Siavash Iravani

List of Publications by Year in Descending Order

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	Quantum dots against SARS-CoV-2: diagnostic and therapeutic potentials.. *Journal of Chemical Technology and Biotechnology*, **2022**,	3.5	2
89	Core□Shell Nanophotocatalysts: Review of Materials and Applications. *ACS Applied Nano Materials*, **2022**, 5, 55-86	5.6	10
88	Ferromagnetic nickel (II) oxide (NiO) nanoparticles: biosynthesis, characterization and their antibacterial activities. *Rendiconti Lincei*, **2022**, 33, 127	1.7	2
87	Graphene and graphene oxide with anticancer applications: Challenges and future perspectives.. *MedComm*, **2022**, 3, e118	2.2	2
86	Smart MXene Quantum Dot-Based Nanosystems for Biomedical Applications.. *Nanomaterials*, **2022**, 12,	5.4	8
85	Nanosponges for Water Treatment: Progress and Challenges. *Applied Sciences (Switzerland)*, **2022**, 12, 4182	2.6	1
84	Genetically Engineered Organisms: Possibilities and Challenges of Heavy Metal Removal and Nanoparticle Synthesis. *Clean Technologies*, **2022**, 4, 502-511	3.4	0
83	Green synthesis of bimetallic ZnO-CuO nanoparticles and their cytotoxicity properties. *Scientific Reports*, **2021**, 11, 23479	4.9	20
82	K-doped ZnO nanostructures: biosynthesis and parasiticidal application. *Journal of Materials Research and Technology*, **2021**, 15, 5445-5451	5.5	4
81	Ceramic magnetic ferrite nanoribbons: Eco-friendly synthesis and their antifungal and parasiticidal activity. *Ceramics International*, **2021**,	5.1	4
80	Theranostic applications of metal□organic frameworks (MOFs)-based materials in brain disorders: Recent advances and challenges. *Inorganic Chemistry Communication*, **2021**, 134, 108997	3.1	8
79	Green and Eco-Friendly Synthesis of Nanophotocatalysts: An Overview. *Comments on Inorganic Chemistry*, **2021**, 41, 133-187	3.9	8
78	Important Roles of Oligo- and Polysaccharides against SARS-CoV-2: Recent Advances. *Applied Sciences (Switzerland)*, **2021**, 11, 3512	2.6	8
77	MXenes for Cancer Therapy and Diagnosis: Recent Advances and Current Challenges. *ACS Biomaterials Science and Engineering*, **2021**, 7, 1900-1913	5.5	19
76	Green Synthesis of Silica and Silicon Nanoparticles and Their Biomedical and Catalytic Applications. *Comments on Inorganic Chemistry*, **2021**, 1-56	3.9	4
75	Barium carbonate nanostructures: Biosynthesis and their biomedical applications. *Ceramics International*, **2021**, 47, 21045-21045	5.1	7
74	MXenes and MXene-based Materials for the Removal of Water Pollutants: Challenges and Opportunities. *Comments on Inorganic Chemistry*, **2021**, 41, 213-248	3.9	13

73	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	7.9	14
72	Plant Pollen Grains: A Move Towards Green Drug and Vaccine Delivery Systems. *Nano-Micro Letters*, **2021**, 13, 128	19.5	5
71	Leishmanicidal activities of biosynthesized BaCO (witherite) nanoparticles and their biocompatibility with macrophages. *Bioprocess and Biosystems Engineering*, **2021**, 44, 1957-1964	3.7	5
70	Nanophotocatalysts against viruses and antibiotic-resistant bacteria: recent advances. *Critical Reviews in Microbiology*, **2021**, 1-16	7.8	1
69	Diatoms with Invaluable Applications in Nanotechnology, Biotechnology, and Biomedicine: Recent Advances. *ACS Biomaterials Science and Engineering*, **2021**, 7, 3053-3068	5.5	28
68	Green-synthesized nanocatalysts and nanomaterials for water treatment: Current challenges and future perspectives. *Journal of Hazardous Materials*, **2021**, 401, 123401	12.8	124
67	Carbon-based sustainable nanomaterials for water treatment: State-of-art and future perspectives. *Chemosphere*, **2021**, 263, 128005	8.4	80
66	Potential inhibitors of SARS-CoV-2: recent advances. *Journal of Drug Targeting*, **2021**, 29, 349-364	5.4	7
65	Starch, cellulose, pectin, gum, alginate, chitin and chitosan derived (nano)materials for sustainable water treatment: A review. *Carbohydrate Polymers*, **2021**, 251, 116986	10.3	174
64	Quantum dots for photocatalysis: synthesis and environmental applications. *Green Chemistry*, **2021**, 23, 4931-4954	10	22
63	MXenes and MXene-based materials for tissue engineering and regenerative medicine: recent advances. *Materials Advances*, **2021**, 2, 2906-2917	3.3	17
62	Carbon-based nanomaterials for targeted cancer nanotherapy: recent trends and future prospects. *Journal of Drug Targeting*, **2021**, 29, 716-741	5.4	15
61	Biosynthesis of spinel nickel ferrite nanowhiskers and their biomedical applications. *Scientific Reports*, **2021**, 11, 17431	4.9	18
60	Cytotoxicity properties of plant-mediated synthesized K-doped ZnO nanostructures. *Bioprocess and Biosystems Engineering*, **2021**, 1	3.7	5
59	Biosynthesis of lead oxide and cerium oxide nanoparticles and their cytotoxic activities against colon cancer cell line. *Inorganic Chemistry Communication*, **2021**, 131, 108800	3.1	16
58	Molecularly imprinted polymers for the detection of viruses: challenges and opportunities. *Analyst, The*, **2021**, 146, 3087-3100	5	15
57	Nanomaterials and Nanotechnology-Associated Innovations against Viral Infections with a Focus on Coronaviruses. *Nanomaterials*, **2020**, 10,	5.4	76
56	SARS-CoV-2 (COVID-19): New Discoveries and Current Challenges. *Applied Sciences (Switzerland)*, **2020**, 10, 3641	2.6	20

55	Core-shell hybrid nanoparticles: Production and application in agriculture and the environment **2020**, 21-32		2
54	Green synthesis, biomedical and biotechnological applications of carbon and graphene quantum dots. A review. *Environmental Chemistry Letters*, **2020**, 18, 1-25	13.3	136
53	Bacteria in Heavy Metal Remediation and Nanoparticle Biosynthesis. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 5395-5409	8.3	44
52	Plant gums for sustainable and eco-friendly synthesis of nanoparticles: recent advances. *Inorganic and Nano-Metal Chemistry*, **2020**, 50, 469-488	1.2	9
51	Sustainable synthesis of cobalt and cobalt oxide nanoparticles and their catalytic and biomedical applications. *Green Chemistry*, **2020**, 22, 2643-2661	10	47
50	Plant-Derived Edible Nanoparticles in Cancer Drug Delivery **2020**, 221-233		
49	Electron paramagnetic resonance (EPR) spectroscopy: Food, biomedical and pharmaceutical analysis. *Biomedical Spectroscopy and Imaging*, **2020**, 9, 165-182	1.3	1
48	Biomedical Applications of Lignin-Based Nanoparticles **2020**, 217-224		4
47	Greener synthesis of lignin nanoparticles and their applications. *Green Chemistry*, **2020**, 22, 612-636	10	169
46	Nanomaterials against pathogenic viruses: greener and sustainable approaches. *Inorganic and Nano-Metal Chemistry*, **2020**, 1-17	1.2	1
45	Nano- and biosensors for the detection of SARS-CoV-2: challenges and opportunities. *Materials Advances*, **2020**, 1, 3092-3103	3.3	50
44	Nanomaterials and nanotechnology for water treatment: recent advances. *Inorganic and Nano-Metal Chemistry*, **2020**, 1-31	1.2	3
43	Trimetallic Nanoparticles: Greener Synthesis and Their Applications. *Nanomaterials*, **2020**, 10,	5.4	18
42	Gold Nanostructures in Medicine and Biology **2020**, 175-183		0
41	Eco-friendly and sustainable synthesis of biocompatible nanomaterials for diagnostic imaging: current challenges and future perspectives. *Green Chemistry*, **2020**, 22, 2662-2687	10	17
40	Cockroach wings-promoted safe and greener synthesis of silver nanoparticles and their insecticidal activity. *Bioprocess and Biosystems Engineering*, **2019**, 42, 2007-2014	3.7	30
39	Plants and plant-based polymers as scaffolds for tissue engineering. *Green Chemistry*, **2019**, 21, 4839-4867	10	80
38	Bio-Based Synthesis of Magnetic Nanoparticles and Their Applications. *Nanotechnology in the Life Sciences*, **2019**, 13-31	1.1	4

37	Plant molecular farming: production of metallic nanoparticles and therapeutic proteins using green factories. *Green Chemistry*, **2019**, 21, 1845-1865	10	75
36	Plant-Derived Edible Nanoparticles and miRNAs: Emerging Frontier for Therapeutics and Targeted Drug-Delivery. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 8055-8069	8.3	59
35	Biofactories: engineered nanoparticles via genetically engineered organisms. *Green Chemistry*, **2019**, 21, 4583-4603	10	42
34	Magnetic Resonance Spectroscopic Analysis in Brain Tumors **2019**, 43-58		
33	Green Synthesis, Characterization and Applications of Nanoparticles **2019**,		4
32	Plant Protein-Based Nanoparticles and Their Biomedical Applications **2019**, 177-191		2
31	Measurement of Oxidative Stress Using ESR Spectroscopy **2019**, 73-81		4
30	Metallic nanoparticles: green synthesis and spectroscopic characterization. *Environmental Chemistry Letters*, **2017**, 15, 223-231	13.3	58
29	NMR Spectroscopic Analysis in Characterization of Crude Oil and Related Products **2017**, 125-140		1
28	Methods for Preparation of Metal Nanoparticles **2017**, 15-31		3
27	ESR of Irradiated Drugs and Excipients for Drug Control and Safety **2017**, 111-122		
26	EMR of Metallic Nanoparticles. *Advanced Structured Materials*, **2017**, 79-90	0.6	2
25	Plant-derived nanostructures: types and applications. *Green Chemistry*, **2016**, 18, 20-52	10	257
24	Biosynthesis of silver nanoparticles using Saccharomyces cerevisiae. *Artificial Cells, Nanomedicine and Biotechnology*, **2016**, 44, 235-9	6.1	55
23	Synthesis of silver nanoparticles using methanol and dichloromethane extracts of Pulicaria gnaphalodes (Vent.) Boiss. aerial parts. *Artificial Cells, Nanomedicine and Biotechnology*, **2016**, 44, 328-33	6.1	26
22	Green Synthesis and Spectroscopic Characterization of Nanoparticles. *Sustainable Agriculture Reviews*, **2016**, 65-99	1.3	4
21	Green biosynthesis of silver nanoparticles using Althaea officinalis radix hydroalcoholic extract. *Artificial Cells, Nanomedicine and Biotechnology*, **2016**, 44, 209-15	6.1	12
20	Green biosynthesis of silver nanoparticles using Quercus brantii (oak) leaves hydroalcoholic extract. *Pharmaceutical Biology*, **2015**, 53, 807-12	3.8	21

19	Technology and potential applications of probiotic encapsulation in fermented milk products. *Journal of Food Science and Technology*, **2015**, 52, 4679-96	3.3	61
18	Phytosynthesis of Nanoparticles **2015**, 203-258		8
17	Synthesis of silver nanoparticles using biotransformations by Saccharomyces boulardii. *Green Processing and Synthesis*, **2014**, 3,	3.9	8
16	Green biosynthesis of silver nanoparticles using Azolla pinnata whole plant hydroalcoholic extract. *Green Processing and Synthesis*, **2014**, 3,	3.9	6
15	Bacteria in Nanoparticle Synthesis: Current Status and Future Prospects. *International Scholarly Research Notices*, **2014**, 2014, 359316	0	202
14	Plants in Nanoparticle Synthesis. *Reviews in Advanced Sciences and Engineering*, **2014**, 3, 261-274		19
13	Green synthesis of silver nanoparticles using Pinus eldarica bark extract. *BioMed Research International*, **2013**, 2013, 639725	3	140
12	Optimization of Biological Synthesis of Silver Nanoparticles using Fusarium oxysporum. *Iranian Journal of Pharmaceutical Research*, **2013**, 12, 289-98	1.1	52
11	Optimization of biological synthesis of silver nanoparticles using Lactobacillus casei subsp. casei. *Journal of Chemical Technology and Biotechnology*, **2012**, 87, 932-937	3.5	113
10	Silver Nanoparticles **2012**,		26
9	Essential Oil Constituents of the Bark of Pinus pinaster from Iran. *Journal of Essential Oil-bearing Plants: JEOP*, **2012**, 15, 348-351	1.7	5
8	Green synthesis of metal nanoparticles using plants. *Green Chemistry*, **2011**, 13, 2638	10	1907
7	Silver Nanoparticles **2010**,		9
6	Production of nanoparticles using organisms. *Critical Reviews in Biotechnology*, **2009**, 29, 279-306	9.4	209
5	Plant Viruses and Bacteriophages for Eco-friendly Synthesis of Nanoparticles: Recent Trends and Important Challenges. *Comments on Inorganic Chemistry*,1-23	3.9	2
4	MXenes for antimicrobial and antiviral applications: recent advances. *Materials Technology*,1-16	2.1	3
3	MXenes and MXene-based Materials with Cancer Diagnostic Applications: Challenges and Opportunities. *Comments on Inorganic Chemistry*,1-34	3.9	7
2	Algae-derived materials for tissue engineering and regenerative medicine applications: current trends and future perspectives. *Emergent Materials*,1	3.5	3

1	Iron oxyhydroxide nanoparticles: green synthesis and their cytotoxicity activity against A549 human lung adenocarcinoma cells. *Rendiconti Lincei*,1	1.7	1