133-187	3.9	8
40	Important Roles of Oligo- and Polysaccharides against SARS-CoV-2: Recent Advances. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 3512	2.6	8
39	Smart MXene Quantum Dot-Based Nanosystems for Biomedical Applications.. <i>Nanomaterials</i> , 2022 , 12,	5.4	8
38	MXenes and MXene-based Materials with Cancer Diagnostic Applications: Challenges and Opportunities. <i>Comments on Inorganic Chemistry</i> , 1-34	3.9	7

37	Barium carbonate nanostructures: Biosynthesis and their biomedical applications. <i>Ceramics International</i> , 2021 , 47, 21045-21045	5.1	7
36	Potential inhibitors of SARS-CoV-2: recent advances. <i>Journal of Drug Targeting</i> , 2021 , 29, 349-364	5.4	7
35	Green biosynthesis of silver nanoparticles using <i>Azolla pinnata</i> whole plant hydroalcoholic extract. <i>Green Processing and Synthesis</i> , 2014 , 3,	3.9	6
34	Essential Oil Constituents of the Bark of <i>Pinus pinaster</i> from Iran. <i>Journal of Essential Oil-bearing Plants: JEOP</i> , 2012 , 15, 348-351	1.7	5
33	Plant Pollen Grains: A Move Towards Green Drug and Vaccine Delivery Systems. <i>Nano-Micro Letters</i> , 2021 , 13, 128	19.5	5
32	Leishmanicidal activities of biosynthesized BaCO (witherite) nanoparticles and their biocompatibility with macrophages. <i>Bioprocess and Biosystems Engineering</i> , 2021 , 44, 1957-1964	3.7	5
31	Cytotoxicity properties of plant-mediated synthesized K-doped ZnO nanostructures. <i>Bioprocess and Biosystems Engineering</i> , 2021 , 1	3.7	5
30	Bio-Based Synthesis of Magnetic Nanoparticles and Their Applications. <i>Nanotechnology in the Life Sciences</i> , 2019 , 13-31	1.1	4
29	Green Synthesis and Spectroscopic Characterization of Nanoparticles. <i>Sustainable Agriculture Reviews</i> , 2016 , 65-99	1.3	4
28	K-doped ZnO nanostructures: biosynthesis and parasiticidal application. <i>Journal of Materials Research and Technology</i> , 2021 , 15, 5445-5451	5.5	4
27	Ceramic magnetic ferrite nanoribbons: Eco-friendly synthesis and their antifungal and parasiticidal activity. <i>Ceramics International</i> , 2021 ,	5.1	4
26	Biomedical Applications of Lignin-Based Nanoparticles 2020 , 217-224		4
25	Green Synthesis, Characterization and Applications of Nanoparticles 2019 ,		4
24	Green Synthesis of Silica and Silicon Nanoparticles and Their Biomedical and Catalytic Applications. <i>Comments on Inorganic Chemistry</i> , 2021 , 1-56	3.9	4
23	Measurement of Oxidative Stress Using ESR Spectroscopy 2019 , 73-81		4
22	Methods for Preparation of Metal Nanoparticles 2017 , 15-31		3
21	MXenes for antimicrobial and antiviral applications: recent advances. <i>Materials Technology</i> , 1-16	2.1	3
20	Nanomaterials and nanotechnology for water treatment: recent advances. <i>Inorganic and Nano-Metal Chemistry</i> , 2020 , 1-31	1.2	3

19	Algae-derived materials for tissue engineering and regenerative medicine applications: current trends and future perspectives. <i>Emergent Materials</i> ,1	3.5	3
18	Core-shell hybrid nanoparticles: Production and application in agriculture and the environment 2020 , 21-32		2
17	Quantum dots against SARS-CoV-2: diagnostic and therapeutic potentials.. <i>Journal of Chemical Technology and Biotechnology</i> , 2022 ,	3.5	2
16	Ferromagnetic nickel (II) oxide (NiO) nanoparticles: biosynthesis, characterization and their antibacterial activities. <i>Rendiconti Lincei</i> , 2022 , 33, 127	1.7	2
15	Graphene and graphene oxide with anticancer applications: Challenges and future perspectives.. <i>MedComm</i> , 2022 , 3, e118	2.2	2
14	Plant Viruses and Bacteriophages for Eco-friendly Synthesis of Nanoparticles: Recent Trends and Important Challenges. <i>Comments on Inorganic Chemistry</i> ,1-23	3.9	2
13	EMR of Metallic Nanoparticles. <i>Advanced Structured Materials</i> , 2017 , 79-90	0.6	2
12	Plant Protein-Based Nanoparticles and Their Biomedical Applications 2019 , 177-191		2
11	NMR Spectroscopic Analysis in Characterization of Crude Oil and Related Products 2017 , 125-140		1
10	Electron paramagnetic resonance (EPR) spectroscopy: Food, biomedical and pharmaceutical analysis. <i>Biomedical Spectroscopy and Imaging</i> , 2020 , 9, 165-182	1.3	1
9	Nanomaterials against pathogenic viruses: greener and sustainable approaches. <i>Inorganic and Nano-Metal Chemistry</i> , 2020 , 1-17	1.2	1
8	Nanophotocatalysts against viruses and antibiotic-resistant bacteria: recent advances. <i>Critical Reviews in Microbiology</i> , 2021 , 1-16	7.8	1
7	Iron oxyhydroxide nanoparticles: green synthesis and their cytotoxicity activity against A549 human lung adenocarcinoma cells. <i>Rendiconti Lincei</i> ,1	1.7	1
6	Nanosponges for Water Treatment: Progress and Challenges. <i>Applied Sciences (Switzerland)</i> , 2022 , 12, 4182	2.6	1
5	Gold Nanostructures in Medicine and Biology 2020 , 175-183		0
4	Genetically Engineered Organisms: Possibilities and Challenges of Heavy Metal Removal and Nanoparticle Synthesis. <i>Clean Technologies</i> , 2022 , 4, 502-511	3.4	0
3	ESR of Irradiated Drugs and Excipients for Drug Control and Safety 2017 , 111-122		
2	Plant-Derived Edible Nanoparticles in Cancer Drug Delivery 2020 , 221-233		

- 1 Magnetic Resonance Spectroscopic Analysis in Brain Tumors **2019**, 43-58