

Swarup Roy

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

87

papers

1,978

citations

26

h-index

40

g-index

96

ext. papers

3,210

ext. citations

5

avg. IF

6.86

L-index

#	Paper	IF	Citations
87	Carboxymethyl cellulose-based antioxidant and antimicrobial active packaging film incorporated with curcumin and zinc oxide. <i>International Journal of Biological Macromolecules</i> , 2020 , 148, 666-676	7.9	125
86	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	10.6	120
85	Carrageenan-based antimicrobial bionanocomposite films incorporated with ZnO nanoparticles stabilized by melanin. <i>Food Hydrocolloids</i> , 2019 , 90, 500-507	10.6	95
84	Preparation of carbohydrate-based functional composite films incorporated with curcumin. <i>Food Hydrocolloids</i> , 2020 , 98, 105302	10.6	84
83	Preparation of antimicrobial and antioxidant gelatin/curcumin composite films for active food packaging application. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020 , 188, 110761	6	82
82	Agar-based antioxidant composite films incorporated with melanin nanoparticles. <i>Food Hydrocolloids</i> , 2019 , 94, 391-398	10.6	70
81	Anthocyanin food colorant and its application in pH-responsive color change indicator films. <i>Critical Reviews in Food Science and Nutrition</i> , 2021 , 61, 2297-2325	11.5	67
80	Bioactive agar-based functional composite film incorporated with copper sulfide nanoparticles. <i>Food Hydrocolloids</i> , 2019 , 93, 156-166	10.6	64
79	Preparation of bioactive functional poly(lactic acid)/curcumin composite film for food packaging application. <i>International Journal of Biological Macromolecules</i> , 2020 , 162, 1780-1789	7.9	58
78	Preparation and characterization of synthetic melanin-like nanoparticles reinforced chitosan nanocomposite films. <i>Carbohydrate Polymers</i> , 2020 , 231, 115729	10.3	55
77	Microbial biosynthesis of nontoxic gold nanoparticles. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2016 , 203, 41-51	3.1	51
76	Preparation of carrageenan-based functional nanocomposite films incorporated with melanin nanoparticles. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019 , 176, 317-324	6	48
75	Binding interaction of phosphorus heterocycles with bovine serum albumin: A biochemical study. <i>Journal of Pharmaceutical Analysis</i> , 2017 , 7, 19-26	14	46
74	Interaction studies between biosynthesized silver nanoparticle with calf thymus DNA and cytotoxicity of silver nanoparticles. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015 , 141, 176-84	4.4	43
73	Fast electrochromic display: tetrathiafulvalene-graphene nanoflake as facilitating materials. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 9504-9512	7.1	35
72	Preparation of Gelatin/Carrageenan-Based Color-Indicator Film Integrated with Shikonin and Propolis for Smart Food Packaging Applications. <i>ACS Applied Bio Materials</i> , 2021 , 4, 770-779	4.1	35
71	Effect of CuS reinforcement on the mechanical, water vapor barrier, UV-light barrier, and antibacterial properties of alginate-based composite films. <i>International Journal of Biological Macromolecules</i> , 2020 , 164, 37-44	7.9	33

70	Antioxidant and antimicrobial poly(vinyl alcohol)-based films incorporated with grapefruit seed extract and curcumin. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 104694	6.8	33
69	Interfacial redox centers as origin of color switching in organic electrochromic device. <i>Optical Materials</i> , 2017 , 66, 65-71	3.3	32
68	Amplification or cancellation of Fano resonance and quantum confinement induced asymmetries in Raman line-shapes. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 31788-31795	3.6	32
67	Incorporation of melanin nanoparticles improves UV-shielding, mechanical and antioxidant properties of cellulose nanofiber based nanocomposite films. <i>Materials Today Communications</i> , 2020 , 24, 100984	2.5	31
66	Spectral Anomaly in Raman Scattering from p-Type Silicon Nanowires. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 5372-5378	3.8	28
65	Spectroscopic studies of interaction between biologically synthesized silver nanoparticles and bovine serum albumin. <i>Journal of Nanoscience and Nanotechnology</i> , 2014 , 14, 4899-905	1.3	27
64	Study of Interaction Between Tryptophan, Tyrosine, and Phenylalanine Separately with Silver Nanoparticles by Fluorescence Quenching Method. <i>Journal of Applied Spectroscopy</i> , 2015 , 82, 598-606	0.7	26
63	Interaction of biosynthesized gold nanoparticles with BSA and CTDNA: A multi-spectroscopic approach. <i>Polyhedron</i> , 2016 , 115, 111-118	2.7	26
62	Fabrication of bioactive binary composite film based on gelatin/chitosan incorporated with cinnamon essential oil and rutin. <i>Colloids and Surfaces B: Biointerfaces</i> , 2021 , 204, 111830	6	26
61	Fabrication of cellulose nanofiber-based functional color indicator film incorporated with shikonin extracted from <i>Lithospermum erythrorhizon</i> root. <i>Food Hydrocolloids</i> , 2021 , 114, 106566	10.6	24
60	Cellulose Nanofiber-Based Nanocomposite Films Reinforced with Zinc Oxide Nanorods and Grapefruit Seed Extract. <i>Nanomaterials</i> , 2021 , 11,	5.4	23
59	New insight into melanin for food packaging and biotechnology applications. <i>Critical Reviews in Food Science and Nutrition</i> , 2021 , 1-27	11.5	23
58	Melanin-Mediated Synthesis of Copper Oxide Nanoparticles and Preparation of Functional Agar/CuO NP Nanocomposite Films. <i>Journal of Nanomaterials</i> , 2019 , 2019, 1-10	3.2	21
57	Fabrication of pectin/agar blended functional film: Effect of reinforcement of melanin nanoparticles and grapefruit seed extract. <i>Food Hydrocolloids</i> , 2021 , 118, 106823	10.6	21
56	Synthesis of Carboxymethyl Cellulose and Agar-Based Multifunctional Films Reinforced with Cellulose Nanocrystals and Shikonin. <i>ACS Applied Polymer Materials</i> , 2021 , 3, 1060-1069	4.3	20
55	Fabrication of chitosan-based functional nanocomposite films: Effect of quercetin-loaded chitosan nanoparticles. <i>Food Hydrocolloids</i> , 2021 , 121, 107065	10.6	20
54	Tannic-Acid-Cross-Linked and TiO ₂ -Nanoparticle-Reinforced Chitosan-Based Nanocomposite Film. <i>Polymers</i> , 2021 , 13,	4.5	20
53	Synthesis of Conducting Polypyrrole-Titanium Oxide Nanocomposite: Study of Structural, Optical and Electrical Properties. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2017 , 27, 257-263	2.3	18

52	Ecofriendly gold nanoparticles - Lysozyme interaction: Thermodynamical perspectives. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2017 , 174, 284-290	6.7	18
51	Gelatin/agar-based functional film integrated with Pickering emulsion of clove essential oil stabilized with nanocellulose for active packaging applications. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021 , 627, 127220	5.1	18
50	Curcumin and its uses in active and smart food packaging applications - a comprehensive review.. <i>Food Chemistry</i> , 2021 , 375, 131885	8.5	17
49	Fabrication of Copper Sulfide Nanoparticles and Limonene Incorporated Pullulan/Carrageenan-Based Film with Improved Mechanical and Antibacterial Properties. <i>Polymers</i> , 2020 , 12,	4.5	17
48	Live spectroscopy to observe electrochromism in viologen based solid state device. <i>Solid State Communications</i> , 2017 , 261, 17-20	1.6	16
47	Binding behaviors of greenly synthesized silver nanoparticles [Lysozyme interaction: Spectroscopic approach. <i>Journal of Molecular Structure</i> , 2018 , 1154, 145-151	3.4	16
46	An insight of binding interaction between Tryptophan, Tyrosine and Phenylalanine separately with green gold nanoparticles by fluorescence quenching method. <i>Optik</i> , 2017 , 138, 280-288	2.5	15
45	Gelatin/Carrageenan-Based Functional Films with Carbon Dots from Enoki Mushroom for Active Food Packaging Applications. <i>ACS Applied Polymer Materials</i> ,	4.3	15
44	Process optimization for biosynthesis of mono and bimetallic alloy nanoparticle catalysts for degradation of dyes in individual and ternary mixture. <i>Scientific Reports</i> , 2020 , 10, 277	4.9	13
43	Biosynthesis of Silver Nanoparticles by <i>Aspergillus foetidus</i> : Optimization of Physicochemical Parameters. <i>Nanoscience and Nanotechnology Letters</i> , 2014 , 6, 181-189	0.8	13
42	Effect of chitosan modified halloysite on the physical and functional properties of pullulan/chitosan biofilm integrated with rutin. <i>Applied Clay Science</i> , 2021 , 211, 106205	5.2	13
41	Preparation of pectin/agar-based functional films integrated with zinc sulfide nano petals for active packaging applications. <i>Colloids and Surfaces B: Biointerfaces</i> , 2021 , 207, 111999	6	12
40	Investigation of Interaction Between Casein Enzyme Hydrolysate and Biosynthesized Silver Nanoparticles by Spectroscopy. <i>Nanoscience and Nanotechnology Letters</i> , 2014 , 6, 547-554	0.8	11
39	Fabrication of Carboxymethyl Cellulose/Agar-Based Functional Films Hybridized with Alizarin and Grapefruit Seed Extract.. <i>ACS Applied Bio Materials</i> , 2021 , 4, 4470-4478	4.1	11
38	Effect of blended colorants of anthocyanin and shikonin on carboxymethyl cellulose/agar-based smart packaging film. <i>International Journal of Biological Macromolecules</i> , 2021 , 183, 305-315	7.9	11
37	Antimicrobial nanofillers reinforced biopolymer composite films for active food packaging applications - a review. <i>Sustainable Materials and Technologies</i> , 2021 , e00353	5.3	10
36	Curcumin Incorporated Poly(Butylene Adipate-co-Terephthalate) Film with Improved Water Vapor Barrier and Antioxidant Properties. <i>Materials</i> , 2020 , 13,	3.5	10
35	Effect of biosynthesized silver nanoparticles on the growth and some biochemical parameters of @@ <i>Aspergillus foetidus</i> . <i>Journal of Environmental Chemical Engineering</i> , 2016 , 4, 1574-1583	6.8	9

34	Preparation of turmeric-derived sulfur-functionalized carbon dots: antibacterial and antioxidant activity. <i>Journal of Materials Science</i> ,1	4.3	9
33	Pectin/gelatin-based bioactive composite films reinforced with sulfur functionalized carbon dots. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022 , 636, 128123	5.1	9
32	Gelatin/agar-based color-indicator film integrated with Clitoria ternatea flower anthocyanin and zinc oxide nanoparticles for monitoring freshness of shrimp. <i>Food Hydrocolloids</i> , 2022 , 124, 107294	10.6	9
31	Effects of various types of cellulose nanofibers on the physical properties of the CNF-based films. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 106043	6.8	9
30	Preparation and characterization of B, S, and N-doped glucose carbon dots: Antibacterial, antifungal, and antioxidant activity. <i>Sustainable Materials and Technologies</i> , 2022 , 32, e00397	5.3	8
29	Development of Multifunctional Pullulan/Chitosan-Based Composite Films Reinforced with ZnO Nanoparticles and Propolis for Meat Packaging Applications. <i>Foods</i> , 2021 , 10,	4.9	8
28	Silver loaded aminosilane modified halloysite for the preparation of carrageenan-based functional films. <i>Applied Clay Science</i> , 2021 , 211, 106170	5.2	8
27	Carrageenan/agar-based functional film integrated with zinc sulfide nanoparticles and Pickering emulsion of tea tree essential oil for active packaging applications. <i>International Journal of Biological Macromolecules</i> , 2021 , 193, 2038-2038	7.9	7
26	Gelatin-Based Film Integrated with Copper Sulfide Nanoparticles for Active Packaging Applications. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 6307	2.6	7
25	Report of Interaction Between Calf Thymus DNA and Pyrimidine-Annulated Spiro-Dihydrofuran. <i>Biochemistry and Analytical Biochemistry: Current Research</i> , 2016 , 5,		7
24	Evidence of bovine serum albumin-viologen herbicide binding interaction and associated structural modifications. <i>Journal of Molecular Structure</i> , 2017 , 1139, 447-454	3.4	6
23	Studies Of The Interaction Of Bovine Serum Albumin With Pyrimidine-Annulated Spiro-Dihydrofuran And Its Biological Activities. <i>Advanced Materials Letters</i> , 2015 , 6, 1018-1024	2.4	6
22	Enhanced functionality of green synthesized sulfur nanoparticles using kiwifruit (<i>Actinidia deliciosa</i>) peel polyphenols as capping agents. <i>Journal of Nanostructure in Chemistry</i> ,1	7.6	6
21	Tent-Shaped Surface Morphologies of Silicon: Texturization by Metal Induced Etching. <i>Silicon</i> , 2018 , 10, 2801-2807	2.4	5
20	The Interaction of Biosynthesized Gold Nanoparticles with Casein Enzyme Hydrolysate. <i>Journal of Bionanoscience</i> , 2015 , 9, 424-430		5
19	Polypyrrole/ Vanadium oxide nanocomposite: polymer dominates crystallinity and oxide dominates conductivity. <i>Applied Physics A: Materials Science and Processing</i> , 2018 , 124, 1	2.6	4
18	Green Synthesized Gold Nanoparticles: Study of Antimicrobial Activity. <i>Journal of Bionanoscience</i> , 2017 , 11, 131-135		4
17	Ecological safety with multifunctional applications of biogenic mono and bimetallic (Au-Ag) alloy nanoparticles. <i>Chemosphere</i> , 2021 , 288, 132585	8.4	4

16	Preparation of low-density polyethylene- and poly (lactide)/poly (butylene adipate-co-terephthalate)-based antibacterial films integrated with elemental sulfur and sulfur nanoparticles. <i>Packaging Technology and Science</i> , 2021 , 34, 505	2.3	4
15	Gelatin/cellulose nanofiber-based functional films added with mushroom-mediated sulfur nanoparticles for active packaging applications. <i>Journal of Nanostructure in Chemistry</i> , 1	7.6	4
14	Spectroscopic Evidence of Phosphorous Heterocycle-DNA Interaction and its Verification by Docking Approach. <i>Journal of Fluorescence</i> , 2018 , 28, 373-380	2.4	3
13	Synthesis and standardization of biologically synthesized silver nanoparticles 2013 ,		3
12	Biophysical Study On The Interaction Of Spirooxindole-Annulated Thiopyran Derivatives With Bovine Serum Albumin Using Spectroscopic And Docking Methods. <i>Advanced Materials Letters</i> , 2015 , 6, 913-919	2.4	3
11	Binding affinity of pyrano[3, 2-f]quinoline and DNA: spectroscopic and docking approach. <i>Journal of Biomolecular Structure and Dynamics</i> , 2018 , 36, 3869-3877	3.6	3
10	Probing the binding interaction of lysozyme-viologen herbicide. <i>Journal of Molecular Structure</i> , 2018 , 1171, 1-8	3.4	3
9	Genipin-Crosslinked Gelatin/Chitosan-Based Functional Films Incorporated with Rosemary Essential Oil and Quercetin. <i>Materials</i> , 2022 , 15, 3769	3.5	3
8	Construction of well aligned highly dense Cobalt nanoneedles for efficient device application. <i>Advances in Materials and Processing Technologies</i> , 2017 , 3, 627-631	0.8	2
7	Effect of Silver Nanoparticles on Vitamin C by Analyzing the Change of Photoluminescence Spectrum of Vitamin C. <i>Advanced Science, Engineering and Medicine</i> , 2014 , 6, 1105-1110	0.6	2
6	Structural and optical properties of polyaniline-green silver nanocomposite. <i>Advances in Materials and Processing Technologies</i> , 2019 , 5, 172-180	0.8	2
5	Antiviral Biodegradable Food Packaging and Edible Coating Materials in the COVID-19 Era: A Mini-Review. <i>Coatings</i> , 2022 , 12, 577	2.9	2
4	An insight of spirooxindole-annulated thiopyran DNA interaction: spectroscopic and docking approach of these biological materials. <i>Advances in Materials and Processing Technologies</i> , 2017 , 3, 339-352	0.8	1
3	Analysis of binding affinity of biologically active material spiro-pyrimidine and DNA: a spectroscopic approach. <i>Advances in Materials and Processing Technologies</i> , 2019 , 5, 360-370	0.8	1
2	Alginate Biofunctional Films Modified with Melanin from Watermelon Seeds and Zinc Oxide/Silver Nanoparticles.. <i>Materials</i> , 2022 , 15,	3.5	1
1	A Facile In Situ Synthesis of Resorcinol-Mediated Silver Nanoparticles and the Fabrication of Agar-Based Functional Nanocomposite Films. <i>Journal of Composites Science</i> , 2022 , 6, 124	3	0