Mohammad K Hassan

List of Publications by Year in Descending Order

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	Role of metal oxide nanofibers in water purification **2022**, 173-190		
66	Self-Healing Silicones for Outdoor High Voltage Insulation: Mechanism, Applications and Measurements. *Energies*, **2022**, 15, 1677	3.1	2
65	In situ synthesized amphiphilic polysulfone-poly(ethylene-glycol) block copolymer/silver nanocomposite for separating oil/water emulsion. *Journal of Applied Polymer Science*, **2022**, 139, 51931	2.9	0
64	A stable porous vessel for photocatalytic degradation of Azocarmine G dye. *Microporous and Mesoporous Materials*, **2022**, 111994	5.3	1
63	Multifunctional Oil Absorption with Macroporous Polystyrene Fibers Incorporating Silver-Doped ZnO. *ACS Omega*, **2021**, 6, 8081-8093	3.9	1
62	Protocol for Preparing Synthetic Solutions Mimicking Produced Water from Oil and Gas Operations. *ACS Omega*, **2021**, 6, 6881-6892	3.9	1
61	A Hybrid NF-FO-RO Process for the Supply of Irrigation Water from Treated Wastewater: Simulation Study. *Membranes*, **2021**, 11,	3.8	2
60	A review on recent advances in CO2 separation using zeolite and zeolite-like materials as adsorbents and fillers in mixed matrix membranes (MMMs). *Chemical Engineering Journal Advances*, **2021**, 6, 100091	3.6	33
59	Comparison of Nanofiltration with Reverse Osmosis in Reclaiming Tertiary Treated Municipal Wastewater for Irrigation Purposes. *Membranes*, **2021**, 11,	3.8	9
58	Ionic liquids application for wastewater treatment and biofuel production: A mini review. *Journal of Molecular Liquids*, **2021**, 337, 116421	6	8
57	Validation and application of a membrane filtration evaluation protocol for oil-water separation. *Journal of Water Process Engineering*, **2021**, 43, 102185	6.7	6
56	Microbiologically-influenced corrosion of the electroless-deposited NiP-TiNi Coating. *Arabian Journal of Chemistry*, **2021**, 14, 103445	5.9	2
55	Effect of sulfonated poly (ether ether ketone) on the sensitivity of polyvinylidene fluoride-based resistive humidity sensors. *Materials Today Communications*, **2020**, 25, 101601	2.5	1
54	Performance of electrospun polystyrene membranes in synthetic produced industrial water using direct-contact membrane distillation. *Desalination*, **2020**, 493, 114663	10.3	17
53	Effects of Rutile-TiO Nanoparticles on Accelerated Weathering Degradation of Poly(Lactic Acid). *Polymers*, **2020**, 12,	4.5	10
52	Vertically oriented nanoporous block copolymer membranes for oil/water separation and filtration. *Soft Matter*, **2020**, 16, 9648-9654	3.6	17
51	Effect of Different Phosphate Glass Compositions on the Process-Induced Macromolecular Dynamics of Polyamide 66. *Polymers*, **2020**, 12,	4.5	2

50	Designing Flexible and Porous Fibrous Membranes for Oil Water Separation A Review of Recent Developments. *Polymer Reviews*, **2020**, 60, 671-716	14	38
49	Corrosion and Heat Treatment Study of Electroless NiP-Ti Nanocomposite Coatings Deposited on HSLA Steel. *Nanomaterials*, **2020**, 10,	5.4	8
48	A precious-metal-free Fe-intercalated carbon nitride porous-network with enhanced activity for the oxygen reduction reaction and methanol-tolerant oxygen reduction reaction. *Sustainable Energy and Fuels*, **2020**, 4, 5050-5060	5.8	10
47	Fabrication of fouling resistant Ti3C2Tx (MXene)/cellulose acetate nanocomposite membrane for forward osmosis application. *Journal of Water Process Engineering*, **2020**, 38, 101551	6.7	21
46	Mesoporous silica filled smart super oleophilic fibers of triblock copolymer nanocomposites for oil absorption applications. *Emergent Materials*, **2020**, 3, 279-290	3.5	12
45	Accelerated Weathering Effects on Poly(3-hydroxybutyrate--3-hydroxyvalerate) (PHBV) and PHBV/TiO Nanocomposites. *Polymers*, **2020**, 12,	4.5	11
44	Effect of electroless bath composition on the mechanical, chemical, and electrochemical properties of new NiP C3N4 nanocomposite coatings. *Surface and Coatings Technology*, **2019**, 362, 239-251	4.4	16
43	Novel electroless deposited corrosion resistant and anti-bacterial NiP TiNi nanocomposite coatings. *Surface and Coatings Technology*, **2019**, 369, 323-333	4.4	17
42	Designing Carbon Nanotube-Based Oil Absorbing Membranes from Gamma Irradiated and Electrospun Polystyrene Nanocomposites. *Materials*, **2019**, 12,	3.5	21
41	Electrospun polylactic acid/date palm polyphenol extract nanofibres for tissue engineering applications. *Emergent Materials*, **2019**, 2, 141-151	3.5	17
40	White Graphene-Cobalt Oxide Hybrid Filler Reinforced Polystyrene Nanofibers for Selective Oil Absorption. *Polymers*, **2019**, 12,	4.5	10
39	The missing piece of the puzzle regarding the relation between the degree of superhydrophobicity and the corrosion resistance of superhydrophobic coatings. *Electrochemistry Communications*, **2018**, 91, 41-44	5.1	6
38	Indentation and bending behavior of electroless Ni-P-Ti composite coatings on pipeline steel. *Surface and Coatings Technology*, **2018**, 334, 243-252	4.4	24
37	Recent advances in electroless-plated Ni-P and its composites for erosion and corrosion applications: a review. *Emergent Materials*, **2018**, 1, 3-24	3.5	52
36	Kinetic studies of POSS DGEBA precursors derived from monoamine functional POSS using dynamic dielectric sensing and nuclear magnetic resonance. *Journal of Applied Polymer Science*, **2018**, 135, 45994	2.9	4
35	PVA/Chitosan/Silver Nanoparticles Electrospun Nanocomposites: Molecular Relaxations Investigated by Modern Broadband Dielectric Spectroscopy. *Nanomaterials*, **2018**, 8,	5.4	9
34	Polyaniline/Polystyrene Blends: In-Depth Analysis of the Effect of Sulfonic Acid Dopant Concentration on AC Conductivity Using Broadband Dielectric Spectroscopy. *International Journal of Polymer Science*, **2018**, 2018, 1-9	2.4	4
33	Secondary chain motion and mechanical properties of irradiated-regenerated cellulose films. *Starch/Staerke*, **2017**, 69, 1500329	2.3	6

32	2D Ti3C2Tx (MXene)-reinforced polyvinyl alcohol (PVA) nanofibers with enhanced mechanical and electrical properties. *PLoS ONE*, **2017**, 12, e0183705	3.7	62
31	Investigation of fracture behavior of annealed electroless Ni-P coating on pipeline steel using acoustic emission methodology. *Surface and Coatings Technology*, **2017**, 326, 336-342	4.4	18
30	Flexible Pressure Sensor Based on PVDF Nanocomposites Containing Reduced Graphene Oxide-Titania Hybrid Nanolayers. *Polymers*, **2017**, 9,	4.5	77
29	Morphology, Nucleation, and Isothermal Crystallization Kinetics of Poly(ε-caprolactone) Mixed with a Polycarbonate/MWCNTs Masterbatch. *Polymers*, **2017**, 9,	4.5	16
28	Physico-Mechanical, Dielectric, and Piezoelectric Properties of PVDF Electrospun Mats Containing Silver Nanoparticles. *Journal of Carbon Research*, **2017**, 3, 30	3.3	43
27	Universal power law behavior of the AC conductivity versus frequency of agglomerate morphologies in conductive carbon nanotube-reinforced epoxy networks. *Journal of Polymer Science, Part B: Polymer Physics*, **2016**, 54, 1918-1923	2.6	42
26	Investigation of the physico-mechanical properties of electrospun PVDF/cellulose (nano)fibers. *Journal of Applied Polymer Science*, **2016**, 133,	2.9	43
25	Molecular scale cure rate dependence of thermoset matrix polymers. *Arabian Journal of Chemistry*, **2016**, 9, 206-218	5.9	5
24	Polymer chain dynamics in epoxy based composites as investigated by broadband dielectric spectroscopy. *Arabian Journal of Chemistry*, **2016**, 9, 305-315	5.9	37
23	Hydrocarbon-based fuel cell membranes: Sulfonated crosslinked poly(1,3-cyclohexadiene) membranes for high temperature polymer electrolyte fuel cells. *Polymer*, **2015**, 73, 17-24	3.9	6
22	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). *Polymer*, **2015**, 77, 208-217	3.9	7
21	Preparation and Preliminary Dielectric Characterization of Structured C-Thiol-Ene Polymer Nanocomposites Assembled Using the Thiol-Ene Click Reaction. *Materials*, **2015**, 8, 7795-7804	3.5	12
20	Di(cyanate Ester) Networks Based on Alternative Fluorinated Bisphenols with Extremely Low Water Uptake. *ACS Macro Letters*, **2014**, 3, 105-109	6.6	28
19	Dielectric properties of C60 and Sc3N@C80 fullerenol containing polyurethane nanocomposites. *Journal of Applied Polymer Science*, **2014**, 131, n/a-n/a	2.9	8
18	Broadband dielectric spectroscopic studies of molecular motions in a Nafion® membrane vs. annealing time and temperature. *European Polymer Journal*, **2012**, 48, 789-802	5.2	19
17	Broadband dielectric spectroscopy studies of glassy-state relaxations in annealed poly(2,5-benzimidazole). *Polymer International*, **2012**, 61, 55-64	3.3	9
16	Proton Exchange Membranes for H2 Fuel Cell Applications **2012**, 73-98		1
15	Macromolecular dynamics of sulfonated poly(styrene-b-ethylene-ran-butylene-b-styrene) block copolymers by broadband dielectric spectroscopy. *European Polymer Journal*, **2011**, 47, 1936-1948	5.2	21

14	Analysis of Nafion Fuel Cell Membrane Chemical Durability Using Broadband Dielectric Spectroscopy. *ECS Transactions*, **2011**, 41, 1359-1370	1	2
13	Broadband Dielectric Spectroscopic Studies of Nafion /Silicate Membranes. *ACS Symposium Series*, **2010**, 113-124	0.4	3
12	Seawater degradable thermoplastic polyurethanes. *Journal of Applied Polymer Science*, **2010**, 115, 1873-1880	1.8	17
11	Broadband Dielectric Spectroscopic Studies of Annealed Nafion Membranes. *ECS Transactions*, **2009**, 25, 371-384	1	4
10	Nanophase Separated Perfluorinated Ionomers as Sol-Gel Polymerization Templates for Functional Inorganic Oxide Nanoparticles. *Polymer Reviews*, **2007**, 47, 543-565	14	24
9	Some novel layered-silicate nanocomposites based on a biodegradable hydroxybutyrate copolymer. *European Polymer Journal*, **2007**, 43, 3128-3135	5.2	36
8	Broadband dielectric spectroscopic characterization of the hydrolytic degradation of carboxylic acid-terminated poly(d,l-lactide) materials. *Polymer*, **2007**, 48, 2022-2029	3.9	8
7	Broadband dielectric spectroscopic characterization of Nafion chemical degradation. *Journal of Power Sources*, **2007**, 172, 72-77	8.9	16
6	Glass Transition Temperature of Perfluorosulfonic Acid Ionomers. *Macromolecules*, **2007**, 40, 3886-3890	5.5	151
5	Biodegradable Copolymers of 3-Hydroxybutyrate-co-3-Hydroxyhexanoate (NodaxTM), Including Recent Improvements in their Mechanical Properties. *Molecular Crystals and Liquid Crystals*, **2006**, 447, 23/[341]-44/[362]	0.5	16
4	Biodegradable aliphatic thermoplastic polyurethane based on poly(ε-caprolactone) and L-lysine diisocyanate. *Journal of Polymer Science Part A*, **2006**, 44, 2990-3000	2.5	75
3	An investigation of the properties of poly(dimethylsiloxane)-bioinspired silica hybrids. *European Polymer Journal*, **2006**, 42, 167-178	5.2	41
2	Hydrolytic degradation of poly(d,l-lactide) as a function of end group: Carboxylic acid vs. hydroxyl. *Polymer*, **2006**, 47, 1960-1969	3.9	72
1	Core-Shell Nanofibers of Polyvinyl Alcohol/Polylactic Acid Containing TiO2 Nanotubes for Natural Sunlight Driven Photocatalysis. *Macromolecular Materials and Engineering*,2100482	3.9	0