

# Ebrahim Abouzari-Lotf

## List of Publications by Year in descending order

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96  
papers

1,928  
citations

218592

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h-index

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96  
all docs

96  
docs citations

96  
times ranked

2172  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Visualization of structural changes and degradation of porphyrin-based battery electrodes. <i>Journal of Power Sources</i> , 2022, 522, 231002.  | 4.0 | 8         |
| 2  | CTAB assisted synthesis of MnFe <sub>2</sub> O <sub>4</sub> @ SiO <sub>2</sub> nanoparticles for magnetic hyperthermia and MRI application. <i>Materials Today Communications</i> , 2022, 31, 103412.  | 0.9 | 9         |
| 3  | Application of a transition metal oxide/carbon-based nanocomposite for designing a molecularly imprinted poly (l-cysteine) electrochemical sensor for curcumin. <i>Food Chemistry</i> , 2022, 386, 132845.   | 4.2 | 12        |
| 4  | Magnetic field-induced alignment of polybenzimidazole microstructures to enhance proton conduction. <i>Journal of the Chinese Chemical Society</i> , 2021, 68, 86-94.  | 0.8 | 4         |
| 5  | Highly conductive anion exchange membranes based on polymer networks containing imidazolium functionalised side chains. <i>Scientific Reports</i> , 2021, 11, 3764.  | 1.6 | 22        |
| 6  | A Self-Conditioned Metalloporphyrin as a Highly Stable Cathode for Fast Rechargeable Magnesium Batteries. <i>ChemSusChem</i> , 2021, 14, 1840-1846.  | 3.6 | 17        |
| 7  | Working Mechanisms and Design Principles of Comb-like Polycarboxylate Ether Superplasticizers in Cement Hydration: Quantitative Insights for a Series of Well-Defined Copolymers. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 8354-8371. | 3.2 | 22        |
| 8  | Superparamagnetic magnetite nanoparticles for cancer cells treatment via magnetic hyperthermia: effect of natural capping agent, particle size and concentration. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 24026-24040. | 1.1 | 30        |
| 9  | A facile and green synthetic approach toward fabrication of Alcea- and Thyme-stabilized TiO <sub>2</sub> nanoparticles for photocatalytic applications. <i>Arabian Journal of Chemistry</i> , 2020, 13, 2132-2141.                                       | 2.3 | 27        |
| 10 | Magnetorheological studies of polymer nanocomposites. , 2020, , 263-294.   |     | 3         |
| 11 | Effect of ligand type on CO <sub>2</sub> adsorption over amine functionalized fibrous adsorbents. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020, 808, 012009.   | 0.3 | 1         |
| 12 | Rapid Surface Modification of Ultrafiltration Membranes for Enhanced Antifouling Properties. <i>Membranes</i> , 2020, 10, 401.   | 1.4 | 16        |
| 13 | Preparation of porous membrane with graphene oxide for vanadium redox flow battery. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020, 808, 012012.   | 0.3 | 0         |
| 14 | Kinetic studies of radiation induced grafting of N-vinylformamide onto polyethylene/polypropylene fibrous sheets and testing its hydrolysed copolymer for CO <sub>2</sub> adsorption. <i>Radiation Physics and Chemistry</i> , 2020, 171, 108727.        | 1.4 | 15        |
| 15 | Outstanding supercapacitor performance of Nd-Mn co-doped perovskite LaFeO <sub>3</sub> @nitrogen-doped graphene oxide nanocomposites. <i>Electrochimica Acta</i> , 2020, 335, 135699.  | 2.6 | 74        |
| 16 | Fabrication and characterization of supported dual acidic ionic liquids for polymer electrolyte membrane fuel cell applications. <i>Arabian Journal of Chemistry</i> , 2019, 12, 1011-1023.  | 2.3 | 15        |
| 17 | Electrocatalytic Behavior of Silver Nanoparticles Embedded in Potato and Tapioca Starch for Oxygen Reduction Reaction. <i>Starch/Staerke</i> , 2019, 71, 1800038.  | 1.1 | 1         |
| 18 | Effect of synthesis route on the electrochemical performance of CoMnFeO <sub>4</sub> nanoparticles as a novel supercapacitor electrode material. <i>Applied Surface Science</i> , 2019, 494, 440-451.  | 3.1 | 56        |

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|----|---|-----|-----------|
| 19 | A comparison of CO <sub>2</sub> adsorption behaviour of mono- and diamine-functionalised adsorbents. E3S Web of Conferences, 2019, 90, 01010.   | 0.2 | 3         |
| 20 | MicroRNA-based Biosensors for Early Detection of Cancers. Current Pharmaceutical Design, 2019, 24, 4675-4680.   | 0.9 | 19        |
| 21 | GO-modified membranes for vanadium redox flow battery. E3S Web of Conferences, 2019, 90, 01004.   | 0.2 | 2         |
| 22 | Facile and Scalable Synthesis of Ultrafine MnCo <sub>2</sub> O <sub>4</sub> Nanoparticles Via Mechanical Alloying as Supercapacitive Materials. Jom, 2019, 71, 2396-2404.   | 0.9 | 7         |
| 23 | Efforts to Improve PBI/Acid Membrane System for High Temperature Polymer Electrolyte Membrane Fuel Cell (HT-PEMFC). E3S Web of Conferences, 2019, 90, 01002.  | 0.2 | 5         |
| 24 | Electrochemical behavior of SrFe <sub>12</sub> O <sub>19</sub> /CoFe <sub>2</sub> O <sub>4</sub> composite nanoparticles synthesized via one-pot hydrothermal method. Journal of Alloys and Compounds, 2019, 789, 40-47.                  | 2.8 | 34        |
| 25 | Novel polyolefin based alkaline polymer electrolyte membrane for vanadium redox flow batteries. Journal of Power Sources, 2019, 424, 245-253.   | 4.0 | 24        |
| 26 | Aerogel-based materials for adsorbent applications in material domains. E3S Web of Conferences, 2019, 90, 01003.  | 0.2 | 11        |
| 27 | Surface-modified fibrous membranes for fuel cell application. E3S Web of Conferences, 2019, 90, 01005.  | 0.2 | 0         |
| 28 | The optimization of effective parameters for electrodeposition of reduced graphene oxide through Taguchi method to evaluate the charge transfer. Measurement: Journal of the International Measurement Confederation, 2019, 137, 683-690. | 2.5 | 7         |
| 29 | Carbon Dioxide Adsorption on Grafted Nanofibrous Adsorbents Functionalized Using Different Amines. Frontiers in Energy Research, 2019, 7, .   | 1.2 | 21        |
| 30 | Improving the redox flow battery performance of low-cost thin polyelectrolyte membranes by layer-by-layer Surface assembly. Journal of Power Sources, 2019, 413, 182-190.   | 4.0 | 28        |
| 31 | Electrodeposited reduced graphene oxide as a highly efficient and low-cost electrocatalyst for vanadium redox flow batteries. Electrochimica Acta, 2019, 297, 31-39.  | 2.6 | 48        |
| 32 | Highly durable polybenzimidazole composite membranes with phosphonated graphene oxide for high temperature polymer electrolyte membrane fuel cells. Journal of Power Sources, 2019, 412, 238-245.   | 4.0 | 74        |
| 33 | Current approaches for detection of human Cytomegalovirus Type 1: A systematic review. Journal of Cellular Physiology, 2019, 234, 12433-12441.  | 2.0 | 17        |
| 34 | Electrooxidation of nitrite based on green synthesis of gold nanoparticles using Hibiscus sabdariffa leaves. Journal of the Taiwan Institute of Chemical Engineers, 2019, 95, 616-626.  | 2.7 | 47        |
| 35 | Amine functionalized radiation induced grafted polyolefin nanofibers for CO <sub>2</sub> adsorption. Radiation Physics and Chemistry, 2019, 156, 58-66.   | 1.4 | 23        |
| 36 | Phosphoric acid functionalized graphene oxide: A highly dispersible carbon-based nanocatalyst for the green synthesis of bio-active pyrazoles. Arabian Journal of Chemistry, 2019, 12, 188-197.   | 2.3 | 30        |

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|----|--|-----|-----------|
| 37 | Preparation and characterization of highly stable protic-ionic-liquid membranes. International Journal of Hydrogen Energy, 2019, 44, 30732-30742.  | 3.8 | 6         |
| 38 | A new achievement in green degradation of aqueous organic pollutants under visible-light irradiation. Water Science and Technology, 2018, 77, 1493-1504.   | 1.2 | 3         |
| 39 | Phosphonated graphene oxide with high electrocatalytic performance for vanadium redox flow battery. International Journal of Hydrogen Energy, 2018, 43, 189-197.   | 3.8 | 50        |
| 40 | Inclusion of octahedron-shaped ZnFe <sub>2</sub> O <sub>4</sub> nanoparticles in combination with carbon dots into carbonyl iron based magnetorheological suspension as additive. Journal of Alloys and Compounds, 2018, 737, 536-548.                           | 2.8 | 37        |
| 41 | A comparison of analytical methods for measuring concentrations of 25-hydroxy vitamin D in biological samples. Analytical Methods, 2018, 10, 5599-5612.  | 1.3 | 18        |
| 42 | Cytotoxicity characteristics of green assisted-synthesized superparamagnetic maghemite (γ-Fe <sub>2</sub> O <sub>3</sub> ) nanoparticles. Journal of Materials Science: Materials in Electronics, 2018, 29, 12135-12143.   | 1.1 | 26        |
| 43 | Electrophoretically-Deposited Nano-Fe <sub>3</sub> O <sub>4</sub> @carbon 3D Structure on Carbon Fiber as High-Performance Supercapacitors. Journal of Electronic Materials, 2018, 47, 4807-4812.  | 1.0 | 14        |
| 44 | Fabrication by Electrophoretic Deposition of Nano-Fe <sub>3</sub> O <sub>4</sub> and Fe <sub>3</sub> O <sub>4</sub> @SiO <sub>2</sub> 3D Structure on Carbon Fibers as Supercapacitor Materials. Jom, 2018, 70, 1404-1410.                                       | 0.9 | 10        |
| 45 | Tunable Electrochemical Approach for Reduction of Graphene Oxide: Taguchi-Assisted Chemical and Structural Optimization. Journal of the Electrochemical Society, 2018, 165, E429-E438.   | 1.3 | 8         |
| 46 | Mechanochemically synthesized NiCo <sub>2</sub> O <sub>4</sub> /Vulcan/PANI nanocomposite and investigation of its electrochemical behavior as a supercapacitor. Ceramics International, 2018, 44, 20049-20057.  | 2.3 | 19        |
| 47 | Soluble, thermally stable, flame retardant quinoline-based poly(ester amide)s. Soft Materials, 2018, 16, 265-274.  | 0.8 | 3         |
| 48 | Highly flexible method for fabrication of poly (Glycidyl Methacrylate) grafted polyolefin nanofiber. Radiation Physics and Chemistry, 2018, 151, 283-291.  | 1.4 | 14        |
| 49 | Green synthesis of superparamagnetic magnetite nanoparticles: effect of natural surfactant and heat treatment on the magnetic properties. Journal of Materials Science: Materials in Electronics, 2018, 29, 17144-17153.   | 1.1 | 18        |
| 50 | Carbon-Based Nanocomposite Proton Exchange Membranes for Fuel Cells. , 2018, , 437-461.  |     | 5         |
| 51 | Self-assembled heteropolyacid on nitrogen-enriched carbon nanofiber for vanadium flow batteries. Nanoscale, 2018, 10, 13212-13222.   | 2.8 | 15        |
| 52 | Intensifying radiation induced grafting of 4-vinylpyridine/glycidyl methacrylate mixtures onto poly(ethylene-co-tetrafluoroethylene) films using ultrasound. Radiation Physics and Chemistry, 2017, 134, 56-61.  | 1.4 | 6         |
| 53 | Polyvinylamine-Containing Adsorbent by Radiation-Induced Grafting of <i>N</i> -Vinylformamide onto Ultrahigh Molecular Weight Polyethylene Films and Hydrolysis for CO <sub>2</sub> Capture. Industrial & Engineering Chemistry Research, 2017, 56, 5925-5934.   | 1.8 | 22        |
| 54 | Electrospinning of poly(vinylpyrrolidone) template for formation of ZrO <sub>2</sub> nanoclusters for enhancing properties of composite proton conducting membranes. International Journal of Polymeric Materials and Polymeric Biomaterials, 2017, 66, 289-298. | 1.8 | 11        |

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|----|---|-----|-----------|
| 55 | Composite Membranes Based on Heteropolyacids and Their Applications in Fuel Cells. , 2017, , 99-131.  |     | 3         |
| 56 | Phase separated nanofibrous anion exchange membranes with polycationic side chains. Journal of Materials Chemistry A, 2017, 5, 15326-15341.   | 5.2 | 39        |
| 57 | Enhanced magnetorheology of soft magnetic carbonyl iron suspension with binary mixture of Ni-Zn ferrite and Fe <sub>3</sub> O <sub>4</sub> nanoparticle additive. Colloid and Polymer Science, 2017, 295, 1499-1510.                    | 1.0 | 27        |
| 58 | Effect of sepiolite nanoparticles on the properties of novel poly(sulfone ether imide). Polymers for Advanced Technologies, 2017, 28, 404-410.  | 1.6 | 4         |
| 59 | Synthesis of pyrano[2,3-c]pyrazoles by ionic liquids under green and eco-safe conditions. Research on Chemical Intermediates, 2017, 43, 717-728.  | 1.3 | 23        |
| 60 | STABILITY AND PERFORMANCE EVALUATION OF ION-EXCHANGE MEMBRANES FOR VANADIUM REDOX FLOW BATTERY. Jurnal Teknologi (Sciences and Engineering), 2016, 78, .  | 0.3 | 3         |
| 61 | A Green Approach for the Synthesis of Silver Nanoparticles Using Ultrasonic Radiation's Times in Sodium Alginate Media: Characterization and Antibacterial Evaluation. Journal of Nanomaterials, 2016, 2016, 1-11.                      | 1.5 | 32        |
| 62 | Enhancement of performance of pyridine modified polybenzimidazole fuel cell membranes using zirconium oxide nanoclusters and optimized phosphoric acid doping level. International Journal of Hydrogen Energy, 2016, 41, 6842-6854.     | 3.8 | 24        |
| 63 | Environmentally benign and highly regioselective ring opening of epoxides accelerated by ultrasound irradiation. Green Chemistry Letters and Reviews, 2016, 9, 76-84.   | 2.1 | 11        |
| 64 | Enhancement of fuel cell performance with less-water dependent composite membranes having polyoxometalate anchored nanofibrous interlayer. Journal of Power Sources, 2016, 326, 482-489.  | 4.0 | 21        |
| 65 | Phosphonated polyimides: Enhancement of proton conductivity at high temperatures and low humidity. Journal of Membrane Science, 2016, 516, 74-82.   | 4.1 | 48        |
| 66 | High refractive index materials: A structural property comparison of sulfide and sulfoxide containing polyamides. Journal of Polymer Science Part A, 2015, 53, 2867-2877.   | 2.5 | 17        |
| 67 | Enhance protection of electronic appliances through multivariate modelling and optimization of ceramic core materials in varistor devices. RSC Advances, 2015, 5, 21384-21395.  | 1.7 | 10        |
| 68 | Enhancement of electronic protection to reduce e-waste. Journal of Industrial and Engineering Chemistry, 2015, 29, 400-407.   | 2.9 | 4         |
| 69 | Nicotinic-based poly(amide-ether-imide)s: a new category of soluble, heat-resistant, and flame-retardant polyimides. Designed Monomers and Polymers, 2015, 18, 451-459.   | 0.7 | 11        |
| 70 | Scheduling the blended solution as industrial CO <sub>2</sub> absorber in separation process by back-propagation artificial neural networks. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2015, 150, 892-901. | 2.0 | 5         |
| 71 | Improved Methanol Barrier Property of Nafion Hybrid Membrane by Incorporating Nanofibrous Interlayer Self-Immobilized with High Level of Phosphotungstic Acid. ACS Applied Materials & Interfaces, 2015, 7, 17008-17015.                | 4.0 | 62        |
| 72 | Modeling of photodegradation process to remove the higher concentration of environmental pollution. Desalination and Water Treatment, 2015, , 1-11.   | 1.0 | 0         |

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|----|--|-----|-----------|
| 73 | Ultrasound-assisted regioselective ring opening of epoxides with nitrogen heterocycles using pyrrolidonium and imidazolium-based acidic ionic liquids. <i>Research on Chemical Intermediates</i> , 2015, 41, 10097-10108.  | 1.3 | 9         |
| 74 | Integrated ecological risk assessment of dioxin compounds. <i>Environmental Science and Pollution Research</i> , 2015, 22, 11193-11208.  | 2.7 | 29        |
| 75 | Sustainable alternative protocols for the multicomponent synthesis of spiro-4H-pyrans catalyzed by 4-dimethylaminopyridine. <i>Journal of Industrial and Engineering Chemistry</i> , 2015, 29, 273-281.  | 2.9 | 33        |
| 76 | Dioxin risk assessment: mechanisms of action and possible toxicity in human health. <i>Environmental Science and Pollution Research</i> , 2015, 22, 19434-19450.   | 2.7 | 61        |
| 77 | High refractive index and low-birefringence polyamides containing thiazole and naphthalene units. <i>RSC Advances</i> , 2015, 5, 91670-91682.  | 1.7 | 33        |
| 78 | Novel polyoxadiazoles with non-coplanar ortho-linked structures as highly CO <sub>2</sub> permselective membranes. <i>RSC Advances</i> , 2014, 4, 17993-18002.   | 1.7 | 5         |
| 79 | Eco-safe and expeditious approaches for synthesis of quinazoline and pyrimidine-2-amine derivatives using ionic liquids aided with ultrasound or microwave irradiation. <i>Journal of Molecular Liquids</i> , 2014, 199, 267-274.  | 2.3 | 26        |
| 80 | Highly refractive, transparent, and solution processable polyamides based on a noncoplanar ortho-substituted sulfonyl-bridged diacid monomer containing chlorine side groups. <i>Journal of Polymer Research</i> , 2013, 20, 1.  | 1.2 | 12        |
| 81 | Binaphthyl-based macromolecules: a review. <i>RSC Advances</i> , 2013, 3, 6717.  | 1.7 | 54        |
| 82 | A new one-pot synthesis of 1,2,4-oxadiazoles from aryl nitriles, hydroxylamine and crotonoyl chloride. <i>Journal of Chemical Sciences</i> , 2013, 125, 731-735.   | 0.7 | 6         |
| 83 | Fluorinated ortho-linked polyamides derived from non-coplanar 1,1- $\epsilon^2$ -thiobis(2-naphthol): synthesis and characterization. <i>Polymer Journal</i> , 2011, 43, 816-825.  | 1.3 | 20        |
| 84 | Phosphonated poly(arylene ether)s as potential high temperature proton conducting materials. <i>Polymer</i> , 2011, 52, 4709-4717.   | 1.8 | 67        |
| 85 | Heat-resistant and soluble fluorinated poly(amide imide)s based on non-coplanar ortho-linked diimide-dicarboxylic acid. <i>Polymer Degradation and Stability</i> , 2011, 96, 1022-1028.  | 2.7 | 32        |
| 86 | Synthesis of New Multibenzo Oxygen-Sulfur Donor Macrocycles Containing Lactams at Room Temperature. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 2010, 185, 808-815.   | 0.8 | 3         |
| 87 | Characterisation of novel macroacyclic hexadentate (N <sub>4</sub> O <sub>2</sub> and) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 5 complexes, with ligands derived from reduction. <i>Journal of Chemical Research</i> , 2009, 2009, 361-365.   | 0.6 | 9         |
| 88 | Preparation and properties of new ortho-linked polyamide-imides bearing ether, sulfur, and trifluoromethyl linkages. <i>European Polymer Journal</i> , 2009, 45, 1599-1606.  | 2.6 | 53        |
| 89 | Synthesis and Properties of Novel Fluorinated Polyamides Based on Noncoplanar Sulfoxide Containing Aromatic Bis(ether amine). <i>Polymer Journal</i> , 2009, 41, 174-180.  | 1.3 | 15        |
| 90 | BINOL Aza Macrocycle Derivatives: Synthesis of Dinaphthosulfone Aza Macrocycles Using p-Toluenesulfonic Acid (p-TsOH) in Methanol as an Efficient Route and Evaluation of Their <sup>1</sup> H NMR Spectra. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 2009, 184, 2066-2077. | 0.8 | 8         |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 91 | Synthesis and Properties of Organosoluble Fluorinated Polyamides Bearing 2,2'-Thio-bis(4-methyl) Tj ETQq1 1 0.784314 rgBT /Overlo   | 0.7 | 10        |
| 92 | Synthesis of new diâ€•and tetraazadibenzosulfoxide macrocyclic compounds. Journal of Heterocyclic Chemistry, 2008, 45, 319-322.   | 1.4 | 3         |
| 93 | Spectrophotometric Study of Complexation of Tri-Aza Dibenzosulfide and Dibenzosulfoxide Macrocyclic Compounds with Heavy Metal Ions. Phosphorus, Sulfur and Silicon and the Related Elements, 2008, 182, 2439-2448. | 0.8 | 7         |
| 94 | Soluble and thermally stable polyamides bearing 1,1â€•-thiobis(2-naphthoxy) groups. European Polymer Journal, 2007, 43, 620-627.  | 2.6 | 28        |
| 95 | Sulfide and sulfoxide based poly(ether-amide)s: Synthesis and characterization. European Polymer Journal, 2006, 42, 133-139.  | 2.6 | 34        |
| 96 | The Synthesis and Characterization of Novel Dibenzosulfide Diamine and the Application in the Determination of Heavy Metals. Phosphorus, Sulfur and Silicon and the Related Elements, 2006, 181, 2321-2326.         | 0.8 | 10        |