

Animesh K Ojha

List of Publications by Year in descending order

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80
papers

2,630
citations

159585

30
h-index

197818

49
g-index

83
all docs

83
docs citations

83
times ranked

3521
citing authors

#	ARTICLE	IF	CITATIONS
1	Sun/UV-light driven photocatalytic degradation of rhodamine B dye by Zn doped CdS nanostructures as photocatalyst. <i>Materials Chemistry and Physics</i> , 2022, 277, 125531.	4.0	17
2	Light and stable Li_nB_{14} ($n=1-5$) clusters for high capacity hydrogen storage at room temperature: A DFT study. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 7861-7869.	7.1	11
3	Environmental stability and excited state dynamics of $\text{MAI}-(\text{PbI}_2)_{1-x}(\text{NiCl}_2)_x$. <i>Materials Chemistry and Physics</i> , 2021, 259, 124179.	4.0	1
4	Designing Organic Electron Transport Materials for Stable and Efficient Performance of Perovskite Solar Cells: A Theoretical Study. <i>ACS Omega</i> , 2021, 6, 7086-7093.	3.5	12
5	Role of Annealing Temperature on Structural Modification of MoO_3 for Enhanced Electrochemical Properties. , 2021, , 19-26.		0
6	Modifications in structural morphology of $\text{CH}_3\text{NH}_3\text{PbI}_3$ perovskite using nitrilotriacetic acid and glycine as habit modifiers. <i>Materials Chemistry and Physics</i> , 2020, 240, 122149.	4.0	9
7	Tuning of structural and magnetic properties by intriguing radical-radical interaction by double electron oxidation in U-A-U ϵ^2 triplex formation. <i>Chemical Physics</i> , 2020, 528, 110527.	1.9	0
8	Facile synthesis of porous nanostructures of NiCo_2O_4 grown on rGO sheet for high performance supercapacitors. <i>Synthetic Metals</i> , 2020, 259, 116215.	3.9	50
9	Coal derived graphene as an efficient supercapacitor electrode material. <i>Chemical Physics</i> , 2020, 530, 110607.	1.9	16
10	Designing vertically aligned porous $\text{NiCo}_2\text{O}_4@ \text{MnMoO}_4$ Core@Shell nanostructures for high-performance asymmetric supercapacitors. <i>Journal of Colloid and Interface Science</i> , 2020, 580, 720-729.	9.4	33
11	Electronic structure of iron dinitrogen complex $[(\text{TPB})\text{FeN}_2]^{2+}/1^{-}/0$: correlation to Mössbauer parameters. <i>RSC Advances</i> , 2020, 10, 7948-7955.	3.6	4
12	Improved environmental stability of cobalt incorporated methylammonium lead iodide perovskite for resistive switching applications. <i>Chemical Physics</i> , 2020, 538, 110900.	1.9	3
13	Charcoal derived graphene quantum dots for flexible supercapacitor oriented applications. <i>New Journal of Chemistry</i> , 2020, 44, 11085-11091.	2.8	22
14	Material Study of Co_2CrAl Heusler Alloy Magnetic Thin Film and $\text{Co}_2\text{CrAl}/n\text{-Si}$ Schottky Junction Device. <i>Journal of Electronic Materials</i> , 2020, 49, 3652-3658.	2.2	5
15	Controlled synthesis of $\text{NiCo}_2\text{S}_4@ \text{NiCo}_2\text{O}_4$ core@Shell nanostructured arrays decorated over the rGO sheets for high-performance asymmetric supercapacitor. <i>Electrochimica Acta</i> , 2020, 349, 136349.	5.2	70
16	Hydrogen storage in magnesium decorated boron clusters (Mg_2B_n , $n = 4-14$): A density functional theory study. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 12961-12971.	7.1	41
17	Self-assembling of interconnected strips of CoMoO_4 on graphene sheet as supercapacitor electrodes. <i>AIP Conference Proceedings</i> , 2020, , .	0.4	0
18	Revisiting mechanistic studies on dinitrogen reduction to ammonia by an iron dinitrogen complex as nitrogenase mimic. <i>International Journal of Quantum Chemistry</i> , 2019, 119, e26025.	2.0	3

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19	Temperature induced modifications in shapes and crystal phases of MoO ₃ for enhanced photocatalytic degradation of dye waste water pollutants under UV irradiation. <i>Journal of Alloys and Compounds</i> , 2019, 806, 1368-1376.	5.5	36
20	A new approach to predict the formation of 3D hybrid organic-inorganic perovskites. <i>International Journal of Quantum Chemistry</i> , 2019, 119, e26012.	2.0	8
21	Facile synthesis of CuO nanowires and Cu ₂ O nanospheres grown on rGO surface and exploiting its photocatalytic, antibacterial and supercapacitive properties. <i>Physica B: Condensed Matter</i> , 2019, 558, 74-81.	2.7	68
22	Reshuffling of Electronic Environment by Introducing CH ₃ NH ₂ ⁺ as an Organic Cation for Enhanced Power Conversion Efficiency and Stability of the Designed Hybrid Organic-Inorganic Perovskite. <i>Journal of Physical Chemistry C</i> , 2019, 123, 13385-13393.	3.1	5
23	Strategic Design and Utilization of Molecular Flexibility for Straddling the Application of Organic Superbases: A DFT Study. <i>ChemistrySelect</i> , 2018, 3, 837-842.	1.5	10
24	Well-controlled in-situ growth of 2D WO ₃ rectangular sheets on reduced graphene oxide with strong photocatalytic and antibacterial properties. <i>Journal of Hazardous Materials</i> , 2018, 347, 266-278.	12.4	107
25	Experimental and theoretical investigations of unusual enhancement of room temperature ferromagnetism in nickel-cobalt codoped CeO ₂ nanostructures. <i>Journal of Magnetism and Magnetic Materials</i> , 2018, 465, 756-761.	2.3	6
26	Photodegradation of phenanthrene catalyzed by rGO sheets and disk like structures synthesized using sugar cane juice as a reducing agent. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 204, 603-610.	3.9	33
27	Facile synthesis and photophysics of graphene quantum dots. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018, 364, 671-678.	3.9	18
28	Binding patterns of metal cations (Na ⁺ , K ⁺ , Cu ²⁺ , and Zn ²⁺) with Trp-Trp di-peptide investigated by DFT, NBO, and MD simulation. <i>Computational and Theoretical Chemistry</i> , 2018, 1141, 7-14.	2.5	2
29	Investigation of the encapsulation of metal cations (Cu ²⁺ , Zn ²⁺ , Ca ²⁺ and Ba ²⁺) by the dipeptide Phe-Phe using natural bond orbital theory and molecular dynamics simulation. <i>Journal of Molecular Modeling</i> , 2017, 23, 88.	1.8	2
30	Facile synthesis of CdO nanorods and exploiting its properties towards supercapacitor electrode materials and low power UV irradiation driven photocatalysis against methylene blue dye. <i>Materials Research Bulletin</i> , 2017, 90, 224-231.	5.2	71
31	Tunable (violet to green) emission by high-yield graphene quantum dots and exploiting its unique properties towards sun-light-driven photocatalysis and supercapacitor electrode materials. <i>Materials Today Communications</i> , 2017, 11, 76-86.	1.9	96
32	Tailoring of enhanced interfacial polarization in WO ₃ nanorods grown over reduced graphene oxide synthesized by a one-step hydrothermal method. <i>RSC Advances</i> , 2017, 7, 13985-13996.	3.6	37
33	One-pot synthesis of Ni doped CdS nanosheets for near infrared emission and excellent photocatalytic materials for degradation of MB dye under UV and sunlight irradiation. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2017, 179, 144-154.	3.9	42
34	Facile and controlled synthesis of aligned WO ₃ nanorods and nanosheets as an efficient photocatalyst material. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2017, 175, 250-261.	3.9	77
35	A vibrational and conformational characterization of arginine at different pH values investigated using Raman spectroscopy combined with DFT calculations. <i>Journal of Raman Spectroscopy</i> , 2016, 47, 1073-1085.	2.5	11
36	Ionic and tautomeric conformers of adenine at different pH investigated by Raman spectroscopy combined with DFT calculations. <i>Journal of Raman Spectroscopy</i> , 2016, 47, 1086-1094.	2.5	5

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37	Un-catalyzed peptide bond formation between two monomers of glycine, alanine, serine, threonine, and aspartic acid in gas phase: a density functional theory study. <i>European Physical Journal D</i> , 2016, 70, 1.	1.3	4
38	Shape induced (spherical, sheets and rods) optical and magnetic properties of CdS nanostructures with enhanced photocatalytic activity for photodegradation of methylene blue dye under ultra-violet irradiation. <i>Journal of Alloys and Compounds</i> , 2016, 679, 324-334.	5.5	84
39	Cadmium oxide nanoparticles grown in situ on reduced graphene oxide for enhanced photocatalytic degradation of methylene blue dye under ultraviolet irradiation. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2016, 159, 111-119.	3.8	89
40	Ni, Co and Ni ²⁺ Co codoping induced modification in shape, optical band gap and enhanced photocatalytic activity of CeO ₂ nanostructures for photodegradation of methylene blue dye under visible light irradiation. <i>RSC Advances</i> , 2016, 6, 8651-8660.	3.6	39
41	Experimental and theoretical evidence for the presence of room temperature ferromagnetism in undoped and Mn doped tetragonal ZrO ₂ nanostructures. <i>Chemical Physics Letters</i> , 2016, 644, 271-275.	2.6	11
42	One-step in situ synthesis of CeO ₂ nanoparticles grown on reduced graphene oxide as an excellent fluorescent and photocatalyst material under sunlight irradiation. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 11157-11167.	2.8	89
43	Room temperature ferromagnetism in undoped and Mn doped t-ZrO ₂ nanostructures originated due to oxygen vacancy and effect of Mn doping on its optical properties. <i>Materials Chemistry and Physics</i> , 2016, 169, 13-20.	4.0	36
44	In-situ synthesis of reduced graphene oxide decorated with highly dispersed ferromagnetic CdS nanoparticles for enhanced photocatalytic activity under UV irradiation. <i>Materials Chemistry and Physics</i> , 2016, 171, 126-136.	4.0	46
45	Raman fingerprint of the interaction of K ⁺ with the COO ⁻ group of zwitterionic alanine. <i>Journal of Raman Spectroscopy</i> , 2015, 46, 1191-1199.	2.5	3
46	Controlled synthesis and magnetic properties of monodispersed ceria nanoparticles. <i>AIP Advances</i> , 2015, 5, .	1.3	43
47	Room temperature ferromagnetism in undoped and Mn doped CdO nanostructures. <i>Journal of Magnetism and Magnetic Materials</i> , 2015, 393, 555-561.	2.3	29
48	Oxygen vacancy induced photoluminescence properties and enhanced photocatalytic activity of ferromagnetic ZrO ₂ nanostructures on methylene blue dye under ultra-violet radiation. <i>Journal of Alloys and Compounds</i> , 2015, 644, 654-662.	5.5	104
49	Absence of room temperature ferromagnetism in Fe stabilized ZrO ₂ nanostructures and effect of Fe doping on its structural, optical and luminescence properties. <i>Journal of Alloys and Compounds</i> , 2015, 649, 348-356.	5.5	45
50	Direct visual evidence of end-on adsorption geometry of pyridine on silver surface investigated by surface enhanced Raman scattering and density functional theory calculations. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 151, 888-894.	3.9	3
51	Effect of calcination temperature on phase transformation, structural and optical properties of sol-gel derived ZrO ₂ nanostructures. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2015, 66, 74-80.	2.7	78
52	Synthesis and Raman signature for the formation of CdO/MnO ₂ (core/shell) nanostructures. <i>Journal of Raman Spectroscopy</i> , 2014, 45, 717-722.	2.5	24
53	Different proton transfer channels for the transformation of zwitterionic alanine ⁻ (H ₂ O) _{n=2-4} to nonzwitterionic alanine ⁺ (H ₂ O) _{n=2-4} : a density functional theory study. <i>Journal of Molecular Modeling</i> , 2014, 20, 2124.	1.8	4
54	Synthesis, magnetic and Mössbauer spectroscopic studies of Cr doped lithium ferrite nanoparticles. <i>Journal of Alloys and Compounds</i> , 2014, 591, 174-180.	5.5	42

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55	Size dependent structural, electronic, and magnetic properties of ScN (N=2-14) clusters investigated by density functional theory. <i>Journal of Molecular Modeling</i> , 2014, 20, 2481.	1.8	6
56	Synthesis of well dispersed silver nanorods of different aspect ratios and their antimicrobial properties against gram positive and negative bacterial strains. <i>Journal of Nanobiotechnology</i> , 2013, 11, 42.	9.1	42
57	Synthesis, characterizations and antimicrobial activities of well dispersed ultra-long CdO nanowires. <i>AIP Advances</i> , 2013, 3, .	1.3	27
58	Synthesis of superparamagnetic bare Fe ₃ O ₄ nanostructures and core/shell (Fe ₃ O ₄ /alginate) nanocomposites. <i>Carbohydrate Polymers</i> , 2012, 89, 821-829.	10.2	96
59	Interaction of gold nanoclusters of different size with adenine: A density functional theory study of neutral, anionic and cationic forms of [adenine+(Au) _{n=3,6,9,12}] complexes. <i>Computational and Theoretical Chemistry</i> , 2012, 984, 93-101.	2.5	14
60	Gas phase structural stability of neutral and zwitterionic forms of alanine in presence of (H ₂ O) _{n=1-7} clusters: A density functional theory study. <i>Computational and Theoretical Chemistry</i> , 2012, 1002, 16-23.	2.5	8
61	Investigation on transition States of [Alanine + M ²⁺] (M = Ca, Cu, and Zn) complexes: A quantum chemical study. <i>International Journal of Quantum Chemistry</i> , 2012, 112, 1526-1536.	2.0	4
62	Complex concentration dependence of SERS and UV-Vis absorption of glycine/Ag substrates because of glycine-mediated Ag nanostructure modifications. <i>Journal of Raman Spectroscopy</i> , 2012, 43, 1183-1190.	2.5	11
63	A study on interaction of Be ⁺⁺ , Mg ⁺⁺ and Ca ⁺⁺ with phenylalanine: Binding energies, metal ion affinities and IR signature of complex stability. <i>Vibrational Spectroscopy</i> , 2011, 56, 42-50.	2.2	3
64	Effect of regular hydration on gas phase structural stability of [zwitterionic alanine+M ⁺] (M=Li ⁺ , Tj ETQq0 0 0 rgBT/Overlock 10 Tf 50	1.9	3
65	Calculation of dissociation constants and chemical hardness of some biologically important molecules: A theoretical study. <i>International Journal of Quantum Chemistry</i> , 2011, 111, 3961-3970.	2.0	2
66	Hydrogen bonding in different pyrimidine-methanol clusters probed by polarized Raman spectroscopy and DFT calculations. <i>Journal of Raman Spectroscopy</i> , 2011, 42, 667-675.	2.5	27
67	Simulation of the Raman spectra of zwitterionic glycine+nH ₂ O (n=1, 2, 3, 5) by means of DFT calculations and comparison to the experimentally observed Raman spectra of glycine in aqueous medium. <i>Vibrational Spectroscopy</i> , 2011, 55, 69-76.	2.2	17
68	Size dependent electron-phonon coupling in Li _{0.5} Co _{0.1} Fe _{2.4} O ₄ nanoparticles investigated by Raman spectroscopy. <i>Vibrational Spectroscopy</i> , 2011, 56, 19-25.	2.2	6
69	In-situ synthesis of magnetic (NiFe ₂ O ₄ /CuO/FeO) nanocomposites. <i>Journal of Solid State Chemistry</i> , 2010, 183, 2669-2674.	2.9	15
70	Influence of pH on structural morphology and magnetic properties of ordered phase cobalt doped lithium ferrites nanoparticles synthesized by sol-gel method. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2010, 175, 14-21.	3.5	80
71	Glycolic acid assisted one-step synthesis of Cu-Ni-Fe metal oxide nanocomposites by sol-gel-combustion method: Structural, spectroscopic and magnetic studies. <i>Materials Chemistry and Physics</i> , 2010, 120, 493-500.	4.0	12
72	Interaction of alanine with small water clusters; Ala-(H ₂ O) _n (n=1, 2 and 3): A density functional study. <i>Computational and Theoretical Chemistry</i> , 2010, 940, 95-102.	1.5	17

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73	Influence of calcinations temperature on physical properties of the nanocomposites containing spinel and CuO phases. <i>Journal of Alloys and Compounds</i> , 2010, 494, 275-284.	5.5	43
74	Investigation on magnetic properties of γ -Fe ₂ O ₃ nanoparticles synthesized under surfactant-free condition by hydrothermal process. <i>Journal of Alloys and Compounds</i> , 2010, 500, 206-210.	5.5	46
75	Investigation on size dependent structural and magnetic behavior of nickel ferrite nanoparticles prepared by sol-gel and hydrothermal methods. <i>Materials Chemistry and Physics</i> , 2009, 118, 174-180.	4.0	219
76	Dynamics and mechanism of the Crystal II \rightarrow smecticG phase transition in TB7A by a temperature-dependent micro-Raman study and DFT calculations. <i>Journal of Raman Spectroscopy</i> , 2009, 40, 881-886.	2.5	21
77	Synthesis and optical characterization of nanocrystalline NiFe ₂ O ₄ structures. <i>Journal of Alloys and Compounds</i> , 2009, 481, 515-519.	5.5	137
78	Investigation of $\nu_{1/2}(\text{NH})$ and $\nu_{1/2}(\text{CN})$ stretching modes of propylamine (C ₃ H ₇ NH ₂) in a binary system C ₃ H ₇ NH ₂ +CH ₃ OH via concentration dependent Raman study and ab initio calculations. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2005, 61, 2832-2839.	3.9	9
79	Concentration dependent wavenumber shifts and linewidth changes of some prominent vibrational modes of C ₄ H ₈ O investigated in a binary system (C ₄ H ₈ O+H ₂ O) by polarized Raman study and ab initio calculations. <i>Journal of Molecular Structure</i> , 2005, 735-736, 349-357.	3.6	24
80	Investigation of hydrogen bonding and self-association in neat HCONH ₂ and the binary mixture (HCONH ₂ +CH ₃ OH) by concentration dependent Raman study and ab initio calculations. <i>Journal of Molecular Structure</i> , 2004, 689, 127-135.	3.6	30