

Ehsan Nazarzadeh Zare

List of Publications by Year in descending order

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98
papers

5,734
citations

66343

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all docs

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docs citations

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times ranked

5226
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanoadsorbents based on conducting polymer nanocomposites with main focus on polyaniline and its derivatives for removal of heavy metal ions/dyes: A review. <i>Environmental Research</i> , 2018, 162, 173-195.	7.5	448
2	Metal-Based Nanomaterials in Biomedical Applications: Antimicrobial Activity and Cytotoxicity Aspects. <i>Advanced Functional Materials</i> , 2020, 30, 1910021.	14.9	404
3	Progress in Conductive Polyaniline-Based Nanocomposites for Biomedical Applications: A Review. <i>Journal of Medicinal Chemistry</i> , 2020, 63, 1-22.	6.4	302
4	Nanogel and superparamagnetic nanocomposite based on sodium alginate for sorption of heavy metal ions. <i>Carbohydrate Polymers</i> , 2014, 106, 34-41.	10.2	186
5	Recent progress in the industrial and biomedical applications of tragacanth gum: A review. <i>Carbohydrate Polymers</i> , 2019, 212, 450-467.	10.2	172
6	A simple hydrogen peroxide biosensor based on a novel electro-magnetic poly(p-phenylenediamine)@Fe ₃ O ₄ nanocomposite. <i>Biosensors and Bioelectronics</i> , 2014, 55, 259-265.	10.1	151
7	Polymeric and inorganic nanoscopic antimicrobial fillers in dentistry. <i>Acta Biomaterialia</i> , 2020, 101, 69-101.	8.3	143
8	Biodegradable polypyrrole/dextrin conductive nanocomposite: Synthesis, characterization, antioxidant and antibacterial activity. <i>Synthetic Metals</i> , 2014, 187, 9-16.	3.9	140
9	Stimuli-responsive transdermal microneedle patches. <i>Materials Today</i> , 2021, 47, 206-222.	14.2	129
10	Metal-Based Nanostructures/PLGA Nanocomposites: Antimicrobial Activity, Cytotoxicity, and Their Biomedical Applications. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 3279-3300.	8.0	121
11	Antimicrobial Ionic Liquid-Based Materials for Biomedical Applications. <i>Advanced Functional Materials</i> , 2021, 31, 2104148.	14.9	116
12	Functionalization of polymers and nanomaterials for water treatment, food packaging, textile and biomedical applications: a review. <i>Environmental Chemistry Letters</i> , 2021, 19, 583-611.	16.2	112
13	4D-Printed Dynamic Materials in Biomedical Applications: Chemistry, Challenges, and Their Future Perspectives in the Clinical Sector. <i>Journal of Medicinal Chemistry</i> , 2020, 63, 8003-8024.	6.4	107
14	Drug Delivery (Nano)Platforms for Oral and Dental Applications: Tissue Regeneration, Infection Control, and Cancer Management. <i>Advanced Science</i> , 2021, 8, 2004014.	11.2	100
15	Development of effective nano-biosorbent based on poly m-phenylenediamine grafted dextrin for removal of Pb (II) and methylene blue from water. <i>Carbohydrate Polymers</i> , 2018, 201, 539-548.	10.2	99
16	Self-Assembled Carbohydrate Polymers for Food Applications: A Review. <i>Comprehensive Reviews in Food Science and Food Safety</i> , 2019, 18, 2009-2024.	11.7	97
17	Toxicity and remediation of pharmaceuticals and pesticides using metal oxides and carbon nanomaterials. <i>Chemosphere</i> , 2021, 275, 130055.	8.2	89
18	Bioactive Carboxymethyl Starch-Based Hydrogels Decorated with CuO Nanoparticles: Antioxidant and Antimicrobial Properties and Accelerated Wound Healing In Vivo. <i>International Journal of Molecular Sciences</i> , 2021, 22, 2531.	4.1	86

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19	Antimicrobial gum bio-based nanocomposites and their industrial and biomedical applications. <i>Chemical Communications</i> , 2019, 55, 14871-14885.	4.1	84
20	An overview on non-spherical semiconductors for heterogeneous photocatalytic degradation of organic water contaminants. <i>Chemosphere</i> , 2021, 280, 130907.	8.2	84
21	Iron-based metal-organic framework: Synthesis, structure and current technologies for water reclamation with deep insight into framework integrity. <i>Chemosphere</i> , 2021, 284, 131171.	8.2	83
22	Advances in Antimicrobial Organic and Inorganic Nanocompounds in Biomedicine. <i>Advanced Therapeutics</i> , 2020, 3, 2000024.	3.2	82
23	Progress in Microneedle-Mediated Protein Delivery. <i>Journal of Clinical Medicine</i> , 2020, 9, 542.	2.4	81
24	Biodegradable polyaniline/dextrin conductive nanocomposites: synthesis, characterization, and study of antioxidant activity and sorption of heavy metal ions. <i>Iranian Polymer Journal (English Edition)</i> , 2014, 23, 257-266.	2.4	77
25	Antibacterial tragacanth gum-based nanocomposite films carrying ascorbic acid antioxidant for bioactive food packaging. <i>Carbohydrate Polymers</i> , 2020, 247, 116678.	10.2	73
26	Efficient sorption of Pb(II) from an aqueous solution using a poly(aniline-co-3-aminobenzoic acid)-based magnetic core-shell nanocomposite. <i>New Journal of Chemistry</i> , 2016, 40, 2521-2529.	2.8	71
27	Advances in tannic acid-incorporated biomaterials: Infection treatment, regenerative medicine, cancer therapy, and biosensing. <i>Chemical Engineering Journal</i> , 2022, 432, 134146.	12.7	71
28	Monitoring of hydrogen peroxide using a glassy carbon electrode modified with hemoglobin and a polypyrrole-based nanocomposite. <i>Mikrochimica Acta</i> , 2015, 182, 771-779.	5.0	66
29	Progress in Delivery of siRNA-Based Therapeutics Employing Nano-Vehicles for Treatment of Prostate Cancer. <i>Bioengineering</i> , 2020, 7, 91.	3.5	65
30	Multilayered electromagnetic bionanocomposite based on alginic acid: Characterization and biological activities. <i>Carbohydrate Polymers</i> , 2015, 130, 372-380.	10.2	63
31	Novel superparamagnetic PFe ₃ O ₄ conductive nanocomposite as a suitable host for hemoglobin immobilization. <i>Sensors and Actuators B: Chemical</i> , 2014, 202, 1200-1208.	7.8	62
32	Biomedical Applications of MXene-Integrated Composites: Regenerative Medicine, Infection Therapy, Cancer Treatment, and Biosensing. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	62
33	Direct electrochemistry and electrocatalysis of hemoglobin immobilized on biocompatible poly(styrene-alternative-maleic acid)/functionalized multi-wall carbon nanotubes blends. <i>Sensors and Actuators B: Chemical</i> , 2013, 188, 227-234.	7.8	61
34	Nanogel and super-paramagnetic nanocomposite of thiacalix[4]arene functionalized chitosan: synthesis, characterization and heavy metal sorption. <i>Iranian Polymer Journal (English Edition)</i> , 2014, 23, 933-945.	2.4	60
35	Cytotoxic aquatic pollutants and their removal by nanocomposite-based sorbents. <i>Chemosphere</i> , 2020, 258, 127324.	8.2	59
36	Macrophage Cell Membrane-Cloaked Nanoplatfoms for Biomedical Applications. <i>Small Methods</i> , 2022, 6, .	8.6	58

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37	Facile synthesis of PSMA-g-3ABA/MWCNTs nanocomposite as a substrate for hemoglobin immobilization: Application to catalysis of H ₂ O ₂ . <i>Materials Science and Engineering C</i> , 2014, 39, 213-220.	7.3	55
38	Synthesis of Novel Conductive Poly(p-phenylenediamine)/ Fe ₃ O ₄ Nanocomposite via Emulsion Polymerization and Investigation of Antioxidant Activity. <i>Advances in Polymer Technology</i> , 2014, 33, .	1.7	53
39	Electroconductive multi-functional polypyrrole composites for biomedical applications. <i>Applied Materials Today</i> , 2021, 24, 101117.	4.3	49
40	Effective Adsorption of Heavy Metal Cations by Superparamagnetic Poly(aniline-co-p-phenylenediamine)@Fe ₃ O ₄ Nanocomposite. <i>Advances in Polymer Technology</i> , 2015, 34, .	1.7	46
41	Advances in biogenically synthesized shaped metal- and carbon-based nanoarchitectures and their medicinal applications. <i>Advances in Colloid and Interface Science</i> , 2020, 283, 102236.	14.7	46
42	Functionalization of Polymers and Nanomaterials for Biomedical Applications: Antimicrobial Platforms and Drug Carriers. <i>Prosthesis</i> , 2020, 2, 117-139.	2.9	46
43	(Nano)platforms in bladder cancer therapy: Challenges and opportunities. <i>Bioengineering and Translational Medicine</i> , 2023, 8, .	7.1	46
44	Nanotechnological Approaches in Prostate Cancer Therapy: Integration of engineering and biology. <i>Nano Today</i> , 2022, 45, 101532.	11.9	46
45	Electro-Magnetic Polyfuran/Fe ₃ O ₄ Nanocomposite: Synthesis, Characterization, Antioxidant Activity, and Its Application as a Biosensor. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2015, 64, 175-183.	3.4	44
46	Experimental and theoretical calculation investigation on effective adsorption of lead(II) onto poly(aniline-co-pyrrole) nanospheres. <i>Journal of Molecular Liquids</i> , 2019, 296, 111789.	4.9	44
47	Biofabricated Nanostructures and Their Composites in Regenerative Medicine. <i>ACS Applied Nano Materials</i> , 2020, 3, 6210-6238.	5.0	43
48	Ionic liquid-based antimicrobial materials for water treatment, air filtration, food packaging and anticorrosion coatings. <i>Advances in Colloid and Interface Science</i> , 2021, 294, 102454.	14.7	43
49	Efficient remediation of chlorpyrifos pesticide from contaminated water by superparamagnetic adsorbent based on Arabic gum-grafted-polyamidoxime. <i>International Journal of Biological Macromolecules</i> , 2022, 203, 445-456.	7.5	43
50	Electrospun fibers based on carbohydrate gum polymers and their multifaceted applications. <i>Carbohydrate Polymers</i> , 2020, 247, 116705.	10.2	39
51	Smart Adsorbents for Aquatic Environmental Remediation. <i>Small</i> , 2021, 17, e2007840.	10.0	37
52	Metal-organic framework-based materials for the abatement of air pollution and decontamination of wastewater. <i>Chemosphere</i> , 2022, 303, 135082.	8.2	37
53	Electrospun fibers based on botanical, seaweed, microbial, and animal sourced biomacromolecules and their multidimensional applications. <i>International Journal of Biological Macromolecules</i> , 2021, 171, 130-149.	7.5	35
54	Poly (pyrrole- co -aniline) hollow nanosphere supported Pd nanoflowers as high-performance catalyst for methanol electrooxidation in alkaline media. <i>Energy</i> , 2017, 127, 419-427.	8.8	34

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55	Water decontamination using bio-based, chemically functionalized, doped, and ionic liquid-enhanced adsorbents: review. <i>Environmental Chemistry Letters</i> , 2021, 19, 3075-3114.	16.2	34
56	Nonspherical Metal-Based Nanoarchitectures: Synthesis and Impact of Size, Shape, and Composition on Their Biological Activity. <i>Small</i> , 2021, 17, e2007073.	10.0	33
57	Remediation of pharmaceuticals from contaminated water by molecularly imprinted polymers: a review. <i>Environmental Chemistry Letters</i> , 2022, 20, 2629-2664.	16.2	32
58	Emulsion polymerization for the fabrication of poly(o-phenylenediamine)@multi-walled carbon nanotubes nanocomposites: characterization and their application in the corrosion protection of 316L SS. <i>RSC Advances</i> , 2015, 5, 68788-68795.	3.6	29
59	PdCo porous nanostructures decorated on polypyrrole @ MWCNTs conductive nanocomposite as a powerful catalyst for ethanol electrooxidation. <i>Applied Surface Science</i> , 2017, 401, 40-48.	6.1	29
60	Recent advances in bioprinting technologies for engineering different cartilage-based tissues. <i>Materials Science and Engineering C</i> , 2021, 123, 112005.	7.3	29
61	Biodegradable antibacterial and antioxidant nanocomposite films based on dextrin for bioactive food packaging. <i>Journal of Nanostructure in Chemistry</i> , 2022, 12, 991-1006.	9.1	29
62	Electrically conductive carbon-based (bio)nanomaterials for cardiac tissue engineering. <i>Bioengineering and Translational Medicine</i> , 2023, 8, .	7.1	29
63	Innovative magnetic tri-layered nanocomposites based on polyxanthone triazole, polypyrrole and iron oxide: synthesis, characterization and investigation of the biological activities. <i>RSC Advances</i> , 2015, 5, 70186-70196.	3.6	27
64	Nonlinear optical properties of poly(aniline-co-pyrrole)@ ZnO-based nanofluid. <i>Optical Materials</i> , 2020, 102, 109835.	3.6	25
65	A perspective on the applications of functionalized nanogels: promises and challenges. <i>International Materials Reviews</i> , 2023, 68, 1-25.	19.3	25
66	Novel conducting nanocomposite based on polypyrrole and modified poly(styrene-co-maleic) as a sorbent activity. <i>Polymer Composites</i> , 2015, 36, 138-144.	4.6	24
67	Photoactive polymers-decorated Cu-Al layered double hydroxide hexagonal architectures: A potential non-viral vector for photothermal therapy and co-delivery of DOX/pCRISPR. <i>Chemical Engineering Journal</i> , 2022, 448, 137747.	12.7	24
68	Synthesis, Characterization, and Biological Properties of Novel Bioactive Poly(xanthoneamide-triazole-ethersulfone) and Its Multifunctional Nanocomposite with Polyaniline. <i>Advances in Polymer Technology</i> , 2017, 36, 309-319.	1.7	21
69	Novel polyfuran/functionalized multiwalled carbon nanotubes composites with improved conductivity: Chemical synthesis, characterization, and antioxidant activity. <i>Polymer Composites</i> , 2013, 34, 732-739.	4.6	19
70	Efficient removal of Pb(II) and Cd(II) from water by cross-linked poly (N-vinylpyrrolidone-co-maleic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50		19
71	Electroconductive and photoactive poly(phenylenediamine)s with antioxidant and antimicrobial activities for potential photothermal therapy. <i>New Journal of Chemistry</i> , 2022, 46, 6255-6266.	2.8	19
72	Antimicrobial nanocomposite adsorbent based on poly(meta-phenylenediamine) for remediation of lead (II) from water medium. <i>Scientific Reports</i> , 2022, 12, 4632.	3.3	19

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73	Effect of functionalized magnetite nanoparticles and diaminoxanthone on the curing, thermal degradation kinetic and corrosion property of diglycidyl ether of bisphenol A-based epoxy resin. Chinese Journal of Polymer Science (English Edition), 2014, 32, 1489-1499.	3.8	18
74	Synthesis of conductive poly (3-aminobenzoic acid) nanostructures with different shapes in acidic ionic liquids medium. Journal of Molecular Liquids, 2018, 271, 514-521.	4.9	17
75	Effect of functionalization of iron oxide nanoparticles on the physical properties of poly (aniline-co-pyrrole) based nanocomposites: Experimental and theoretical studies. Arabian Journal of Chemistry, 2020, 13, 2331-2339.	4.9	17
76	Non-spherical nanostructures in nanomedicine: From noble metal nanorods to transition metal dichalcogenide nanosheets. Applied Materials Today, 2021, 24, 101107.	4.3	16
77	PLGA-Based Nanoplatforms in Drug Delivery for Inhibition and Destruction of Microbial Biofilm. Frontiers in Cellular and Infection Microbiology, 0, 12, .	3.9	15
78	Sulfonated Magnetic Nanocomposite Based on Reactive PGMA-MAN Copolymer@Fe ₃ O ₄ Nanoparticles: Effective Removal of Cu(II) Ions from Aqueous Solutions. International Journal of Polymer Science, 2016, 2016, 1-15.	2.7	14
79	Poly (3-aminobenzoic acid) @ MWCNTs hybrid conducting nanocomposite: preparation, characterization, and application as a coating for copper corrosion protection. Composite Interfaces, 2016, 23, 571-583.	2.3	14
80	Ionic liquid-mediated synthesis of metal nanostructures: Potential application in cancer diagnosis and therapy. Journal of Ionic Liquids, 2022, 2, 100033.	2.7	14
81	Ionic Liquid-Assisted Fabrication of Bioactive Heterogeneous Magnetic Nanocatalyst with Antioxidant and Antibacterial Activities for the Synthesis of Polyhydroquinoline Derivatives. Molecules, 2022, 27, 1748.	3.8	13
82	Manufacturing of Microfluidic Sensors Utilizing 3D Printing Technologies: A Production System. Journal of Nanomaterials, 2021, 2021, 1-16.	2.7	12
83	Novel conductive PANI/hydrophilic thiacalix[4]arene nanocomposites: synthesis, characterization and investigation of properties. Chinese Journal of Polymer Science (English Edition), 2014, 32, 218-229.	3.8	11
84	Preparation of conductive nanocomposites based on poly (aniline-co- butyl 3-aminobenzoate) and poly (aniline-co-ethyl 3-aminobenzoate) by solution blending method. Composite Interfaces, 2012, 19, 475-488.	2.3	10
85	Thermal Lensing Effect in Laser Nanofluids Based on Poly (aniline-co-ortho) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 267 Td (phenol) 4896-4907.	2.2	10
86	Magnetic Sulfonated Melamine-Formaldehyde Resin as an Efficient Catalyst for the Synthesis of Antioxidant and Antimicrobial Pyrazolone Derivatives. Catalysts, 2022, 12, 626.	3.5	8
87	Nanoparticles and nanofibres based on tree gums: Biosynthesis and applications. Comprehensive Analytical Chemistry, 2021, 94, 223-265.	1.3	6
88	Acidic ionic liquid-mediated preparation of shaped electrically conductive poly(p-phenylenediamine). Journal of Polymer Research, 2021, 28, 1.	2.4	5
89	Novel eco-friendly acacia gum-grafted-polyamidoxime@copper ferrite nanocatalyst for synthesis of pyrazolopyridine derivatives. Journal of Nanostructure in Chemistry, 2023, 13, 451-462.	9.1	5
90	Antimicrobial Metal-Based Nanomaterials and Their Industrial and Biomedical Applications. Materials Horizons, 2020, , 123-134.	0.6	4

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91	Antimicrobial Ionic Liquid-Based Materials for Biomedical Applications (Adv. Funct. Mater. 42/2021). Advanced Functional Materials, 2021, 31, 2170312.	14.9	3
92	Properties of Conducting Polymers. ACS Symposium Series, 0, , 39-65.	0.5	3
93	Synthesis of polyhydroquinolines and 2-amino-4H-chromenes and their alkylene bridging derivatives using Sulfonic acid functionalized heterogeneous nanocatalyst based on modified poly (styrene-alt-maleic anhydride). Letters in Organic Chemistry, 2021, 18, .	0.5	1
94	Micro and Nano Sensors from Additive Manufacturing. Journal of Nanomaterials, 2022, 2022, 1-2.	2.7	1
95	Preparation of Conducting Polymers/Composites. ACS Symposium Series, 0, , 67-90.	0.5	1
96	Polymeric and Nanoscopy Antimicrobial Fillers in Dentistry. SSRN Electronic Journal, 0, , .	0.4	0
97	Superparamagnetic Polyaniline-co-m-phenylenediamine@Fe ₃ O ₄ Nanocomposite as an Efficient Heterogeneous Catalyst for the Synthesis of 1H-pyrazolo [1,2- a]pyridazine-5,8-diones & 1H-pyrazolo[1,2-b]phthalazine-5, 10-diones" Instead of 1H-pyrazolo[1,2-b] Phthalazinedione Derivatives. Current Organic Synthesis, 2021, 18, .	1.3	0
98	Cellulose composites as nanobiosorbents for ecological remediation. , 2022, , 333-358.		0