

# 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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82547

72  
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98  
all docs

98  
docs citations

98  
times ranked

5226  
citing authors

#	ARTICLE	IF	CITATIONS
1	A perspective on the applications of functionalized nanogels: promises and challenges. <i>International Materials Reviews</i> , 2023, 68, 1-25.	19.3	25
2	Novel eco-friendly acacia gum-grafted-polyamidoxime@copper ferrite nanocatalyst for synthesis of pyrazolopyridine derivatives. <i>Journal of Nanostructure in Chemistry</i> , 2023, 13, 451-462.	9.1	5
3	Electrically conductive carbon-based (bio)nanomaterials for cardiac tissue engineering. <i>Bioengineering and Translational Medicine</i> , 2023, 8, .	7.1	29
4	(Nano)platforms in bladder cancer therapy: Challenges and opportunities. <i>Bioengineering and Translational Medicine</i> , 2023, 8, .	7.1	46
5	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
6	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
7	Cellulose composites as nanobiosorbents for ecological remediation. , 2022, , 333-358.		0
8	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
9	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
10	Ionic Liquid-Assisted Fabrication of Bioactive Heterogeneous Magnetic Nanocatalyst with Antioxidant and Antibacterial Activities for the Synthesis of Polyhydroquinoline Derivatives. <i>Molecules</i> , 2022, 27, 1748.	3.8	13
11	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
12	Micro and Nano Sensors from Additive Manufacturing. <i>Journal of Nanomaterials</i> , 2022, 2022, 1-2.	2.7	1
13	Remediation of pharmaceuticals from contaminated water by molecularly imprinted polymers: a review. <i>Environmental Chemistry Letters</i> , 2022, 20, 2629-2664.	16.2	32
14	Metal-organic framework-based materials for the abatement of air pollution and decontamination of wastewater. <i>Chemosphere</i> , 2022, 303, 135082.	8.2	37
15	Ionic liquid-mediated synthesis of metal nanostructures: Potential application in cancer diagnosis and therapy. <i>Journal of Ionic Liquids</i> , 2022, 2, 100033.	2.7	14
16	Biomedical Applications of MXene-Integrated Composites: Regenerative Medicine, Infection Therapy, Cancer Treatment, and Biosensing. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	62
17	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
18	Magnetic Sulfonated Melamine-Formaldehyde Resin as an Efficient Catalyst for the Synthesis of Antioxidant and Antimicrobial Pyrazolone Derivatives. <i>Catalysts</i> , 2022, 12, 626.	3.5	8

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19	Macrophage Cell Membrane-Cloned Nanoplatfoms for Biomedical Applications. <i>Small Methods</i> , 2022, 6, .	8.6	58
20	Nanotechnological Approaches in Prostate Cancer Therapy: Integration of engineering and biology. <i>Nano Today</i> , 2022, 45, 101532.	11.9	46
21	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
22	Nanoparticles and nanofibres based on tree gums: Biosynthesis and applications. <i>Comprehensive Analytical Chemistry</i> , 2021, 94, 223-265.	1.3	6
23	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
24	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
25	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
26	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
27	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
28	Recent advances in bioprinting technologies for engineering different cartilage-based tissues. <i>Materials Science and Engineering C</i> , 2021, 123, 112005.	7.3	29
29	Smart Adsorbents for Aquatic Environmental Remediation. <i>Small</i> , 2021, 17, e2007840.	10.0	37
30	Acidic ionic liquid-mediated preparation of shaped electrically conductive poly(p-phenylenediamine). <i>Journal of Polymer Research</i> , 2021, 28, 1.	2.4	5
31	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
32	Stimuli-responsive transdermal microneedle patches. <i>Materials Today</i> , 2021, 47, 206-222.	14.2	129
33	Antimicrobial Ionic Liquid-Based Materials for Biomedical Applications. <i>Advanced Functional Materials</i> , 2021, 31, 2104148.	14.9	116
34	Toxicity and remediation of pharmaceuticals and pesticides using metal oxides and carbon nanomaterials. <i>Chemosphere</i> , 2021, 275, 130055.	8.2	89
35	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
36	Manufacturing of Microfluidic Sensors Utilizing 3D Printing Technologies: A Production System. <i>Journal of Nanomaterials</i> , 2021, 2021, 1-16.	2.7	12

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37	Non-spherical nanostructures in nanomedicine: From noble metal nanorods to transition metal dichalcogenide nanosheets. <i>Applied Materials Today</i> , 2021, 24, 101107.	4.3	16
38	Electroconductive multi-functional polypyrrole composites for biomedical applications. <i>Applied Materials Today</i> , 2021, 24, 101117.	4.3	49
39	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). <i>Letters in Organic Chemistry</i> , 2021, 18, .	0.5	1
40	An overview on non-spherical semiconductors for heterogeneous photocatalytic degradation of organic water contaminants. <i>Chemosphere</i> , 2021, 280, 130907.	8.2	84
41	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
42	Antimicrobial Ionic Liquid-Based Materials for Biomedical Applications ( <i>Adv. Funct. Mater.</i> 42/2021). <i>Advanced Functional Materials</i> , 2021, 31, 2170312.	14.9	3
43	Superparamagnetic Polyaniline-co-m-phenylenediamine@Fe <sub>3</sub> O <sub>4</sub> 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. <i>Current Organic Synthesis</i> , 2021, 18, .	1.3	0
44	Effect of functionalization of iron oxide nanoparticles on the physical properties of poly (aniline-co-pyrrole) based nanocomposites: Experimental and theoretical studies. <i>Arabian Journal of Chemistry</i> , 2020, 13, 2331-2339.	4.9	17
45	Polymeric and inorganic nanoscopic antimicrobial fillers in dentistry. <i>Acta Biomaterialia</i> , 2020, 101, 69-101.	8.3	143
46	Progress in Conductive Polyaniline-Based Nanocomposites for Biomedical Applications: A Review. <i>Journal of Medicinal Chemistry</i> , 2020, 63, 1-22.	6.4	302
47	Metal-Based Nanostructures/PLGA Nanocomposites: Antimicrobial Activity, Cytotoxicity, and Their Biomedical Applications. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 3279-3300.	8.0	121
48	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
49	Progress in Delivery of siRNA-Based Therapeutics Employing Nano-Vehicles for Treatment of Prostate Cancer. <i>Bioengineering</i> , 2020, 7, 91.	3.5	65
50	Nonlinear optical properties of poly(aniline-co-pyrrole)@ ZnO-based nanofluid. <i>Optical Materials</i> , 2020, 102, 109835.	3.6	25
51	Advances in Antimicrobial Organic and Inorganic Nanocompounds in Biomedicine. <i>Advanced Therapeutics</i> , 2020, 3, 2000024.	3.2	82
52	Cytotoxic aquatic pollutants and their removal by nanocomposite-based sorbents. <i>Chemosphere</i> , 2020, 258, 127324.	8.2	59
53	Metal-Based Nanomaterials in Biomedical Applications: Antimicrobial Activity and Cytotoxicity Aspects. <i>Advanced Functional Materials</i> , 2020, 30, 1910021.	14.9	404
54	Progress in Microneedle-Mediated Protein Delivery. <i>Journal of Clinical Medicine</i> , 2020, 9, 542.	2.4	81

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55	Electrospun fibers based on carbohydrate gum polymers and their multifaceted applications. Carbohydrate Polymers, 2020, 247, 116705.	10.2	39
56	Biofabricated Nanostructures and Their Composites in Regenerative Medicine. ACS Applied Nano Materials, 2020, 3, 6210-6238.	5.0	43
57	Functionalization of Polymers and Nanomaterials for Biomedical Applications: Antimicrobial Platforms and Drug Carriers. Prosthesis, 2020, 2, 117-139.	2.9	46
58	Antibacterial tragacanth gum-based nanocomposite films carrying ascorbic acid antioxidant for bioactive food packaging. Carbohydrate Polymers, 2020, 247, 116678.	10.2	73
59	4D-Printed Dynamic Materials in Biomedical Applications: Chemistry, Challenges, and Their Future Perspectives in the Clinical Sector. Journal of Medicinal Chemistry, 2020, 63, 8003-8024.	6.4	107
60	Antimicrobial Metal-Based Nanomaterials and Their Industrial and Biomedical Applications. Materials Horizons, 2020, , 123-134.	0.6	4
61	Experimental and theoretical calculation investigation on effective adsorption of lead(II) onto poly(aniline-co-pyrrole) nanospheres. Journal of Molecular Liquids, 2019, 296, 111789.	4.9	44
62	Self-Assembled Carbohydrate Polymers for Food Applications: A Review. Comprehensive Reviews in Food Science and Food Safety, 2019, 18, 2009-2024.	11.7	97
63	Recent progress in the industrial and biomedical applications of tragacanth gum: A review. Carbohydrate Polymers, 2019, 212, 450-467.	10.2	172
64	Antimicrobial gum bio-based nanocomposites and their industrial and biomedical applications. Chemical Communications, 2019, 55, 14871-14885.	4.1	84
65	Nano-adsorbents based on conducting polymer nanocomposites with main focus on polyaniline and its derivatives for removal of heavy metal ions/dyes: A review. Environmental Research, 2018, 162, 173-195.	7.5	448
66	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
67	Development of effective nano-biosorbent based on poly m-phenylenediamine grafted dextrin for removal of Pb (II) and methylene blue from water. Carbohydrate Polymers, 2018, 201, 539-548.	10.2	99
68	Synthesis, Characterization, and Biological Properties of Novel Bioactive Poly(xanthoneamide- <i>ε</i> -triazole- <i>ε</i> -ethersulfone) and Its Multifunctional Nanocomposite with Polyaniline. Advances in Polymer Technology, 2017, 36, 309-319.	1.7	21
69	Poly (pyrrole- co -aniline) hollow nanosphere supported Pd nanoflowers as high-performance catalyst for methanol electrooxidation in alkaline media. Energy, 2017, 127, 419-427.	8.8	34
70	PdCo porous nanostructures decorated on polypyrrole @ MWCNTs conductive nanocomposite- <i>ε</i> Modified glassy carbon electrode as a powerful catalyst for ethanol electrooxidation. Applied Surface Science, 2017, 401, 40-48.	6.1	29
71	Sulfonated Magnetic Nanocomposite Based on Reactive PGMA-MAn Copolymer@Fe <sub>3</sub> O <sub>4</sub> Nanoparticles: Effective Removal of Cu(II) Ions from Aqueous Solutions. International Journal of Polymer Science, 2016, 2016, 1-15.	2.7	14
72	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

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73	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
74	Multilayered electromagnetic bionanocomposite based on alginic acid: Characterization and biological activities. <i>Carbohydrate Polymers</i> , 2015, 130, 372-380.	10.2	63
75	Effective Adsorption of Heavy Metal Cations by Superparamagnetic Poly(aniline-co-3-aminobenzoic acid)-phenylenediamine@Fe <sub>3</sub> O <sub>4</sub> Nanocomposite. <i>Advances in Polymer Technology</i> , 2015, 34, .	1.7	46
76	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
77	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
78	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
79	Novel conducting nanocomposite based on polypyrrole and modified poly(styrene-alt-maleic) Tj ETQq1 1 0.784314 rgBT /Ove sorbent activity. <i>Polymer Composites</i> , 2015, 36, 138-144.	4.6	24
80	Electro-Magnetic Polyfuran/Fe <sub>3</sub> O <sub>4</sub> 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
81	Novel conductive PANI/hydrophilic thiacalix[4]arene nanocomposites: synthesis, characterization and investigation of properties. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2014, 32, 218-229.	3.8	11
82	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
83	A simple hydrogen peroxide biosensor based on a novel electro-magnetic poly(p-phenylenediamine)@Fe <sub>3</sub> O <sub>4</sub> nanocomposite. <i>Biosensors and Bioelectronics</i> , 2014, 55, 259-265.	10.1	151
84	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
85	Biodegradable polypyrrole/dextrin conductive nanocomposite: Synthesis, characterization, antioxidant and antibacterial activity. <i>Synthetic Metals</i> , 2014, 187, 9-16.	3.9	140
86	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. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2014, 32, 1489-1499.	3.8	18
87	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
88	Synthesis of Novel Conductive Poly(p-phenylenediamine)/ Fe <sub>3</sub> O <sub>4</sub> Nanocomposite via Emulsion Polymerization and Investigation of Antioxidant Activity. <i>Advances in Polymer Technology</i> , 2014, 33, .	1.7	53
89	Novel superparamagnetic PFu@Fe <sub>3</sub> O <sub>4</sub> conductive nanocomposite as a suitable host for hemoglobin immobilization. <i>Sensors and Actuators B: Chemical</i> , 2014, 202, 1200-1208.	7.8	62
90	Facile synthesis of PSMA-g-3ABA/MWCNTs nanocomposite as a substrate for hemoglobin immobilization: Application to catalysis of H <sub>2</sub> O <sub>2</sub> . <i>Materials Science and Engineering C</i> , 2014, 39, 213-220.	7.3	55

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91	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
92	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
93	Preparation of conductive nanocomposites based on poly (aniline-co- butyl 3-aminobenzoate) and poly (aniline-co-ethyl 3-aminobenzoate) by solution blending method. <i>Composite Interfaces</i> , 2012, 19, 475-488.	2.3	10
94	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
95	Polymeric and Nanoscopical Antimicrobial Fillers in Dentistry. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
96	Preparation of Conducting Polymers/Composites. <i>ACS Symposium Series</i> , 0, , 67-90.	0.5	1
97	Properties of Conducting Polymers. <i>ACS Symposium Series</i> , 0, , 39-65.	0.5	3
98	PLGA-Based Nanoplatforms in Drug Delivery for Inhibition and Destruction of Microbial Biofilm. <i>Frontiers in Cellular and Infection Microbiology</i> , 0, 12, .	3.9	15