

# Santosh Kumar

## List of Publications by Year in Descending Order

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**Version:** 2024-04-25

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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.

64  
papers

1,912  
citations

28  
h-index

42  
g-index

68  
ext. papers

2,375  
ext. citations

5.5  
avg, IF

5.5  
L-index

#	Paper	IF	Citations
64	Impacts of low concentrations of nanoplastics on leaf litter decomposition and food quality for detritivores in streams.. <i>Journal of Hazardous Materials</i> , <b>2022</b> , 429, 128320	12.8	4
63	Chitin A Natural Bio-feedstock and Its Derivatives <b>2022</b> , 207-233		
62	Arginine containing chitosan-graphene oxide aerogels for highly efficient carbon capture and fixation. <i>Journal of CO2 Utilization</i> , <b>2022</b> , 59, 101958	7.6	1
61	Synthesis, characterization and application of chitosan-N-(4-hydroxyphenyl)-methacrylamide derivative as a drug and gene carrier. <i>International Journal of Biological Macromolecules</i> , <b>2021</b> ,	7.9	1
60	Chitosan modified by organo-functionalities as an efficient nanoplatform for anti-cancer drug delivery process. <i>Journal of Drug Delivery Science and Technology</i> , <b>2021</b> , 62, 102407	4.5	5
59	Synthesis, Characterization, and Functional Properties of ZnO-based Polyurethane Nanocomposite for Textile Applications. <i>Fibers and Polymers</i> , <b>2021</b> , 22, 2227-2237	2	3
58	Synthesis of 2,5-furandicarboxylic acid-enriched-chitosan for anti-inflammatory and metal ion uptake. <i>International Journal of Biological Macromolecules</i> , <b>2021</b> , 179, 500-506	7.9	4
57	Rapid Determination of Nitrate in Brain Regions and Cerebrospinal Fluid of Transient Bilateral Common Carotid Artery Occlusion Rat Model by HPLC-UV. <i>Proceedings of the National Academy of Sciences India Section A - Physical Sciences</i> , <b>2021</b> , 91, 361-368	0.9	
56	Synthesis of Antibacterial Disulfide Derivatives and its Computational Molecular Docking Against Penicillin Binding Protein. <i>Analytical Chemistry Letters</i> , <b>2021</b> , 11, 618-634	1	0
55	Experimental and computational study of naphthalimide derivatives: Synthesis, optical, nonlinear optical and antiviral properties. <i>Optik</i> , <b>2021</b> , 246, 167748	2.5	3
54	Synthesis of Copper(II) Coordination Complex, Its Molecular Docking and Computational Exploration for Novel Functional Properties: A Dual Approach. <i>ChemistrySelect</i> , <b>2021</b> , 6, 738-745	1.8	9
53	Synthesis, characterizations, crystal structures, and theoretical studies of copper(II) and nickel(II) coordination complexes. <i>Journal of Coordination Chemistry</i> , <b>2020</b> , 73, 1256-1279	1.6	7
52	A systematic study on chitosan-liposome based systems for biomedical applications. <i>International Journal of Biological Macromolecules</i> , <b>2020</b> , 160, 470-481	7.9	31
51	An experimental and computational study of pyrimidine based bis-uracil derivatives as efficient candidates for optical, nonlinear optical, and drug discovery applications. <i>Synthetic Communications</i> , <b>2020</b> , 50, 2199-2225	1.7	9
50	Capture and chemical fixation of carbon dioxide by chitosan grafted multi-walled carbon nanotubes. <i>Journal of CO2 Utilization</i> , <b>2020</b> , 41, 101237	7.6	17
49	Synthesis and characterization of mono-6-deoxy-6-aminopropylamino-β-cyclodextrin polymer functionalized with graphene oxide. <i>Inorganic and Nano-Metal Chemistry</i> , <b>2020</b> , 50, 286-291	1.2	
48	Copper(II) and Nickel(II) Complexes of Tridentate Hydrazide and Schiff Base Ligands Containing Phenyl and Naphthalyl Groups: Synthesis, Structural, Molecular Docking and Density Functional Study. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , <b>2020</b> , 30, 4426-4440	3.2	3

47	Chitosan-based zeolite-Y and ZSM-5 porous biocomposites for H and CO storage. <i>Carbohydrate Polymers</i> , <b>2020</b> , 232, 115808	10.3	20
46	Utilization of zeolites as CO <sub>2</sub> capturing agents: Advances and future perspectives. <i>Journal of CO<sub>2</sub> Utilization</i> , <b>2020</b> , 41, 101251	7.6	62
45	Methyl methacrylate modified chitosan: Synthesis, characterization and application in drug and gene delivery. <i>Carbohydrate Polymers</i> , <b>2019</b> , 211, 109-117	10.3	44
44	Can low concentrations of metal oxide and Ag loaded metal oxide nanoparticles pose a risk to stream plant litter microbial decomposers?. <i>Science of the Total Environment</i> , <b>2019</b> , 653, 930-937	10.2	14
43	A combined experimental and computational study of 2,2U(diazene-1,2-diylbis(4,1-phenylene))bis(6-(butylamino)-1H-benzo[de]isoquinoline-1,3(2H)-dione): Synthesis, optical and nonlinear optical properties. <i>Optik</i> , <b>2019</b> , 192, 162952	2.5	9
42	Syntheses, characterizations, crystal structures and efficient NLO applications of new organic compounds bearing 2-methoxy-4-nitrobenzeneamine moiety and copper (II) complex of (E)-NU(3,5-dichloro-2-hydroxybenzylidene) benzohydrazide. <i>Journal of Molecular Structure</i> , <b>2019</b> , 1190, 54-67	3.4	21
41	Bio-based chitosan/gelatin/Ag@ZnO bionanocomposites: synthesis and mechanical and antibacterial properties. <i>Cellulose</i> , <b>2019</b> , 26, 5347-5361	5.5	51
40	CO <sub>2</sub> adsorption and conversion of epoxides catalyzed by inexpensive and active mesoporous structured mixed-phase (anatase/brookite) TiO <sub>2</sub> . <i>Journal of CO<sub>2</sub> Utilization</i> , <b>2019</b> , 34, 386-394	7.6	11
39	Synthesis and characterization of g/NiBiO <sub>2</sub> composite for enhanced hydrogen storage applications. <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 23249-23256	6.7	6
38	Chitosan Nanocomposite Coatings for Food, Paints, and Water Treatment Applications. <i>Applied Sciences (Switzerland)</i> , <b>2019</b> , 9, 2409	2.6	61
37	Dyeing of Polyester with 4-Fluorosulfonylphenylazo-5-pyrazolone Disperse Dyes and Application of Environment-Friendly Aftertreatment for Their High Color Fastness. <i>Materials</i> , <b>2019</b> , 12,	3.5	5
36	A dual approach to study the key features of nickel (II) and copper (II) coordination complexes: Synthesis, crystal structure, optical and nonlinear properties. <i>Inorganica Chimica Acta</i> , <b>2019</b> , 484, 148-159	2.7	27
35	Chitosan grafted graphene oxide aerogel: Synthesis, characterization and carbon dioxide capture study. <i>International Journal of Biological Macromolecules</i> , <b>2019</b> , 125, 300-306	7.9	64
34	Bio-based (chitosan/PVA/ZnO) nanocomposites film: Thermally stable and photoluminescence material for removal of organic dye. <i>Carbohydrate Polymers</i> , <b>2019</b> , 205, 559-564	10.3	110
33	Enhanced fluorescence norfloxacin substituted naphthalimide derivatives: Molecular docking and antibacterial activity. <i>Journal of Molecular Structure</i> , <b>2018</b> , 1157, 292-299	3.4	15
32	Carbon dioxide adsorption and cycloaddition reaction of epoxides using chitosan-graphene oxide nanocomposite as a catalyst. <i>Journal of Environmental Sciences</i> , <b>2018</b> , 69, 77-84	6.4	33
31	Synthesis, physicochemical and optical properties of bis-thiosemicarbazone functionalized graphene oxide. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2018</b> , 188, 183-188	4.4	21
30	Highly active P25@Pd/C nanocomposite for the degradation of Naphthol Blue Black with visible light. <i>Journal of Molecular Structure</i> , <b>2018</b> , 1153, 346-352	3.4	22

29	Graphene oxide modified cobalt metallated porphyrin photocatalyst for conversion of formic acid from carbon dioxide. <i>Journal of CO2 Utilization</i> , <b>2018</b> , 27, 107-114	7.6	24
28	Synthesis, characterisation, optical and nonlinear optical properties of thiazole and benzothiazole derivatives: a dual approach. <i>Molecular Simulation</i> , <b>2018</b> , 44, 1191-1199	2	43
27	Mesoporous zeolite-chitosan composite for enhanced capture and catalytic activity in chemical fixation of CO. <i>Carbohydrate Polymers</i> , <b>2018</b> , 198, 401-406	10.3	51
26	Carbon dioxide capture and conversion by an environmentally friendly chitosan based meso-tetrakis(4-sulfonatophenyl) porphyrin. <i>Carbohydrate Polymers</i> , <b>2017</b> , 175, 575-583	10.3	36
25	Studies of Carbon Dioxide Capture on Porous Chitosan Derivative. <i>Journal of Dispersion Science and Technology</i> , <b>2016</b> , 37, 155-158	1.5	22
24	Chitosan containing azo-based Schiff bases: thermal, antibacterial and birefringence properties for bio-optical devices. <i>RSC Advances</i> , <b>2016</b> , 6, 5575-5581	3.7	19
23	Cycloaddition of CO2 to epoxides using di-nuclear transition metal complexes as catalysts. <i>New Journal of Chemistry</i> , <b>2016</b> , 40, 4974-4980	3.6	24
22	Antibacterial activity of diisocyanate-modified chitosan for biomedical applications. <i>International Journal of Biological Macromolecules</i> , <b>2016</b> , 84, 349-53	7.9	56
21	Porphyrins as nanoreactors in the carbon dioxide capture and conversion: a review. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 19615-19637	13	116
20	Studies on thermo-optic property of chitosan-lizarin yellow GG complex: a direction for devices for biomedical applications. <i>Bulletin of Materials Science</i> , <b>2015</b> , 38, 1639-1643	1.7	5
19	Enhanced chitosan-DNA interaction by 2-acrylamido-2-methylpropane coupling for an efficient transfection in cancer cells. <i>Journal of Materials Chemistry B</i> , <b>2015</b> , 3, 3465-3475	7.3	42
18	Physiochemical and optical properties of chitosan based graphene oxide bionanocomposite. <i>International Journal of Biological Macromolecules</i> , <b>2014</b> , 70, 559-64	7.9	70
17	Chitosan Biopolymer Schiff Base: Preparation, Characterization, Optical, and Antibacterial Activity. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , <b>2014</b> , 63, 173-177	3	35
16	Triphenylamine coupled chitosan with high buffering capacity and low viscosity for enhanced transfection in mammalian cells, in vitro and in vivo. <i>Journal of Materials Chemistry B</i> , <b>2013</b> , 1, 6053-6065	7.3	37
15	Synthesis, physiochemical and optical properties of chitosan based dye containing naphthalimide group. <i>Carbohydrate Polymers</i> , <b>2013</b> , 94, 221-8	10.3	29
14	A new chitosan-thymine conjugate: synthesis, characterization and biological activity. <i>International Journal of Biological Macromolecules</i> , <b>2012</b> , 50, 493-502	7.9	64
13	Facile and efficient synthesis of quinolin-2(1H)-ones via cyclization of penta-2,4-dienamides mediated by H2SO4. <i>Organic and Biomolecular Chemistry</i> , <b>2012</b> , 10, 5643-6	3.9	34
12	Physiochemical and optical study of chitosan-terephthaldehyde derivative for biomedical applications. <i>International Journal of Biological Macromolecules</i> , <b>2012</b> , 51, 1167-72	7.9	34

11	Physiochemical, optical and biological activity of chitosan-chromone derivative for biomedical applications. <i>International Journal of Molecular Sciences</i> , <b>2012</b> , 13, 6102-16	6.3	159
10	A physico-chemical and biological study of novel chitosan-chloroquinoline derivative for biomedical applications. <i>International Journal of Biological Macromolecules</i> , <b>2011</b> , 49, 356-61	7.9	45
9	Physiochemical, circular dichroism-induced helical conformation and optical property of chitosan azo-based amino methanesulfonate complex. <i>Journal of Applied Polymer Science</i> , <b>2011</b> , 124, n/a-n/a	2.9	1
8	Optical Study of Chitosan-Ofloxacin Complex for Biomedical Applications. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , <b>2011</b> , 48, 789-795	2.2	10
7	Efficient one-pot synthesis of substituted pyridines through multicomponent reaction. <i>Organic and Biomolecular Chemistry</i> , <b>2010</b> , 8, 3078-82	3.9	50
6	Preparation, characterization and optical properties of a novel azo-based chitosan biopolymer. <i>Materials Chemistry and Physics</i> , <b>2010</b> , 120, 361-370	4.4	31
5	Preparation, characterization, and optical properties of a chitosan- $\alpha$ -thraldehyde crosslinkable film. <i>Journal of Applied Polymer Science</i> , <b>2010</b> , 115, 3056-3062	2.9	36
4	Preparation and characterization of optical property of crosslinkable film of chitosan with 2-thiophenecarboxaldehyde. <i>Carbohydrate Polymers</i> , <b>2010</b> , 80, 563-569	10.3	31
3	Preparation and characterization of N-heterocyclic chitosan derivative based gels for biomedical applications. <i>International Journal of Biological Macromolecules</i> , <b>2009</b> , 45, 330-7	7.9	89
2	Preparation, Characterization and Optical Property of Chitosan-Phenothiazine Derivative by Microwave Assisted Synthesis. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , <b>2009</b> , 46, 1095-1102	2.2	25
1	Synthesis and Application of High-Washability 4-Amino-4'-Fluorosulfonylazobenzene Disperse Dyes to Cellulose Diacetate for High Color Fastness. <i>Fibers and Polymers</i> , 1	2	1