Mohamed E I Badawy

List of Publications by Year
in descending order

78	5,434	172386 29	82499 72
papers	citations	h-index	g-index

78	78	78	6880
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Chitosan as Antimicrobial Agent:Â Applications and Mode of Action. Biomacromolecules, 2003, 4, 1457-1465.	2.6	2,503
2	Fumigant and Contact Toxicities of Monoterpenes to Sitophilus oryzae (L.) and Tribolium castaneum (Herbst) and their Inhibitory Effects on Acetylcholinesterase Activity. Journal of Chemical Ecology, 2009, 35, 518-525.	0.9	302
3	A Biopolymer Chitosan and Its Derivatives as Promising Antimicrobial Agents against Plant Pathogens and Their Applications in Crop Protection. International Journal of Carbohydrate Chemistry, 2011, 2011, 1-29.	1.5	276
4	Potential of the biopolymer chitosan with different molecular weights to control postharvest gray mold of tomato fruit. Postharvest Biology and Technology, 2009, 51, 110-117.	2.9	218
5	Synthesis and Fungicidal Activity of NewN,O-Acyl Chitosan Derivatives. Biomacromolecules, 2004, 5, 589-595.	2.6	152
6	Insecticidal and fungicidal activity of new synthesized chitosan derivatives. Pest Management Science, 2005, 61, 951-960.	1.7	143
7	Composition and antimicrobial activity of essential oils isolated from Egyptian plants against plant pathogenic bacteria and fungi. Industrial Crops and Products, 2014, 52, 776-782.	2.5	102
8	Antimicrobial and inhibitory enzyme activity of N-(benzyl) and quaternary N-(benzyl) chitosan derivatives on plant pathogens. Carbohydrate Polymers, 2014, 111, 670-682.	5.1	95
9	Structure and antimicrobial activity relationship of quaternary Nâ€alkyl chitosan derivatives against some plant pathogens. Journal of Applied Polymer Science, 2010, 117, 960-969.	1.3	93
10	In vitro assessment of N-(benzyl)chitosan derivatives against some plant pathogenic bacteria and fungi. European Polymer Journal, 2009, 45, 237-245.	2.6	89
11	Toxicity and biochemical changes in the honey bee Apis mellifera exposed to four insecticides under laboratory conditions. Apidologie, 2015, 46, 177-193.	0.9	88
12	Acaricidal and quantitative structure activity relationship of monoterpenes against the two-spotted spider mite, Tetranychus urticae. Experimental and Applied Acarology, 2010, 52, 261-274.	0.7	87
13	Fungicidal and Insecticidal Activity of O-Acyl Chitosan Derivatives. Polymer Bulletin, 2005, 54, 279-289.	1.7	71
14	Antimicrobial and antioxidant activities of hydrocarbon and oxygenated monoterpenes against some foodborne pathogens through in vitro and in silico studies. Pesticide Biochemistry and Physiology, 2019, 158, 185-200.	1.6	71
15	Toxicity and biochemical study of two insect growth regulators, buprofezin and pyriproxyfen, on cotton leafworm Spodoptera littoralis. Pesticide Biochemistry and Physiology, 2010, 98, 198-205.	1.6	62
16	Toxic Effect and Biochemical Study of Chlorfluazuron, Oxymatrine, and Spinosad on Honey Bees (Apis) Tj ETQq0 0 0 rgBT /Overlock 10 T	2.1	61
17	Preparation and antibacterial activity of chitosan-silver nanoparticles for application in preservation of minced meat. Bulletin of the National Research Centre, 2019, 43, .	0.7	59
18	Chemical modification of chitosan: synthesis and biological activity of new heterocyclic chitosan derivatives. Polymer International, 2008, 57, 254-261.	1.6	57

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19	Bioactive Paper Sensor Based on the Acetylcholinesterase for the Rapid Detection of Organophosphate and Carbamate Pesticides. International Journal of Analytical Chemistry, 2014, 2014, 1-8.	0.4	55
20	Enhancement of fungicidal and insecticidal activity by reductive alkylation of chitosan. Pest Management Science, 2006, 62, 890-897.	1.7	48
21	Acaricidal activity, biochemical effects and molecular docking of some monoterpenes against two-spotted spider mite (Tetranychus urticae Koch). Pesticide Biochemistry and Physiology, 2019, 156, 105-115.	1.6	46
22	Strawberry Shelf Life, Composition, and Enzymes Activity in Response to Edible Chitosan Coatings. International Journal of Fruit Science, 2017, 17, 117-136.	1.2	45
23	Optimization and characterization of the formation of oil-in-water diazinon nanoemulsions: Modeling and influence of the oil phase, surfactant and sonication. Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes, 2017, 52, 896-911.	0.7	39
24	Biodegradation of Chlorpyrifos by a Newly IsolatedBacillus subtilisStrain, Y242. Bioremediation Journal, 2013, 17, 113-123.	1.0	38
25	Characterization and antimicrobial activity of water-soluble N-(4-carboxybutyroyl) chitosans against some plant pathogenic bacteria and fungi. Carbohydrate Polymers, 2012, 87, 250-256.	5.1	37
26	Development of a Solid-Phase Extraction (SPE) Cartridge Based on Chitosan-Metal Oxide Nanoparticles (Ch-MO NPs) for Extraction of Pesticides from Water and Determination by HPLC. International Journal of Analytical Chemistry, 2018, 2018, 1-16.	0.4	34
27	Synthesis and structureâ€“activity relationship of N-(cinnamyl) chitosan analogs as antimicrobial agents. International Journal of Biological Macromolecules, 2013, 57, 185-192.	3.6	33
28	Antifungal activity of essential oils isolated from Egyptian plants against wood decay fungi. Journal of Wood Science, 2013, 59, 499-505.	0.9	33
29	Preparation and Characterization of Biopolymers Chitosan/Alginate/Gelatin Gel Spheres Crosslinked by Glutaraldehyde. Journal of Macromolecular Science - Physics, 2017, 56, 359-372.	0.4	31
30	Facile synthesis and characterizations of antibacterial and antioxidant of chitosan monoterpene nanoparticles and their applications in preserving minced meat. International Journal of Biological Macromolecules, 2020, 156, 127-136.	3.6	29
31	Preparation and characterizations of essential oil and monoterpene nanoemulsions and acaricidal activity against two-spotted spider mite (Tetranychus urticae Koch). International Journal of Acarology, 2018, 44, 330-340.	0.3	28
32	Novel low cost nanoparticles for enhanced removal of chlorpyrifos from wastewater: Sorption kinetics, and mechanistic studies. Arabian Journal of Chemistry, 2021, 14, 102981.	2.3	28
33	Synthesis and antifungal property of N-(aryl) and quaternary N-(aryl) chitosan derivatives against Botrytis cinerea. Cellulose, 2014, 21, 3121-3137.	2.4	27
34	Quantitative analysis of acetamiprid and imidacloprid residues in tomato fruits under greenhouse conditions. Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes, 2019, 54, 898-905.	0.7	26
35	Preparation and characterization of chitosanâ€siloxane magnetic nanoparticles for the extraction of pesticides from water and determination by HPLC. Separation Science Plus, 2018, 1, 506-519.	0.3	23
36	The Antibacterial Activity of Chitosan Products Blended with Monoterpenes and Their Biofilms against Plant Pathogenic Bacteria. Scientifica, 2016, 2016, 1-10.	0.6	22

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37	Characterization, antimicrobial activity, and antioxidant activity of the nanoemulsions of Lavandula spica essential oil and its main monoterpenes. Journal of Drug Delivery Science and Technology, 2021, 65, 102732.	1.4	22
38	Biodegradation of imidacloprid in liquid media by an isolated wastewater fungusAspergillus terreusYESM3. Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes, 2017, 52, 752-761.	0.7	19
39	Residues and dissipation kinetic of abamectin, chlorfenapyr and pyridaben acaricides in green beans (Phaseolus vulgaris L.) under field conditions using QuEChERS method and HPLC. Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes, 2020, 55, 517-524.	0.7	17
40	Potential of hydrocarbon and oxygenated monoterpenes against Culex pipiens larvae: Toxicity, biochemical, pharmacophore modeling and molecular docking studies. Pesticide Biochemistry and Physiology, 2019, 158, 156-165.	1.6	16
41	Chemical composition of the essential oils isolated from peel of three citrus species and their mosquitocidal activity against Culex pipiens. Natural Product Research, 2018, 32, 2829-2834.	1.0	14
42	Acaricidal and antiacetylcholinesterase activities of essential oils from six plants growing in Egypt. International Journal of Acarology, 2019, 45, 245-251.	0.3	13
43	Preparation, characterizations and antibacterial activity of different nanoemulsions incorporating monoterpenes:inÂvitroandinÂvivostudies. Archives of Phytopathology and Plant Protection, 2020, 53, 310-334.	0.6	13
44	New 4-(arylidene)amino-1,2,4-traizole-5-thiol derivatives and their acyclo thioglycosides as Î±-glucosidase and Î±-amylase inhibitors: Design, synthesis, and molecular modelling studies. Journal of Molecular Structure, 2022, 1259, 132733.	1.8	12
45	Enhanced mosquitocidal efficacy of pyrethroid insecticides by nanometric emulsion preparation towards Culex pipiens larvae with biochemical and molecular docking studies. Journal of the Egyptian Public Health Association, The, 2021, 96, 21.	1.0	11
46	Structure and antimicrobial comparison between N-(benzyl) chitosan derivatives and N-(benzyl) chitosan tripolyphosphate nanoparticles against bacteria, fungi, and yeast. International Journal of Biological Macromolecules, 2021, 186, 724-734.	3.6	11
47	Chitosan and Its Derivatives as Active Ingredients Against Plant Pests and Diseases. , 2016, , 179-219.		10
48	Evaluation of released malathion and spinosad from chitosan/alginate/gelatin capsules against Culex pipiens larvae. Research and Reports in Tropical Medicine, 2016, Volume 7, 23-38.	2.8	9
49	Adsorption and thermodynamic parameters of chlorantraniliprole and dinotefuran on clay loam soil with difference in particle size and pH. Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes, 2019, 54, 475-488.	0.7	9
50	Development and validation of HPLC methods for analysis of chlorantraniliprole insecticide in technical and commercial formulations. Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes, 2018, 53, 411-422.	0.7	8
51	Insecticidal activity of nanoemulsions of organophosphorus insecticides against cotton leafworm (Spodoptera littoralis) and molecular docking studies. International Journal of Tropical Insect Science, 2022, 42, 293-313.	0.4	8
52	Antimicrobial Activity of Biopolymer Chitosans and Monoterpenes Against the Honeybee Pathogens <I>Paenibacillus larvae</I> and Ascosphaera apis. Journal of Chitin and Chitosan Science, 2014, 2, 306-310.	0.3	8
53	Synthesis and quantitative structure activity relationship (QSAR) of arylidene (benzimidazol-1-yl)acetohydrazones as potential antibacterial agents. World Journal of Microbiology and Biotechnology, 2015, 31, 145-152.	1.7	7
54	Preparation of Ecofriendly Formulations Containing Biologically Active Monoterpenes with Their Fumigant and Residual Toxicities against Adults ofCulex pipiens. Journal of Tropical Medicine, 2016, 2016, 1-8.	0.6	7

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55	Chemical Composition and Antifungal Activity of Essential Oils Isolated from Cupressus sempervirens L. and Juniperus phoenicea L. Grown in Al-Jabel Al-Akhdar Region, Libya against Botrytis cinerea. Natural Products Journal, 2017, 7, .	0.1	7
56	Toxicity Assessment of Buprofezin, Lufenuron, and Triflumuron to the EarthwormAporrectodea caliginosa. International Journal of Zoology, 2013, 2013, 1-9.	0.3	6
57	Inhibition kinetics of acid and alkaline phosphatases by atrazine and methomyl pesticides. Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes, 2015, 50, 484-491.	0.7	5
58	Synthesis, antibacterial, antioxidant, and molecular docking studies of 6-methylpyrimidin-4(3H)-one and oxo-1,2,4-triazolo[4,3-a]pyrimidine derivatives. Journal of Molecular Structure, 2022, 1249, 131551.	1.8	5
59	Production and Properties of Different Molecular Weights of Chitosan from Marine Shrimp Shells. Journal of Chitin and Chitosan Science, 2016, 4, 46-54.	0.3	5
60	Nanoemulsions containing some plant essential oils as promising formulations against Culex pipiens (L.) larvae and their biochemical studies. Pesticide Biochemistry and Physiology, 2022, 185, 105151.	1.6	5
61	Synthesis and Antimicrobial Activity of N-(6-Carboxyl Cyclohex-3-ene Carbonyl) Chitosan with Different Degrees of Substitution. International Journal of Carbohydrate Chemistry, 2016, 2016, 1-10.	1.5	4
62	Toxicity, joint action effect, and enzymatic assays of abamectin, chlorfenapyr, and pyridaben against the two-spotted spider mite Tetranychus urticae. Journal of Basic and Applied Zoology, 2022, 83, .	0.4	4
63	Inhibitory effects on microbial growth ofBotrytis cinereaandErwinia carotovoraon potato using of a biopolymer chitosan at different molecular weights. Archives of Phytopathology and Plant Protection, 2012, 45, 1939-1949.	0.6	3
64	Toxicity of naturally occurring Bio-fly and chitosan compounds to control the Mediterranean fruit flyCeratitis capitata(Wiedemann). Natural Product Research, 2015, 29, 460-465.	1.0	3
65	Current Applications in Food Preservation Based on Marine Biopolymers. , 2018, , 609-650.		3
66	Isolation, characterisation and efficacy of the bacterial strain Lysinibacillus sphaericus YMM in biodegradation of malathion insecticide in liquid media. International Journal of Environmental Studies, 2019, 76, 616-633.	0.7	3
67	Performance evaluation of functionalized chitosan-siloxane nano-sorbents for pesticides extraction and removal from aqueous samples. Nanotechnology for Environmental Engineering, 2021, 6, 1.	2.0	3
68	Synthesis and Antioxidant Activity of Novel 5-amino-2-alkyl/glycosylthio-1,3,4- thiadiazoles: Regioselective Alkylation and Glycosylation of the 5-amino-1,3,4- thiadiazole-2-thiol Scaffold. Current Organic Synthesis, 2019, 16, 801-809.	0.7	3
69	Pharmacophore modeling and virtual screening for the discovery of biologically active natural products. Studies in Natural Products Chemistry, 2020, 64, 321-364.	0.8	2
70	Biochemical Characterization and Kinetics of Carboxylesterase Isolated from Rabbit Liver and Lung in order to Application in the Detoxification of Environmental Pollutants. Current Enzyme Inhibition, 2017, 13, 56-66.	0.3	2
71	Effects of sub-chronic exposure of male albino rats to some insecticides on mitochondrial dysfunction and oxidative stress in the kidney with molecular docking. Journal of Cellular Neuroscience and Oxidative Stress, 2022, 13, .	0.1	2
72	Chitosan-Based Edible Membranes for Food Packaging. , 2018, , 237-267.		1

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73	Design and Optimization of Bioactive Paper Immobilized with Acetylcholinesterase for Rapid Detection of Organophosphorus and Carbamate Insecticides. Current Biotechnology, 2019, 7, 392-404.	0.2	1
74	Chemical Composition and Antimicrobial Activity of Bark and Leaf Extracts of Cupressus sempervirens and Juniperus phoenicea Grown in Al- Jabel Al-Akhdar Region, Libya. Natural Products Journal, 2019, 9, 268-279.	0.1	1
75	Synthesis, antioxidant, antimicrobial, and molecular docking studies of some N-cinnamyl phenylacetamide and N-(3,7-dimethylocta-2,6-dien-1-yl) phenylacetamide derivatives. Journal of Molecular Structure, 2022, 1265, 133411.	1.8	1
76	Chemical Modification of Chitin and Chitosan for Their Potential Applications. , 2017, , 117-175.		0
77	Studies on the EC50 of Natural Monoterpenes as Fungal Inhibitors with Quantitative Structure-Activity Relationships (QSARs). Natural Products Journal, 2020, 10, 44-60.	0.1	0
78	Synthesis, computerâ€aided <scp>ADMET</scp> prediction, and molecular docking of novel 3,5,6â€trichloropyridinâ€2â€yl derivatives as potential antimicrobial agents. Journal of the Chinese Chemical Society, 2022, 69, 1106-1120.	0.8	0