Siavash Iravani

List of Publications by Year
in descending order

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91 papers	8,072 citations	87723 38 h-index	54797 84 g-index
100 all docs	100 docs citations	100 times ranked	8764 citing authors

#	Article	IF	Citations
1	Green synthesis of metal nanoparticles using plants. Green Chemistry, 2011, 13, 2638.	4.6	2,480
2	Starch, cellulose, pectin, gum, alginate, chitin and chitosan derived (nano)materials for sustainable water treatment: A review. Carbohydrate Polymers, 2021, 251, 116986.	5.1	385
3	Plant-derived nanostructures: types and applications. Green Chemistry, 2016, 18, 20-52.	4.6	341
4	Green synthesis, biomedical and biotechnological applications of carbon and graphene quantum dots. A review. Environmental Chemistry Letters, 2020, 18, 703-727.	8.3	311
5	Greener synthesis of lignin nanoparticles and their applications. Green Chemistry, 2020, 22, 612-636.	4.6	280
6	Bacteria in Nanoparticle Synthesis: Current Status and Future Prospects. International Scholarly Research Notices, 2014, 2014, 1-18.	0.9	279
7	Green-synthesized nanocatalysts and nanomaterials for water treatment: Current challenges and future perspectives. Journal of Hazardous Materials, 2021, 401, 123401.	6.5	259
8	Production of nanoparticles using organisms. Critical Reviews in Biotechnology, 2009, 29, 279-306.	5.1	252
9	Green Synthesis of Silver Nanoparticles UsingPinus eldaricaBark Extract. BioMed Research International, 2013, 2013, 1-5.	0.9	199
10	Carbon-based sustainable nanomaterials for water treatment: State-of-art and future perspectives. Chemosphere, 2021, 263, 128005.	4.2	184
11	Optimization of biological synthesis of silver nanoparticles using Lactobacillus casei subsp. casei. Journal of Chemical Technology and Biotechnology, 2012, 87, 932-937.	1.6	141
12	Plants and plant-based polymers as scaffolds for tissue engineering. Green Chemistry, 2019, 21, 4839-4867.	4.6	131
13	Nanomaterials and Nanotechnology-Associated Innovations against Viral Infections with a Focus on Coronaviruses. Nanomaterials, 2020, 10, 1072.	1.9	119
14	Sustainable synthesis of cobalt and cobalt oxide nanoparticles and their catalytic and biomedical applications. Green Chemistry, 2020, 22, 2643-2661.	4.6	118
15	Plant molecular farming: production of metallic nanoparticles and therapeutic proteins using green factories. Green Chemistry, 2019, 21, 1845-1865.	4.6	109
16	Plant-Derived Edible Nanoparticles and miRNAs: Emerging Frontier for Therapeutics and Targeted Drug-Delivery. ACS Sustainable Chemistry and Engineering, 2019, 7, 8055-8069.	3.2	95
17	Nano- and biosensors for the detection of SARS-CoV-2: challenges and opportunities. Materials Advances, 2020, 1, 3092-3103.	2.6	90
18	Technology and potential applications of probiotic encapsulation in fermented milk products. Journal of Food Science and Technology, 2015, 52, 4679-4696.	1.4	89

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19	Green synthesis of bimetallic ZnOâ€“CuO nanoparticles and their cytotoxicity properties. Scientific Reports, 2021, 11, 23479.	1.6	88
20	Metallic nanoparticles: green synthesis and spectroscopic characterization. Environmental Chemistry Letters, 2017, 15, 223-231.	8.3	84
21	MXenes for Cancer Therapy and Diagnosis: Recent Advances and Current Challenges. ACS Biomaterials Science and Engineering, 2021, 7, 1900-1913.	2.6	84
22	MXenes and MXene-based materials for tissue engineering and regenerative medicine: recent advances. Materials Advances, 2021, 2, 2906-2917.	2.6	82
23	Bacteria in Heavy Metal Remediation and Nanoparticle Biosynthesis. ACS Sustainable Chemistry and Engineering, 2020, 8, 5395-5409.	3.2	79
24	Biosynthesis of silver nanoparticles using Saccharomyces cerevisiae. Artificial Cells, Nanomedicine and Biotechnology, 2016, 44, 235-239.	1.9	77
25	Diatoms with Invaluable Applications in Nanotechnology, Biotechnology, and Biomedicine: Recent Advances. ACS Biomaterials Science and Engineering, 2021, 7, 3053-3068.	2.6	74
26	Quantum dots for photocatalysis: synthesis and environmental applications. Green Chemistry, 2021, 23, 4931-4954.	4.6	72
27	Biofactories: engineered nanoparticlesviagenetically engineered organisms. Green Chemistry, 2019, 21, 4583-4603.	4.6	64
28	Trimetallic Nanoparticles: Greener Synthesis and Their Applications. Nanomaterials, 2020, 10, 1784.	1.9	59
29	Optimization of Biological Synthesis of Silver Nanoparticles using Fusarium oxysporum. Iranian Journal of Pharmaceutical Research, 2013, 12, 289-98.	0.3	59
30	Biosynthesis of spinel nickel ferrite nanowhiskers and their biomedical applications. Scientific Reports, 2021, 11, 17431.	1.6	53
31	Carbon-based nanomaterials for targeted cancer nanotherapy: recent trends and future prospects. Journal of Drug Targeting, 2021, 29, 716-741.	2.1	52
32	Lignin, lipid, protein, hyaluronic acid, starch, cellulose, gum, pectin, alginate and chitosan-based nanomaterials for cancer nanotherapy: Challenges and opportunities. International Journal of Biological Macromolecules, 2021, 178, 193-228.	3.6	51
33	Coreâ€“Shell Nanophotocatalysts: Review of Materials and Applications. ACS Applied Nano Materials, 2022, 5, 55-86.	2.4	49
34	MXenes and MXene-based Materials for the Removal of Water Pollutants: Challenges and Opportunities. Comments on Inorganic Chemistry, 2021, 41, 213-248.	3.0	48
35	Eco-friendly and sustainable synthesis of biocompatible nanomaterials for diagnostic imaging: current challenges and future perspectives. Green Chemistry, 2020, 22, 2662-2687.	4.6	47
36	MXene-Graphene Composites: A Perspective on Biomedical Potentials. Nano-Micro Letters, 2022, 14, .	14.4	46

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37	MXenes and MXene-based (nano)structures: A perspective on greener synthesis and biomedical prospects. Ceramics International, 2022, 48, 24144-24156.	2.3	44
38	Cockroach wings-promoted safe and greener synthesis of silver nanoparticles and their insecticidal activity. Bioprocess and Biosystems Engineering, 2019, 42, 2007-2014.	1.7	41
39	Molecularly imprinted polymers for the detection of viruses: challenges and opportunities. Analyst, The, 2021, 146, 3087-3100.	1.7	41
40	Biosynthesis of lead oxide and cerium oxide nanoparticles and their cytotoxic activities against colon cancer cell line. Inorganic Chemistry Communication, 2021, 131, 108800.	1.8	36
41	Plant Pollen Grains: A Move Towards Green Drug and Vaccine Delivery Systems. Nano-Micro Letters, 2021, 13, 128.	14.4	33
42	Smart MXene Quantum Dot-Based Nanosystems for Biomedical Applications. Nanomaterials, 2022, 12, 1200.	1.9	33
43	Green and Eco-Friendly Synthesis of Nanophotocatalysts: An Overview. Comments on Inorganic Chemistry, 2021, 41, 133-187.	3.0	32
44	Synthesis of silver nanoparticles using methanol and dichloromethane extracts of Pulicaria gnaphalodes (Vent.) Boiss. aerial parts. Artificial Cells, Nanomedicine and Biotechnology, 2016, 44, 328-333.	1.9	31
45	SARS-CoV-2 (COVID-19): New Discoveries and Current Challenges. Applied Sciences (Switzerland), 2020, 10, 3641.	1.3	31
46	MXenes and MXene-based Materials with Cancer Diagnostic Applications: Challenges and Opportunities. Comments on Inorganic Chemistry, 2022, 42, 174-207.	3.0	31
47	Silver Nanoparticles. , 0, , .		30
48	Graphene and graphene oxide with anticancer applications: Challenges and future perspectives. MedComm, 2022, 3, e118.	3.1	30
49	Green biosynthesis of silver nanoparticles usingQuercus brantii(oak) leaves hydroalcoholic extract. Pharmaceutical Biology, 2015, 53, 807-812.	1.3	27
50	Potential inhibitors of SARS-CoV-2: recent advances. Journal of Drug Targeting, 2021, 29, 349-364.	2.1	27
51	Cytotoxicity properties of plant-mediated synthesized K-doped ZnO nanostructures. Bioprocess and Biosystems Engineering, 2022, 45, 97-105.	1.7	27
52	Nanomaterials and nanotechnology for water treatment: recent advances. Inorganic and Nano-Metal Chemistry, 2021, 51, 1615-1645.	0.9	26
53	Nanosponges for Drug Delivery and Cancer Therapy: Recent Advances. Nanomaterials, 2022, 12, 2440.	1.9	26
54	Green Synthesis of Silica and Silicon Nanoparticles and Their Biomedical and Catalytic Applications. Comments on Inorganic Chemistry, 2021, 41, 317-372.	3.0	23

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55	Plants in Nanoparticle Synthesis. Reviews in Advanced Sciences and Engineering, 2014, 3, 261-274.	0.6	23
56	Ceramic magnetic ferrite nanoribbons: Eco-friendly synthesis and their antifungal and parasiticidal activity. Ceramics International, 2022, 48, 3448-3454.	2.3	23
57	Eco-friendly synthesis of carbon nanotubes and their cancer theranostic applications. Materials Advances, 2022, 3, 4765-4782.	2.6	23
58	MXenes in photomedicine: advances and prospects. Chemical Communications, 2022, 58, 7336-7350.	2.2	23
59	Important Roles of Oligo- and Polysaccharides against SARS-CoV-2: Recent Advances. Applied Sciences (Switzerland), 2021, 11, 3512.	1.3	22
60	Theranostic applications of metalâ€“organic frameworks (MOFs)-based materials in brain disorders: Recent advances and challenges. Inorganic Chemistry Communication, 2021, 134, 108997.	1.8	22
61	MXenes for antimicrobial and antiviral applications: recent advances. Materials Technology, 2022, 37, 1890-1905.	1.5	20
62	Plant gums for sustainable and eco-friendly synthesis of nanoparticles: recent advances. Inorganic and Nano-Metal Chemistry, 2020, 50, 469-488.	0.9	19
63	Quantum dots against <scp>SARSâ€CoV</scp>â€2: diagnostic and therapeutic potentials. Journal of Chemical Technology and Biotechnology, 2022, 97, 1640-1654.	1.6	18
64	Ferromagnetic nickel (II) oxide (NiO) nanoparticles: biosynthesis, characterization and their antibacterial activities. Rendiconti Lincei, 2022, 33, 127-134.	1.0	18
65	Nanosponges for Water Treatment: Progress and Challenges. Applied Sciences (Switzerland), 2022, 12, 4182.	1.3	18
66	Iron oxyhydroxide nanoparticles: green synthesis and their cytotoxicity activity against A549 human lung adenocarcinoma cells. Rendiconti Lincei, 2022, 33, 461-469.	1.0	15
67	Bioinspired and biomimetic MXene-based structures with fascinating properties: recent advances. Materials Advances, 2022, 3, 4783-4796.	2.6	14
68	Green biosynthesis of silver nanoparticles usingAlthaea officinalisradix hydroalcoholic extract. Artificial Cells, Nanomedicine and Biotechnology, 2016, 44, 209-215.	1.9	13
69	Barium carbonate nanostructures: Biosynthesis and their biomedical applications. Ceramics International, 2021, 47, 21045-21050.	2.3	13
70	Algae-derived materials for tissue engineering and regenerative medicine applications: current trends and future perspectives. Emergent Materials, 2022, 5, 631-652.	3.2	13
71	Phytosynthesis of Nanoparticles. , 2015, , 203-258.		12
72	Leishmanicidal activities of biosynthesized BaCO3 (witherite) nanoparticles and their biocompatibility with macrophages. Bioprocess and Biosystems Engineering, 2021, 44, 1957-1964.	1.7	12

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73	Nanophotocatalysts against viruses and antibiotic-resistant bacteria: recent advances. Critical Reviews in Microbiology, 2022, 48, 67-82.	2.7	12
74	Silver Nanoparticles. , 2010, , .		11
75	K-doped ZnO nanostructures: biosynthesis and parasiticidal application. Journal of Materials Research and Technology, 2021, 15, 5445-5451.	2.6	11
76	Synthesis of silver nanoparticles using biotransformations by Saccharomyces boulardii. Green Processing and Synthesis, 2014, 3, .	1.3	10
77	Bio-Based Synthesis of Magnetic Nanoparticles and Their Applications. Nanotechnology in the Life Sciences, 2019, , 13-31.	0.4	8
78	Essential Oil Constituents of the Bark ofPinus pinasterfrom Iran. Journal of Essential Oil-bearing Plants: JEOP, 2012, 15, 348-351.	0.7	7
79	Biomedical Applications of Lignin-Based Nanoparticles. , 2020, , 217-224.		7
80	Genetically Engineered Organisms: Possibilities and Challenges of Heavy Metal Removal and Nanoparticle Synthesis. Clean Technologies, 2022, 4, 502-511.	1.9	7
81	Green biosynthesis of silver nanoparticles using Azolla pinnata whole plant hydroalcoholic extract. Green Processing and Synthesis, 2014, 3, .	1.3	6
82	Plant Protein-Based Nanoparticles and Their Biomedical Applications. , 2019, , 177-191.		5
83	Core-shell hybrid nanoparticles: Production and application in agriculture and the environment. , 2020, , 21-32.		5
84	Electron paramagnetic resonance (EPR) spectroscopy: Food, biomedical and pharmaceutical analysis. Biomedical Spectroscopy and Imaging, 2020, 9, 165-182.	1.2	5
85	Green Synthesis and Spectroscopic Characterization of Nanoparticles. Sustainable Agriculture Reviews, 2016, , 65-99.	0.6	4
86	Measurement of Oxidative Stress Using ESR Spectroscopy. , 2019, , 73-81.		4
87	Plant Viruses and Bacteriophages for Eco-friendly Synthesis of Nanoparticles: Recent Trends and Important Challenges. Comments on Inorganic Chemistry, 2022, 42, 226-248.	3.0	4
88	EMR of Metallic Nanoparticles. Advanced Structured Materials, 2017, , 79-90.	0.3	2
89	Nanomaterials against pathogenic viruses: greener and sustainable approaches. Inorganic and Nano-Metal Chemistry, 2021, 51, 1598-1614.	0.9	1
90	ESR of Irradiated Drugs and Excipients for Drug Control and Safety. , 2017, , 111-122.		0

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91	Magnetic Resonance Spectroscopic Analysis in Brain Tumors. , 2019, , 43-58.		0