Mohammad K Hassan

List of Publications by Year
in descending order

71	1,984	236612 25	264894 42
papers	citations	h-index	g-index

71	71	71	2446
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Glass Transition Temperature of Perfluorosulfonic Acid Ionomers. Macromolecules, 2007, 40, 3886-3890.	2.2	165
2	Flexible Pressure Sensor Based on PVDF Nanocomposites Containing Reduced Graphene Oxide-Titania Hybrid Nanolayers. Polymers, 2017, 9, 33.	2.0	108
3	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.	2.4	102
4	2D Ti3C2Tx (MXene)-reinforced polyvinyl alcohol (PVA) nanofibers with enhanced mechanical and electrical properties. PLoS ONE, 2017, 12, e0183705.	1.1	92
5	Recent advances in electroless-plated Ni-P and its composites for erosion and corrosion applications: a review. Emergent Materials, 2018, 1, 3-24.	3.2	87
6	Biodegradable aliphatic thermoplastic polyurethane based on poly(É›-caprolactone) andL-lysine diisocyanate. Journal of Polymer Science Part A, 2006, 44, 2990-3000.	2.5	84
7	Hydrolytic degradation of poly(d,l-lactide) as a function of end group: Carboxylic acid vs. hydroxyl. Polymer, 2006, 47, 1960-1969.	1.8	78
8	Universal power law behavior of the AC conductivity versus frequency of agglomerate morphologies in conductive carbon nanotubeâ€reinforced epoxy networks. Journal of Polymer Science, Part B: Polymer Physics, 2016, 54, 1918-1923.	2.4	77
9	Physico-Mechanical, Dielectric, and Piezoelectric Properties of PVDF Electrospun Mats Containing Silver Nanoparticles. Journal of Carbon Research, 2017, 3, 30.	1.4	66
10	Designing Flexible and Porous Fibrous Membranes for Oil Water Separationâ€”A Review of Recent Developments. Polymer Reviews, 2020, 60, 671-716.	5.3	66
11	Investigation of the physicoâ€mechanical properties of electrospun PVDF/cellulose (nano)fibers. Journal of Applied Polymer Science, 2016, 133, .	1.3	55
12	Polymer chain dynamics in epoxy based composites as investigated by broadband dielectric spectroscopy. Arabian Journal of Chemistry, 2016, 9, 305-315.	2.3	53
13	An investigation of the properties of poly(dimethylsiloxane)-bioinspired silica hybrids. European Polymer Journal, 2006, 42, 167-178.	2.6	46
14	Fabrication of fouling resistant Ti3C2Tx (MXene)/cellulose acetate nanocomposite membrane for forward osmosis application. Journal of Water Process Engineering, 2020, 38, 101551.	2.6	40
15	Some novel layered-silicate nanocomposites based on a biodegradable hydroxybutyrate copolymer. European Polymer Journal, 2007, 43, 3128-3135.	2.6	38
16	Designing Carbon Nanotube-Based Oil Absorbing Membranes from Gamma Irradiated and Electrospun Polystyrene Nanocomposites. Materials, 2019, 12, 709.	1.3	36
17	Novel electroless deposited corrosion â€” resistant and anti-bacterial NiPâ€“TiNi nanocomposite coatings. Surface and Coatings Technology, 2019, 369, 323-333.	2.2	35
18	Di(cyanate Ester) Networks Based on Alternative Fluorinated Bisphenols with Extremely Low Water Uptake. ACS Macro Letters, 2014, 3, 105-109.	2.3	32

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19	Effect of electroless bath composition on the mechanical, chemical, and electrochemical properties of new NiPâ€“C3N4 nanocomposite coatings. Surface and Coatings Technology, 2019, 362, 239-251.	2.2	31
20	Performance of electrospun polystyrene membranes in synthetic produced industrial water using direct-contact membrane distillation. Desalination, 2020, 493, 114663.	4.0	30
21	Indentation and bending behavior of electroless Ni-P-Ti composite coatings on pipeline steel. Surface and Coatings Technology, 2018, 334, 243-252.	2.2	28
22	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.	2.6	27
23	Vertically oriented nanoporous block copolymer membranes for oil/water separation and filtration. Soft Matter, 2020, 16, 9648-9654.	1.2	26
24	Nanophase Separated Perfluorinated Ionomers as Solâ€Gel Polymerization Templates for Functional Inorganic Oxide Nanoparticles. Polymer Reviews, 2007, 47, 543-565.	5.3	25
25	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.	2.2	25
26	Accelerated Weathering Effects on Poly(3-hydroxybutyrate-co-3-hydroxyvalerate) (PHBV) and PHBV/TiO2 Nanocomposites. Polymers, 2020, 12, 1743.	2.0	25
27	Comparison of Nanofiltration with Reverse Osmosis in Reclaiming Tertiary Treated Municipal Wastewater for Irrigation Purposes. Membranes, 2021, 11, 32.	1.4	25
28	Corrosion and Heat Treatment Study of Electroless NiP-Ti Nanocomposite Coatings Deposited on HSLA Steel. Nanomaterials, 2020, 10, 1932.	1.9	24
29	Electrospun polylactic acid/date palm polyphenol extract nanofibres for tissue engineering applications. Emergent Materials, 2019, 2, 141-151.	3.2	23
30	White Graphene-Cobalt Oxide Hybrid Filler Reinforced Polystyrene Nanofibers for Selective Oil Absorption. Polymers, 2020, 12, 4.	2.0	23
31	Ionic liquids application for wastewater treatment and biofuel production: A mini review. Journal of Molecular Liquids, 2021, 337, 116421.	2.3	23
32	Seawater degradable thermoplastic polyurethanes. Journal of Applied Polymer Science, 2010, 115, 1873-1880.	1.3	21
33	Mesoporous silica filled smart super oleophilic fibers of triblock copolymer nanocomposites for oil absorption applications. Emergent Materials, 2020, 3, 279-290.	3.2	21
34	Morphology, Nucleation, and Isothermal Crystallization Kinetics of Poly(Ìµ-caprolactone) Mixed with a Polycarbonate/MWCNTs Masterbatch. Polymers, 2017, 9, 709.	2.0	20
35	Protocol for Preparing Synthetic Solutions Mimicking Produced Water from Oil and Gas Operations. ACS Omega, 2021, 6, 6881-6892.	1.6	20
36	Broadband dielectric spectroscopic studies of molecular motions in a NafionÂ® membrane vs. annealing time and temperature. European Polymer Journal, 2012, 48, 789-802.	2.6	19

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37	Effects of Rutileâ€“TiO2 Nanoparticles on Accelerated Weathering Degradation of Poly(Lactic Acid). Polymers, 2020, 12, 1096.	2.0	19
38	Validation and application of a membrane filtration evaluation protocol for oil-water separation. Journal of Water Process Engineering, 2021, 43, 102185.	2.6	19
39	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].	0.4	18
40	Broadband dielectric spectroscopic characterization of NafionÂ® chemical degradation. Journal of Power Sources, 2007, 172, 72-77.	4.0	18
41	PVA/Chitosan/Silver Nanoparticles Electrospun Nanocomposites: Molecular Relaxations Investigated by Modern Broadband Dielectric Spectroscopy. Nanomaterials, 2018, 8, 888.	1.9	16
42	Preparation and Preliminary Dielectric Characterization of Structured C60-Thiol-Ene Polymer Nanocomposites Assembled Using the Thiol-Ene Click Reaction. Materials, 2015, 8, 7795-7804.	1.3	15
43	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.	2.5	13
44	Dielectric properties of C₆₀ and Sc₃N@C₈₀ fullerenol containing polyurethane nanocomposites. Journal of Applied Polymer Science, 2014, 131, .	1.3	11
45	Multifunctional Oil Absorption with Macroporous Polystyrene Fibers Incorporating Silver-Doped ZnO. ACS Omega, 2021, 6, 8081-8093.	1.6	11
46	A Hybrid NF-FO-RO Process for the Supply of Irrigation Water from Treated Wastewater: Simulation Study. Membranes, 2021, 11, 191.	1.4	11
47	Broadband dielectric spectroscopy studies of glassyâ€state relaxations in annealed poly(2,5â€benzimidazole). Polymer International, 2012, 61, 55-64.	1.6	10
48	Hydrocarbon-based fuel cell membranes: Sulfonated crosslinked poly(1,3-cyclohexadiene) membranes for high temperature polymer electrolyte fuel cells. Polymer, 2015, 73, 17-24.	1.8	10
49	Microbiologically-influenced corrosion of the electroless-deposited NiP-TiNi â€“ Coating. Arabian Journal of Chemistry, 2021, 14, 103445.	2.3	10
50	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.	1.8	9
51	Self-Healing Silicones for Outdoor High Voltage Insulation: Mechanism, Applications and Measurements. Energies, 2022, 15, 1677.	1.6	9
52	A stable porous vessel for photocatalytic degradation of Azocarmine G dye. Microporous and Mesoporous Materials, 2022, 341, 111994.	2.2	9
53	Broadband dielectric spectroscopic characterization of the hydrolytic degradation of carboxylic acid-terminated poly(d,l-lactide) materials. Polymer, 2007, 48, 2022-2029.	1.8	8
54	Secondary chain motion and mechanical properties of Î³â€irradiatedâ€regenerated cellulose films. Starch/Staerke, 2017, 69, 1500329.	1.1	8

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55	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.	2.3	7
56	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.	1.2	7
57	MXene (Ti3C2Tx)/Cellulose Acetate Mixed-Matrix Membrane Enhances Fouling Resistance and Rejection in the Crossflow Filtration Process. Membranes, 2022, 12, 406.	1.4	7
58	Molecular scale cure rate dependence of thermoset matrix polymers. Arabian Journal of Chemistry, 2016, 9, 206-218.	2.3	6
59	Broadband Dielectric Spectroscopic Studies of Annealed NafionÂ® Membranes. ECS Transactions, 2009, 25, 371-384.	0.3	5
60	Membrane Surface Modification and Functionalization. Membranes, 2021, 11, 877.	1.4	5
61	Long-Term Treatment of Highly Saline Brine in a Direct Contact Membrane Distillation (DCMD) Pilot Unit Using Polyethylene Membranes. Membranes, 2022, 12, 424.	1.4	5
62	Kinetic studies of POSSâ€“DGEBA precursors derived from monoamine functional POSS using dynamic dielectric sensing and nuclear magnetic resonance. Journal of Applied Polymer Science, 2018, 135, 45994.	1.3	4
63	Broadband Dielectric Spectroscopic Studies of Nafion^{Â®}/Silicate Membranes. ACS Symposium Series, 2010, , 113-124.	0.5	3
64	Effect of sulfonated poly (ether ether ketone) on the sensitivity of polyvinylidene fluoride-based resistive humidity sensors. Materials Today Communications, 2020, 25, 101601.	0.9	3
65	Effect of Different Phosphate Glass Compositions on the Process-Induced Macromolecular Dynamics of Polyamide 66. Polymers, 2020, 12, 1179.	2.0	3
66	Coreâ€Shell Nanofibers of Polyvinyl Alcohol/Polylactic Acid Containing TiO 2 Nanotubes for Natural Sunlight Driven Photocatalysis. Macromolecular Materials and Engineering, 0, , 2100482.	1.7	3
67	Analysis of Nafion Fuel Cell Membrane Chemical Durability Using Broadband Dielectric Spectroscopy. ECS Transactions, 2011, 41, 1359-1370.	0.3	2
68	Proton Exchange Membranes for H2 Fuel Cell Applications. , 2012, , 73-98.		2
69	In situ synthesized amphiphilic polysulfoneâ€poly(ethyleneâ€glycol) block copolymer/silver nanocomposite for separating oil/water emulsion. Journal of Applied Polymer Science, 2022, 139, .	1.3	1
70	Performance evaluation of emerging block copolymer membranes for oil-water separation. , 2022, 2, .		1
71	Role of metal oxide nanofibers in water purification. , 2022, , 173-190.		0