

Shiv Shankar

List of Publications by Year in descending order

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Version: 2024-02-01

68
papers

5,092
citations

101543

36
h-index

118850

62
g-index

69
all docs

69
docs citations

69
times ranked

5292
citing authors

#	ARTICLE	IF	CITATIONS
1	Preparation, characterization, and antimicrobial activity of gelatin/ZnO nanocomposite films. <i>Food Hydrocolloids</i> , 2015, 45, 264-271.	10.7	333
2	Preparation of nanocellulose from micro-crystalline cellulose: The effect on the performance and properties of agar-based composite films. <i>Carbohydrate Polymers</i> , 2016, 135, 18-26.	10.2	276
3	Incorporation of zinc oxide nanoparticles improved the mechanical, water vapor barrier, UV-light barrier, and antibacterial properties of PLA-based nanocomposite films. <i>Materials Science and Engineering C</i> , 2018, 93, 289-298.	7.3	229
4	Amino acid mediated synthesis of silver nanoparticles and preparation of antimicrobial agar/silver nanoparticles composite films. <i>Carbohydrate Polymers</i> , 2015, 130, 353-363.	10.2	225
5	Preparation, characterization, and antimicrobial activity of chitin nanofibrils reinforced carrageenan nanocomposite films. <i>Carbohydrate Polymers</i> , 2015, 117, 468-475.	10.2	223
6	Preparation and characterization of agar/lignin/silver nanoparticles composite films with ultraviolet light barrier and antibacterial properties. <i>Food Hydrocolloids</i> , 2017, 71, 76-84.	10.7	190
7	Melanin-mediated synthesis of silver nanoparticle and its use for the preparation of carrageenan-based antibacterial films. <i>Food Hydrocolloids</i> , 2019, 88, 237-246.	10.7	189
8	Preparation of sulfur nanoparticle-incorporated antimicrobial chitosan films. <i>Food Hydrocolloids</i> , 2018, 82, 116-123.	10.7	172
9	Preparation of antimicrobial agar/banana powder blend films reinforced with silver nanoparticles. <i>Food Hydrocolloids</i> , 2016, 60, 476-485.	10.7	155
10	Properties and characterization of agar/CuNP bionanocomposite films prepared with different copper salts and reducing agents. <i>Carbohydrate Polymers</i> , 2014, 114, 484-492.	10.2	142
11	Synthesis, characterization, in vitro biocompatibility, and antimicrobial activity of gold, silver and gold silver alloy nanoparticles prepared from <i>Lansium domesticum</i> fruit peel extract. <i>Materials Letters</i> , 2014, 137, 75-78.	2.6	136
12	Multifunctional nanocellulose/metal and metal oxide nanoparticle hybrid nanomaterials. <i>Critical Reviews in Food Science and Nutrition</i> , 2020, 60, 435-460.	10.3	135
13	Preparation and properties of carbohydrate-based composite films incorporated with CuO nanoparticles. <i>Carbohydrate Polymers</i> , 2017, 169, 264-271.	10.2	134
14	Preparation of poly(lactide)/lignin/silver nanoparticles composite films with UV light barrier and antibacterial properties. <i>International Journal of Biological Macromolecules</i> , 2018, 107, 1724-1731.	7.5	134
15	Effect of lignin on water vapor barrier, mechanical, and structural properties of agar/lignin composite films. <i>International Journal of Biological Macromolecules</i> , 2015, 81, 267-273.	7.5	133
16	Preparation of pectin/silver nanoparticles composite films with UV-light barrier and properties. <i>International Journal of Biological Macromolecules</i> , 2016, 92, 842-849.	7.5	133
17	Properties of alginate-based films reinforced with cellulose fibers and cellulose nanowhiskers isolated from mulberry pulp. <i>Food Hydrocolloids</i> , 2017, 63, 201-208.	10.7	129
18	Carrageenan-based functional hydrogel film reinforced with sulfur nanoparticles and grapefruit seed extract for wound healing application. <i>Carbohydrate Polymers</i> , 2019, 224, 115191.	10.2	116

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19	Effect of copper salts and reducing agents on characteristics and antimicrobial activity of copper nanoparticles. <i>Materials Letters</i> , 2014, 132, 307-311.	2.6	97
20	Effect of melanin nanoparticles on the mechanical, water vapor barrier, and antioxidant properties of gelatin-based films for food packaging application. <i>Food Packaging and Shelf Life</i> , 2019, 21, 100363.	7.5	97
21	Alginate-based nanocomposite films reinforced with halloysite nanotubes functionalized by alkali treatment and zinc oxide nanoparticles. <i>International Journal of Biological Macromolecules</i> , 2018, 118, 1824-1832.	7.5	96
22	Tocopherol-mediated synthesis of silver nanoparticles and preparation of antimicrobial PBAT/silver nanoparticles composite films. <i>LWT - Food Science and Technology</i> , 2016, 72, 149-156.	5.2	95
23	Antimicrobial wrapping paper coated with a ternary blend of carbohydrates (alginate, carboxymethyl) Tj ETQq1 1 0.784314 rgBT /Ove	10.2	86
24	Preparation of sulfur nanoparticles and their antibacterial activity and cytotoxic effect. <i>Materials Science and Engineering C</i> , 2018, 92, 508-517.	7.3	82
25	Effect of chitosan/essential oils/silver nanoparticles composite films packaging and gamma irradiation on shelf life of strawberries. <i>Food Hydrocolloids</i> , 2021, 117, 106750.	10.7	78
26	Preparations and characterization of alginate/silver composite films: Effect of types of silver particles. <i>Carbohydrate Polymers</i> , 2016, 146, 208-216.	10.2	74
27	Preparation of antimicrobial hybrid nano-materials using regenerated cellulose and metallic nanoparticles. <i>International Journal of Biological Macromolecules</i> , 2018, 107, 17-27.	7.5	73
28	Preparation of antibacterial poly(lactide)/poly(butylene adipate-co-terephthalate) composite films incorporated with grapefruit seed extract. <i>International Journal of Biological Macromolecules</i> , 2018, 120, 846-852.	7.5	70
29	Purification and characterization of an alkaline protease by a new strain of <i>Beauveria</i> sp. <i>Process Biochemistry</i> , 2011, 46, 579-585.	3.7	65
30	Lignin-mediated green synthesis of AgNPs in carrageenan matrix for wound dressing applications. <i>International Journal of Biological Macromolecules</i> , 2020, 159, 859-869.	7.5	65
31	Effects of preparation method on properties of poly(butylene adipate-co-terephthalate) films. <i>Food Science and Biotechnology</i> , 2015, 24, 1679-1685.	2.6	59
32	Facile approach for large-scale production of metal and metal oxide nanoparticles and preparation of antibacterial cotton pads. <i>Carbohydrate Polymers</i> , 2017, 163, 137-145.	10.2	57
33	Effect of types of zinc oxide nanoparticles on structural, mechanical and antibacterial properties of poly(lactide)/poly(butylene adipate-co-terephthalate) composite films. <i>Food Packaging and Shelf Life</i> , 2019, 21, 100327.	7.5	54
34	Effect of reducing agent concentrations and temperature on characteristics and antimicrobial activity of silver nanoparticles. <i>Materials Letters</i> , 2014, 137, 160-163.	2.6	52
35	New insight into sulfur nanoparticles: Synthesis and applications. <i>Critical Reviews in Environmental Science and Technology</i> , 2021, 51, 2329-2356.	12.8	45
36	Eco-friendly synthesis of silver nanoparticles using <i>Senna alata</i> bark extract and its antimicrobial mechanism through enhancement of bacterial membrane degradation. <i>Journal of Microbiological Methods</i> , 2019, 165, 105692.	1.6	43

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37	Comparative antibacterial and antifungal activities of sulfur nanoparticles capped with chitosan. <i>Microbial Pathogenesis</i> , 2020, 144, 104178.	2.9	43
38	Effects of poly(butylene adipate-co-terephthalate) coating on the water resistant, mechanical, and antibacterial properties of Kraft paper. <i>Progress in Organic Coatings</i> , 2018, 123, 153-159.	3.9	38
39	Effect of Zn salts and hydrolyzing agents on the morphology and antibacterial activity of zinc oxide nanoparticles. <i>Environmental Chemistry Letters</i> , 2019, 17, 1105-1109.	16.2	38
40	Wound healing potential of green synthesized silver nanoparticles prepared from <i>Lansium domesticum</i> fruit peel extract. <i>Materials Express</i> , 2015, 5, 159-164.	0.5	37
41	Development of antimicrobial films based on poly(lactic acid) incorporated with <i>Thymus vulgaris</i> essential oil and ethanolic extract of Mediterranean propolis. <i>International Journal of Biological Macromolecules</i> , 2021, 185, 535-542.	7.5	36
42	Charge-switchable gold nanoparticles for enhanced enzymatic thermostability. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 21517-21524.	2.8	34
43	One-step preparation of banana powder/silver nanoparticles composite films. <i>Journal of Food Science and Technology</i> , 2017, 54, 497-506.	2.8	33
44	Bionanocomposite Films for Food Packaging Applications. , 2018, , .		32
45	In situ synthesis of multi-functional gelatin/resorcinol/silver nanoparticles composite films. <i>Food Packaging and Shelf Life</i> , 2019, 22, 100399.	7.5	30
46	Advantages of nanotechnology developments in active food packaging. <i>Food Research International</i> , 2022, 154, 111023.	6.2	30
47	Antibacterial LDPE/GSE/Mel/ZnONP composite film-coated wrapping paper for convenience food packaging application. <i>Food Packaging and Shelf Life</i> , 2019, 22, 100421.	7.5	28
48	Effects of <i>Rhodomyrtus tomentosa</i> Leaf Extract on Staphylococcal Adhesion and Invasion in Bovine Udder Epidermal Tissue Model. <i>Nutrients</i> , 2015, 7, 8503-8517.	4.1	25
49	In situ synthesis of silver nanoparticles in pectin matrix using gamma irradiation for the preparation of antibacterial pectin/silver nanoparticles composite films. <i>Food Hydrocolloids</i> , 2021, 121, 107000.	10.7	24
50	Applications of nanotechnology in food microbiology. <i>Methods in Microbiology</i> , 2019, 46, 43-60.	0.8	21
51	Preparation of polypropylene/poly (butylene adipate-co-terephthalate) composite films incorporated with melanin for prevention of greening of potatoes. <i>Packaging Technology and Science</i> , 2020, 33, 433-441.	2.8	18
52	Green synthesis of silver nanoribbons from waste X-ray films using alkaline protease. <i>Materials Express</i> , 2015, 5, 165-170.	0.5	17
53	Polymers from Biomass: Characterization, Modification, Degradation, and Applications. <i>International Journal of Polymer Science</i> , 2016, 2016, 1-2.	2.7	15
54	Eco-friendly antimicrobial nanoparticles of keratin-metal ion complex. <i>Materials Science and Engineering C</i> , 2019, 105, 110068.	7.3	15

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55	Biophysicochemical Characterization of an Alkaline Protease from <i>Beauveria</i> sp. MTCC 5184 with Multiple Applications. <i>Applied Biochemistry and Biotechnology</i> , 2015, 175, 589-602.	2.9	13
56	Novel spider web trap approach based on chitosan/cellulose nanocrystals/glycerol membrane for the detection of <i>Escherichia coli</i> O157:H7 on food surfaces. <i>International Journal of Biological Macromolecules</i> , 2020, 146, 1009-1014.	7.5	12
57	Metallic nanoparticles augmented the antibacterial potency of <i>Rhodomyrtus tomentosa</i> acetone extract against <i>Escherichia coli</i> . <i>Microbial Pathogenesis</i> , 2017, 107, 181-184.	2.9	11
58	Development of support based on chitosan and cellulose nanocrystals for the immobilization of anti-Shiga toxin 2B antibody. <i>Carbohydrate Polymers</i> , 2020, 232, 115785.	10.2	11
59	Experimental infection of <i>Aphanomyces invadans</i> and susceptibility in seven species of tropical fish. <i>Veterinary World</i> , 2015, 8, 1038-1044.	1.7	11
60	Bio-Nanocomposites for Food Packaging Applications. , 2020, , 29-41.		4
61	Mixture design methodology and predictive modeling for developing active formulations using essential oils and citrus extract against foodborne pathogens and spoilage microorganisms in rice. <i>Journal of Food Science</i> , 2022, 87, 353-369.	3.1	4
62	Subtilase from <i>Beauveria</i> sp.: conformational and functional investigation of unusual stability. <i>European Biophysics Journal</i> , 2014, 43, 393-403.	2.2	3
63	Bionanocomposite Films for Food Packaging Applications. , 2018, , 234-243.		3
64	DETERMINATION AND DISTRIBUTION OF CRY1-TYPE GENES IN <i>Bacillus thuringiensis</i> ISOLATED FROM NORTH INDIA. <i>Environmental Engineering and Management Journal</i> , 2018, 17, 621-630.	0.6	1
65	Radiosensitivity of Feline Calicivirus F9 on Iceberg Lettuce Surface after Combined Treatments with β -Radiation. <i>Journal of Food Protection</i> , 2020, 83, 2134-2146.	1.7	1
66	Green synthesis of silver nanoparticles as antibacterial agent using <i>Rhodomyrtus tomentosa</i> acetone extract. , 2013, , .		0
67	IMMOBILIZATION OF <i>CONIDILOBOLUS CORONATUS</i> ALKALINE PROTEASE ON WASTE FUNGAL BIOMASS. <i>Environmental Engineering and Management Journal</i> , 2011, 10, 1727-1732.	0.6	0
68	Polysaccharide-based nanomaterials. , 2022, , 95-111.		0