

El Refaie Kenawy

List of Publications by Year in descending order

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92
papers

7,270
citations

126858

33
h-index

54882

84
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94
all docs

94
docs citations

94
times ranked

8856
citing authors

#	ARTICLE	IF	CITATIONS
1	The Chemistry and Applications of Antimicrobial Polymers: A State-of-the-Art Review. <i>Biomacromolecules</i> , 2007, 8, 1359-1384.	2.6	1,387
2	Release of tetracycline hydrochloride from electrospun poly(ethylene-co-vinylacetate), poly(lactic Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 547 7	4.8	1,191
3	Crosslinked poly(vinyl alcohol) hydrogels for wound dressing applications: A review of remarkably blended polymers. <i>Arabian Journal of Chemistry</i> , 2015, 8, 1-14.	2.3	496
4	Electrospinning of poly(ethylene-co-vinyl alcohol) fibers. <i>Biomaterials</i> , 2003, 24, 907-913.	5.7	336
5	Poly (vinyl alcohol)-alginate physically crosslinked hydrogel membranes for wound dressing applications: Characterization and bio-evaluation. <i>Arabian Journal of Chemistry</i> , 2015, 8, 38-47.	2.3	257
6	Biologically active polymers. V. Synthesis and antimicrobial activity of modified poly(glycidyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 547 7 phosphonium salts. <i>Journal of Polymer Science Part A</i> , 2002, 40, 2384-2393.	2.5	248
7	Processing of polymer nanofibers through electrospinning as drug delivery systems. <i>Materials Chemistry and Physics</i> , 2009, 113, 296-302.	2.0	236
8	Physically crosslinked poly(vinyl alcohol)-hydroxyethyl starch blend hydrogel membranes: Synthesis and characterization for biomedical applications. <i>Arabian Journal of Chemistry</i> , 2014, 7, 372-380.	2.3	171
9	Controlled release of ketoprofen from electrospun poly(vinyl alcohol) nanofibers. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007, 459, 390-396.	2.6	162
10	Biologically active polymers: synthesis and antimicrobial activity of modified glycidyl methacrylate polymers having a quaternary ammonium and phosphonium groups. <i>Journal of Controlled Release</i> , 1998, 50, 145-152.	4.8	161
11	Three waves changes, new variant strains, and vaccination effect against COVID-19 pandemic. <i>International Journal of Biological Macromolecules</i> , 2022, 204, 161-168.	3.6	147
12	Cetyltrimethylammonium bromide intercalated and branched polyhydroxystyrene functionalized montmorillonite clay to sequester cationic dyes. <i>Journal of Environmental Management</i> , 2018, 219, 285-293.	3.8	137
13	Biologically Active Polymers, 6. <i>Macromolecular Bioscience</i> , 2003, 3, 107-116.	2.1	126
14	Gelatin-Based Blends and Composites. Morphological and Thermal Mechanical Characterization. <i>Biomacromolecules</i> , 2001, 2, 806-811.	2.6	119
15	Biologically active polymers: VII. Synthesis and antimicrobial activity of some crosslinked copolymers with quaternary ammonium and phosphonium groups. <i>Reactive and Functional Polymers</i> , 2006, 66, 419-429.	2.0	116
16	Fabrication of biodegradable gelatin/chitosan/cinnamaldehyde crosslinked membranes for antibacterial wound dressing applications. <i>International Journal of Biological Macromolecules</i> , 2019, 139, 440-448.	3.6	115
17	Ecofriendly biodegradation of Reactive Black 5 by newly isolated <i>Sterigmatomyces halophilus</i> SSA1575, valued for textile azo dye wastewater processing and detoxification. <i>Scientific Reports</i> , 2020, 10, 12370.	1.6	107
18	Polymers for colon specific drug delivery. <i>Journal of Controlled Release</i> , 1996, 39, 327-338.	4.8	89

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19	Performance of a Newly Isolated Salt-Tolerant Yeast Strain <i>Sterigmatomyces halophilus</i> SSA-1575 for Azo Dye Decolorization and Detoxification. <i>Frontiers in Microbiology</i> , 2020, 11, 1163.	1.5	83
20	Biologically active polymers. IV. Synthesis and antimicrobial activity of polymers containing 8-hydroxyquinoline moiety. <i>Journal of Applied Polymer Science</i> , 2001, 82, 1364-1374.	1.3	78
21	Antimicrobial properties of modified and electrospun poly(vinyl phenol). <i>Macromolecular Bioscience</i> , 2002, 2, 261-266.	2.1	76
22	Controlled release of agrochemical molecules chemically bound to polymers. <i>European Polymer Journal</i> , 1992, 28, 841-862.	2.6	70
23	Biologically Active Polymers: Modification and Anti-microbial Activity of Chitosan Derivatives. <i>Journal of Bioactive and Compatible Polymers</i> , 2005, 20, 95-111.	0.8	69
24	Global impacts of pre- and post-COVID-19 pandemic: Focus on socio-economic consequences. <i>Sensors International</i> , 2020, 1, 100042.	4.9	69
25	Nanospider Technology for the Production of Nylon-6 Nanofibers for Biomedical Applications. <i>Journal of Nanomaterials</i> , 2011, 2011, 1-8.	1.5	60
26	Insight into multidrug-resistant microorganisms from microbial infected diabetic foot ulcers. <i>Diabetes and Metabolic Syndrome: Clinical Research and Reviews</i> , 2019, 13, 1261-1270.	1.8	59
27	Nanoporous aluminosilicate catalyst with 3D cage-type porous structure as an efficient catalyst for the synthesis of benzimidazole derivatives. <i>Tetrahedron Letters</i> , 2010, 51, 5195-5199.	0.7	54
28	Fabrication of electrospun antimicrobial nanofibers containing metronidazole using nanospider technology. <i>Fibers and Polymers</i> , 2012, 13, 709-717.	1.1	52
29	Pharmaceutical Potential of a Novel Chitosan Derivative Schiff Base with Special Reference to Antibacterial, Anti-Biofilm, Antioxidant, Anti-Inflammatory, Hemocompatibility and Cytotoxic Activities. <i>Pharmaceutical Research</i> , 2019, 36, 5.	1.7	52
30	Synthesis, characterization and biomedical applications of a novel Schiff base on methyl acrylate-functionalized chitosan bearing p-nitrobenzaldehyde groups. <i>International Journal of Biological Macromolecules</i> , 2019, 122, 833-843.	3.6	50
31	Enhanced anaerobic digestion performance by two artificially constructed microbial consortia capable of woody biomass degradation and chlorophenols detoxification. <i>Journal of Hazardous Materials</i> , 2020, 389, 122076.	6.5	47
32	Biodegradation of poly(vinyl alcohol) in soil environment: Influence of natural organic fillers and structural parameters. <i>Macromolecular Chemistry and Physics</i> , 2002, 203, 1526-1531.	1.1	39
33	Study of heavy metal ion absorbance by amidoxime group introduced to cellulose-grafted-polyacrylonitrile. <i>Journal of Applied Polymer Science</i> , 2011, 120, 866-873.	1.3	36
34	Controlled Release Formulations of Agrochemicals from Calcium Alginate. <i>Industrial & Engineering Chemistry Research</i> , 1996, 35, 3726-3729.	1.8	34
35	Biologically active polymers: controlled-release formulations based on crosslinked acrylamide gel derivatives. <i>Reactive and Functional Polymers</i> , 1998, 36, 31-39.	2.0	32
36	Recent Advances in Controlled Release of Agrochemicals. <i>Journal of Macromolecular Science - Reviews in Macromolecular Chemistry and Physics</i> , 1998, 38, 365-390.	2.2	32

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37	Environmentally sound blends and composites based on water-soluble polymer matrices. <i>Macromolecular Symposia</i> , 2000, 152, 83-94.	0.4	32
38	Metronidazole Topically Immobilized Electrospun Nanofibrous Scaffold: Novel Secondary Intention Wound Healing Accelerator. <i>Polymers</i> , 2022, 14, 454.	2.0	32
39	Synthesis, characterization and antimicrobial activity of modified cellulose-graft-polyacrylonitrile with some aromatic aldehyde derivatives. <i>Carbohydrate Polymers</i> , 2011, 83, 346-353.	5.1	31
40	Biodegradable composite films based on waste gelatin. <i>Macromolecular Symposia</i> , 1999, 144, 351-364.	0.4	27
41	Preparation of carboxymethyl cellulose- γ -poly (acrylamide)/montmorillonite superabsorbent composite as a slow-release urea fertilizer. <i>Polymers for Advanced Technologies</i> , 2018, 29, 2072-2079.	1.6	27
42	Synthesis and antimicrobial activity of some polymers derived from modified amino polyacrylamide by reacting it with benzoate esters and benzaldehyde derivatives. <i>Journal of Applied Polymer Science</i> , 2006, 99, 2428-2437.	1.3	26
43	Controlled release of atenolol from freeze/thawed poly(vinyl alcohol) hydrogel. <i>Journal of Saudi Chemical Society</i> , 2010, 14, 237-240.	2.4	26
44	Effect of pH on the drug release rate from a new polymer-drug conjugate system. <i>Polymer International</i> , 2008, 57, 85-91.	1.6	25
45	Biologically active polymers. IV. Synthesis and antimicrobial activity of tartaric acid polyamides. <i>Journal of Applied Polymer Science</i> , 2006, 102, 4780-4790.	1.3	21
46	Biocidal polymers: Synthesis, antimicrobial activity, and possible toxicity of poly (hydroxystyrene-co-methylmethacrylate) derivatives. <i>Journal of Applied Polymer Science</i> , 2011, 120, 2734-2742.	1.3	20
47	Reducing nitrogen leaching while enhancing growth, yield performance and physiological traits of rice by the application of controlled-release urea fertilizer. <i>Paddy and Water Environment</i> , 2021, 19, 173-188.	1.0	19
48	Covalent immobilization of β -galactosidase onto electrospun nanofibers of poly (AN-co-MMA) copolymer. <i>Journal of Applied Polymer Science</i> , 2013, 127, 1873-1884.	1.3	18
49	Friedel-Crafts benzylation of benzene and other aromatics using 3D mesoporous gallosilicate with cage type porous structure. <i>Microporous and Mesoporous Materials</i> , 2010, 134, 87-92.	2.2	17
50	Polymeric Controlled Release Formulations of Niclosamide for Control of <i>Biomphalaria Alexandrina</i> , the Vector Snail of Schistosomiasis. <i>Macromolecular Bioscience</i> , 2004, 4, 119-128.	2.1	16
51	A New Degradable Hydroxamate Linkage for pH-Controlled Drug Delivery. <i>Biomacromolecules</i> , 2007, 8, 196-201.	2.6	16
52	Polyoxypropylene-montmorillonite nanocomposites for drug delivery vehicles: Preparation and characterization. <i>Journal of Applied Polymer Science</i> , 2012, 125, E157.	1.3	16
53	1,3,5-Triazine-based polymer: synthesis, characterization and application for immobilization of silver nanoparticles. <i>Journal of Polymer Research</i> , 2017, 24, 1.	1.2	16
54	Synthesis and antimicrobial activity of metronidazole containing polymer and copolymers. <i>Journal of Applied Polymer Science</i> , 2009, 113, 818-826.	1.3	14

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55	Controlled Release of 5-Aminosalicylic Acid (5-ASA) from New Biodegradable Polyurethanes. <i>Molecules</i> , 2010, 15, 2257-2268.	1.7	14
56	Synthesis, characterization, and amidoximation of diaminomaleodinitrile- ϵ -functionalized polyethylene terephthalate grafts for collecting heavy metals from wastewater. <i>Journal of Applied Polymer Science</i> , 2012, 125, 1136-1145.	1.3	14
57	Synthesis and biocidal activity of modified poly(vinyl alcohol). <i>Arabian Journal of Chemistry</i> , 2014, 7, 355-361.	2.3	14
58	POLYMERS FOR AGRICULTURAL APPLICATIONS: CONTROLLED-RELEASE POLYMERIC FORMULATIONS WITH PENDANT 2,6-DICHLORO BENZALDEHYDE. <i>Polymer-Plastics Technology and Engineering</i> , 2001, 40, 437-450.	1.9	13
59	Controlled release of polymer conjugated agrochemicals. System based on poly(methyl vinyl) Tj ETQq1 1 0.784314,rgBT /Overlock 10 TF	1.5	13
60	Synthesis and Characterization of Novel Inorganic-Organic Hybrid Ru(II) Complexes and Their Application in Selective Hydrogenation. <i>Molecules</i> , 2010, 15, 1028-1040.	1.7	13
61	Synthesis and microbial degradation of azopolymers for possible applications for colon specific drug delivery I. <i>Journal of Saudi Chemical Society</i> , 2011, 15, 327-335.	2.4	12
62	Grafted cellulose acetate reverse osmosis membrane using 2-acrylamido-2-methylpropanesulfonic acid for water desalination. <i>Water Science and Technology: Water Supply</i> , 2016, 16, 1046-1056.	1.0	12
63	Electrospun composites nanofibers from cellulose acetate/carbon black as efficient adsorbents for heavy and light machine oil from aquatic environment. <i>Journal of the Iranian Chemical Society</i> , 2022, 19, 3013-3027.	1.2	12
64	Controlled release of 2-methyl-4-chlorophenoxy acetic acid herbicide from waste gelatin-based blends and composites. <i>Journal of Applied Polymer Science</i> , 2004, 94, 1420-1427.	1.3	11
65	New trends in antimicrobial polymers: A state-of-the-art review. <i>International Journal of Chemical and Applied Biological Sciences</i> , 2014, 1, 95.	0.2	11
66	Mitigation of drought stress on three summer crop species using the superabsorbent composite Gelatin-g-p(AA-co-AM)/RH. <i>Communications in Soil Science and Plant Analysis</i> , 2018, 49, 2828-2842.	0.6	11
67	Preparation of organophilic montmorillonite-based dimethylamino benzaldehyde-Schiff-base as antibacterial agents. <i>Arabian Journal of Chemistry</i> , 2019, 12, 405-412.	2.3	11
68	Biocidal Polymers: Preparation and Antimicrobial Assessment of Immobilized Onium Salts onto Modified Chitosan. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2014, 63, 758-766.	1.8	10
69	An environmental friendly superabsorbent composite based on rice husk as soil amendment to improve plant growth and water productivity under deficit irrigation conditions. <i>Journal of Plant Nutrition</i> , 2021, 44, 1010-1022.	0.9	10
70	Processing of Polymer Nanofibers Through Electrospinning as Drug Delivery Systems. <i>NATO Science for Peace and Security Series C: Environmental Security</i> , 2009, , 247-263.	0.1	10
71	Recycling of pharmaceutical waste gelatin for controlled-release applications. I. A 2,4-dichlorophenoxy acetic acid based system. <i>Journal of Applied Polymer Science</i> , 2004, 91, 2313-2319.	1.3	9
72	Enhancement of growth and physiological traits under drought stress in Faba bean (<i>Vicia faba</i>) Tj ETQq0 0 0,rgBT /Overlock 10 TF	1.8	9

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73	Electrospinning of Functionalized Copolymer Nanofibers from Poly(acrylonitrile- <i>co</i> -methyl Tj ETQq1 1 0,784314 rgBT /Overlock 10, Tf 50 302	0,8	8
74	Synthesis, characterization and spectroscopic investigation of pyrazinoporphyrazine network polymer-supported metal (II)-based catalysts. Chinese Journal of Polymer Science (English Edition), 2013, 31, 242-250.	2.0	6
75	Insecticidal activity of some synthesized 1,3,4-oxadiazole derivatives grafted on chitosan and polymethylmethacrylate against the cotton leafworm <i>Spodoptera littoralis</i> . International Journal of Biological Macromolecules, 2021, 180, 539-546.	3.6	6
76	Characterization and thermal stability of cellulose- <i>graft</i> -polyacrylonitrile prepared by using KMnO ₄ /citric acid redox system. Journal of Applied Polymer Science, 2010, 116, 1788-1795.	1.3	5
77	Reverse osmosis membranes for water desalination based on cellulose acetate extracted from Egyptian rice straw. Desalination and Water Treatment, 0, , 1-11.	1.0	5
78	Free-Standing Working Electrodes for Supercapacitors Based on Composite Polymer Nanofibers and Functionalized with Graphene Oxide. Journal of Electronic Materials, 2021, 50, 5599-5611.	1.0	5
79	Montmorillonite Intercalated Norfloxacin and Tobramycin for New Drug-Delivery Systems. Journal of Nanoscience and Nanotechnology, 2020, 20, 5246-5251.	0.9	5
80	High temperature microwave-assisted synthesis and the physico-chemical characterisation of mesoporous crystalline titania. International Journal of Nanotechnology, 2010, 7, 1065.	0.1	4
81	Synthesis and Spectrosopic Identification of Hybrid 3-(Triethoxysilyl)propylamine Phosphine Ruthenium(II) Complexes. Molecules, 2010, 15, 3618-3633.	1.7	4
82	Polymer-supported phase-transfer catalysts: synthesis and high catalytic activity of ammonium and phosphonium salts bound to linear and crosslinked poly(glycidyl methacrylate). Designed Monomers and Polymers, 1998, 1, 155-167.	0.7	3
83	Recycling of Pharmaceutical Waste Gelatin for Controlled Release Applications II: A Tri-fluralin Based System. Polymer-Plastics Technology and Engineering, 2004, 43, 1695-1709.	1.9	3
84	Synthesis and Biocide Activity of Polymers Based on Poly(hydroxy styrene) and Poly(hydroxy Tj ETQq0 0 0 rgBT /Overlock 10, Tf 50 302	0,4	3
85	Novel biocidal polymers based on branched and linear poly(hydroxystyrene). International Journal of Polymeric Materials and Polymeric Biomaterials, 2016, 65, 712-719.	1.8	2
86	New polymeric molluscicide-attractant (niclosamide-l-glutamate) for control of <i>Biomphalaria alexandrina</i> . Egyptian Journal of Aquatic Research, 2020, 46, 13-18.	1.0	2
87	Nanofibers for Filtration Applications. Advances in Material Research and Technology, 2020, , 361-371.	0.3	2
88	Chemical modification, electrospinning and biological activities of pluronic F68. Polymer Bulletin, 0, ,	1.7	2
89	Characterization and Mechanical Properties of Cellulose-graft-Polyacrylonitrile Prepared by Using KMnO ₄ /different Acids as Redox System. Nihon Reorji Gakkaishi, 2010, 38, 133-140.	0.2	1
90	Biodegradation of poly(vinyl alcohol) in soil environment: Influence of natural organic fillers and structural parameters. , 2002, 203, 1526.		1

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91	Effective biological treatment of water polluted with coomassie brilliant blue and methylene blue using carbon nanotube-supported biodegradation. Environmental Progress and Sustainable Energy, 0, , .	1.3	1
92	Optimizing Graphene Oxide Encapsulated TiO2 and Hydroxyapatite; Structure and Biological Response. Journal of Inorganic and Organometallic Polymers and Materials, 2022, 32, 1306.	1.9	0