

Asoke Prasun Chattopadhyay

List of Publications by Year in descending order

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49
papers

975
citations

471509

17
h-index

477307

29
g-index

50
all docs

50
docs citations

50
times ranked

1336
citing authors

#	ARTICLE	IF	CITATIONS
1	Green synthesis of antibacterial and antifungal silver nanoparticles using Citrus limetta peel extract: Experimental and theoretical studies. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 104019.	6.7	88
2	Screening of potential drug from Azadirachta Indica (Neem) extracts for SARS-CoV-2: An insight from molecular docking and MD-simulation studies. <i>Journal of Molecular Structure</i> , 2021, 1227, 129390.	3.6	78
3	Therapeutic efficacy of artemisinin-loaded nanoparticles in experimental visceral leishmaniasis. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015, 130, 215-221.	5.0	64
4	Inhibitory activity of hydroxychloroquine on COVID-19 main protease: An insight from MD-simulation studies. <i>Journal of Molecular Structure</i> , 2020, 1219, 128595.	3.6	64
5	Nanoliposomal artemisinin for the treatment of murine visceral leishmaniasis. <i>International Journal of Nanomedicine</i> , 2017, Volume 12, 2189-2204.	6.7	60
6	Excellent catalytic activity of magnetically recoverable Fe ₃ O ₄ @graphene oxide nanocomposites prepared by a simple method. <i>Dalton Transactions</i> , 2015, 44, 11444-11456.	3.3	46
7	Triphenylamine-Based Pyridine <i>N</i> -Oxide and Pyridinium Salts for Size-Selective Recognition of Dicarboxylates. <i>European Journal of Organic Chemistry</i> , 2009, 2009, 4515-4524.	2.4	45
8	Chitosan encapsulated water-soluble silver bionanocomposite for size-dependent antibacterial activity. <i>Nano Structures Nano Objects</i> , 2019, 20, 100393.	3.5	44
9	A simple, fast and cost-effective method of synthesis of cupric oxide nanoparticle with promising antibacterial potency: Unraveling the biological and chemical modes of action. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2015, 1850, 845-856.	2.4	38
10	Phosphatase-like Activity of Tetranuclear Iron(III) and Zinc(II) Complexes. <i>Inorganic Chemistry</i> , 2018, 57, 10802-10820.	4.0	36
11	Green synthesis of antimicrobial silver nanoparticles using fruit extract of <i>Glycosmis pentaphylla</i> and its theoretical explanations. <i>Journal of Molecular Structure</i> , 2022, 1247, 131361.	3.6	35
12	Sulfate-Bridged Dimeric Copper(II) Complexes with Three-Dimensional Network: Synthesis, Structure and DFT Studies. <i>European Journal of Inorganic Chemistry</i> , 2008, 2008, 4927-4935.	2.0	32
13	Anthracene-Labeled 1,2,3-Triazole-Linked Bispyridinium Amide for Selective Sensing of H ₂ PO ₄ ⁻ by Fluorescence and Gel Formation. <i>European Journal of Organic Chemistry</i> , 2012, 2012, 1311-1317.	2.4	30
14	A new approach for the delivery of artemisinin: Formulation, characterization, and ex-vivo antileishmanial studies. <i>Journal of Colloid and Interface Science</i> , 2014, 432, 258-269.	9.4	29
15	Complexation, retention and release pattern of arsenic from humic/fulvic acid extracted from zinc and iron enriched vermicompost. <i>Journal of Environmental Management</i> , 2022, 318, 115531.	7.8	21
16	Nano-structured Magnesium Oxide as Efficient Recyclable Catalyst for Knoevenagel and Claisen-Schmidt Condensation Reactions. <i>ChemistrySelect</i> , 2016, 1, 4778-4784.	1.5	19
17	Biogenic silver nanoparticle synthesis and stabilization for apoptotic activity; insights from experimental and theoretical studies. <i>Chemical Papers</i> , 2020, 74, 4089-4101.	2.2	18
18	Inhibitory capacity of chloroquine against SARS-COV-2 by effective binding with angiotensin converting enzyme-2 receptor: An insight from molecular docking and MD-simulation studies. <i>Journal of Molecular Structure</i> , 2021, 1230, 129891.	3.6	18

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19	Dual sensing and synchronous fluorescence spectroscopic monitoring of Cr ³⁺ and Al ³⁺ using a luminescent Schiff base: Extraction and DFT studies. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 228, 117837.	3.9	17
20	Facile Green Synthesis of Silver Bionanocomposite with Size Dependent Antibacterial and Synergistic Effects: A Combined Experimental and Theoretical Studies. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2020, 30, 1839-1851.	3.7	16
21	Copper nanoparticle induced macromutation in <i>Macrotyloma uniflorum</i> (Lam.) Verdc. (Leguminosae): a pioneer report. <i>Genetic Resources and Crop Evolution</i> , 2015, 62, 165-175.	1.6	14
22	Isolation of antimicrobial Tridecanoic acid from <i>Bacillus</i> sp. LBF-01 and its potentialization through silver nanoparticles synthesis: a combined experimental and theoretical studies. <i>Journal of Nanostructure in Chemistry</i> , 2021, 11, 573-587.	9.1	14
23	Depletion of Soil Potassium under Exhaustive Cropping in Inceptisol and Alfisol. <i>Communications in Soil Science and Plant Analysis</i> , 2014, 45, 61-72.	1.4	12
24	Target synthesis of biocompatible spherical bismuth sulphide nanoparticles for biological application. <i>Journal of Sol-Gel Science and Technology</i> , 2016, 77, 446-452.	2.4	12
25	Effective Potentiality of Synthesised CdS Nanoparticles in Inducing Genetic Variation on <i>Macrotyloma uniflorum</i> (Lam.) Verdc.. <i>BioNanoScience</i> , 2015, 5, 171-180.	3.5	11
26	Naphthalene and pyrrole substituted guanidine in selective sensing of Cu ²⁺ , Hg ²⁺ , Pb ²⁺ and CN ⁻ ions under different conditions. <i>Supramolecular Chemistry</i> , 2017, 29, 528-535.	1.2	9
27	Luminescence sensing, DFT, extraction and monitoring of Cr ³⁺ and Al ³⁺ via the application of first derivative fluorescence spectroscopy. <i>New Journal of Chemistry</i> , 2020, 44, 12692-12703.	2.8	9
28	Critical Antileishmanial in vitro Effects of Highly Examined Gold Nanoparticles. <i>International Journal of Nanomedicine</i> , 2021, Volume 16, 7285-7295.	6.7	9
29	Liming Effects on Extractable Boron in Six Acidic Soils. <i>Communications in Soil Science and Plant Analysis</i> , 2015, 46, 1320-1325.	1.4	7
30	Methane Dissociation on Bimetallic AuNi ₃ , Au ₂ Ni ₂ and Au ₃ Ni Clusters – A DFT Study. <i>ChemistrySelect</i> , 2018, 3, 3133-3140.	1.5	7
31	Diamino malenitrile-linked naphthalimide in selective sensing of F ⁻ , CN ⁻ , Hg ²⁺ and Cu ²⁺ under different experimental conditions. <i>Supramolecular Chemistry</i> , 2020, 32, 403-413.	1.2	7
32	Environmentally hazardous gas sensing ability of MoS ₂ -nanotubes: an insight from the electronic structure and transport properties. <i>Nanoscale Advances</i> , 2021, 3, 4528-4535.	4.6	7
33	pH-regulated hydrothermal synthesis and characterization of Sb ₄ O ₅ X ₂ (X = Br/Cl) and its use for the dye degradation of methyl orange both with and without light illumination. <i>RSC Advances</i> , 2022, 12, 8374-8384.	3.6	7
34	New Efficient Ligand-Free, Copper Nanoparticle Catalyzed Coupling Reactions of Aryl Halides with Diethyl Malonate to Produce α -Arylation of Malonates. <i>Synthesis</i> , 2013, 45, 1475-1482.	2.3	5
35	Reactivity of CO on Ni ₄ cluster- effect of spin multiplicity and H doping-A DFT investigation. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 204, 362-369.	3.9	5
36	Anti-corrosive properties of quercetin and its derivatives on Fe(111) surface: a quantum chemical approach. <i>SN Applied Sciences</i> , 2019, 1, 1.	2.9	5

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37	CdS quantum dots embedded in PVP: Inorganic phosphate ion sensing in real sample and its antimicrobial activity. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 234, 118256.	3.9	5
38	Spectrofluorimetric study on in vitro interaction between calcium phosphate nanoparticle and salmon testis DNA. <i>Journal of Nanoparticle Research</i> , 2014, 16, 1.	1.9	4
39	Coumarin based emissive rod shaped new schiff base mesogens and their zinc(II) complexes: synthesis, photophysical, mesomorphism, gelation and DFT studies. <i>Liquid Crystals</i> , 0, , 1-18.	2.2	4
40	Synthesis and Characterization of Graphene like Carbon Nanosheet: Interaction with some Drug Molecules and Anticancer Activity. <i>ChemistrySelect</i> , 2017, 2, 3516-3526.	1.5	4
41	Controlled Synthesis of Different Morphologies of Cu-MgO and Their Application as Catalysts in Synthesis of 1,2,3-Triazoles Following Different Pathways. <i>ChemistrySelect</i> , 2017, 2, 7340-7352.	1.5	4
42	The reactivity of CO on bimetallic Ni ₃ M clusters (M = Sc, Ti, V, Cr, Mn, Fe, Co, Cu, Rh, Ru, Ag, Pd and Pt) by density functional theory. <i>New Journal of Chemistry</i> , 2019, 43, 11363-11373.	2.8	3
43	Tailoring electronic and transport properties of edge-terminated armchair graphene by defect formation and N/B doping. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2020, 384, 126194.	2.1	3
44	Green synthesized silver NPs: fluorescence sensor for Cl ⁻ ions in aqueous solution in biological pH and cell viability study. <i>SN Applied Sciences</i> , 2020, 2, 1.	2.9	3
45	Interaction of copper nanoparticles with DNA: structural and docking studies. <i>Journal of Biomolecular Structure and Dynamics</i> , 2020, 38, 1256-1261.	3.5	2
46	Inhibitory effect of compounds extracted from <i>Monochoria hastata</i> (L.) Solms on SARS-CoV-2 main protease: An insight from molecular docking and MD-simulation studies. <i>Journal of Molecular Structure</i> , 2022, 1257, 132644.	3.6	2
47	A Co(III) Complex of 1-Amino-4-hydroxy-9,10-anthraquinone Exhibits Apoptotic Action against MCF-7 Human Breast Cancer Cells. <i>ACS Omega</i> , 2022, 7, 1428-1436.	3.5	1
48	A Trinuclear Crystallochromic Cd(II) Complex with Zwitterionic Coordination Terminals: Network of Metalorganic Motifs Through C-H...N and Charge Promoted N...N Associations in Solid State. <i>Journal of Chemical Crystallography</i> , 2014, 44, 177-184.	1.1	0
49	Dissociation of hydrazine on tetrahedral Ni ₄ cluster by density functional theory. <i>SN Applied Sciences</i> , 2019, 1, 1.	2.9	0