Mohamed Mohy Eldin

List of Publications by Citations

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	Crosslinked poly(vinyl alcohol) hydrogels for wound dressing applications: A review of remarkably blended polymers. *Arabian Journal of Chemistry*, **2015**, 8, 1-14	5.9	380
108	Modification methods for poly(arylsulfone) membranes: A mini-review focusing on surface modification. *Desalination*, **2011**, 275, 1-9	10.3	198
107	Poly (vinyl alcohol)-alginate physically crosslinked hydrogel membranes for wound dressing applications: Characterization and bio-evaluation. *Arabian Journal of Chemistry*, **2015**, 8, 38-47	5.9	186
106	Physically crosslinked poly(vinyl alcohol)-hydroxyethyl starch blend hydrogel membranes: Synthesis and characterization for biomedical applications. *Arabian Journal of Chemistry*, **2014**, 7, 372-380	5.9	130
105	Antibacterial and antioxidative activity of O-amine functionalized chitosan. *Carbohydrate Polymers*, **2017**, 169, 441-450	10.3	83
104	MitoQ Loaded Chitosan-Hyaluronan Composite Membranes for Wound Healing. *Materials*, **2018**, 11,	3.5	69
103	Fabrication of biodegradable gelatin/chitosan/cinnamaldehyde crosslinked membranes for antibacterial wound dressing applications. *International Journal of Biological Macromolecules*, **2019**, 139, 440-448	7.9	68
102	Galactose competitive inhibition of β-galactosidase (Aspergillus oryzae) immobilized on chitosan and nylon supports. *Enzyme and Microbial Technology*, **1998**, 23, 101-106	3.8	67
101	Chitosan/hyaluronan/edaravone membranes for anti-inflammatory wound dressing: In vitro and in vivo evaluation studies. *Materials Science and Engineering C*, **2018**, 90, 227-235	8.3	66
100	Synthesis, characterization and antimicrobial evaluation of two aromatic chitosan Schiff base derivatives. *Process Biochemistry*, **2016**, 51, 1721-1730	4.8	65
99	Development of amphoteric alginate/aminated chitosan coated microbeads for oral protein delivery. *International Journal of Biological Macromolecules*, **2016**, 92, 362-370	7.9	53
98	Preparation and characterization of metronidazole-loaded chitosan nanoparticles for drug delivery application. *Polymers for Advanced Technologies*, **2008**, 19, 1787-1791	3.2	46
97	Immobilization of penicillin G acylase onto chemically grafted nylon particles. *Journal of Molecular Catalysis B: Enzymatic*, **2000**, 10, 445-451		45
96	Ciprofloxacin removal using magnetic fullerene nanocomposite obtained from sustainable PET bottle wastes: Adsorption process optimization, kinetics, isotherm, regeneration and recycling studies. *Chemosphere*, **2020**, 239, 124728	8.4	40
95	Antioxidant and antibacterial polyelectrolyte wound dressing based on chitosan/hyaluronan/phosphatidylcholine dihydroquercetin. *International Journal of Biological Macromolecules*, **2021**, 166, 18-31	7.9	39
94	l-Arginine grafted alginate hydrogel beads: A novel pH-sensitive system for specific protein delivery. *Arabian Journal of Chemistry*, **2015**, 8, 355-365	5.9	38
93	Polyacrylamide-grafted carboxymethyl cellulose: Smart pH-sensitive hydrogel for protein concentration. *Journal of Applied Polymer Science*, **2011**, 122, 469-479	2.9	37

92	Enhancement of wound healing by chitosan/hyaluronan polyelectrolyte membrane loaded with glutathione: in vitro and in vivo evaluations. *Journal of Biotechnology*, **2020**, 310, 103-113	3.7	36
91	Hemostatic and antibacterial PVA/Kaolin composite sponges loaded with penicillin-streptomycin for wound dressing applications. *Scientific Reports*, **2021**, 11, 3428	4.9	36
90	Antimicrobial activity of novel aminated chitosan derivatives for biomedical applications. *Advances in Polymer Technology*, **2012**, 31, 414-428	1.9	35
89	Evaluation of alginate□chitosan bioadhesive beads as a drug delivery system for the controlled release of theophylline. *Journal of Applied Polymer Science*, **2009**, 111, 2452-2459	2.9	34
88	Biodegradable zein-based films: influence of gamma-irradiation on structural and functional properties. *Journal of Agricultural and Food Chemistry*, **2009**, 57, 2529-35	5.7	32
87	Influence of the microenvironment on the activity of enzymes immobilized on Teflon membranes grafted by ▯radiation. *Journal of Molecular Catalysis B: Enzymatic*, **1999**, 7, 251-261		32
86	Development of Cross linked Chitosan/Alginate Polyelectrolyte Proton Exchanger Membranes for Fuel Cell Applications. *International Journal of Electrochemical Science*, **2017**, 3840-3858	2.2	29
85	Nano-sulphonated poly (glycidyl methacrylate) cations exchanger for cadmium ions removal: Effects of operating parameters. *Desalination*, **2011**, 279, 152-162	10.3	28
84	Cephalexin synthesis by immobilised penicillin G acylase under non-isothermal conditions: reduction of diffusion limitation. *Journal of Molecular Catalysis B: Enzymatic*, **2001**, 15, 163-172		28
83	Non-isothermal cephalexin hydrolysis by penicillin G acylase immobilized on grafted nylon membranes. *Journal of Molecular Catalysis B: Enzymatic*, **2000**, 8, 221-232		28
82	Characterization of the activity of penicillin G acylase immobilized onto nylon membranes grafted with different acrylic monomers by means of ▯radiation. *Journal of Molecular Catalysis B: Enzymatic* , **2000**, 8, 233-244		27
81	Development of novel chitosan schiff base derivatives for cationic dye removal: methyl orange model. *Desalination and Water Treatment*, **2016**, 57, 22632-22645		26
80	Superabsorbent polyacrylamide grafted carboxymethyl cellulose pH sensitive hydrogel: I. Preparation and characterization. *Desalination and Water Treatment*, **2013**, 51, 3196-3206		26
79	Chitosan based adsorbents for the removal of phosphate and nitrate: A critical review. *Carbohydrate Polymers*, **2021**, 274, 118671	10.3	26
78	Covalent immobilization of penicillin G acylase onto amine-functionalized PVC membranes for 6-APA production from penicillin hydrolysis process. II. Enzyme immobilization and characterization. *Journal of Applied Polymer Science*, **2012**, 125, 3820-3828	2.9	24
77	Affinity covalent immobilization of glucoamylase onto □benzoquinone-activated alginate beads: II. Enzyme immobilization and characterization. *Applied Biochemistry and Biotechnology*, **2011**, 164, 45-57	3.2	24
76	Development of thermo-sensitive poly N-isopropyl acrylamide grafted chitosan derivatives1-6		23
75	Formulation of Quaternized Aminated Chitosan Nanoparticles for Efficient Encapsulation and Slow Release of Curcumin. *Molecules*, **2021**, 26,	4.8	23

74	Fabrication of attapulgite/magnetic aminated chitosan composite as efficient and reusable adsorbent for Cr (VI) ions. *Scientific Reports*, **2021**, 11, 16598	4.9	23
73	Non-isothermal bioreactors utilizing catalytic Teflon membranes. *Journal of Membrane Science*, **1998**, 146, 237-248	9.6	22
72	Sulphonated poly (glycidyl methacrylate) grafted cellophane membranes: novel application in polyelectrolyte membrane fuel cell (PEMFC). *Journal of Polymer Research*, **2013**, 20, 1	2.7	20
71	Employment of immobilised lipase from Candida rugosa for the bioremediation of waters polluted by dimethylphthalate, as a model of endocrine disruptors. *Journal of Molecular Catalysis B: Enzymatic*, **2010**, 62, 133-141		20
70	Novel grafted nafion membranes for proton-exchange membrane fuel cell applications. *Journal of Applied Polymer Science*, **2011**, 119, 120-133	2.9	19
69	Fabrication of a novel low-cost superoleophilic nonanyl chitosan-poly (butyl acrylate) grafted copolymer for the adsorptive removal of crude oil spills. *International Journal of Biological Macromolecules*, **2019**, 140, 588-599	7.9	18
68	Optimal immobilization of β-galactosidase onto κ-carrageenan gel beads using response surface methodology and its applications. *Scientific World Journal, The*, **2014**, 2014, 571682	2.2	17
67	Enzyme-catalyzed modification of PES surfaces: reduction in adsorption of BSA, dextrin and tannin. *Journal of Colloid and Interface Science*, **2012**, 378, 191-200	9.3	16
66	Removal of methylene blue dye from aqueous medium by nano poly acrylonitrile particles. *Desalination and Water Treatment*, **2012**, 44, 151-160		16
65	Removal of cadmium ions from synthetic aqueous solutions with a novel nanosulfonated poly(glycidyl methacrylate) cation exchanger: Kinetic and equilibrium studies. *Journal of Applied Polymer Science*, **2010**, 118, 3111-3122	2.9	16
64	Removal of methylene blue dye from synthetic aqueous solutions using novel phosphonate cellulose acetate membranes: adsorption kinetic, equilibrium, and thermodynamic studies144, 272-285		16
63	Poly (acrylonitrile-co-methyl methacrylate) nanoparticles: I. Preparation and characterization. *Arabian Journal of Chemistry*, **2017**, 10, 1153-1166	5.9	15
62	Formation of zinc oxide nanoparticles using alginate as a template for purification of wastewater. *Environmental Nanotechnology, Monitoring and Management*, **2018**, 10, 112-121	3.3	15
61	Preparation and characterization of novel grafted cellophane-phosphoric acid-doped membranes for proton exchange membrane fuel-cell applications. *Journal of Applied Polymer Science*, **2012**, 123, 3710-3724	2.9	15
60	Covalent immobilization of β-galactosidase onto amino-functionalized PVC microspheres. *Journal of Applied Polymer Science*, **2012**, 125, 1724-1735	2.9	15
59	Affinity covalent immobilization of glucoamylase onto p-benzoquinone activated alginate beads: I. Beads preparation and characterization. *Applied Biochemistry and Biotechnology*, **2011**, 164, 10-22	3.2	15
58	Immobilized metal ions cellophane-PGMA-grafted membranes for affinity separation of β-galactosidase enzyme. I. Preparation and characterization. *Journal of Applied Polymer Science*, **2009**, 111, 2647-2656	2.9	15
57	Characterization of the activity of β-galactosidase immobilized on Teflon membranes preactivated with different monomers by γ-irradiation. *Journal of Applied Polymer Science*, **1998**, 68, 613-623	2.9	15

56	Isothermal and non-isothermal lactose hydrolysis by means of β-galactosidase immobilized on a single double-grafted teflon membrane. *Journal of Membrane Science*, **2000**, 168, 143-158	9.6	15
55	Development of novel iota carrageenan-g-polyvinyl alcohol polyelectrolyte membranes for direct methanol fuel cell application. *Polymer Bulletin*, **2020**, 77, 4895-4916	2.4	15
54	Laccase-catalyzed modification of PES membranes with 4-hydroxybenzoic acid and gallic acid. *Journal of Membrane Science*, **2012**, 394-395, 69-79	9.6	14
53	Immobilization of β-galactosidase on nylon membranes grafted with diethylenglycol dimethacrylate (DGDA) by γ-radiation: Effect of membrane pore size. *Advances in Polymer Technology*, **1999**, 18, 109-123	1.9	14
52	Novel Aminated Cellulose Acetate Membranes for Direct Methanol Fuel Cells (DMFCs). *International Journal of Electrochemical Science*, **2017**, 4301-4318	2.2	13
51	β-galactosidase immobilization on premodified Teflon membranes using γ-radiation grafting. *Journal of Applied Polymer Science*, **1998**, 68, 625-636	2.9	13
50	Novel Proton Exchange Membranes Based on Sulfonated Cellulose Acetate for Fuel Cell Applications: Preparation and Characterization. *International Journal of Electrochemical Science*, **2016**, 10150-10171	2.2	13
49	Development of nano-crosslinked polyacrylonitrile ions exchanger particles for dyes removal. *Desalination and Water Treatment*, **2016**, 57, 4255-4266		12
48	Glucose determination by means of a new reactor/sensor system operating under non-isothermal conditions. *Enzyme and Microbial Technology*, **2000**, 26, 593-601	3.8	12
47	Preparation and characterization of imino diacetic acid functionalized alginate beads for removal of contaminants from waste water: I. methylene blue cationic dye model. *Desalination and Water Treatment*, **2012**, 40, 15-23		11
46	Novel nanocomposite membranes based on cross-linked eco-friendly polymers doped with sulfated titania nanotubes for direct methanol fuel cell application. *Nanomaterials and Nanotechnology*, **2020**, 10, 184798042096436	2.9	10
45	Development of Polyvinyl Alcohol/Kaolin Sponges Stimulated by Marjoram as Hemostatic, Antibacterial, and Antioxidant Dressings for Wound Healing Promotion. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	10
44	Development of low-cost chitosan derivatives based on marine waste sources as oil adsorptive materials: I. Preparation and characterization72, 41-51		10
43	Development of Novel Phosphorylated Cellulose Acetate Polyelectrolyte Membranes for Direct Methanol Fuel Cell Application. *International Journal of Electrochemical Science*, **2016**, 3467-3491	2.2	10
42	Click Grafting of Chitosan onto PVC Surfaces for Biomedical Applications. *Advances in Polymer Technology*, **2018**, 37, 38-49	1.9	9
41	Radical-scavenging activity of glutathione, chitin derivatives and their combination *Chemical Papers*, **2016**, 70,	1.9	9
40	Removal of methylparaben from synthetic aqueous solutions using polyacrylonitrile beads: kinetic and equilibrium studies. *Environmental Science and Pollution Research*, **2017**, 24, 1270-1282	5.1	9
39	Formulation and Antibacterial Activity Evaluation of Quaternized Aminochitosan Membrane for Wound Dressing Applications. *Polymers*, **2021**, 13,	4.5	9

38	Removal of methylene blue by amidoxime polyacrylonitrile-grafted cotton fabrics: Kinetic, equilibrium, and simulation studies. *Fibers and Polymers*, **2016**, 17, 1884-1897	2	9
37	Titanium Dioxide/Phosphorous-Functionalized Cellulose Acetate Nanocomposite Membranes for DMFC Applications: Enhancing Properties and Performance. *ACS Omega*, **2021**, 6, 17194-17202	3.9	9
36	Development of polystyrene based nanoparticles ions exchange resin for water purification applications. *Desalination and Water Treatment*, **2016**, 57, 14810-14823		8
35	Preparation and characterization of grafted cellophane membranes for affinity separation of His-tag Chitinase. *Advances in Polymer Technology*, **2011**, 30, 191-202	1.9	8
34	Effective Elimination of Contaminant Antibiotics Using High-Surface-Area Magnetic-Functionalized Graphene Nanocomposites Developed from Plastic Waste. *Materials*, **2020**, 13,	3.5	7
33	Novel immobilized Cu+2 ion grafted cellophane membranes for affinity separation of His-Tag Chitinase. *Arabian Journal of Chemistry*, **2017**, 10, S3652-S3663	5.9	7
32	Antimicrobial activity of novel modified aminated chitosan with aromatic esters. *Polymer Bulletin*, **2020**, 77, 1631-1647	2.4	7
31	Covalent Immobilization of Galactosidase onto Amino-Functionalized Polyvinyl Chloride Microspheres: Enzyme Immobilization and Characterization. *Advances in Polymer Technology*, **2014**, 33,	1.9	5
30	Development of grafted cotton fabrics ions exchanger for dye removal applications: methylene blue model. *Desalination and Water Treatment*, **2016**, 57, 22049-22060		4
29	Zero-valent iron supported-lemon derived biochar for ultra-fast adsorption of methylene blue. *Biomass Conversion and Biorefinery*,1	2.3	4
28	Development of iron oxide nanoparticles using alginate hydrogel template for chromium (VI) ions removal175, 229-243		4
27	Methylene blue removal by nano-poly acrylonitrile particles: modelling and formulation studies178, 322-336		4
26	Fabrication of semi-interpenetrated PVA/PAMPS hydrogel as a reusable adsorbent for cationic methylene blue dye: isotherms, kinetics and thermodynamics studies. *Polymer Bulletin*, **2020**, 78, 6649	2.4	4
25	Development novel eco-friendly proton exchange membranes doped with nano sulfated zirconia for direct methanol fuel cells. *Journal of Polymer Research*, **2021**, 28, 1	2.7	4
24	Novel immobilized Cu2+-aminated poly (methyl methacrylate) grafted cellophane membranes for affinity separation of His-Tag chitinase. *Polymer Bulletin*, **2020**, 77, 135-151	2.4	4
23	Organic-Inorganic Novel Green Cation Exchange Membranes for Direct Methanol Fuel Cells. *Energies*, **2021**, 14, 4686	3.1	4
22	Novel sulfonated poly(glycidyl methacrylate) grafted Nafion membranes for fuel cell applications. *Polymer Bulletin*, **2017**, 74, 5195-5220	2.4	3
21	Development of novel acidBase ions exchanger for basic dye removal: phosphoric acid doped pyrazole-g-polyglycidyl methacrylate. *Desalination and Water Treatment*, **2016**, 57, 24047-24055		3

20	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. *Journal of Applied Polymer Science*, **2012**, 124, E27-E36	2.9	3
19	Kinetic and isothermal studies of manganese (VII) ions removal using Amberlite IRA-420 anion exchanger72, 30-40		3
18	Carboxylated alginate hydrogel beads for methylene blue removal: formulation, kinetic and isothermal studies168, 308-323		3
17	Development of highly ionic conductive cellulose acetate-g-poly (2-acrylamido-2-methylpropane sulfonic acid-co-methyl methacrylate) graft copolymer membranes. *Journal of Saudi Chemical Society*, **2021**, 25, 101318	4.3	3
16	Removal of chromium (VI) metal ions using amberlite IRA-420 anions exchanger60, 335-342		2
15	Efficient eco-friendly crude oil adsorptive chitosan derivatives: kinetics, equilibrium and thermodynamic studies159, 269-281		2
14	Development of nano-crosslinked polyacrylonitrile ions exchanger particles for dye removal: kinetic, isotherm, and thermodynamic studies175, 293-303		2
13	Poly (methacrylic acid) grafted regenerated cellulose ions exchangers membranes for Cu (II) ion adsorption: kinetic, isotherm, and thermodynamic studies178, 182-192		2
12	Removal of methylene blue dye from synthetic aqueous solutions using dimethylglyoxime modified amberlite IRA-420: kinetic, equilibrium and thermodynamic studies181, 399-411		2
11	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
10	A Highly Selective Novel Green Cation Exchange Membrane Doped with Ceramic Nanotubes Material for Direct Methanol Fuel Cells. *Energies*, **2021**, 14, 5664	3.1	2
9	Development of novel cellulose acetate-g-poly(sodium 4-styrenesulfonate) proton conducting polyelectrolyte polymer. *Journal of Saudi Chemical Society*, **2021**, 25, 101327	4.3	2
8	Development of Novel Amphiphilic Pyrazole-g -PolyGlycidyl methacrylate-Based Polymers with Potential Antimicrobial Activity. *Advances in Polymer Technology*, **2018**, 37, 706-713	1.9	1
7	Synthesis of macroporous poly(methyl methacrylate) derivatives and their use in organic synthesis. *Acta Polymerica*, **1989**, 40, 129-132		1
6	Removal of methylene blue from synthetic aqueous solutions with novel phosphoric acid-doped pyrazole-g-poly(glycidyl methacrylate) particles: kinetic and equilibrium studies. *Desalination and Water Treatment*, **2016**, 57, 27243-27258		1
5	Removal of Oil Spills by Novel Amphiphilic Chitosan-g-Octanal Schiff Base Polymer Developed by Click Grafting Technique. *Journal of Saudi Chemical Society*, **2021**, 101369	4.3	0
4	Removal of oil spills by novel developed amphiphilic chitosan-g-citronellal schiff base polymer. *Scientific Reports*, **2021**, 11, 19879	4.9	0
3	Simple Self-assembly Synthesis for Cost-Effective Alkaline Fuel Cell Bi-functional Electrocatalyst Synthesized from Polyethylene Terephthalate Waste Bottles. *Journal of Electronic Materials*, **2020**, 49, 1009-1016	1.9	0

2	Smart Biopolymer Hydrogels Developments for Biotechnological Applications. *Polymers and Polymeric Composites*, **2018**, 1-21	0.6
1	Smart Biopolymer Hydrogels Developments for Biotechnological Applications. *Polymers and Polymeric Composites*, **2019**, 1515-1535	0.6