

# Mohamed Mohy Eldin

## List of Publications by Year in Descending Order

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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.

109  
papers

2,775  
citations

27  
h-index

49  
g-index

118  
ext. papers

3,403  
ext. citations

4.1  
avg, IF

5.61  
L-index

#	Paper	IF	Citations
109	Development of Polyvinyl Alcohol/Kaolin Sponges Stimulated by Marjoram as Hemostatic, Antibacterial, and Antioxidant Dressings for Wound Healing Promotion. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3	10
108	Removal of Oil Spills by Novel Amphiphilic Chitosan-g-Octanal Schiff Base Polymer Developed by Click Grafting Technique. <i>Journal of Saudi Chemical Society</i> , <b>2021</b> , 101369	4.3	0
107	Removal of oil spills by novel developed amphiphilic chitosan-g-citronellal schiff base polymer. <i>Scientific Reports</i> , <b>2021</b> , 11, 19879	4.9	0
106	Development novel eco-friendly proton exchange membranes doped with nano sulfated zirconia for direct methanol fuel cells. <i>Journal of Polymer Research</i> , <b>2021</b> , 28, 1	2.7	4
105	Formulation and Antibacterial Activity Evaluation of Quaternized Aminochitosan Membrane for Wound Dressing Applications. <i>Polymers</i> , <b>2021</b> , 13,	4.5	9
104	Antioxidant and antibacterial polyelectrolyte wound dressing based on chitosan/hyaluronan/phosphatidylcholine dihydroquercetin. <i>International Journal of Biological Macromolecules</i> , <b>2021</b> , 166, 18-31	7.9	39
103	Formulation of Quaternized Aminated Chitosan Nanoparticles for Efficient Encapsulation and Slow Release of Curcumin. <i>Molecules</i> , <b>2021</b> , 26,	4.8	23
102	Hemostatic and antibacterial PVA/Kaolin composite sponges loaded with penicillin-streptomycin for wound dressing applications. <i>Scientific Reports</i> , <b>2021</b> , 11, 3428	4.9	36
101	Titanium Dioxide/Phosphorous-Functionalized Cellulose Acetate Nanocomposite Membranes for DMFC Applications: Enhancing Properties and Performance. <i>ACS Omega</i> , <b>2021</b> , 6, 17194-17202	3.9	9
100	Organic-Inorganic Novel Green Cation Exchange Membranes for Direct Methanol Fuel Cells. <i>Energies</i> , <b>2021</b> , 14, 4686	3.1	4
99	Fabrication of attapulgite/magnetic aminated chitosan composite as efficient and reusable adsorbent for Cr (VI) ions. <i>Scientific Reports</i> , <b>2021</b> , 11, 16598	4.9	23
98	A Highly Selective Novel Green Cation Exchange Membrane Doped with Ceramic Nanotubes Material for Direct Methanol Fuel Cells. <i>Energies</i> , <b>2021</b> , 14, 5664	3.1	2
97	Development of highly ionic conductive cellulose acetate-g-poly (2-acrylamido-2-methylpropane sulfonic acid-co-methyl methacrylate) graft copolymer membranes. <i>Journal of Saudi Chemical Society</i> , <b>2021</b> , 25, 101318	4.3	3
96	Development of novel cellulose acetate-g-poly(sodium 4-styrenesulfonate) proton conducting polyelectrolyte polymer. <i>Journal of Saudi Chemical Society</i> , <b>2021</b> , 25, 101327	4.3	2
95	Chitosan based adsorbents for the removal of phosphate and nitrate: A critical review. <i>Carbohydrate Polymers</i> , <b>2021</b> , 274, 118671	10.3	26
94	Novel nanocomposite membranes based on cross-linked eco-friendly polymers doped with sulfated titania nanotubes for direct methanol fuel cell application. <i>Nanomaterials and Nanotechnology</i> , <b>2020</b> , 10, 184798042096436	2.9	10
93	Effective Elimination of Contaminant Antibiotics Using High-Surface-Area Magnetic-Functionalized Graphene Nanocomposites Developed from Plastic Waste. <i>Materials</i> , <b>2020</b> , 13,	3.5	7

92	Simple Self-assembly Synthesis for Cost-Effective Alkaline Fuel Cell Bi-functional Electrocatalyst Synthesized from Polyethylene Terephthalate Waste Bottles. <i>Journal of Electronic Materials</i> , <b>2020</b> , 49, 1009-1016	1.9	0
91	Enhancement of wound healing by chitosan/hyaluronan polyelectrolyte membrane loaded with glutathione: in vitro and in vivo evaluations. <i>Journal of Biotechnology</i> , <b>2020</b> , 310, 103-113	3.7	36
90	Fabrication of semi-interpenetrated PVA/PAMPS hydrogel as a reusable adsorbent for cationic methylene blue dye: isotherms, kinetics and thermodynamics studies. <i>Polymer Bulletin</i> , <b>2020</b> , 78, 6649	2.4	4
89	Antimicrobial activity of novel modified aminated chitosan with aromatic esters. <i>Polymer Bulletin</i> , <b>2020</b> , 77, 1631-1647	2.4	7
88	Novel immobilized Cu <sup>2+</sup> -aminated poly (methyl methacrylate) grafted cellophane membranes for affinity separation of His-Tag chitinase. <i>Polymer Bulletin</i> , <b>2020</b> , 77, 135-151	2.4	4
87	Development of novel iota carrageenan-g-polyvinyl alcohol polyelectrolyte membranes for direct methanol fuel cell application. <i>Polymer Bulletin</i> , <b>2020</b> , 77, 4895-4916	2.4	15
86	Ciprofloxacin removal using magnetic fullerene nanocomposite obtained from sustainable PET bottle wastes: Adsorption process optimization, kinetics, isotherm, regeneration and recycling studies. <i>Chemosphere</i> , <b>2020</b> , 239, 124728	8.4	40
85	Fabrication of a novel low-cost superoleophilic nonanyl chitosan-poly (butyl acrylate) grafted copolymer for the adsorptive removal of crude oil spills. <i>International Journal of Biological Macromolecules</i> , <b>2019</b> , 140, 588-599	7.9	18
84	Fabrication of biodegradable gelatin/chitosan/cinnamaldehyde crosslinked membranes for antibacterial wound dressing applications. <i>International Journal of Biological Macromolecules</i> , <b>2019</b> , 139, 440-448	7.9	68
83	Smart Biopolymer Hydrogels Developments for Biotechnological Applications. <i>Polymers and Polymeric Composites</i> , <b>2019</b> , 1515-1535	0.6	
82	Formation of zinc oxide nanoparticles using alginate as a template for purification of wastewater. <i>Environmental Nanotechnology, Monitoring and Management</i> , <b>2018</b> , 10, 112-121	3.3	15
81	Chitosan/hyaluronan/edaravone membranes for anti-inflammatory wound dressing: In vitro and in vivo evaluation studies. <i>Materials Science and Engineering C</i> , <b>2018</b> , 90, 227-235	8.3	66
80	Click Grafting of Chitosan onto PVC Surfaces for Biomedical Applications. <i>Advances in Polymer Technology</i> , <b>2018</b> , 37, 38-49	1.9	9
79	Development of Novel Amphiphilic Pyrazole-g -PolyGlycidyl methacrylate-Based Polymers with Potential Antimicrobial Activity. <i>Advances in Polymer Technology</i> , <b>2018</b> , 37, 706-713	1.9	1
78	Smart Biopolymer Hydrogels Developments for Biotechnological Applications. <i>Polymers and Polymeric Composites</i> , <b>2018</b> , 1-21	0.6	
77	MitoQ Loaded Chitosan-Hyaluronan Composite Membranes for Wound Healing. <i>Materials</i> , <b>2018</b> , 11,	3.5	69
76	Poly (acrylonitrile-co-methyl methacrylate) nanoparticles: I. Preparation and characterization. <i>Arabian Journal of Chemistry</i> , <b>2017</b> , 10, 1153-1166	5.9	15
75	Antibacterial and antioxidative activity of O-amine functionalized chitosan. <i>Carbohydrate Polymers</i> , <b>2017</b> , 169, 441-450	10.3	83

74	Novel sulfonated poly(glycidyl methacrylate) grafted Nafion membranes for fuel cell applications. <i>Polymer Bulletin</i> , <b>2017</b> , 74, 5195-5220	2.4	3
73	Novel Aminated Cellulose Acetate Membranes for Direct Methanol Fuel Cells (DMFCs). <i>International Journal of Electrochemical Science</i> , <b>2017</b> , 4301-4318	2.2	13
72	Development of Cross linked Chitosan/Alginate Polyelectrolyte Proton Exchanger Membranes for Fuel Cell Applications. <i>International Journal of Electrochemical Science</i> , <b>2017</b> , 3840-3858	2.2	29
71	Removal of methylparaben from synthetic aqueous solutions using polyacrylonitrile beads: kinetic and equilibrium studies. <i>Environmental Science and Pollution Research</i> , <b>2017</b> , 24, 1270-1282	5.1	9
70	Novel immobilized Cu <sup>2+</sup> ion grafted cellophane membranes for affinity separation of His-Tag Chitinase. <i>Arabian Journal of Chemistry</i> , <b>2017</b> , 10, S3652-S3663	5.9	7
69	Development of nano-crosslinked polyacrylonitrile ions exchanger particles for dyes removal. <i>Desalination and Water Treatment</i> , <b>2016</b> , 57, 4255-4266		12
68	Development of novel acid/base ions exchanger for basic dye removal: phosphoric acid doped pyrazole-g-polyglycidyl methacrylate. <i>Desalination and Water Treatment</i> , <b>2016</b> , 57, 24047-24055		3
67	Development of grafted cotton fabrics ions exchanger for dye removal applications: methylene blue model. <i>Desalination and Water Treatment</i> , <b>2016</b> , 57, 22049-22060		4
66	Development of novel chitosan schiff base derivatives for cationic dye removal: methyl orange model. <i>Desalination and Water Treatment</i> , <b>2016</b> , 57, 22632-22645		26
65	Radical-scavenging activity of glutathione, chitin derivatives and their combination. <i>Chemical Papers</i> , <b>2016</b> , 70,	1.9	9
64	Development of polystyrene based nanoparticles ions exchange resin for water purification applications. <i>Desalination and Water Treatment</i> , <b>2016</b> , 57, 14810-14823		8
63	Novel Proton Exchange Membranes Based on Sulfonated Cellulose Acetate for Fuel Cell Applications: Preparation and Characterization. <i>International Journal of Electrochemical Science</i> , <b>2016</b> , 10150-10171	2.2	13
62	Development of Novel Phosphorylated Cellulose Acetate Polyelectrolyte Membranes for Direct Methanol Fuel Cell Application. <i>International Journal of Electrochemical Science</i> , <b>2016</b> , 3467-3491	2.2	10
61	Development of amphoteric alginate/aminated chitosan coated microbeads for oral protein delivery. <i>International Journal of Biological Macromolecules</i> , <b>2016</b> , 92, 362-370	7.9	53
60	Removal of methylene blue by amidoxime polyacrylonitrile-grafted cotton fabrics: Kinetic, equilibrium, and simulation studies. <i>Fibers and Polymers</i> , <b>2016</b> , 17, 1884-1897	2	9
59	Removal of methylene blue from synthetic aqueous solutions with novel phosphoric acid-doped pyrazole-g-poly(glycidyl methacrylate) particles: kinetic and equilibrium studies. <i>Desalination and Water Treatment</i> , <b>2016</b> , 57, 27243-27258		1
58	Synthesis, characterization and antimicrobial evaluation of two aromatic chitosan Schiff base derivatives. <i>Process Biochemistry</i> , <b>2016</b> , 51, 1721-1730	4.8	65
57	Poly (vinyl alcohol)-alginate physically crosslinked hydrogel membranes for wound dressing applications: Characterization and bio-evaluation. <i>Arabian Journal of Chemistry</i> , <b>2015</b> , 8, 38-47	5.9	186

56	l-Arginine grafted alginate hydrogel beads: A novel pH-sensitive system for specific protein delivery. <i>Arabian Journal of Chemistry</i> , <b>2015</b> , 8, 355-365	5.9	38
55	Crosslinked poly(vinyl alcohol) hydrogels for wound dressing applications: A review of remarkably blended polymers. <i>Arabian Journal of Chemistry</i> , <b>2015</b> , 8, 1-14	5.9	380
54	Covalent Immobilization of $\beta$ -Galactosidase onto Amino-Functionalized Polyvinyl Chloride Microspheres: Enzyme Immobilization and Characterization. <i>Advances in Polymer Technology</i> , <b>2014</b> , 33,	1.9	5
53	Optimal immobilization of $\beta$ -galactosidase onto $\beta$ -arrageenan gel beads using response surface methodology and its applications. <i>Scientific World Journal, The</i> , <b>2014</b> , 2014, 571682	2.2	17
52	Physically crosslinked poly(vinyl alcohol)-hydroxyethyl starch blend hydrogel membranes: Synthesis and characterization for biomedical applications. <i>Arabian Journal of Chemistry</i> , <b>2014</b> , 7, 372-380	5.9	130
51	Sulphonated poly (glycidyl methacrylate) grafted cellophane membranes: novel application in polyelectrolyte membrane fuel cell (PEMFC). <i>Journal of Polymer Research</i> , <b>2013</b> , 20, 1	2.7	20
50	Superabsorbent polyacrylamide grafted carboxymethyl cellulose pH sensitive hydrogel: I. Preparation and characterization. <i>Desalination and Water Treatment</i> , <b>2013</b> , 51, 3196-3206		26
49	Enzyme-catalyzed modification of PES surfaces: reduction in adsorption of BSA, dextrin and tannin. <i>Journal of Colloid and Interface Science</i> , <b>2012</b> , 378, 191-200	9.3	16
48	Laccase-catalyzed modification of PES membranes with 4-hydroxybenzoic acid and gallic acid. <i>Journal of Membrane Science</i> , <b>2012</b> , 394-395, 69-79	9.6	14
47	Antimicrobial activity of novel aminated chitosan derivatives for biomedical applications. <i>Advances in Polymer Technology</i> , <b>2012</b> , 31, 414-428	1.9	35
46	Preparation and characterization of novel grafted cellophane-phosphoric acid-doped membranes for proton exchange membrane fuel-cell applications. <i>Journal of Applied Polymer Science</i> , <b>2012</b> , 123, 3710-3724	2.9	15
45	Covalent immobilization of penicillin G acylase onto chemically activated surface of poly(vinyl chloride) membranes for 6-penicillic acid production from penicillin hydrolysis process I. Optimization of surface modification and its characterization. <i>Journal of Applied Polymer Science</i> , <b>2012</b> , 124, 527-534	2.9	3
44	Covalent immobilization of $\beta$ -galactosidase onto amino-functionalized PVC microspheres. <i>Journal of Applied Polymer Science</i> , <b>2012</b> , 125, 1724-1735	2.9	15
43	Covalent immobilization of penicillin G acylase onto amine-functionalized PVC membranes for 6-APA production from penicillin hydrolysis process. II. Enzyme immobilization and characterization. <i>Journal of Applied Polymer Science</i> , <b>2012</b> , 125, 3820-3828	2.9	24
42	Removal of methylene blue dye from aqueous medium by nano poly acrylonitrile particles. <i>Desalination and Water Treatment</i> , <b>2012</b> , 44, 151-160		16
41	Preparation and characterization of imino diacetic acid functionalized alginate beads for removal of contaminants from waste water: I. methylene blue cationic dye model. <i>Desalination and Water Treatment</i> , <b>2012</b> , 40, 15-23		11
40	Nano-sulphonated poly (glycidyl methacrylate) cations exchanger for cadmium ions removal: Effects of operating parameters. <i>Desalination</i> , <b>2011</b> , 279, 152-162	10.3	28
39	Affinity covalent immobilization of glucoamylase onto $\beta$ -benzoquinone activated alginate beads: I. Beads preparation and characterization. <i>Applied Biochemistry and Biotechnology</i> , <b>2011</b> , 164, 10-22	3.2	15

38	Affinity covalent immobilization of glucoamylase onto Benzoquinone-activated alginate beads: II. Enzyme immobilization and characterization. <i>Applied Biochemistry and Biotechnology</i> , <b>2011</b> , 164, 45-57	3.2	24
37	Preparation and characterization of grafted cellophane membranes for affinity separation of His-tag Chitinase. <i>Advances in Polymer Technology</i> , <b>2011</b> , 30, 191-202	1.9	8
36	Novel grafted nafion membranes for proton-exchange membrane fuel cell applications. <i>Journal of Applied Polymer Science</i> , <b>2011</b> , 119, 120-133	2.9	19
35	Polyacrylamide-grafted carboxymethyl cellulose: Smart pH-sensitive hydrogel for protein concentration. <i>Journal of Applied Polymer Science</i> , <b>2011</b> , 122, 469-479	2.9	37
34	Modification methods for poly(arylsulfone) membranes: A mini-review focusing on surface modification. <i>Desalination</i> , <b>2011</b> , 275, 1-9	10.3	198
33	Employment of immobilised lipase from <i>Candida rugosa</i> for the bioremediation of waters polluted by dimethylphthalate, as a model of endocrine disruptors. <i>Journal of Molecular Catalysis B: Enzymatic</i> , <b>2010</b> , 62, 133-141		20
32	Removal of cadmium ions from synthetic aqueous solutions with a novel nanosulfonated poly(glycidyl methacrylate) cation exchanger: Kinetic and equilibrium studies. <i>Journal of Applied Polymer Science</i> , <b>2010</b> , 118, 3111-3122	2.9	16
31	Evaluation of alginate-chitosan bioadhesive beads as a drug delivery system for the controlled release of theophylline. <i>Journal of Applied Polymer Science</i> , <b>2009</b> , 111, 2452-2459	2.9	34
30	Immobilized metal ions cellophane-BGMA-grafted membranes for affinity separation of Galactosidase enzyme. I. Preparation and characterization. <i>Journal of Applied Polymer Science</i> , <b>2009</b> , 111, 2647-2656	2.9	15
29	Biodegradable zein-based films: influence of gamma-irradiation on structural and functional properties. <i>Journal of Agricultural and Food Chemistry</i> , <b>2009</b> , 57, 2529-35	5.7	32
28	Preparation and characterization of metronidazole-loaded chitosan nanoparticles for drug delivery application. <i>Polymers for Advanced Technologies</i> , <b>2008</b> , 19, 1787-1791	3.2	46
27	Cephalexin synthesis by immobilised penicillin G acylase under non-isothermal conditions: reduction of diffusion limitation. <i>Journal of Molecular Catalysis B: Enzymatic</i> , <b>2001</b> , 15, 163-172		28
26	Glucose determination by means of a new reactor/sensor system operating under non-isothermal conditions. <i>Enzyme and Microbial Technology</i> , <b>2000</b> , 26, 593-601	3.8	12
25	Isothermal and non-isothermal lactose hydrolysis by means of Galactosidase immobilized on a single double-grafted teflon membrane. <i>Journal of Membrane Science</i> , <b>2000</b> , 168, 143-158	9.6	15
24	Non-isothermal cephalixin hydrolysis by penicillin G acylase immobilized on grafted nylon membranes. <i>Journal of Molecular Catalysis B: Enzymatic</i> , <b>2000</b> , 8, 221-232		28
23	Characterization of the activity of penicillin G acylase immobilized onto nylon membranes grafted with different acrylic monomers by means of $\gamma$ radiation. <i>Journal of Molecular Catalysis B: Enzymatic</i> , <b>2000</b> , 8, 233-244		27
22	Immobilization of penicillin G acylase onto chemically grafted nylon particles. <i>Journal of Molecular Catalysis B: Enzymatic</i> , <b>2000</b> , 10, 445-451		45
21	Influence of the microenvironment on the activity of enzymes immobilized on Teflon membranes grafted by $\gamma$ radiation. <i>Journal of Molecular Catalysis B: Enzymatic</i> , <b>1999</b> , 7, 251-261		32



20	Immobilization of $\beta$ -galactosidase on nylon membranes grafted with diethylenglycol dimethacrylate (DGDA) by $\gamma$ -radiation: Effect of membrane pore size. <i>Advances in Polymer Technology</i> , <b>1999</b> , 18, 109-123	1.9	14
19	Characterization of the activity of $\beta$ -galactosidase immobilized on Teflon membranes preactivated with different monomers by $\gamma$ -radiation. <i>Journal of Applied Polymer Science</i> , <b>1998</b> , 68, 613-623	2.9	15
18	$\beta$ -galactosidase immobilization on premodified Teflon membranes using $\gamma$ -radiation grafting. <i>Journal of Applied Polymer Science</i> , <b>1998</b> , 68, 625-636	2.9	13
17	Galactose competitive inhibition of $\beta$ -galactosidase ( <i>Aspergillus oryzae</i> ) immobilized on chitosan and nylon supports. <i>Enzyme and Microbial Technology</i> , <b>1998</b> , 23, 101-106	3.8	67
16	Non-isothermal bioreactors utilizing catalytic Teflon membranes. <i>Journal of Membrane Science</i> , <b>1998</b> , 146, 237-248	9.6	22
15	Synthesis of macroporous poly(methyl methacrylate) derivatives and their use in organic synthesis. <i>Acta Polymerica</i> , <b>1989</b> , 40, 129-132		1
14	Zero-valent iron supported-lemon derived biochar for ultra-fast adsorption of methylene blue. <i>Biomass Conversion and Biorefinery</i> , 1	2.3	4
13	Removal of chromium (VI) metal ions using amberlite IRA-420 anions exchanger60, 335-342		2
12	Kinetic and isothermal studies of manganese (VII) ions removal using Amberlite IRA-420 anion exchanger72, 30-40		3
11	Development of low-cost chitosan derivatives based on marine waste sources as oil adsorptive materials: I. Preparation and characterization72, 41-51		10
10	Removal of methylene blue dye from synthetic aqueous solutions using novel phosphonate cellulose acetate membranes: adsorption kinetic, equilibrium, and thermodynamic studies144, 272-285		16
9	Efficient eco-friendly crude oil adsorptive chitosan derivatives: kinetics, equilibrium and thermodynamic studies159, 269-281		2
8	Carboxylated alginate hydrogel beads for methylene blue removal: formulation, kinetic and isothermal studies168, 308-323		3
7	Development of nano-crosslinked polyacrylonitrile ions exchanger particles for dye removal: kinetic, isotherm, and thermodynamic studies175, 293-303		2
6	Development of iron oxide nanoparticles using alginate hydrogel template for chromium (VI) ions removal175, 229-243		4
5	Poly (methacrylic acid) grafted regenerated cellulose ions exchangers membranes for Cu (II) ion adsorption: kinetic, isotherm, and thermodynamic studies178, 182-192		2
4	Methylene blue removal by nano-poly acrylonitrile particles: modelling and formulation studies178, 322-336		4
3	Removal of methylene blue dye from synthetic aqueous solutions using dimethylglyoxime modified amberlite IRA-420: kinetic, equilibrium and thermodynamic studies181, 399-411		2

2	Kinetic and thermodynamic studies for the sorptive removal of crude oil spills using a low-cost chitosan-poly (butyl acrylate) grafted copolymer192, 213-225	2
1	Development of thermo-sensitive poly N-isopropyl acrylamide grafted chitosan derivatives1-6	23