

Santosh Kumar

List of Publications by Year in descending order

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65
papers

2,924
citations

136740

32
h-index

174990

52
g-index

68
all docs

68
docs citations

68
times ranked

3408
citing authors

#	ARTICLE	IF	CITATIONS
1	Physiochemical, Optical and Biological Activity of Chitosan-Chromone Derivative for Biomedical Applications. <i>International Journal of Molecular Sciences</i> , 2012, 13, 6102-6116.	1.8	287
2	Bio-based (chitosan/PVA/ZnO) nanocomposites film: Thermally stable and photoluminescence material for removal of organic dye. <i>Carbohydrate Polymers</i> , 2019, 205, 559-564.	5.1	187
3	Utilization of zeolites as CO ₂ capturing agents: Advances and future perspectives. <i>Journal of CO₂ Utilization</i> , 2020, 41, 101251.	3.3	163
4	Porphyrins as nanoreactors in the carbon dioxide capture and conversion: a review. <i>Journal of Materials Chemistry A</i> , 2015, 3, 19615-19637.	5.2	131
5	Chitosan Nanocomposite Coatings for Food, Paints, and Water Treatment Applications. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 2409.	1.3	113
6	Preparation and characterization of N-heterocyclic chitosan derivative based gels for biomedical applications. <i>International Journal of Biological Macromolecules</i> , 2009, 45, 330-337.	3.6	104
7	Chitosan grafted graphene oxide aerogel: Synthesis, characterization and carbon dioxide capture study. <i>International Journal of Biological Macromolecules</i> , 2019, 125, 300-306.	3.6	104
8	Physiochemical and optical properties of chitosan based graphene oxide bionanocomposite. <i>International Journal of Biological Macromolecules</i> , 2014, 70, 559-564.	3.6	90
9	A new chitosan-thymine conjugate: Synthesis, characterization and biological activity. <i>International Journal of Biological Macromolecules</i> , 2012, 50, 493-502.	3.6	86
10	Bio-based chitosan/gelatin/Ag@ZnO bionanocomposites: synthesis and mechanical and antibacterial properties. <i>Cellulose</i> , 2019, 26, 5347-5361.	2.4	85
11	Methyl methacrylate modified chitosan: Synthesis, characterization and application in drug and gene delivery. <i>Carbohydrate Polymers</i> , 2019, 211, 109-117.	5.1	79
12	Antibacterial activity of diisocyanate-modified chitosan for biomedical applications. <i>International Journal of Biological Macromolecules</i> , 2016, 84, 349-353.	3.6	70
13	A physico-chemical and biological study of novel chitosan-chloroquinoline derivative for biomedical applications. <i>International Journal of Biological Macromolecules</i> , 2011, 49, 356-361.	3.6	67
14	Mesoporous zeolite-chitosan composite for enhanced capture and catalytic activity in chemical fixation of CO ₂ . <i>Carbohydrate Polymers</i> , 2018, 198, 401-406.	5.1	67
15	A systematic study on chitosan-liposome based systems for biomedical applications. <i>International Journal of Biological Macromolecules</i> , 2020, 160, 470-481.	3.6	63
16	Synthesis, characterisation, optical and nonlinear optical properties of thiazole and benzothiazole derivatives: a dual approach. <i>Molecular Simulation</i> , 2018, 44, 1191-1199.	0.9	62
17	Efficient one-pot synthesis of substituted pyridines through multicomponent reaction. <i>Organic and Biomolecular Chemistry</i> , 2010, 8, 3078.	1.5	57
18	Carbon dioxide capture and conversion by an environmentally friendly chitosan based meso-tetrakis(4-sulfonatophenyl) porphyrin. <i>Carbohydrate Polymers</i> , 2017, 175, 575-583.	5.1	52

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19	Enhanced chitosanâ€“DNA interaction by 2-acrylamido-2-methylpropane coupling for an efficient transfection in cancer cells. <i>Journal of Materials Chemistry B</i> , 2015, 3, 3465-3475.	2.9	50
20	Carbon dioxide adsorption and cycloaddition reaction of epoxides using chitosanâ€“graphene oxide nanocomposite as a catalyst. <i>Journal of Environmental Sciences</i> , 2018, 69, 77-84.	3.2	49
21	Chitosan-based zeolite-Y and ZSM-5 porous biocomposites for H ₂ and CO ₂ storage. <i>Carbohydrate Polymers</i> , 2020, 232, 115808.	5.1	46
22	Synthesis, physiochemical and optical properties of chitosan based dye containing naphthalimide group. <i>Carbohydrate Polymers</i> , 2013, 94, 221-228.	5.1	44
23	Facile and efficient synthesis of quinolin-2(1H)-ones via cyclization of penta-2,4-dienamides mediated by H ₂ SO ₄ . <i>Organic and Biomolecular Chemistry</i> , 2012, 10, 5643.	1.5	43
24	Preparation, characterization, and optical properties of a chitosanâ€“anthraldehyde crosslinkable film. <i>Journal of Applied Polymer Science</i> , 2010, 115, 3056-3062.	1.3	42
25	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> , 2013, 1, 6053.	2.9	40
26	Chitosan Biopolymer Schiff Base: Preparation, Characterization, Optical, and Antibacterial Activity. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2014, 63, 173-177.	1.8	40
27	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> , 2019, 484, 148-159.	1.2	39
28	Preparation, characterization and optical properties of a novel azo-based chitosan biopolymer. <i>Materials Chemistry and Physics</i> , 2010, 120, 361-370.	2.0	37
29	Graphene oxide modified cobalt metallated porphyrin photocatalyst for conversion of formic acid from carbon dioxide. <i>Journal of CO₂ Utilization</i> , 2018, 27, 107-114.	3.3	37
30	Physiochemical and optical study of chitosanâ€“terephthaldehyde derivative for biomedical applications. <i>International Journal of Biological Macromolecules</i> , 2012, 51, 1167-1172.	3.6	36
31	Syntheses, characterizations, crystal structures and efficient NLO applications of new organic compounds bearing 2-methoxy-4-nitrobenzeneamine moiety and copper (II) complex of (E)-N'-(3, Tj ETQq1 1 0.784314 rgBT3/Overlo		
32	Capture and chemical fixation of carbon dioxide by chitosan grafted multi-walled carbon nanotubes. <i>Journal of CO₂ Utilization</i> , 2020, 41, 101237.	3.3	35
33	Preparation and characterization of optical property of crosslinkable film of chitosan with 2-thiophenecarboxaldehyde. <i>Carbohydrate Polymers</i> , 2010, 80, 563-569.	5.1	31
34	Highly active P25@Pd/C nanocomposite for the degradation of Naphthol Blue Black with visible light. <i>Journal of Molecular Structure</i> , 2018, 1153, 346-352.	1.8	28
35	Chitosan containing azo-based Schiff bases: thermal, antibacterial and birefringence properties for bio-optical devices. <i>RSC Advances</i> , 2016, 6, 5575-5581.	1.7	27
36	Cycloaddition of CO ₂ to epoxides using di-nuclear transition metal complexes as catalysts. <i>New Journal of Chemistry</i> , 2016, 40, 4974-4980.	1.4	27

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37	Studies of Carbon Dioxide Capture on Porous Chitosan Derivative. <i>Journal of Dispersion Science and Technology</i> , 2016, 37, 155-158.	1.3	27
38	Preparation, Characterization and Optical Property of Chitosan-Phenothiazine Derivative by Microwave Assisted Synthesis. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2009, 46, 1095-1102.	1.2	26
39	Synthesis, physicochemical and optical properties of bis-thiosemicarbazone functionalized graphene oxide. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 188, 183-188.	2.0	24
40	Impacts of low concentrations of nanoplastics on leaf litter decomposition and food quality for detritivores in streams. <i>Journal of Hazardous Materials</i> , 2022, 429, 128320.	6.5	22
41	Arginine containing chitosan-graphene oxide aerogels for highly efficient carbon capture and fixation. <i>Journal of CO2 Utilization</i> , 2022, 59, 101958.	3.3	22
42	Chitosan modified by organo-functionalities as an efficient nanoplatform for anti-cancer drug delivery process. <i>Journal of Drug Delivery Science and Technology</i> , 2021, 62, 102407.	1.4	20
43	CO2 adsorption and conversion of epoxides catalyzed by inexpensive and active mesoporous structured mixed-phase (anatase/brookite) TiO ₂ . <i>Journal of CO2 Utilization</i> , 2019, 34, 386-394.	3.3	19
44	A combined experimental and computational study of 2,2'-(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> , 2019, 192, 162952.	1.4	19
45	Enhanced fluorescence norfloxacin substituted naphthalimide derivatives: Molecular docking and antibacterial activity. <i>Journal of Molecular Structure</i> , 2018, 1157, 292-299.	1.8	18
46	Synthesis, characterizations, crystal structures, and theoretical studies of copper(II) and nickel(II) coordination complexes. <i>Journal of Coordination Chemistry</i> , 2020, 73, 1256-1279.	0.8	17
47	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> , 2020, 50, 2199-2225.	1.1	17
48	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> , 2019, 653, 930-937.	3.9	16
49	Dyeing of Polyester with 4-Fluorosulfonylphenylazo-5-pyrazolone Disperse Dyes and Application of Environment-Friendly Aftertreatment for Their High Color Fastness. <i>Materials</i> , 2019, 12, 4209.	1.3	15
50	Synthesis of Copper(II) Coordination Complex, Its Molecular Docking and Computational Exploration for Novel Functional Properties: A Dual Approach. <i>ChemistrySelect</i> , 2021, 6, 738-745.	0.7	15
51	Optical Study of Chitosan-Ofloxacin Complex for Biomedical Applications. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2011, 48, 789-795.	1.2	12
52	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> , 2020, 30, 4426-4440.	1.9	12
53	Synthesis and characterization of g/Ni@SiO ₂ composite for enhanced hydrogen storage applications. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 23249-23256.	3.8	11
54	Synthesis, Characterization, and Functional Properties of ZnO-based Polyurethane Nanocomposite for Textile Applications. <i>Fibers and Polymers</i> , 2021, 22, 2227-2237.	1.1	10

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55	Experimental and computational study of naphthalimide derivatives: Synthesis, optical, nonlinear optical and antiviral properties. <i>Optik</i> , 2021, 246, 167748.	1.4	10
56	Synthesis of 2,5-furandicarboxylic acid-enriched-chitosan for anti-inflammatory and metal ion uptake. <i>International Journal of Biological Macromolecules</i> , 2021, 179, 500-506.	3.6	7
57	Synthesis, characterization and application of chitosan-N-(4-hydroxyphenyl)-methacrylamide derivative as a drug and gene carrier. <i>International Journal of Biological Macromolecules</i> , 2022, 195, 75-85.	3.6	7
58	Physiochemical, circular dichroism-induced helical conformation and optical property of chitosan azobased amino methanesulfonate complex. <i>Journal of Applied Polymer Science</i> , 2012, 124, 4897-4903.	1.3	6
59	Studies on thermo-optic property of chitosan-alizarin yellow GG complex: a direction for devices for biomedical applications. <i>Bulletin of Materials Science</i> , 2015, 38, 1639-1643.	0.8	5
60	Insighting the systematic impact of shape, size and substitution of heteroatoms in quinoidal oligomers to tune their optoelectronic properties. <i>Optical and Quantum Electronics</i> , 2022, 54, .	1.5	5
61	Synthesis and Application of High-Washability 4-Amino-4-Fluorosulfonylazobenzene Disperse Dyes to Cellulose Diacetate for High Color Fastness. <i>Fibers and Polymers</i> , 2021, 22, 3075-3081.	1.1	4
62	Synthesis of Antibacterial Disulfide Derivatives and its Computational Molecular Docking Against Penicillin Binding Protein. <i>Analytical Chemistry Letters</i> , 2021, 11, 618-634.	0.4	3
63	Synthesis and characterization of mono-6-deoxy-6-aminopropylamino- β -cyclodextrin polymer functionalized with graphene oxide. <i>Inorganic and Nano-Metal Chemistry</i> , 2020, 50, 286-291.	0.9	1
64	A new chitosan-thymine conjugate: Synthesis, characterization and biological activity. <i>International Journal of Biological Macromolecules</i> , 2011, , .	3.6	0
65	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> , 2021, 91, 361-368.	0.8	0