

Narendra Nath Ghosh

List of Publications by Year in descending order

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Version: 2024-02-01

44
papers

736
citations

567281

15
h-index

610901

24
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45
all docs

45
docs citations

45
times ranked

648
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	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
4	Chitosan encapsulated water-soluble silver bionanocomposite for size-dependent antibacterial activity. <i>Nano Structures Nano Objects</i> , 2019, 20, 100393.	3.5	44
5	Modulating triphenylamine-based organic dyes for their potential application in dye-sensitized solar cells: a first principle theoretical study. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 25280-25287.	2.8	38
6	Green synthesis of antimicrobial silver nanoparticles using fruit extract of Glycosmis pentaphylla and its theoretical explanations. <i>Journal of Molecular Structure</i> , 2022, 1247, 131361.	3.6	35
7	Inhibitory efficiency of potential drugs against SARS-CoV-2 by blocking human angiotensin converting enzyme-2: Virtual screening and molecular dynamics study. <i>Microbial Pathogenesis</i> , 2021, 152, 104762.	2.9	23
8	Investigation of molecular interactions insight into some biologically active amino acids and aqueous solutions of an anti-malarial drug by physicochemical and theoretical approach. <i>Journal of Molecular Liquids</i> , 2021, 341, 116933.	4.9	20
9	Tuning the BODIPY core for its potential use in DSSC: a quantum chemical approach. <i>Bulletin of Materials Science</i> , 2018, 41, 1.	1.7	19
10	Inhibitory efficacy of RNA virus drugs against SARS-CoV-2 proteins: An extensive study. <i>Journal of Molecular Structure</i> , 2021, 1234, 130152.	3.6	19
11	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
12	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
13	One-pot synthesis of sodium alginate-grafted-terpolymer hydrogel for As(III) and V(V) removal: In situ anchored comonomer and DFT studies on structures. <i>Journal of Environmental Management</i> , 2021, 294, 112932.	7.8	17
14	Physicochemical and elemental studies of Hydrocotyle javanica Thunb. for standardization as herbal drug. <i>Asian Pacific Journal of Tropical Biomedicine</i> , 2017, 7, 979-986.	1.2	16
15	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
16	Inhibitory effect of anti-HIV compounds extracted from Indian medicinal plants to retard the replication and transcription process of SARS-CoV-2: an insight from molecular docking and MD-simulation studies. <i>Network Modeling Analysis in Health Informatics and Bioinformatics</i> , 2021, 10, 32.	2.1	16
17	Molecular engineering of anchoring groups for designing efficient triazatruxene-based organic dye-sensitized solar cells. <i>New Journal of Chemistry</i> , 2019, 43, 6480-6491.	2.8	15
18	Nonconventional biocompatible macromolecular AEEgens for sensitive detections and removals of Cu(II) and Fe(III): N and/ or O donor(s) selective coordinations of metal ions. <i>Sensors and Actuators B: Chemical</i> , 2021, 331, 129386.	7.8	15

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19	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
20	Nonconjugated Biocompatible Macromolecular Luminogens for Sensing and Removals of Fe(III) and Cu(II): DFT Studies on Selective Coordination(s) and On-Off Sensing. <i>Macromolecular Rapid Communications</i> , 2021, 42, e2000522.	3.9	13
21	Intrinsically Fluorescent Biocompatible Terpolymers for Detection and Removal of Bi(III) and Cell Imaging. <i>ACS Applied Bio Materials</i> , 2020, 3, 6155-6166.	4.6	12
22	Encapsulated hydroxychloroquine and chloroquine into cyclic oligosaccharides are the potential therapeutics for COVID-19: insights from first-principles calculations. <i>Journal of Molecular Structure</i> , 2022, 1247, 131371.	3.6	12
23	Synthesis of Nonaromatic Macromolecular Luminogens, DFT Studies on Photophysics, and On-Off Selective Sensors: Contributions of In Situ (Methylol)Acrylamido Comonomers. <i>Advanced Optical Materials</i> , 2021, 9, 2100802.	7.3	11
24	Light-Emitting Redox Polymers for Sensing and Removal-Reduction of Cu(II): Roles of Hydrogen Bonding in Nonconventional Fluorescence. <i>ACS Applied Polymer Materials</i> , 2022, 4, 1643-1656.	4.4	11
25	Controlling the charge transfer and recombination dynamics in hollow ZnO QD based dye sensitized solar cell: An insight from ab initio simulation. <i>Chemical Physics Letters</i> , 2018, 709, 21-25.	2.6	10
26	Ratiometric pH Sensing, Photophysics, and Cell Imaging of Nonaromatic Light-Emitting Polymers. <i>ACS Applied Bio Materials</i> , 2022, 5, 2990-3005.	4.6	9
27	Naphthalimide-decorated imino-phenol: supramolecular gelation and selective sensing of Fe ³⁺ and Cu ²⁺ ions under different experimental conditions. <i>New Journal of Chemistry</i> , 2021, 45, 5213-5220.	2.8	8
28	Synthesis of gum tragacanth-grafted pentapolymer hydrogels for As(III) exclusion: Roles of microwaves, RSM optimization, and DFT studies. <i>International Journal of Biological Macromolecules</i> , 2021, 184, 909-925.	7.5	8
29	Molecular Interactions of Some Bioactive Molecules Prevalent in Aqueous Ionic Liquid Solutions at Different Temperatures Investigated by Experimental and Computational Contrivance. <i>Fluid Phase Equilibria</i> , 2022, 557, 113415.	2.5	8
30	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
31	Production and characterization of a broad-spectrum antimicrobial 5-butyl-2-pyridine carboxylic acid from <i>Aspergillus fumigatus</i> nHF-01. <i>Scientific Reports</i> , 2022, 12, 6006.	3.3	7
32	Screening of potential anti-HIV compounds from <i>Achyranthes aspera</i> extracts for SARS-CoV-2: An insight from molecular docking study. <i>Journal of Physics: Conference Series</i> , 2021, 1797, 012042.	0.4	6
33	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
34	CO ₂ activation on transition metal decorated graphene quantum dots: An insight from first principles. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2022, 135, 114993.	2.7	5
35	Molecular design of porphyrin dyes using different electron-withdrawing moieties for high performance dye-sensitized solar cells. <i>Computational and Theoretical Chemistry</i> , 2020, 1182, 112846.	2.5	5
36	Comparative study of CO ₂ activation on alkali metals encapsulated III-V hollow nanocages: An insight from first-principles calculations. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2021, 412, 127554.	2.1	4

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37	Pharmacognostic Standardization of an Ethnomedicinal Aquatic Herb, <i>Monochoria hastata</i> (L.) Solms for its Antibacterial Potentiality. <i>Pharmacognosy Journal</i> , 2018, 10, 533-540.	0.8	4
38	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
39	Anti-enteric efficacy and mode of action of tridecanoic acid methyl ester isolated from <i>Monochoria hastata</i> (L.) Solms leaf. <i>Brazilian Journal of Microbiology</i> , 2022, , 1.	2.0	3
40	Repurposing of anti-lung cancer drugs as multi-target inhibitors of SARS-CoV-2 proteins: An insight from molecular docking and MD-simulation study. <i>Microbial Pathogenesis</i> , 2022, 169, 105615.	2.9	3
41	Development of a tripeptide based arginine sensor via applying the concept of molecular engineering. <i>Colloids and Interface Science Communications</i> , 2021, 41, 100364.	4.1	2
42	Silver Ion Selective Gelation of Simple Pyridine Naphthalimide Conjugates with Multiple Applications: Sensing, Drug Delivery, Dye Adsorption and Ion Conductivity. <i>ChemistrySelect</i> , 2021, 6, 11696-11705.	1.5	2
43	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
44	GC-MS Analysis of Anti-Enterobacterial Dichloromethane Fraction of <i>Mandukaparni</i> (<i>Hydrocotyle</i>)	0.8	1