

# Swarup Roy

## List of Publications by Year in descending order

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94  
papers

4,537  
citations

76294

40  
h-index

110317

64  
g-index

96  
all docs

96  
docs citations

96  
times ranked

2650  
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	3.6	275
2	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.	5.4	263
3	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.	5.6	189
4	Preparation of antimicrobial and antioxidant gelatin/curcumin composite films for active food packaging application. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 188, 110761.	2.5	163
5	Preparation of carbohydrate-based functional composite films incorporated with curcumin. <i>Food Hydrocolloids</i> , 2020, 98, 105302.	5.6	156
6	Carrageenan-based antimicrobial bionanocomposite films incorporated with ZnO nanoparticles stabilized by melanin. <i>Food Hydrocolloids</i> , 2019, 90, 500-507.	5.6	155
7	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.	3.6	152
8	Agar-based antioxidant composite films incorporated with melanin nanoparticles. <i>Food Hydrocolloids</i> , 2019, 94, 391-398.	5.6	110
9	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.	2.3	104
10	Preparation and characterization of synthetic melanin-like nanoparticles reinforced chitosan nanocomposite films. <i>Carbohydrate Polymers</i> , 2020, 231, 115729.	5.1	101
11	Bioactive agar-based functional composite film incorporated with copper sulfide nanoparticles. <i>Food Hydrocolloids</i> , 2019, 93, 156-166.	5.6	97
12	Curcumin and its uses in active and smart food packaging applications - a comprehensive review. <i>Food Chemistry</i> , 2022, 375, 131885.	4.2	96
13	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.	2.5	87
14	Gelatin/agar-based color-indicator film integrated with <i>Clitoria ternatea</i> flower anthocyanin and zinc oxide nanoparticles for monitoring freshness of shrimp. <i>Food Hydrocolloids</i> , 2022, 124, 107294.	5.6	85
15	Preparation of carrageenan-based functional nanocomposite films incorporated with melanin nanoparticles. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 176, 317-324.	2.5	79
16	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.	2.3	79
17	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.	3.3	75
18	Gelatin/Carrageenan-Based Functional Films with Carbon Dots from Enoki Mushroom for Active Food Packaging Applications. <i>ACS Applied Polymer Materials</i> , 2021, 3, 6437-6445.	2.0	73

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19	Binding interaction of phosphorus heterocycles with bovine serum albumin: A biochemical study. <i>Journal of Pharmaceutical Analysis</i> , 2017, 7, 19-26.	2.4	71
20	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.	3.6	71
21	Fabrication of chitosan-based functional nanocomposite films: Effect of quercetin-loaded chitosan nanoparticles. <i>Food Hydrocolloids</i> , 2021, 121, 107065.	5.6	69
22	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.	3.6	64
23	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.	0.9	59
24	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.	2.0	59
25	Fabrication of pectin/agar blended functional film: Effect of reinforcement of melanin nanoparticles and grapefruit seed extract. <i>Food Hydrocolloids</i> , 2021, 118, 106823.	5.6	59
26	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, 176-184.	2.0	58
27	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.	5.6	58
28	New insight into melanin for food packaging and biotechnology applications. <i>Critical Reviews in Food Science and Nutrition</i> , 2022, 62, 4629-4655.	5.4	57
29	Cellulose Nanofiber-Based Nanocomposite Films Reinforced with Zinc Oxide Nanorods and Grapefruit Seed Extract. <i>Nanomaterials</i> , 2021, 11, 877.	1.9	57
30	Tannic-Acid-Cross-Linked and TiO <sub>2</sub> -Nanoparticle-Reinforced Chitosan-Based Nanocomposite Film. <i>Polymers</i> , 2021, 13, 228.	2.0	56
31	Microbial biosynthesis of nontoxic gold nanoparticles. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2016, 203, 41-51.	1.7	55
32	Fast electrochromic display: tetrathiafulvalene-graphene nanoflake as facilitating materials. <i>Journal of Materials Chemistry C</i> , 2017, 5, 9504-9512.	2.7	55
33	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.	3.3	55
34	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, 2038-2046.	3.6	55
35	Development of Multifunctional Pullulan/Chitosan-Based Composite Films Reinforced with ZnO Nanoparticles and Propolis for Meat Packaging Applications. <i>Foods</i> , 2021, 10, 2789.	1.9	54
36	Gelatin/agar-based multifunctional film integrated with copper-doped zinc oxide nanoparticles and clove essential oil Pickering emulsion for enhancing the shelf life of pork meat. <i>Food Research International</i> , 2022, 160, 111690.	2.9	50

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37	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.	2.3	48
38	Interfacial redox centers as origin of color switching in organic electrochromic device. <i>Optical Materials</i> , 2017, 66, 65-71.	1.7	45
39	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.	2.6	45
40	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.	1.5	42
41	Preparation of turmeric-derived sulfur-functionalized carbon dots: antibacterial and antioxidant activity. <i>Journal of Materials Science</i> , 2022, 57, 2941-2952.	1.7	42
42	Fabrication of Copper Sulfide Nanoparticles and Limonene Incorporated Pullulan/Carrageenan-Based Film with Improved Mechanical and Antibacterial Properties. <i>Polymers</i> , 2020, 12, 2665.	2.0	41
43	Gelatin-Based Film Integrated with Copper Sulfide Nanoparticles for Active Packaging Applications. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 6307.	1.3	41
44	Antimicrobial nanofillers reinforced biopolymer composite films for active food packaging applications - A review. <i>Sustainable Materials and Technologies</i> , 2022, 32, e00353.	1.7	40
45	Spectral Anomaly in Raman Scattering from p-Type Silicon Nanowires. <i>Journal of Physical Chemistry C</i> , 2017, 121, 5372-5378.	1.5	39
46	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.	0.3	38
47	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.	2.5	38
48	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.	2.3	37
49	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.	1.3	36
50	Curcumin Incorporated Poly(Butylene Adipate-co-Terephthalate) Film with Improved Water Vapor Barrier and Antioxidant Properties. <i>Materials</i> , 2020, 13, 4369.	1.3	36
51	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.	1.7	35
52	Spectroscopic Studies of Interaction Between Biologically Synthesized Silver Nanoparticles and Bovine Serum Albumin. <i>Journal of Nanoscience and Nanotechnology</i> , 2014, 14, 4899-4905.	0.9	33
53	Starch/agar-based functional films integrated with enoki mushroom-mediated silver nanoparticles for active packaging applications. <i>Food Bioscience</i> , 2022, 49, 101867.	2.0	33
54	Interaction of biosynthesized gold nanoparticles with BSA and CTDNA: A multi-spectroscopic approach. <i>Polyhedron</i> , 2016, 115, 111-118.	1.0	32

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55	Genipin-Crosslinked Gelatin/Chitosan-Based Functional Films Incorporated with Rosemary Essential Oil and Quercetin. <i>Materials</i> , 2022, 15, 3769.	1.3	30
56	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.	1.6	29
57	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.	1.9	26
58	Alginate Biofunctional Films Modified with Melanin from Watermelon Seeds and Zinc Oxide/Silver Nanoparticles. <i>Materials</i> , 2022, 15, 2381.	1.3	25
59	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.	1.4	24
60	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> , 2022, 12, 389-399.	5.3	23
61	Ecofriendly gold nanoparticles " Lysozyme interaction: Thermodynamical perspectives. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2017, 174, 284-290.	1.7	22
62	Live spectroscopy to observe electrochromism in viologen based solid state device. <i>Solid State Communications</i> , 2017, 261, 17-20.	0.9	21
63	Binding behaviors of greenly synthesized silver nanoparticles " Lysozyme interaction: Spectroscopic approach. <i>Journal of Molecular Structure</i> , 2018, 1154, 145-151.	1.8	19
64	Silver loaded aminosilane modified halloysite for the preparation of carrageenan-based functional films. <i>Applied Clay Science</i> , 2021, 211, 106170.	2.6	17
65	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.	3.3	16
66	Fabrication of Antioxidant and Antimicrobial Pullulan/Gelatin Films Integrated with Grape Seed Extract and Sulfur Nanoparticles. <i>ACS Applied Bio Materials</i> , 2022, 5, 2316-2323.	2.3	16
67	Gelatin/cellulose nanofiber-based functional films added with mushroom-mediated sulfur nanoparticles for active packaging applications. <i>Journal of Nanostructure in Chemistry</i> , 2022, 12, 979-990.	5.3	15
68	Biosynthesis of Silver Nanoparticles by <i>Aspergillus foetidus</i> : Optimization of Physicochemical Parameters. <i>Nanoscience and Nanotechnology Letters</i> , 2014, 6, 181-189.	0.4	14
69	Antiviral Biodegradable Food Packaging and Edible Coating Materials in the COVID-19 Era: A Mini-Review. <i>Coatings</i> , 2022, 12, 577.	1.2	14
70	Preparation of low-density polyethylene and poly (lactide)/poly (butylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 147 Td (adipate nanoparticles. <i>Packaging Technology and Science</i> , 2021, 34, 505-516.	1.3	13
71	Investigation of Interaction Between Casein Enzyme Hydrolysate and Biosynthesized Silver Nanoparticles by Spectroscopy. <i>Nanoscience and Nanotechnology Letters</i> , 2014, 6, 547-554.	0.4	13
72	Ecological safety with multifunctional applications of biogenic mono and bimetallic (Au"Ag) alloy nanoparticles. <i>Chemosphere</i> , 2022, 288, 132585.	4.2	10

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73	Tent-Shaped Surface Morphologies of Silicon: Texturization by Metal Induced Etching. Silicon, 2018, 10, 2801-2807.	1.8	8
74	Studies Of The Interaction Of Bovine Serum Albumin With Pyrimidine-annulated Spiro-dihydrofuran And Its Biological Activities. Advanced Materials Letters, 2015, 6, 1018-1024.	0.3	8
75	Report of Interaction Between Calf Thymus DNA and Pyrimidine-Annulated Spiro-Dihydrofuran. Biochemistry and Analytical Biochemistry: Current Research, 2016, 5, .	0.4	7
76	Evidence of bovine serum albumin-viologen herbicide binding interaction and associated structural modifications. Journal of Molecular Structure, 2017, 1139, 447-454.	1.8	7
77	Polypyrrole- vanadium oxide nanocomposite: polymer dominates crystallinity and oxide dominates conductivity. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	1.1	7
78	Green Synthesized Gold Nanoparticles: Study of Antimicrobial Activity. Journal of Bionanoscience, 2017, 11, 131-135.	0.4	6
79	The Interaction of Biosynthesized Gold Nanoparticles with Casein Enzyme Hydrolysate. Journal of Bionanoscience, 2015, 9, 424-430.	0.4	5
80	Spectroscopic Evidence of Phosphorous Heterocycle- DNA Interaction and its Verification by Docking Approach. Journal of Fluorescence, 2018, 28, 373-380.	1.3	5
81	Effect of Free Volume on Curcumin Release from Various Polymer-Based Composite Films Analyzed Using Positron Annihilation Lifetime Spectroscopy. Materials, 2021, 14, 5679.	1.3	5
82	Binding affinity of pyrano[3, 2-f]quinoline and DNA: spectroscopic and docking approach. Journal of Biomolecular Structure and Dynamics, 2018, 36, 3869-3877.	2.0	4
83	Probing the binding interaction of lysozyme-viologen herbicide. Journal of Molecular Structure, 2018, 1171, 1-8.	1.8	4
84	Biophysical Study On The Interaction Of Spirooxindole-Annulated Thiopyran Derivatives With Bovine Serum Albumin Using Spectroscopic And Docking Methods. Advanced Materials Letters, 2015, 6, 913-919.	0.3	4
85	Synthesis and standardization of biologically synthesized silver nanoparticles. , 2013, , .		3
86	Construction of well aligned highly dense Cobalt nanoneedles for efficient device application. Advances in Materials and Processing Technologies, 2017, 3, 627-631.	0.8	2
87	Structural and optical properties of polyaniline-green silver nanocomposite. Advances in Materials and Processing Technologies, 2019, 5, 172-180.	0.8	2
88	Effect of Silver Nanoparticles on Vitamin C by Analyzing the Change of Photoluminescence Spectrum of Vitamin C. Advanced Science, Engineering and Medicine, 2014, 6, 1105-1110.	0.3	2
89	A Facile In Situ Synthesis of Resorcinol-Mediated Silver Nanoparticles and the Fabrication of Agar-Based Functional Nanocomposite Films. Journal of Composites Science, 2022, 6, 124.	1.4	2
90	An insight of spirooxindole-annulated thiopyran - DNA interaction: spectroscopic and docking approach of these biological materials. Advances in Materials and Processing Technologies, 2017, 3, 339-352.	0.8	1

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91	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
92	Combined Spectroscopic And Molecular Docking Study Of Binding Interaction Of Pyrano [3, 2-F] Quinoline Derivatives With Bovine Serum Albumins And Its Application In Mammalian Cell Imaging. <i>Advanced Materials Letters</i> , 2015, 6, 1004-1011.	0.3	1
93	Interaction Of Bovine Serum Albumin With Synthetic Spiropyrimidines. <i>Advanced Materials Letters</i> , 2016, 7, 65-70.	0.3	1
94	Polydopamine-nanocellulose nanocomposites: physical and electrical properties for biomedical electrodes. , 2019, , .		0