Ebrahim Abouzari-Lotf

List of Publications by Year
in descending order

96 papers	1,928 citations	218592 26 h-index	330025 37 g-index
96 all docs	96 docs citations	96 times ranked	2172 citing authors

#	Article	IF	Citations
1	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
2	Outstanding supercapacitor performance of Ndâ€“Mn co-doped perovskite LaFeO3@nitrogen-doped graphene oxide nanocomposites. Electrochimica Acta, 2020, 335, 135699.	2.6	74
3	Phosphonated poly(arylene ether)s as potential high temperature proton conducting materials. Polymer, 2011, 52, 4709-4717.	1.8	67
4	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
5	Dioxin risk assessment: mechanisms of action and possible toxicity in human health. Environmental Science and Pollution Research, 2015, 22, 19434-19450.	2.7	61
6	Effect of synthesis route on the electrochemical performance of CoMnFeO4 nanoparticles as a novel supercapacitor electrode material. Applied Surface Science, 2019, 494, 440-451.	3.1	56
7	Binaphthyl-based macromolecules: a review. RSC Advances, 2013, 3, 6717.	1.7	54
8	Preparation and properties of new ortho-linked polyamide-imides bearing ether, sulfur, and trifluoromethyl linkages. European Polymer Journal, 2009, 45, 1599-1606.	2.6	53
9	Phosphonated graphene oxide with high electrocatalytic performance for vanadium redox flow battery. International Journal of Hydrogen Energy, 2018, 43, 189-197.	3.8	50
10	Phosphonated polyimides: Enhancement of proton conductivity at high temperatures and low humidity. Journal of Membrane Science, 2016, 516, 74-82.	4.1	48
11	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
12	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
13	Phase separated nanofibrous anion exchange membranes with polycationic side chains. Journal of Materials Chemistry A, 2017, 5, 15326-15341.	5.2	39
14	Inclusion of octahedron-shaped ZnFe2O4 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
15	Sulfide and sulfoxide based poly(ether-amide)s: Synthesis and characterization. European Polymer Journal, 2006, 42, 133-139.	2.6	34
16	Electrochemical behavior of SrFe12O19/CoFe2O4 composite nanoparticles synthesized via one-pot hydrothermal method. Journal of Alloys and Compounds, 2019, 789, 40-47.	2.8	34
17	Sustainable alternative protocols for the multicomponent synthesis of spiro-4H-pyrans catalyzed by 4-dimethylaminopyridine. Journal of Industrial and Engineering Chemistry, 2015, 29, 273-281.	2.9	33
18	High refractive index and low-birefringence polyamides containing thiazole and naphthalene units. RSC Advances, 2015, 5, 91670-91682.	1.7	33

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19	Heat-resistant and soluble fluorinated poly(amide imide)s based on non-coplanar ortho-linked diimide-dicarboxylic acid. Polymer Degradation and Stability, 2011, 96, 1022-1028.	2.7	32
20	A Green Approach for the Synthesis of Silver Nanoparticles Using Ultrasonic Radiationâ€™s Times in Sodium Alginate Media: Characterization and Antibacterial Evaluation. Journal of Nanomaterials, 2016, 2016, 1-11.	1.5	32
21	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
22	Superparamagnetic magnetite nanoparticles for cancer cells treatment via magnetic hyperthermia: effect of natural capping agent, particle size and concentration. Journal of Materials Science: Materials in Electronics, 2021, 32, 24026-24040.	1.1	30
23	Integrated ecological risk assessment of dioxin compounds. Environmental Science and Pollution Research, 2015, 22, 11193-11208.	2.7	29
24	Soluble and thermally stable polyamides bearing 1,1â€²-thiobis(2-naphthoxy) groups. European Polymer Journal, 2007, 43, 620-627.	2.6	28
25	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
26	Enhanced magnetorheology of soft magnetic carbonyl iron suspension with binary mixture of Ni-Zn ferrite and Fe3O4 nanoparticle additive. Colloid and Polymer Science, 2017, 295, 1499-1510.	1.0	27
27	A facile and green synthetic approach toward fabrication of Alcea- and Thyme-stabilized TiO2 nanoparticles for photocatalytic applications. Arabian Journal of Chemistry, 2020, 13, 2132-2141.	2.3	27
28	Eco-safe and expeditious approaches for synthesis of quinazoline and pyrimidine-2-amine derivatives using ionic liquids aided with ultrasound or microwave irradiation. Journal of Molecular Liquids, 2014, 199, 267-274.	2.3	26
29	Cytotoxicity characteristics of green assisted-synthesized superparamagnetic maghemite (Î³-Fe2O3) nanoparticles. Journal of Materials Science: Materials in Electronics, 2018, 29, 12135-12143.	1.1	26
30	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
31	Novel polyolefin based alkaline polymer electrolyte membrane for vanadium redox flow batteries. Journal of Power Sources, 2019, 424, 245-253.	4.0	24
32	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
33	Amine functionalized radiation induced grafted polyolefin nanofibers for CO2 adsorption. Radiation Physics and Chemistry, 2019, 156, 58-66.	1.4	23
34	Polyvinylamine-Containing Adsorbent by Radiation-Induced Grafting of N-Vinylformamide onto Ultrahigh Molecular Weight Polyethylene Films and Hydrolysis for CO₂ Capture. Industrial & Engineering Chemistry Research, 2017, 56, 5925-5934.	1.8	22
35	Highly conductive anion exchange membranes based on polymer networks containing imidazolium functionalised side chains. Scientific Reports, 2021, 11, 3764.	1.6	22
36	Working Mechanisms and Design Principles of Comb-like Polycarboxylate Ether Superplasticizers in Cement Hydration: Quantitative Insights for a Series of Well-Defined Copolymers. ACS Sustainable Chemistry and Engineering, 2021, 9, 8354-8371.	3.2	22

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37	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
38	Carbon Dioxide Adsorption on Grafted Nanofibrous Adsorbents Functionalized Using Different Amines. Frontiers in Energy Research, 2019, 7, .	1.2	21
39	Fluorinated ortho-linked polyamides derived from non-coplanar 1,1â€²-thiobis(2-naphthol): synthesis and characterization. Polymer Journal, 2011, 43, 816-825.	1.3	20
40	Mechanochemically synthesized NiCo2O4/Vulcan/PANI nanocomposite and investigation of its electrochemical behavior as a supercapacitor. Ceramics International, 2018, 44, 20049-20057.	2.3	19
41	MicroRNA-based Biosensors for Early Detection of Cancers. Current Pharmaceutical Design, 2019, 24, 4675-4680.	0.9	19
42	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
43	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
44	High refractive index materials: A structural property comparison of sulfideâ€•and sulfoxideâ€containing polyamides. Journal of Polymer Science Part A, 2015, 53, 2867-2877.	2.5	17
45	Current approaches for detection of human Tâ€lymphotropic virus Type 1: A systematic review. Journal of Cellular Physiology, 2019, 234, 12433-12441.	2.0	17
46	A Selfâ€Conditioned Metalloporphyrin as a Highly Stable Cathode for Fast Rechargeable Magnesium Batteries. ChemSusChem, 2021, 14, 1840-1846.	3.6	17
47	Rapid Surface Modification of Ultrafiltration Membranes for Enhanced Antifouling Properties. Membranes, 2020, 10, 401.	1.4	16
48	Synthesis and Properties of Novel Fluorinated Polyamides Based on Noncoplanar Sulfoxide Containing Aromatic Bis(ether amine). Polymer Journal, 2009, 41, 174-180.	1.3	15
49	Fabrication and characterization of supported dual acidic ionic liquids for polymer electrolyte membrane fuel cell applications. Arabian Journal of Chemistry, 2019, 12, 1011-1023.	2.3	15
50	Kinetic studies of radiation induced grafting of N-vinylformamide onto polyethylene/polypropylene fibrous sheets and testing its hydrolysed copolymer for CO2 adsorption. Radiation Physics and Chemistry, 2020, 171, 108727.	1.4	15
51	Self-assembled heteropolyacid on nitrogen-enriched carbon nanofiber for vanadium flow batteries. Nanoscale, 2018, 10, 13212-13222.	2.8	15
52	Electrophoretically-Deposited Nano-Fe3O4@carbon 3D Structure on Carbon Fiber as High-Performance Supercapacitors. Journal of Electronic Materials, 2018, 47, 4807-4812.	1.0	14
53	Highly flexible method for fabrication of poly (Glycidyl Methacrylate) grafted polyolefin nanofiber. Radiation Physics and Chemistry, 2018, 151, 283-291.	1.4	14
54	Highly refractive, transparent, and solution processable polyamides based on a noncoplanar ortho-substituted sulfonyl-bridged diacid monomer containing chlorine side groups. Journal of Polymer Research, 2013, 20, 1.	1.2	12

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55	Application of a transition metal oxide/carbon-based nanocomposite for designing a molecularly imprinted poly (l-cysteine) electrochemical sensor for curcumin. Food Chemistry, 2022, 386, 132845.	4.2	12
56	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
57	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
58	Electrospinning of poly(vinylpyrrodine) template for formation of ZrO₂nanoclusters for enhancing properties of composite proton conducting membranes. International Journal of Polymeric Materials and Polymeric Biomaterials, 2017, 66, 289-298.	1.8	11
59	Aerogel-based materials for adsorbent applications in material domains. E3S Web of Conferences, 2019, 90, 01003.	0.2	11
60	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
61	Synthesis and Properties of Organosoluble Fluorinated Polyamides Bearing 2-2â€²-Thio-bis(4-methyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 387 Td	0.7	10
62	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
63	Fabrication by Electrophoretic Deposition of Nano-Fe3O4 and Fe3O4@SiO2 3D Structure on Carbon Fibers as Supercapacitor Materials. Jom, 2018, 70, 1404-1410.	0.9	10
64	Characterisation of novel macroacyclic hexadentate (N₄O₂ and) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 387 Td complexes, with ligands derived from reduction. Journal of Chemical Research, 2009, 2009, 361-365.	0.6	9
65	Ultrasound-assisted regioselective ring opening of epoxides with nitrogen heterocycles using pyrrolidonium and imidazolium-based acidic ionic liquids. Research on Chemical Intermediates, 2015, 41, 10097-10108.	1.3	9
66	CTAB assisted synthesis of MnFe2O4@ SiO2 nanoparticles for magnetic hyperthermia and MRI application. Materials Today Communications, 2022, 31, 103412.	0.9	9
67	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 ¹H NMR Spectra. Phosphorus, Sulfur and Silicon and the Related Elements, 2009, 184, 2066-2077.	0.8	8
68	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
69	Visualization of structural changes and degradation of porphyrin-based battery electrodes. Journal of Power Sources, 2022, 522, 231002.	4.0	8
70	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
71	Facile and Scalable Synthesis of Ultrafine MnCo2O4 Nanoparticles Via Mechanical Alloying as Supercapacitive Materials. Jom, 2019, 71, 2396-2404.	0.9	7
72	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

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73	A new one-pot synthesis of 1,2,4-oxadiazoles from aryl nitriles, hydroxylamine and crotonoyl chloride. Journal of Chemical Sciences, 2013, 125, 731-735.	0.7	6
74	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
75	Preparation and characterization of highly stable protic-ionic-liquid membranes. International Journal of Hydrogen Energy, 2019, 44, 30732-30742.	3.8	6
76	Novel polyoxadiazoles with non-coplanar ortho-linked structures as highly CO2 permselective membranes. RSC Advances, 2014, 4, 17993-18002.	1.7	5
77	Scheduling the blended solution as industrial CO2 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
78	Carbon-Based Nanocomposite Proton Exchange Membranes for Fuel Cells. , 2018, , 437-461.		5
79	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
80	Enhancement of electronic protection to reduce e-waste. Journal of Industrial and Engineering Chemistry, 2015, 29, 400-407.	2.9	4
81	Effect of sepiolite nanoparticles on the properties of novel poly(sulfone ether imide). Polymers for Advanced Technologies, 2017, 28, 404-410.	1.6	4
82	Magnetic fieldâ€induced alignment of polybenzimidazole microstructures to enhance proton conduction. Journal of the Chinese Chemical Society, 2021, 68, 86-94.	0.8	4
83	Synthesis of new diâ€and tetraazadibenzosulfoxide macrocycolic compounds. Journal of Heterocyclic Chemistry, 2008, 45, 319-322.	1.4	3
84	Synthesis of New Multibenzo Oxygenâ€“Sulfur Donor Macrocycles Containing Lactams at Room Temperature. Phosphorus, Sulfur and Silicon and the Related Elements, 2010, 185, 808-815.	0.8	3
85	STABILITY AND PERFORMANCE EVALUATION OF ION-EXCHANGE MEMBRANES FOR VANADIUM REDOX FLOW BATTERY. Jurnal Teknologi (Sciences and Engineering), 2016, 78, .	0.3	3
86	Composite Membranes Based on Heteropolyacids and Their Applications in Fuel Cells. , 2017, , 99-131.		3
87	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
88	Soluble, thermally stable, flame retardant quinoline-based poly(ester amide)s. Soft Materials, 2018, 16, 265-274.	0.8	3
89	A comparison of CO2 adsorption behaviour of mono- and diamine-functionalised adsorbents. E3S Web of Conferences, 2019, 90, 01010.	0.2	3
90	Magnetorheological studies of polymer nanocomposites. , 2020, , 263-294.		3

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91	GO-modified membranes for vanadium redox flow battery. E3S Web of Conferences, 2019, 90, 01004.	0.2	2
92	Electroâ€Catalytic Behavior of Silver Nanoparticles Embedded in Potato and Tapioca Starch for Oxygen Reduction Reaction. Starch/Staerke, 2019, 71, 1800038.	1.1	1
93	Effect of ligand type on CO2 adsorption over amine functionalized fibrous adsorbents. IOP Conference Series: Materials Science and Engineering, 2020, 808, 012009.	0.3	1
94	Modeling of photodegradation process to remove the higher concentration of environmental pollution. Desalination and Water Treatment, 2015, , 1-11.	1.0	0
95	Surface-modified fibrous membranes for fuel cell application. E3S Web of Conferences, 2019, 90, 01005.	0.2	0
96	Preparation of porous membrane with graphene oxide for vanadium redox flow battery. IOP Conference Series: Materials Science and Engineering, 2020, 808, 012012.	0.3	0