

Thandapani Gomathi

List of Publications by Year in descending order

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Version: 2024-02-01

47
papers

2,268
citations

201385

27
h-index

276539

41
g-index

48
all docs

48
docs citations

48
times ranked

2876
citing authors

#	ARTICLE	IF	CITATIONS
1	Preparation and characterization of nano chitosan for treatment wastewaters. International Journal of Biological Macromolecules, 2013, 57, 204-212.	3.6	195
2	Green approach for synthesis of zinc oxide nanoparticles from Andrographis paniculata leaf extract and evaluation of their antioxidant, anti-diabetic, and anti-inflammatory activities. Bioprocess and Biosystems Engineering, 2018, 41, 21-30.	1.7	170
3	Removal of the heavy metal ion chromium(VI) using Chitosan and Alginate nanocomposites. International Journal of Biological Macromolecules, 2017, 104, 1459-1468.	3.6	168
4	Batch adsorption studies on surface tailored chitosan/orange peel hydrogel composite for the removal of Cr(VI) and Cu(II) ions from synthetic wastewater. Chemosphere, 2021, 271, 129415.	4.2	111
5	Size optimization and in vitro biocompatibility studies of chitosan nanoparticles. International Journal of Biological Macromolecules, 2017, 104, 1794-1806.	3.6	95
6	Batch adsorption and desorption studies on the removal of lead (II) from aqueous solution using nanochitosan/sodium alginate/microcrystalline cellulose beads. International Journal of Biological Macromolecules, 2017, 104, 1483-1494.	3.6	94
7	Fabrication of letrozole formulation using chitosan nanoparticles through ionic gelation method. International Journal of Biological Macromolecules, 2017, 104, 1820-1832.	3.6	92
8	Synthesis, characterization and pharmacological potential of green synthesized copper nanoparticles. Bioprocess and Biosystems Engineering, 2019, 42, 1769-1777.	1.7	89
9	FTIR, XRD and DSC studies of nanochitosan, cellulose acetate and polyethylene glycol blend ultrafiltration membranes. International Journal of Biological Macromolecules, 2017, 104, 1721-1729.	3.6	82
10	Sorption studies on heavy metal removal using chitin/bentonite biocomposite. International Journal of Biological Macromolecules, 2013, 53, 67-71.	3.6	81
11	Evaluation of anti-cholinesterase, antibacterial and cytotoxic activities of green synthesized silver nanoparticles using from Millettia pinnata flower extract. Microbial Pathogenesis, 2017, 103, 123-128.	1.3	81
12	Removal of copper(II) from aqueous solution using nanochitosan/sodium alginate/microcrystalline cellulose beads. International Journal of Biological Macromolecules, 2016, 82, 440-452.	3.6	80
13	Removal of toxic heavy metal lead (II) using chitosan oligosaccharide-graft-maleic anhydride/polyvinyl alcohol/silk fibroin composite. International Journal of Biological Macromolecules, 2017, 104, 1469-1482.	3.6	76
14	Removal of Cr(VI) from aqueous solution using chitosan-g-poly(butyl acrylate)/silica gel nanocomposite. International Journal of Biological Macromolecules, 2016, 87, 545-554.	3.6	64
15	Yttrium Oxide Nanoparticle Synthesis: An Overview of Methods of Preparation and Biomedical Applications. Applied Sciences (Switzerland), 2021, 11, 2172.	1.3	63
16	Removal of Cu(II) and Ni(II) using cellulose extracted from sisal fiber and cellulose-g-acrylic acid copolymer. International Journal of Biological Macromolecules, 2013, 62, 59-65.	3.6	60
17	Sunitinib loaded chitosan nanoparticles formulation and its evaluation. International Journal of Biological Macromolecules, 2016, 82, 952-958.	3.6	57
18	Nanochitosan/carboxymethyl cellulose/TiO ₂ biocomposite for visible-light-induced photocatalytic degradation of crystal violet dye. Environmental Research, 2022, 204, 112047.	3.7	56

#	ARTICLE	IF	CITATIONS
19	Adsorption and kinetic studies on the removal of chromium and copper onto Chitosan-g-maleic anhydride-g-ethylene dimethacrylate. <i>International Journal of Biological Macromolecules</i> , 2017, 104, 1578-1585.	3.6	47
20	Development of 3D scaffolds using nanochitosan/silk-fibroin/hyaluronic acid biomaterials for tissue engineering applications. <i>International Journal of Biological Macromolecules</i> , 2018, 120, 876-885.	3.6	47
21	Comparative studies on the removal of heavy metals ions onto cross linked chitosan-g-acrylonitrile copolymer. <i>International Journal of Biological Macromolecules</i> , 2014, 67, 180-188.	3.6	44
22	Biosynthesis and Biomedical Applications of Gold Nanoparticles Using Eclipta prostrata Leaf Extract. <i>Applied Sciences (Switzerland)</i> , 2016, 6, 222.	1.3	43
23	Banana fiber Cellulose Nano Crystals grafted with butyl acrylate for heavy metal lead (II) removal. <i>International Journal of Biological Macromolecules</i> , 2019, 131, 461-472.	3.6	43
24	Sorption studies on Cr (VI) removal from aqueous solution using cellulose grafted with acrylonitrile monomer. <i>International Journal of Biological Macromolecules</i> , 2014, 66, 295-301.	3.6	41
25	Current Use of Carbon-Based Materials for Biomedical Applications—A Prospective and Review. <i>Processes</i> , 2020, 8, 355.	1.3	41
26	Studies on drug-polymer interaction, in vitro release and cytotoxicity from chitosan particles excipient. <i>International Journal of Pharmaceutics</i> , 2014, 468, 214-222.	2.6	36
27	Adsorptive removal of copper (II) and lead (II) using chitosan- g -maleic anhydride- g -methacrylic acid copolymer. <i>International Journal of Biological Macromolecules</i> , 2017, 104, 1495-1508.	3.6	27
28	Toxic heavy metal cadmium removal using chitosan and polypropylene based fiber composite. <i>International Journal of Biological Macromolecules</i> , 2020, 164, 1809-1824.	3.6	27
29	Nanotechnology for human food: Advances and perspective. <i>Frontiers in Life Science: Frontiers of Interdisciplinary Research in the Life Sciences</i> , 2017, 10, 63-72.	1.1	25
30	Biosilica/Silk Fibroin/Polyurethane biocomposite for toxic heavy metals removal from aqueous streams. <i>Environmental Technology and Innovation</i> , 2022, 28, 102741.	3.0	20
31	Adsorption Studies of Lead(II) from aqueous solution onto Nanochitosan /Polyurethane /Polypropylene glycol ternary blends. <i>International Journal of Biological Macromolecules</i> , 2017, 104, 1436-1448.	3.6	19
32	Marine Carbohydrates of Wastewater Treatment. <i>Advances in Food and Nutrition Research</i> , 2014, 73, 103-143.	1.5	18
33	Sustainable Green Synthesis of Yttrium Oxide (Y ₂ O ₃) Nanoparticles Using Lantana camara Leaf Extracts: Physicochemical Characterization, Photocatalytic Degradation, Antibacterial, and Anticancer Potency. <i>Nanomaterials</i> , 2022, 12, 2393.	1.9	18
34	Sorption studies of lead (II) onto crosslinked and non crosslinked biopolymeric blends. <i>International Journal of Biological Macromolecules</i> , 2013, 59, 165-169.	3.6	15
35	Adsorption of copper(II) and nickel(II) ions from aqueous solution using graft copolymer of cellulose extracted from the sisal fiber with acrylic acid monomer. <i>Composite Interfaces</i> , 2014, 21, 75-86.	1.3	9
36	Cadmium(II) ion removal from aqueous solution using chitosan oligosaccharide-based blend. <i>Polymer Bulletin</i> , 2021, 78, 1109-1132.	1.7	5

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37	Adsorption of Heavy Metal Cr (VI) By a Ternary Biopolymer Blend. <i>Materials Today: Proceedings</i> , 2018, 5, 14628-14638.	0.9	4
38	Evaluation of batch and packed bed adsorption column for chromium(VI) ion removal from aqueous solution using chitosan-silica-gel/AM/orange peel hydrogel composite. <i>Biomass Conversion and Biorefinery</i> , 2024, 14, 2745-2760.	2.9	4
39	Experimental analysis of binary and ternary polymer blends of nanochitosan. <i>Materials Today: Proceedings</i> , 2016, 3, 2169-2177.	0.9	3
40	Removal of toxic heavy metal Cd(II) and Cu(II) ions using glutaraldehyde-cross-linked KFC/CNT/PVA ternary blend. <i>Biomass Conversion and Biorefinery</i> , 2023, 13, 13381-13391.	2.9	3
41	Crosslinked chitosan oligosaccharide-based binary and ternary blends for the removal of Cu(II) ions. <i>International Journal of Environmental Science and Technology</i> , 0, , 1.	1.8	2
42	Adsorption of copper (II) and nickel (II) ions from metal solution using graft copolymer of cellulose extracted from the sisal fiber with acrylonitrile monomer. , 2013, , .		1
43	Removal of Copper(II) Ion using Nanochitosan/Carboxymethyl Cellulose/Grapheme Oxide Composite Biosorbent. <i>Asian Journal of Chemistry</i> , 2022, 34, 1465-1471.	0.1	1
44	Marine Biomaterials as Antifouling Agent. , 2015, , 1181-1192.		0
45	Equilibrium Adsorption and Kinetics Studies on Removal of Chromium and Copper onto Chitosan-g-Maleic Anhydride-g-Styrene. <i>Asian Journal of Chemistry</i> , 2016, 28, 2057-2062.	0.1	0
46	Removal of Copper(II) and Nickel(II) Using Binary Biopolymer Bead. <i>Asian Journal of Chemistry</i> , 2016, 28, 2063-2068.	0.1	0
47	Biological Applications of Biosilica/Silk Fibroin/Polyurethane (1:3:1) Composite. <i>Asian Journal of Chemistry</i> , 2022, 34, 1881-1885.	0.1	0