

Ehsan Nazarzadeh Zare

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87
papers

3,049
citations

31
h-index

53
g-index

98
ext. papers

4,221
ext. citations

7.4
avg, IF

6.21
L-index

| # | Paper | IF | Citations |
|----|--|------|-----------|
| 87 | 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 | 15.9 | 291 |
| 86 | Metal-Based Nanomaterials in Biomedical Applications: Antimicrobial Activity and Cytotoxicity Aspects. <i>Advanced Functional Materials</i> , 2020 , 30, 1910021 | 15.6 | 210 |
| 85 | Progress in Conductive Polyaniline-Based Nanocomposites for Biomedical Applications: A Review. <i>Journal of Medicinal Chemistry</i> , 2020 , 63, 1-22 | 8.3 | 158 |
| 84 | Nanogel and superparamagnetic nanocomposite based on sodium alginate for sorption of heavy metal ions. <i>Carbohydrate Polymers</i> , 2014 , 106, 34-41 | 10.3 | 152 |
| 83 | 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, 259-65 | 11.8 | 132 |
| 82 | Biodegradable polypyrrole/dextrin conductive nanocomposite: Synthesis, characterization, antioxidant and antibacterial activity. <i>Synthetic Metals</i> , 2014 , 187, 9-16 | 3.6 | 110 |
| 81 | Recent progress in the industrial and biomedical applications of tragacanth gum: A review. <i>Carbohydrate Polymers</i> , 2019 , 212, 450-467 | 10.3 | 102 |
| 80 | Polymeric and inorganic nanoscopical antimicrobial fillers in dentistry. <i>Acta Biomaterialia</i> , 2020 , 101, 69-101 | 10.8 | 91 |
| 79 | Metal-Based Nanostructures/PLGA Nanocomposites: Antimicrobial Activity, Cytotoxicity, and Their Biomedical Applications. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 3279-3300 | 9.5 | 77 |
| 78 | 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 | 10.3 | 63 |
| 77 | Antimicrobial gum bio-based nanocomposites and their industrial and biomedical applications. <i>Chemical Communications</i> , 2019 , 55, 14871-14885 | 5.8 | 62 |
| 76 | 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 | 2.3 | 59 |
| 75 | 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 | 3.6 | 58 |
| 74 | 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 | 5.8 | 57 |
| 73 | Advances in Antimicrobial Organic and Inorganic Nanocompounds in Biomedicine. <i>Advanced Therapeutics</i> , 2020 , 3, 2000024 | 4.9 | 57 |
| 72 | Self-Assembled Carbohydrate Polymers for Food Applications: A Review. <i>Comprehensive Reviews in Food Science and Food Safety</i> , 2019 , 18, 2009-2024 | 16.4 | 56 |
| 71 | Novel superparamagnetic PFu@Fe ₃ O ₄ conductive nanocomposite as a suitable host for hemoglobin immobilization. <i>Sensors and Actuators B: Chemical</i> , 2014 , 202, 1200-1208 | 8.5 | 56 |

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| 70 | 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 | 8.5 | 56 |
| 69 | Progress in Microneedle-Mediated Protein Delivery. <i>Journal of Clinical Medicine</i> , 2020 , 9, | 5.1 | 52 |
| 68 | Multilayered electromagnetic bionanocomposite based on alginic acid: Characterization and biological activities. <i>Carbohydrate Polymers</i> , 2015 , 130, 372-80 | 10.3 | 52 |
| 67 | 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 | 13.3 | 52 |
| 66 | 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, 213-20 | 8.3 | 51 |
| 65 | 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 | 2.3 | 50 |
| 64 | 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 | 8.3 | 47 |
| 63 | 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, | 1.9 | 43 |
| 62 | Effective Adsorption of Heavy Metal Cations by Superparamagnetic Poly(aniline-co-m-phenylenediamine)@Fe ₃ O ₄ Nanocomposite. <i>Advances in Polymer Technology</i> , 2015 , 34, n/a-n/a | 1.9 | 36 |
| 61 | Drug Delivery (Nano)Platforms for Oral and Dental Applications: Tissue Regeneration, Infection Control, and Cancer Management. <i>Advanced Science</i> , 2021 , 8, 2004014 | 13.6 | 36 |
| 60 | Progress in Delivery of siRNA-Based Therapeutics Employing Nano-Vehicles for Treatment of Prostate Cancer. <i>Bioengineering</i> , 2020 , 7, | 5.3 | 35 |
| 59 | Antibacterial tragacanth gum-based nanocomposite films carrying ascorbic acid antioxidant for bioactive food packaging. <i>Carbohydrate Polymers</i> , 2020 , 247, 116678 | 10.3 | 33 |
| 58 | Stimuli-responsive transdermal microneedle patches. <i>Materials Today</i> , 2021 , 47, 206-222 | 21.8 | 33 |
| 57 | 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 | 31 |
| 56 | Toxicity and remediation of pharmaceuticals and pesticides using metal oxides and carbon nanomaterials. <i>Chemosphere</i> , 2021 , 275, 130055 | 8.4 | 31 |
| 55 | Antimicrobial Ionic Liquid-Based Materials for Biomedical Applications. <i>Advanced Functional Materials</i> , 2021 , 31, 2104148 | 15.6 | 30 |
| 54 | Cytotoxic aquatic pollutants and their removal by nanocomposite-based sorbents. <i>Chemosphere</i> , 2020 , 258, 127324 | 8.4 | 29 |
| 53 | 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 | 3.7 | 27 |

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| 52 | 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 | 7.9 | 25 |
| 51 | PdCo porous nanostructures decorated on polypyrrole @ MWCNTs conductive nanocomposite Modified glassy carbon electrode as a powerful catalyst for ethanol electrooxidation. <i>Applied Surface Science</i> , 2017 , 401, 40-48 | 6.7 | 24 |
| 50 | Biofabricated Nanostructures and Their Composites in Regenerative Medicine. <i>ACS Applied Nano Materials</i> , 2020 , 3, 6210-6238 | 5.6 | 24 |
| 49 | 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 | 6 | 24 |
| 48 | 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 | 3.7 | 23 |
| 47 | Functionalization of Polymers and Nanomaterials for Biomedical Applications: Antimicrobial Platforms and Drug Carriers. <i>Prosthesis</i> , 2020 , 2, 117-139 | 4.7 | 22 |
| 46 | 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 | 14.3 | 21 |
| 45 | 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, | 6.3 | 20 |
| 44 | Novel conducting nanocomposite based on polypyrrole and modified poly(styrene-alt-maleic anhydride) via emulsion polymerization: Synthesis, Characterization, Antioxidant, and heavy metal sorbent activity. <i>Polymer Composites</i> , 2015 , 36, 138-144 | 3 | 19 |
| 43 | An overview on non-spherical semiconductors for heterogeneous photocatalytic degradation of organic water contaminants. <i>Chemosphere</i> , 2021 , 280, 130907 | 8.4 | 19 |
| 42 | 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 | 1.9 | 17 |
| 41 | Efficient removal of Pb(II) and Cd(II) from water by cross-linked poly (N-vinylpyrrolidone-co-maleic anhydride)@eggshell/Fe ₃ O ₄ environmentally friendly nanocomposite | 10.6 | 17 |
| 40 | 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 | 3.5 | 16 |
| 39 | Recent advances in bioprinting technologies for engineering different cartilage-based tissues. <i>Materials Science and Engineering C</i> , 2021 , 123, 112005 | 8.3 | 16 |
| 38 | Electrospun fibers based on carbohydrate gum polymers and their multifaceted applications. <i>Carbohydrate Polymers</i> , 2020 , 247, 116705 | 10.3 | 15 |
| 37 | Novel polyfuran/functionalized multiwalled carbon nanotubes composites with improved conductivity: Chemical synthesis, characterization, and antioxidant activity. <i>Polymer Composites</i> , 2013 , 34, 732-739 | 3 | 15 |
| 36 | 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 | 7.9 | 15 |
| 35 | Water decontamination using bio-based, chemically functionalized, doped, and ionic liquid-enhanced adsorbents: review. <i>Environmental Chemistry Letters</i> , 2021 , 19, 3075-3114 | 13.3 | 13 |

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| 34 | Sulfonated Magnetic Nanocomposite Based on Reactive PGMA-MAn Copolymer@Fe ₃ O ₄ Nanoparticles: Effective Removal of Cu(II) Ions from Aqueous Solutions. <i>International Journal of Polymer Science</i> , 2016 , 2016, 1-15 | 2.4 | 13 |
| 33 | Synthesis of conductive poly (3-aminobenzoic acid) nanostructures with different shapes in acidic ionic liquids medium. <i>Journal of Molecular Liquids</i> , 2018 , 271, 514-521 | 6 | 13 |
| 32 | 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 | 14.3 | 12 |
| 31 | Poly (3-aminobenzoic acid) @ MWCNTs hybrid conducting nanocomposite: preparation, characterization, and application as a coating for copper corrosion protection. <i>Composite Interfaces</i> , 2016 , 23, 571-583 | 2.3 | 11 |
| 30 | Smart Adsorbents for Aquatic Environmental Remediation. <i>Small</i> , 2021 , 17, e2007840 | 11 | 11 |
| 29 | Nonlinear optical properties of poly(aniline-co-pyrrole)@ ZnO-based nanofluid. <i>Optical Materials</i> , 2020 , 102, 109835 | 3.3 | 10 |
| 28 | 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 | 9 |
| 27 | Nonspherical Metal-Based Nanoarchitectures: Synthesis and Impact of Size, Shape, and Composition on Their Biological Activity. <i>Small</i> , 2021 , 17, e2007073 | 11 | 9 |
| 26 | 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 | 5.9 | 9 |
| 25 | Electroconductive multi-functional polypyrrole composites for biomedical applications. <i>Applied Materials Today</i> , 2021 , 24, 101117 | 6.6 | 9 |
| 24 | Advances in tannic acid-incorporated biomaterials: Infection treatment, regenerative medicine, cancer therapy, and biosensing. <i>Chemical Engineering Journal</i> , 2022 , 432, 134146 | 14.7 | 8 |
| 23 | Non-spherical nanostructures in nanomedicine: From noble metal nanorods to transition metal dichalcogenide nanosheets. <i>Applied Materials Today</i> , 2021 , 24, 101107 | 6.6 | 7 |
| 22 | 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 | 8.4 | 7 |
| 21 | 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 | 3.5 | 5 |
| 20 | Manufacturing of Microfluidic Sensors Utilizing 3D Printing Technologies: A Production System. <i>Journal of Nanomaterials</i> , 2021 , 2021, 1-16 | 3.2 | 5 |
| 19 | 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 | 7.9 | 4 |
| 18 | Acidic ionic liquid-mediated preparation of shaped electrically conductive poly(p-phenylenediamine). <i>Journal of Polymer Research</i> , 2021 , 28, 1 | 2.7 | 4 |
| 17 | A perspective on the applications of functionalized nanogels: promises and challenges. <i>International Materials Reviews</i> , 1-25 | 16.1 | 3 |

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|----|---|------|---|
| 16 | Antimicrobial Metal-Based Nanomaterials and Their Industrial and Biomedical Applications. <i>Materials Horizons</i> , 2020 , 123-134 | 0.6 | 3 |
| 15 | Nanoparticles and nanofibres based on tree gums: Biosynthesis and applications. <i>Comprehensive Analytical Chemistry</i> , 2021 , 94, 223-265 | 1.9 | 3 |
| 14 | Biodegradable antibacterial and antioxidant nanocomposite films based on dextrin for bioactive food packaging. <i>Journal of Nanostructure in Chemistry</i> ,1 | 7.6 | 3 |
| 13 | Electrically Conductive Carbon-based (Bio)-nanomaterials for Cardiac Tissue Engineering. <i>Bioengineering and Translational Medicine</i> , | 14.8 | 3 |
| 12 | Thermal Lensing Effect in Laser Nanofluids Based on Poly (aniline-co-ortho phenylenediamine)@(text{TiO}_{2}) Interaction. <i>Journal of Electronic Materials</i> , 2021 , 50, 4896-4907 | 1.9 | 2 |
| 11 | Remediation of pharmaceuticals from contaminated water by molecularly imprinted polymers: a review.. <i>Environmental Chemistry Letters</i> , 2022 , 1-36 | 13.3 | 2 |
| 10 | Ionic liquid-mediated synthesis of metal nanostructures: Potential application in cancer diagnosis and therapy. <i>Journal of Ionic Liquids</i> , 2022 , 100033 | | 2 |
| 9 | Novel eco-friendly acacia gum-grafted-polyamidoxime@copper ferrite nanocatalyst for synthesis of pyrazolopyridine derivatives. <i>Journal of Nanostructure in Chemistry</i> ,1 | 7.6 | 1 |
| 8 | Antimicrobial Ionic Liquid-Based Materials for Biomedical Applications (Adv. Funct. Mater. 42/2021). <i>Advanced Functional Materials</i> , 2021 , 31, 2170312 | 15.6 | 1 |
| 7 | 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 | 3.6 | 1 |
| 6 | Antimicrobial nanocomposite adsorbent based on poly(meta-phenylenediamine) for remediation of lead (II) from water medium.. <i>Scientific Reports</i> , 2022 , 12, 4632 | 4.9 | 1 |
| 5 | Metal-organic framework-based materials for the abatement of air pollution and decontamination of wastewater. <i>Chemosphere</i> , 2022 , 135082 | 8.4 | 1 |
| 4 | Properties of Conducting Polymers. <i>ACS Symposium Series</i> ,39-65 | 0.4 | 0 |
| 3 | Cellulose composites as nanobiosorbents for ecological remediation 2022 , 333-358 | | |
| 2 | Micro and Nano Sensors from Additive Manufacturing. <i>Journal of Nanomaterials</i> , 2022 , 2022, 1-2 | 3.2 | |
| 1 | Preparation of Conducting Polymers/Composites. <i>ACS Symposium Series</i> ,67-90 | 0.4 | |