

Mohammad K Hassan

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

67

papers

1,324

citations

20

h-index

34

g-index

71

ext. papers

1,619

ext. citations

4.3

avg, IF

4.89

L-index

#	Paper	IF	Citations
67	Glass Transition Temperature of Perfluorosulfonic Acid Ionomers. <i>Macromolecules</i> , 2007 , 40, 3886-3890	5.5	151
66	Flexible Pressure Sensor Based on PVDF Nanocomposites Containing Reduced Graphene Oxide-Titania Hybrid Nanolayers. <i>Polymers</i> , 2017 , 9,	4.5	77
65	Biodegradable aliphatic thermoplastic polyurethane based on poly(ϵ -caprolactone) and L-lysine diisocyanate. <i>Journal of Polymer Science Part A</i> , 2006 , 44, 2990-3000	2.5	75
64	Hydrolytic degradation of poly(d,l-lactide) as a function of end group: Carboxylic acid vs. hydroxyl. <i>Polymer</i> , 2006 , 47, 1960-1969	3.9	72
63	2D Ti ₃ C ₂ T _x (MXene)-reinforced polyvinyl alcohol (PVA) nanofibers with enhanced mechanical and electrical properties. <i>PLoS ONE</i> , 2017 , 12, e0183705	3.7	62
62	Recent advances in electroless-plated Ni-P and its composites for erosion and corrosion applications: a review. <i>Emergent Materials</i> , 2018 , 1, 3-24	3.5	52
61	Investigation of the physico-mechanical properties of electrospun PVDF/cellulose (nano)fibers. <i>Journal of Applied Polymer Science</i> , 2016 , 133,	2.9	43
60	Physico-Mechanical, Dielectric, and Piezoelectric Properties of PVDF Electrospun Mats Containing Silver Nanoparticles. <i>Journal of Carbon Research</i> , 2017 , 3, 30	3.3	43
59	Universal power law behavior of the AC conductivity versus frequency of agglomerate morphologies in conductive carbon nanotube-reinforced epoxy networks. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2016 , 54, 1918-1923	2.6	42
58	An investigation of the properties of poly(dimethylsiloxane)-bioinspired silica hybrids. <i>European Polymer Journal</i> , 2006 , 42, 167-178	5.2	41
57	Designing Flexible and Porous Fibrous Membranes for Oil Water Separation: A Review of Recent Developments. <i>Polymer Reviews</i> , 2020 , 60, 671-716	14	38
56	Polymer chain dynamics in epoxy based composites as investigated by broadband dielectric spectroscopy. <i>Arabian Journal of Chemistry</i> , 2016 , 9, 305-315	5.9	37
55	Some novel layered-silicate nanocomposites based on a biodegradable hydroxybutyrate copolymer. <i>European Polymer Journal</i> , 2007 , 43, 3128-3135	5.2	36
54	A review on recent advances in CO ₂ separation using zeolite and zeolite-like materials as adsorbents and fillers in mixed matrix membranes (MMMs). <i>Chemical Engineering Journal Advances</i> , 2021 , 6, 100091	3.6	33
53	Di(cyanate Ester) Networks Based on Alternative Fluorinated Bisphenols with Extremely Low Water Uptake. <i>ACS Macro Letters</i> , 2014 , 3, 105-109	6.6	28
52	Indentation and bending behavior of electroless Ni-P-Ti composite coatings on pipeline steel. <i>Surface and Coatings Technology</i> , 2018 , 334, 243-252	4.4	24
51	Nanophase Separated Perfluorinated Ionomers as Sol-Gel Polymerization Templates for Functional Inorganic Oxide Nanoparticles. <i>Polymer Reviews</i> , 2007 , 47, 543-565	14	24

50	Designing Carbon Nanotube-Based Oil Absorbing Membranes from Gamma Irradiated and Electrospun Polystyrene Nanocomposites. <i>Materials</i> , 2019 , 12,	3.5	21
49	Macromolecular dynamics of sulfonated poly(styrene-b-ethylene-ran-butylene-b-styrene) block copolymers by broadband dielectric spectroscopy. <i>European Polymer Journal</i> , 2011 , 47, 1936-1948	5.2	21
48	Fabrication of fouling resistant Ti ₃ C ₂ T _x (MXene)/cellulose acetate nanocomposite membrane for forward osmosis application. <i>Journal of Water Process Engineering</i> , 2020 , 38, 101551	6.7	21
47	Broadband dielectric spectroscopic studies of molecular motions in a Nafion [®] membrane vs. annealing time and temperature. <i>European Polymer Journal</i> , 2012 , 48, 789-802	5.2	19
46	Investigation of fracture behavior of annealed electroless Ni-P coating on pipeline steel using acoustic emission methodology. <i>Surface and Coatings Technology</i> , 2017 , 326, 336-342	4.4	18
45	Novel electroless deposited corrosion resistant and anti-bacterial NiP/nNi nanocomposite coatings. <i>Surface and Coatings Technology</i> , 2019 , 369, 323-333	4.4	17
44	Performance of electrospun polystyrene membranes in synthetic produced industrial water using direct-contact membrane distillation. <i>Desalination</i> , 2020 , 493, 114663	10.3	17
43	Vertically oriented nanoporous block copolymer membranes for oil/water separation and filtration. <i>Soft Matter</i> , 2020 , 16, 9648-9654	3.6	17
42	Electrospun polylactic acid/date palm polyphenol extract nanofibres for tissue engineering applications. <i>Emergent Materials</i> , 2019 , 2, 141-151	3.5	17
41	Seawater degradable thermoplastic polyurethanes. <i>Journal of Applied Polymer Science</i> , 2010 , 115, 1873-1880	3.8	17
40	Effect of electroless bath composition on the mechanical, chemical, and electrochemical properties of new NiP/nNi nanocomposite coatings. <i>Surface and Coatings Technology</i> , 2019 , 362, 239-251	4.4	16
39	Morphology, Nucleation, and Isothermal Crystallization Kinetics of Poly(ϵ -caprolactone) Mixed with a Polycarbonate/MWCNTs Masterbatch. <i>Polymers</i> , 2017 , 9,	4.5	16
38	Broadband dielectric spectroscopic characterization of Nafion [®] chemical degradation. <i>Journal of Power Sources</i> , 2007 , 172, 72-77	8.9	16
37	Biodegradable Copolymers of 3-Hydroxybutyrate-co-3-Hydroxyhexanoate (Nodax TM), Including Recent Improvements in their Mechanical Properties. <i>Molecular Crystals and Liquid Crystals</i> , 2006 , 447, 23/[341]-44/[362]	0.5	16
36	Preparation and Preliminary Dielectric Characterization of Structured C-Thiol-Ene Polymer Nanocomposites Assembled Using the Thiol-Ene Click Reaction. <i>Materials</i> , 2015 , 8, 7795-7804	3.5	12
35	Mesoporous silica filled smart super oleophilic fibers of triblock copolymer nanocomposites for oil absorption applications. <i>Emergent Materials</i> , 2020 , 3, 279-290	3.5	12
34	Accelerated Weathering Effects on Poly(3-hydroxybutyrate--3-hydroxyvalerate) (PHBV) and PHBV/TiO Nanocomposites. <i>Polymers</i> , 2020 , 12,	4.5	11
33	Effects of Rutile-TiO Nanoparticles on Accelerated Weathering Degradation of Poly(Lactic Acid). <i>Polymers</i> , 2020 , 12,	4.5	10

32	White Graphene-Cobalt Oxide Hybrid Filler Reinforced Polystyrene Nanofibers for Selective Oil Absorption. <i>Polymers</i> , 2019 , 12,	4.5	10
31	A precious-metal-free Fe-intercalated carbon nitride porous-network with enhanced activity for the oxygen reduction reaction and methanol-tolerant oxygen reduction reaction. <i>Sustainable Energy and Fuels</i> , 2020 , 4, 5050-5060	5.8	10
30	Broadband dielectric spectroscopy studies of glassy-state relaxations in annealed poly(2,5-benzimidazole). <i>Polymer International</i> , 2012 , 61, 55-64	3.3	9
29	Comparison of Nanofiltration with Reverse Osmosis in Reclaiming Tertiary Treated Municipal Wastewater for Irrigation Purposes. <i>Membranes</i> , 2021 , 11,	3.8	9
28	PVA/Chitosan/Silver Nanoparticles Electrospun Nanocomposites: Molecular Relaxations Investigated by Modern Broadband Dielectric Spectroscopy. <i>Nanomaterials</i> , 2018 , 8,	5.4	9
27	Dielectric properties of C60 and Sc3N@C80 fullereneol containing polyurethane nanocomposites. <i>Journal of Applied Polymer Science</i> , 2014 , 131, n/a-n/a	2.9	8
26	Broadband dielectric spectroscopic characterization of the hydrolytic degradation of carboxylic acid-terminated poly(d,l-lactide) materials. <i>Polymer</i> , 2007 , 48, 2022-2029	3.9	8
25	Corrosion and Heat Treatment Study of Electroless NiP-Ti Nanocomposite Coatings Deposited on HSLA Steel. <i>Nanomaterials</i> , 2020 , 10,	5.4	8
24	Ionic liquids application for wastewater treatment and biofuel production: A mini review. <i>Journal of Molecular Liquids</i> , 2021 , 337, 116421	6	8
23	High temperature proton exchange membranes with enhanced proton conductivities at low humidity and high temperature based on polymer blends and block copolymers of poly(1,3-cyclohexadiene) and poly(ethylene glycol). <i>Polymer</i> , 2015 , 77, 208-217	3.9	7
22	Secondary chain motion and mechanical properties of γ -irradiated-regenerated cellulose films. <i>Starch/Staerke</i> , 2017 , 69, 1500329	2.3	6
21	Hydrocarbon-based fuel cell membranes: Sulfonated crosslinked poly(1,3-cyclohexadiene) membranes for high temperature polymer electrolyte fuel cells. <i>Polymer</i> , 2015 , 73, 17-24	3.9	6
20	The missing piece of the puzzle regarding the relation between the degree of superhydrophobicity and the corrosion resistance of superhydrophobic coatings. <i>Electrochemistry Communications</i> , 2018 , 91, 41-44	5.1	6
19	Validation and application of a membrane filtration evaluation protocol for oil-water separation. <i>Journal of Water Process Engineering</i> , 2021 , 43, 102185	6.7	6
18	Molecular scale cure rate dependence of thermoset matrix polymers. <i>Arabian Journal of Chemistry</i> , 2016 , 9, 206-218	5.9	5
17	Broadband Dielectric Spectroscopic Studies of Annealed Nafion [®] Membranes. <i>ECS Transactions</i> , 2009 , 25, 371-384	1	4
16	Kinetic studies of POSS/DGEBA precursors derived from monoamine functional POSS using dynamic dielectric sensing and nuclear magnetic resonance. <i>Journal of Applied Polymer Science</i> , 2018 , 135, 45994	2.9	4
15	Polyaniline/Polystyrene Blends: In-Depth Analysis of the Effect of Sulfonic Acid Dopant Concentration on AC Conductivity Using Broadband Dielectric Spectroscopy. <i>International Journal of Polymer Science</i> , 2018 , 2018, 1-9	2.4	4

14	Broadband Dielectric Spectroscopic Studies of Nafion [®] /Silicate Membranes. <i>ACS Symposium Series</i> , 2010 , 113-124	0.4	3
13	Effect of Different Phosphate Glass Compositions on the Process-Induced Macromolecular Dynamics of Polyamide 66. <i>Polymers</i> , 2020 , 12,	4.5	2
12	Analysis of Nafion Fuel Cell Membrane Chemical Durability Using Broadband Dielectric Spectroscopy. <i>ECS Transactions</i> , 2011 , 41, 1359-1370	1	2
11	A Hybrid NF-FO-RO Process for the Supply of Irrigation Water from Treated Wastewater: Simulation Study. <i>Membranes</i> , 2021 , 11,	3.8	2
10	Microbiologically-influenced corrosion of the electroless-deposited NiP-TiNi Coating. <i>Arabian Journal of Chemistry</i> , 2021 , 14, 103445	5.9	2
9	Self-Healing Silicones for Outdoor High Voltage Insulation: Mechanism, Applications and Measurements. <i>Energies</i> , 2022 , 15, 1677	3.1	2
8	Effect of sulfonated poly (ether ether ketone) on the sensitivity of polyvinylidene fluoride-based resistive humidity sensors. <i>Materials Today Communications</i> , 2020 , 25, 101601	2.5	1
7	Multifunctional Oil Absorption with Macroporous Polystyrene Fibers Incorporating Silver-Doped ZnO. <i>ACS Omega</i> , 2021 , 6, 8081-8093	3.9	1
6	Protocol for Preparing Synthetic Solutions Mimicking Produced Water from Oil and Gas Operations. <i>ACS Omega</i> , 2021 , 6, 6881-6892	3.9	1
5	Proton Exchange Membranes for H ₂ Fuel Cell Applications 2012 , 73-98		1
4	A stable porous vessel for photocatalytic degradation of Azocarmine G dye. <i>Microporous and Mesoporous Materials</i> , 2022 , 111994	5.3	1
3	Core-Shell Nanofibers of Polyvinyl Alcohol/Poly(lactic Acid) Containing TiO ₂ Nanotubes for Natural Sunlight Driven Photocatalysis. <i>Macromolecular Materials and Engineering</i> , 2100482	3.9	0
2	In situ synthesized amphiphilic polysulfone-poly(ethylene-glycol) block copolymer/silver nanocomposite for separating oil/water emulsion. <i>Journal of Applied Polymer Science</i> , 2022 , 139, 51931	2.9	0
1	Role of metal oxide nanofibers in water purification 2022 , 173-190		