Swarup Roy

List of Publications by Year in Descending Order

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	Preparation and characterization of B, S, and N-doped glucose carbon dots: Antibacterial, antifungal, and antioxidant activity. *Sustainable Materials and Technologies*, **2022**, 32, e00397	5.3	8
86	Pectin/gelatin-based bioactive composite films reinforced with sulfur functionalized carbon dots. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2022**, 636, 128123	5.1	9
85	Gelatin/agar-based color-indicator film integrated with Clitoria ternatea flower anthocyanin and zinc oxide nanoparticles for monitoring freshness of shrimp. *Food Hydrocolloids*, **2022**, 124, 107294	10.6	9
84	Alginate Biofunctional Films Modified with Melanin from Watermelon Seeds and Zinc Oxide/Silver Nanoparticles.. *Materials*, **2022**, 15,	3.5	1
83	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	3	0
82	Antiviral Biodegradable Food Packaging and Edible Coating Materials in the COVID-19 Era: A Mini-Review. *Coatings*, **2022**, 12, 577	2.9	2
81	Genipin-Crosslinked Gelatin/Chitosan-Based Functional Films Incorporated with Rosemary Essential Oil and Quercetin. *Materials*, **2022**, 15, 3769	3.5	3
80	Anthocyanin food colorant and its application in pH-responsive color change indicator films. *Critical Reviews in Food Science and Nutrition*, **2021**, 61, 2297-2325	11.5	67
79	Antimicrobial nanofillers reinforced biopolymer composite films for active food packaging applications - a review. *Sustainable Materials and Technologies*, **2021**, e00353	5.3	10
78	Carrageenan/agar-based functional film integrated with zinc sulfide nanoparticles and Pickering emulsion of tea tree essential oil for active packaging applications. *International Journal of Biological Macromolecules*, **2021**, 193, 2038-2038	7.9	7
77	Development of Multifunctional Pullulan/Chitosan-Based Composite Films Reinforced with ZnO Nanoparticles and Propolis for Meat Packaging Applications. *Foods*, **2021**, 10,	4.9	8
76	Curcumin and its uses in active and smart food packaging applications - a comprehensive review.. *Food Chemistry*, **2021**, 375, 131885	8.5	17
75	Ecological safety with multifunctional applications of biogenic mono and bimetallic (Au-Ag) alloy nanoparticles. *Chemosphere*, **2021**, 288, 132585	8.4	4
74	Cellulose Nanofiber-Based Nanocomposite Films Reinforced with Zinc Oxide Nanorods and Grapefruit Seed Extract. *Nanomaterials*, **2021**, 11,	5.4	23
73	Preparation of low-density polyethylene- and poly (lactide)/poly (butylene adipate-co-terephthalate)-based antibacterial films integrated with elemental sulfur and sulfur nanoparticles. *Packaging Technology and Science*, **2021**, 34, 505	2.3	4
72	Fabrication of Carboxymethyl Cellulose/Agar-Based Functional Films Hybridized with Alizarin and Grapefruit Seed Extract.. *ACS Applied Bio Materials*, **2021**, 4, 4470-4478	4.1	11
71	Fabrication of cellulose nanofiber-based functional color indicator film incorporated with shikonin extracted from Lithospermum erythrorhizon root. *Food Hydrocolloids*, **2021**, 114, 106566	10.6	24

70	Gelatin-Based Film Integrated with Copper Sulfide Nanoparticles for Active Packaging Applications. *Applied Sciences (Switzerland)*, **2021**, 11, 6307	2.6	7
69	Antioxidant and antimicrobial poly(vinyl alcohol)-based films incorporated with grapefruit seed extract and curcumin. *Journal of Environmental Chemical Engineering*, **2021**, 9, 104694	6.8	33
68	Preparation of Gelatin/Carrageenan-Based Color-Indicator Film Integrated with Shikonin and Propolis for Smart Food Packaging Applications. *ACS Applied Bio Materials*, **2021**, 4, 770-779	4.1	35
67	Synthesis of Carboxymethyl Cellulose and Agar-Based Multifunctional Films Reinforced with Cellulose Nanocrystals and Shikonin. *ACS Applied Polymer Materials*, **2021**, 3, 1060-1069	4.3	20
66	New insight into melanin for food packaging and biotechnology applications. *Critical Reviews in Food Science and Nutrition*, **2021**, 1-27	11.5	23
65	Effect of blended colorants of anthocyanin and shikonin on carboxymethyl cellulose/agar-based smart packaging film. *International Journal of Biological Macromolecules*, **2021**, 183, 305-315	7.9	11
64	Fabrication of bioactive binary composite film based on gelatin/chitosan incorporated with cinnamon essential oil and rutin. *Colloids and Surfaces B: Biointerfaces*, **2021**, 204, 111830	6	26
63	Effect of chitosan modified halloysite on the physical and functional properties of pullulan/chitosan biofilm integrated with rutin. *Applied Clay Science*, **2021**, 211, 106205	5.2	13
62	Silver loaded aminosilane modified halloysite for the preparation of carrageenan-based functional films. *Applied Clay Science*, **2021**, 211, 106170	5.2	8
61	Fabrication of pectin/agar blended functional film: Effect of reinforcement of melanin nanoparticles and grapefruit seed extract. *Food Hydrocolloids*, **2021**, 118, 106823	10.6	21
60	Effects of various types of cellulose nanofibers on the physical properties of the CNF-based films. *Journal of Environmental Chemical Engineering*, **2021**, 9, 106043	6.8	9
59	Gelatin/agar-based functional film integrated with Pickering emulsion of clove essential oil stabilized with nanocellulose for active packaging applications. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2021**, 627, 127220	5.1	18
58	Preparation of pectin/agar-based functional films integrated with zinc sulfide nano petals for active packaging applications. *Colloids and Surfaces B: Biointerfaces*, **2021**, 207, 111999	6	12
57	Fabrication of chitosan-based functional nanocomposite films: Effect of quercetin-loaded chitosan nanoparticles. *Food Hydrocolloids*, **2021**, 121, 107065	10.6	20
56	Tannic-Acid-Cross-Linked and TiO-Nanoparticle-Reinforced Chitosan-Based Nanocomposite Film. *Polymers*, **2021**, 13,	4.5	20
55	Incorporation of melanin nanoparticles improves UV-shielding, mechanical and antioxidant properties of cellulose nanofiber based nanocomposite films. *Materials Today Communications*, **2020**, 24, 100984	2.5	31
54	Carboxymethyl cellulose-based antioxidant and antimicrobial active packaging film incorporated with curcumin and zinc oxide. *International Journal of Biological Macromolecules*, **2020**, 148, 666-676	7.9	125
53	Process optimization for biosynthesis of mono and bimetallic alloy nanoparticle catalysts for degradation of dyes in individual and ternary mixture. *Scientific Reports*, **2020**, 10, 277	4.9	13

52	Preparation of antimicrobial and antioxidant gelatin/curcumin composite films for active food packaging application. *Colloids and Surfaces B: Biointerfaces*, **2020**, 188, 110761	6	82
51	Preparation and characterization of synthetic melanin-like nanoparticles reinforced chitosan nanocomposite films. *Carbohydrate Polymers*, **2020**, 231, 115729	10.3	55
50	Preparation of bioactive functional poly(lactic acid)/curcumin composite film for food packaging application. *International Journal of Biological Macromolecules*, **2020**, 162, 1780-1789	7.9	58
49	Effect of CuS reinforcement on the mechanical, water vapor barrier, UV-light barrier, and antibacterial properties of alginate-based composite films. *International Journal of Biological Macromolecules*, **2020**, 164, 37-44	7.9	33
48	Fabrication of Copper Sulfide Nanoparticles and Limonene Incorporated Pullulan/Carrageenan-Based Film with Improved Mechanical and Antibacterial Properties. *Polymers*, **2020**, 12,	4.5	17
47	Curcumin Incorporated Poly(Butylene Adipate-co-Terephthalate) Film with Improved Water Vapor Barrier and Antioxidant Properties. *Materials*, **2020**, 13,	3.5	10
46	Preparation of carbohydrate-based functional composite films incorporated with curcumin. *Food Hydrocolloids*, **2020**, 98, 105302	10.6	84
45	Melanin-Mediated Synthesis of Copper Oxide Nanoparticles and Preparation of Functional Agar/CuO NP Nanocomposite Films. *Journal of Nanomaterials*, **2019**, 2019, 1-10	3.2	21
44	Analysis of binding affinity of biologically active material spiro-pyrimidine and DNA: a spectroscopic approach. *Advances in Materials and Processing Technologies*, **2019**, 5, 360-370	0.8	1
43	Agar-based antioxidant composite films incorporated with melanin nanoparticles. *Food Hydrocolloids*, **2019**, 94, 391-398	10.6	70
42	Bioactive agar-based functional composite film incorporated with copper sulfide nanoparticles. *Food Hydrocolloids*, **2019**, 93, 156-166	10.6	64
41	Carrageenan-based antimicrobial bionanocomposite films incorporated with ZnO nanoparticles stabilized by melanin. *Food Hydrocolloids*, **2019**, 90, 500-507	10.6	95
40	Preparation of carrageenan-based functional nanocomposite films incorporated with melanin nanoparticles. *Colloids and Surfaces B: Biointerfaces*, **2019**, 176, 317-324	6	48
39	Structural and optical properties of polyaniline-green silver nanocomposite. *Advances in Materials and Processing Technologies*, **2019**, 5, 172-180	0.8	2
38	Melanin-mediated synthesis of silver nanoparticle and its use for the preparation of carrageenan-based antibacterial films. *Food Hydrocolloids*, **2019**, 88, 237-246	10.6	120
37	Polypyrrole□vanadium oxide nanocomposite: polymer dominates crystallanity and oxide dominates conductivity. *Applied Physics A: Materials Science and Processing*, **2018**, 124, 1	2.6	4
36	Spectroscopic Evidence of Phosphorous Heterocycle-DNA Interaction and its Verification by Docking Approach. *Journal of Fluorescence*, **2018**, 28, 373-380	2.4	3
35	Binding behaviors of greenly synthesized silver nanoparticles □Lysozyme interaction: Spectroscopic approach. *Journal of Molecular Structure*, **2018**, 1154, 145-151	3.4	16

34	Tent-Shaped Surface Morphologies of Silicon: Texturization by Metal Induced Etching. *Silicon*, **2018**, 10, 2801-2807	2.4	5
33	Binding affinity of pyrano[3, 2-f]quinoline and DNA: spectroscopic and docking approach. *Journal of Biomolecular Structure and Dynamics*, **2018**, 36, 3869-3877	3.6	3
32	Probing the binding interaction of lysozyme-viologen herbicide. *Journal of Molecular Structure*, **2018**, 1171, 1-8	3.4	3
31	Interfacial redox centers as origin of color switching in organic electrochromic device. *Optical Materials*, **2017**, 66, 65-71	3.3	32
30	Spectral Anomaly in Raman Scattering from p-Type Silicon Nanowires. *Journal of Physical Chemistry C*, **2017**, 121, 5372-5378	3.8	28
29	Live spectroscopy to observe electrochromism in viologen based solid state device. *Solid State Communications*, **2017**, 261, 17-20	1.6	16
28	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
27	An insight of binding interaction between Tryptophan, Tyrosine and Phenylalanine separately with green gold nanoparticles by fluorescence quenching method. *Optik*, **2017**, 138, 280-288	2.5	15
26	Evidence of bovine serum albumin-viologen herbicide binding interaction and associated structural modifications. *Journal of Molecular Structure*, **2017**, 1139, 447-454	3.4	6
25	Synthesis of Conducting Polypyrrole-Titanium Oxide Nanocomposite: Study of Structural, Optical and Electrical Properties. *Journal of Inorganic and Organometallic Polymers and Materials*, **2017**, 27, 257-263	3.2	18
24	Fast electrochromic display: tetrathiafulvalene–graphene nanoflake as facilitating materials. *Journal of Materials Chemistry C*, **2017**, 5, 9504-9512	7.1	35
23	Ecofriendly gold nanoparticles - Lysozyme interaction: Thermodynamical perspectives. *Journal of Photochemistry and Photobiology B: Biology*, **2017**, 174, 284-290	6.7	18
22	Amplification or cancellation of Fano resonance and quantum confinement induced asymmetries in Raman line-shapes. *Physical Chemistry Chemical Physics*, **2017**, 19, 31788-31795	3.6	32
21	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
20	Binding interaction of phosphorus heterocycles with bovine serum albumin: A biochemical study. *Journal of Pharmaceutical Analysis*, **2017**, 7, 19-26	14	46
19	Green Synthesized Gold Nanoparticles: Study of Antimicrobial Activity. *Journal of Bionanoscience*, **2017**, 11, 131-135		4
18	Effect of biosynthesized silver nanoparticles on the growth and some biochemical parameters of @@ Aspergillus foetidus. *Journal of Environmental Chemical Engineering*, **2016**, 4, 1574-1583	6.8	9
17	Microbial biosynthesis of nontoxic gold nanoparticles. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **2016**, 203, 41-51	3.1	51

16	Report of Interaction Between Calf Thymus DNA and Pyrimidine-Annulated Spiro-Dihydrofuran. *Biochemistry and Analytical Biochemistry: Current Research*, **2016**, 5,		7
15	Interaction of biosynthesized gold nanoparticles with BSA and CTDNA: A multi-spectroscopic approach. *Polyhedron*, **2016**, 115, 111-118	2.7	26
14	Study of Interaction Between Tryptophan, Tyrosine, and Phenylalanine Separately with Silver Nanoparticles by Fluorescence Quenching Method. *Journal of Applied Spectroscopy*, **2015**, 82, 598-606	0.7	26
13	The Interaction of Biosynthesized Gold Nanoparticles with Casein Enzyme Hydrolysate. *Journal of Bionanoscience*, **2015**, 9, 424-430		5
12	Interaction studies between biosynthesized silver nanoparticle with calf thymus DNA and cytotoxicity of silver nanoparticles. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2015**, 141, 176-84	4.4	43
11	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	2.4	3
10	Studies Of The Interaction Of Bovine Serum Albumin With Pyrimidine-Annulated Spiro-Dihydrofuran And Its Biological Activities. *Advanced Materials Letters*, **2015**, 6, 1018-1024	2.4	6
9	Spectroscopic studies of interaction between biologically synthesized silver nanoparticles and bovine serum albumin. *Journal of Nanoscience and Nanotechnology*, **2014**, 14, 4899-905	1.3	27
8	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	0.6	2
7	Biosynthesis of Silver Nanoparticles by Aspergillus foetidus: Optimization of Physicochemical Parameters. *Nanoscience and Nanotechnology Letters*, **2014**, 6, 181-189	0.8	13
6	Investigation of Interaction Between Casein Enzyme Hydrolysate and Biosynthesized Silver Nanoparticles by Spectroscopy. *Nanoscience and Nanotechnology Letters*, **2014**, 6, 547-554	0.8	11
5	Synthesis and standardization of biologically synthesized silver nanoparticles **2013**,		3
4	Gelatin/Carrageenan-Based Functional Films with Carbon Dots from Enoki Mushroom for Active Food Packaging Applications. *ACS Applied Polymer Materials*,	4.3	15
3	Preparation of turmeric-derived sulfur-functionalized carbon dots: antibacterial and antioxidant activity. *Journal of Materials Science*,1	4.3	9
2	Enhanced functionality of green synthesized sulfur nanoparticles using kiwifruit (Actinidia deliciosa) peel polyphenols as capping agents. *Journal of Nanostructure in Chemistry*,1	7.6	6
1	Gelatin/cellulose nanofiber-based functional films added with mushroom-mediated sulfur nanoparticles for active packaging applications. *Journal of Nanostructure in Chemistry*,1	7.6	4