

A Gnanamani

List of Publications by Year in descending order

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Version: 2024-02-01

49
papers

1,399
citations

361413

20
h-index

330143

37
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all docs

49
docs citations

49
times ranked

2391
citing authors

#	ARTICLE	IF	CITATIONS
1	Treatment of textile wastewater by homogeneous and heterogeneous Fenton oxidation processes. <i>Desalination</i> , 2011, 281, 438-445.	8.2	218
2	Synthesis and characterization of chitosan-TiO ₂ :Cu nanocomposite and their enhanced antimicrobial activity with visible light. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 148, 566-575.	5.0	78
3	Potential use of curcumin loaded carboxymethylated guar gum grafted gelatin film for biomedical applications. <i>International Journal of Biological Macromolecules</i> , 2015, 75, 437-446.	7.5	76
4	Preparation of guar gum scaffold film grafted with ethylenediamine and fish scale collagen, cross-linked with ceftazidime for wound healing application. <i>Carbohydrate Polymers</i> , 2016, 153, 573-581.	10.2	73
5	Studies on Cross-linking of succinic acid with chitosan/collagen. <i>Materials Research</i> , 2013, 16, 755-765.	1.3	69
6	pH and redox sensitive albumin hydrogel: A self-derived biomaterial. <i>Scientific Reports</i> , 2015, 5, 15977.	3.3	67
7	Microbial products (biosurfactant and extracellular chromate reductase) of marine microorganism are the potential agents reduce the oxidative stress induced by toxic heavy metals. <i>Colloids and Surfaces B: Biointerfaces</i> , 2010, 79, 334-339.	5.0	65
8	Curcumin loaded nano graphene oxide reinforced fish scale collagen " a 3D scaffold biomaterial for wound healing applications. <i>RSC Advances</i> , 2015, 5, 98653-98665.	3.6	63
9	Preparation and characterization of a thermostable and biodegradable biopolymers using natural cross-linker. <i>International Journal of Biological Macromolecules</i> , 2011, 48, 276-285.	7.5	51
10	Surface active gold nanoparticles biosynthesis by new approach for bionanocatalytic activity. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2018, 179, 119-125.	3.8	48
11	Biodegradability of leathers through anaerobic pathway. <i>Waste Management</i> , 2007, 27, 760-767.	7.4	42
12	Efficacy of free and encapsulated <i>Bacillus licheniformis</i> strain SL10 on degradation of phenol: A comparative study of degradation kinetics. <i>Journal of Environmental Management</i> , 2017, 197, 373-383.	7.8	40
13	Rejoining of cut wounds by engineered gelatin"keratin glue. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2013, 1830, 4030-4039.	2.4	31
14	In vitro and in vivo assessments of a 3-(3,4-dihydroxyphenyl)-2-propenoic acid bioconjugated gelatin-based injectable hydrogel for biomedical applications. <i>Journal of Materials Chemistry B</i> , 2015, 3, 1230-1244.	5.8	30
15	Preparation and characterization of malonic acid cross-linked chitosan and collagen 3D scaffolds: an approach on non-covalent interactions. <i>Journal of Materials Science: Materials in Medicine</i> , 2012, 23, 1309-1321.	3.6	29
16	Could glutaric acid (GA) replace glutaraldehyde in the preparation of biocompatible biopolymers with high mechanical and thermal properties?. <i>Journal of Chemical Sciences</i> , 2014, 126, 127-140.	1.5	28
17	Preparation, characterization and reusability efficacy of amine-functionalized graphene oxide-polyphenol oxidase complex for removal of phenol from aqueous phase. <i>RSC Advances</i> , 2018, 8, 38416-38424.	3.6	28
18	Engineering of chitosan and collagen macromolecules using sebacic acid for clinical applications. <i>Progress in Biomaterials</i> , 2013, 2, 11.	4.5	25

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19	Synthesis of a carboxymethylated guar gum grafted polyethyleneimine copolymer as an efficient gene delivery vehicle. RSC Advances, 2016, 6, 13730-13741.	3.6	22
20	<i>In vitro</i> profiling of antimethicillin-resistant <i>Staphylococcus aureus</i> activity of thymoquinone against selected type and clinical strains. Letters in Applied Microbiology, 2016, 62, 283-289.	2.2	21
21	Preparation, Characterization and Application of Leather Particulate-Polymer Composites (LPPCs). Journal of Polymers and the Environment, 2009, 17, 181-186.	5.0	20
22	<i>In vitro</i> antibacterial activity of plumbagin isolated from <i>Plumbago zeylanica</i> L. against methicillin-resistant <i>Staphylococcus aureus</i> . Letters in Applied Microbiology, 2019, 69, 41-49.	2.2	20
23	Di-carboxylic acid cross-linking interactions improves thermal stability and mechanical strength of reconstituted type I collagen. Journal of Thermal Analysis and Calorimetry, 2011, 105, 325-330.	3.6	19
24	Influence of biodigested slurry on rice-gram cultivation. Bioresource Technology, 1992, 41, 217-221.	9.6	18
25	Heterogeneous Fenton oxidation of dissolved organics in salt-laden wastewater from leather industry without sludge production. Environmental Chemistry Letters, 2011, 9, 499-504.	16.2	18
26	The Effect of Pimelic Acid Interaction on the Mechanical and Thermal Properties of Chitosan and Collagen. International Journal of Polymeric Materials and Polymeric Biomaterials, 2013, 62, 572-582.	3.4	18
27	Synthesis, characterization and biological profile of metal and azo-metal complexes of embelin. Complex Metals: an Open Access Journal, 2014, 1, 69-79.	0.6	17
28	Adipic acid interaction enhances the mechanical and thermal stability of natural polymers. Journal of Applied Polymer Science, 2012, 125, E490.	2.6	14
29	Engineered fish scale gelatin: An alternative and suitable biomaterial for tissue engineering. Journal of Bioactive and Compatible Polymers, 2018, 33, 332-346.	2.1	14
30	Exploring the UVB-protective efficacy of melanin precursor extracted from marine imperfect fungus: Featuring characterization and application studies under <i>in vitro</i> conditions. International Microbiology, 2018, 21, 59-71.	2.4	14
31	Bioinformatics in crosslinking chemistry of collagen with selective cross linkers. BMC Research Notes, 2011, 4, 399.	1.4	13
32	Redox responsive albumin autogenic nanoparticles for the delivery of cancer drugs. Colloids and Surfaces B: Biointerfaces, 2017, 152, 393-405.	5.0	13
33	Marine fungal DHICA as a UVB protectant: Assessment under <i>in vitro</i> and <i>in vivo</i> conditions. Journal of Photochemistry and Photobiology B: Biology, 2018, 179, 139-148.	3.8	13
34	Synthesis, antibacterial and antifungal activities of some N-nitroso-2,6-diarylpiperidin-4-one semicarbazones and QSAR analysis. Nitric Oxide - Biology and Chemistry, 2008, 19, 303-311.	2.7	12
35	<i>In vitro</i> biocompatibility and antimicrobial activity of chitin monomer obtain from hollow fiber membrane. Designed Monomers and Polymers, 2016, 19, 445-455.	1.6	12
36	Bonding interactions and stability assessment of biopolymer material prepared using type III collagen of avian intestine and anionic polysaccharides. Journal of Materials Science: Materials in Medicine, 2011, 22, 1419-1429.	3.6	10

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37	Oxidative destabilization of dissolved organics and E. coli in domestic wastewater through immobilized cell reactor system. Journal of Environmental Management, 2007, 84, 123-133.	7.8	8
38	Encapsulated enhanced silver nanoparticles biosynthesis by modified new route for nano-biocatalytic activity. Biocatalysis and Agricultural Biotechnology, 2019, 18, 101045.	3.1	8
39	Vesicle formation in hydrocarbons assisted with microbial hydrolases and biosurfactants. Colloids and Surfaces B: Biointerfaces, 2008, 67, 192-198.	5.0	7
40	Suberic Acid Acts as a Dissolving Agent as Well as a Crosslinker for Natural Polymers (Carbohydrate) Tj ETQqO 0 0 rgBT /Overlock 10 Tf 5 Macromolecular Science - Pure and Applied Chemistry, 2012, 49, 619-629.	2.2	6
41	QSAR and evaluation of molecular electrostatic potential for N-nitrosopiperidinone semicarbazones. Chemometrics and Intelligent Laboratory Systems, 2012, 116, 87-93.	3.5	5
42	Exploring the dual role of α,ω -di-carboxylic acids in the preparation of collagen based biomaterial. Journal of Porous Materials, 2013, 20, 647-661.	2.6	5
43	Pre-treatment of extracellular water soluble pigmented secondary metabolites of marine imperfect fungus protects HDF cells from UVB induced oxidative stress. Photochemical and Photobiological Sciences, 2018, 17, 1229-1238.	2.9	4
44	Preparation, characterization and cell response studies on bioconjugated 3D protein hydrogels with wide-range stiffness: An approach on cell therapy and cell storage. Colloids and Surfaces B: Biointerfaces, 2021, 205, 111843.	5.0	3
45	Induced oxidative stress management in wounds through phenolic acids engineered fibrous protein: An in vitro assessment using polymorphonuclear (PMN) cells. International Journal of Biological Macromolecules, 2017, 96, 485-493.	7.5	2
46	Gap closure of different shape wounds: <i>in vitro</i> and <i>in vivo</i> experimental models in the presence of engineered protein adhesive hydrogel. Journal of Tissue Engineering and Regenerative Medicine, 2019, 13, 174-178.	2.7	2
47	Biotransformation of soybean oil to a self-healing biopolymer. Biocatalysis and Biotransformation, 2015, 33, 29-37.	2.0	0
48	Engineered protein hydrogel for open wound management in Canines. Wound Medicine, 2018, 22, 32-36.	2.7	0
49	Fibrous protein composite scaffolds (3D) for tissue regeneration: An in vitro study on skeletal muscle regeneration. Colloids and Surfaces B: Biointerfaces, 2022, 217, 112656.	5.0	0