Animesh K Ojha

List of Publications by Year
in descending order

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80	2,630	159585 30	197818 49
papers	citations	h-index	g-index

83	83	83	3521
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Investigation on size dependent structural and magnetic behavior of nickel ferrite nanoparticles prepared by solâ€“gel and hydrothermal methods. Materials Chemistry and Physics, 2009, 118, 174-180.	4.0	219
2	Synthesis and optical characterization of nanocrystalline NiFe2O4 structures. Journal of Alloys and Compounds, 2009, 481, 515-519.	5.5	137
3	Well-controlled in-situ growth of 2D WO 3 rectangular sheets on reduced graphene oxide with strong photocatalytic and antibacterial properties. Journal of Hazardous Materials, 2018, 347, 266-278.	12.4	107
4	Oxygen vacancy induced photoluminescence properties and enhanced photocatalytic activity of ferromagnetic ZrO2 nanostructures on methylene blue dye under ultra-violet radiation. Journal of Alloys and Compounds, 2015, 644, 654-662.	5.5	104
5	Synthesis of superparamagnetic bare Fe3O4 nanostructures and core/shell (Fe3O4/alginate) nanocomposites. Carbohydrate Polymers, 2012, 89, 821-829.	10.2	96
6	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. Materials Today Communications, 2017, 11, 76-86.	1.9	96
7	Cadmium oxide nanoparticles grown in situ on reduced graphene oxide for enhanced photocatalytic degradation of methylene blue dye under ultraviolet irradiation. Journal of Photochemistry and Photobiology B: Biology, 2016, 159, 111-119.	3.8	89
8	One-step in situ synthesis of CeO₂nanoparticles grown on reduced graphene oxide as an excellent fluorescent and photocatalyst material under sunlight irradiation. Physical Chemistry Chemical Physics, 2016, 18, 11157-11167.	2.8	89
9	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. Journal of Alloys and Compounds, 2016, 679, 324-334.	5.5	84
10	Influence of pH on structural morphology and magnetic properties of ordered phase cobalt doped lithium ferrites nanoparticles synthesized by solâ€“gel method. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2010, 175, 14-21.	3.5	80
11	Effect of calcination temperature on phase transformation, structural and optical properties of solâ€“gel derived ZrO2 nanostructures. Physica E: Low-Dimensional Systems and Nanostructures, 2015, 66, 74-80.	2.7	78
12	Facile and controlled synthesis of aligned WO3 nanorods and nanosheets as an efficient photocatalyst material. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2017, 175, 250-261.	3.9	77
13	Facile synthesis of CdO nanorods and exploiting its properties towards supercapacitor electrode materials and low power UV irradiation driven photocatalysis against methylene blue dye. Materials Research Bulletin, 2017, 90, 224-231.	5.2	71
14	Controlled synthesis of NiCo2S4@NiCo2O4 core@Shell nanostructured arrays decorated over the rGO sheets for high-performance asymmetric supercapacitor. Electrochimica Acta, 2020, 349, 136349.	5.2	70
15	Facile synthesis of CuO nanowires and Cu2O nanospheres grown on rGO surface and exploiting its photocatalytic, antibacterial and supercapacitive properties. Physica B: Condensed Matter, 2019, 558, 74-81.	2.7	68
16	Facile synthesis of porous nanostructures of NiCo2O4 grown on rGO sheet for high performance supercapacitors. Synthetic Metals, 2020, 259, 116215.	3.9	50
17	Investigation on magnetic properties of Î±-Fe2O3 nanoparticles synthesized under surfactant-free condition by hydrothermal process. Journal of Alloys and Compounds, 2010, 500, 206-210.	5.5	46
18	In-situ synthesis of reduced graphene oxide decorated with highly dispersed ferromagnetic CdS nanoparticles for enhanced photocatalytic activity under UV irradiation. Materials Chemistry and Physics, 2016, 171, 126-136.	4.0	46

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19	Absence of room temperature ferromagnetism in Fe stabilized ZrO2 nanostructures and effect of Fe doping on its structural, optical and luminescence properties. Journal of Alloys and Compounds, 2015, 649, 348-356.	5.5	45
20	Influence of calcinations temperature on physical properties of the nanocomposites containing spinel and CuO phases. Journal of Alloys and Compounds, 2010, 494, 275-284.	5.5	43
21	Controlled synthesis and magnetic properties of monodispersed ceria nanoparticles. AIP Advances, 2015, 5, .	1.3	43
22	Synthesis of wellâ€“dispersed silver nanorods of different aspect ratios and their antimicrobial properties against gram positive and negative bacterial strains. Journal of Nanobiotechnology, 2013, 11, 42.	9.1	42
23	Synthesis, magnetic and MÃ¶ssbauer spectroscopic studies of Cr doped lithium ferrite nanoparticles. Journal of Alloys and Compounds, 2014, 591, 174-180.	5.5	42
24	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. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2017, 179, 144-154.	3.9	42
25	Hydrogen storage in magnesium decorated boron clusters (Mg2Bn, n = 4â€“14): A density functional theory study. International Journal of Hydrogen Energy, 2020, 45, 12961-12971.	7.1	41
26	Ni, Co and Niâ€“Co codoping induced modification in shape, optical band gap and enhanced photocatalytic activity of CeO₂ nanostructures for photodegradation of methylene blue dye under visible light irradiation. RSC Advances, 2016, 6, 8651-8660.	3.6	39
27	Tailoring of enhanced interfacial polarization in WO₃ nanorods grown over reduced graphene oxide synthesized by a one-step hydrothermal method. RSC Advances, 2017, 7, 13985-13996.	3.6	37
28	Room temperature ferromagnetism in undoped and Mn doped t-ZrO2 nanostructures originated due to oxygen vacancy and effect of Mn doping on its optical properties. Materials Chemistry and Physics, 2016, 169, 13-20.	4.0	36
29	Temperature induced modifications in shapes and crystal phases of MoO3 for enhanced photocatalytic degradation of dye waste water pollutants under UV irradiation. Journal of Alloys and Compounds, 2019, 806, 1368-1376.	5.5	36
30	Photodegradation of phenanthrene catalyzed by rGO sheets and disk like structures synthesized using sugar cane juice as a reducing agent. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2018, 204, 603-610.	3.9	33
31	Designing vertically aligned porous NiCo2O4@MnMoO4 Core@Shell nanostructures for high-performance asymmetric supercapacitors. Journal of Colloid and Interface Science, 2020, 580, 720-729.	9.4	33
32	Investigation of hydrogen bonding and self-association in neat HCONH2 and the binary mixture (HCONH2+CH3OH) by concentration dependent Raman study and ab initio calculations. Journal of Molecular Structure, 2004, 689, 127-135.	3.6	30
33	Room temperature ferromagnetism in undoped and Mn doped CdO nanostructures. Journal of Magnetism and Magnetic Materials, 2015, 393, 555-561.	2.3	29
34	Hydrogen bonding in different pyrimidineâ€“methanol clusters probed by polarized Raman spectroscopy and DFT calculations. Journal of Raman Spectroscopy, 2011, 42, 667-675.	2.5	27
35	Synthesis, characterizations and antimicrobial activities of well dispersed ultra-long CdO nanowires. AIP Advances, 2013, 3, .	1.3	27
36	Concentration dependent wavenumber shifts and linewidth changes of some prominent vibrational modes of C4H8O investigated in a binary system (C4H8O+H2O) by polarized Raman study and ab initio calculations. Journal of Molecular Structure, 2005, 735-736, 349-357.	3.6	24

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37	Synthesis and Raman signature for the formation of CdO/MnO₂ (core/shell) nanostructures. Journal of Raman Spectroscopy, 2014, 45, 717-722.	2.5	24
38	Charcoal derived graphene quantum dots for flexible supercapacitor oriented applications. New Journal of Chemistry, 2020, 44, 11085-11091.	2.8	22
39	Dynamics and mechanism of the Crystal II â†' smecticG phase transition in TB7A by a temperature-dependent micro-Raman study and DFT calculations. Journal of Raman Spectroscopy, 2009, 40, 881-886.	2.5	21
40	Facile synthesis and photophysics of graphene quantum dots. Journal of Photochemistry and Photobiology A: Chemistry, 2018, 364, 671-678.	3.9	18
41	Interaction of alanine with small water clusters; Alaâ€"(H2O)n (n=1, 2 and 3): A density functional study. Computational and Theoretical Chemistry, 2010, 940, 95-102.	1.5	17
42	Simulation of the Raman spectra of zwitterionic glycine+nH2O (n=1, 2, â€¦, 5) by means of DFT calculations and comparison to the experimentally observed Raman spectra of glycine in aqueous medium. Vibrational Spectroscopy, 2011, 55, 69-76.	2.2	17
43	Sun/UV-light driven photocatalytic degradation of rhodamine B dye by Zn doped CdS nanostructures as photocatalyst. Materials Chemistry and Physics, 2022, 277, 125531.	4.0	17
44	Coal derived graphene as an efficient supercapacitor electrode material. Chemical Physics, 2020, 530, 110607.	1.9	16
45	In-situ synthesis of magnetic (NiFe2O4/CuO/FeO) nanocomposites. Journal of Solid State Chemistry, 2010, 183, 2669-2674.	2.9	15
46	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. Computational and Theoretical Chemistry, 2012, 984, 93-101.	2.5	14
47	Glycolic acid assisted one-step synthesis of Cuâ€"Niâ€"Fe metal oxide nanocomposites by solâ€"gel-combustion method: Structural, spectroscopic and magnetic studies. Materials Chemistry and Physics, 2010, 120, 493-500.	4.0	12
48	Designing Organic Electron Transport Materials for Stable and Efficient Performance of Perovskite Solar Cells: A Theoretical Study. ACS Omega, 2021, 6, 7086-7093.	3.5	12
49	Complex concentration dependence of SERS and UVâ€"Vis absorption of glycine/Agâ€substrates because of glycineâ€mediated Agâ€nanostructure modifications. Journal of Raman Spectroscopy, 2012, 43, 1183-1190.	2.5	11
50	A vibrational and conformational characterization of arginine at different pH values investigated using Raman spectroscopy combined with DFT calculations. Journal of Raman Spectroscopy, 2016, 47, 1073-1085.	2.5	11
51	Experimental and theoretical evidence for the presence of room temperature ferromagnetism in undoped and Mn doped tetragonal ZrO2 nanostructures. Chemical Physics Letters, 2016, 644, 271-275.	2.6	11
52	Light and stable LinB14(n=1â€"5) clusters for high capacity hydrogen storage at room temperature: A DFT study. International Journal of Hydrogen Energy, 2022, 47, 7861-7869.	7.1	11
53	Strategic Design and Utilization of Molecular Flexibility for Straddling the Application of Organic Superbases: A DFT Study. ChemistrySelect, 2018, 3, 837-842.	1.5	10
54	Investigation of Î½(NH) and Î½(CN) stretching modes of propylamine (C3H7NH2) in a binary system C3H7NH2+CH3OH via concentration dependent Raman study and ab initio calculations. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2005, 61, 2832-2839.	3.9	9

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55	Modifications in structural morphology of CH3NH3PbI3 perovskite using nitrilotriacetic acid and glycine as habit modifiers. Materials Chemistry and Physics, 2020, 240, 122149.	4.0	9
56	Gas phase structural stability of neutral and zwitterionic forms of alanine in presence of (H2O)n=1â€“7 clusters: A density functional theory study. Computational and Theoretical Chemistry, 2012, 1002, 16-23.	2.5	8
57	A new approach to predict the formation of 3D hybrid organicâ€inorganic perovskites. International Journal of Quantum Chemistry, 2019, 119, e26012.	2.0	8
58	Size dependent electronâ€“phonon coupling in Li0.5Co0.1Fe2.4O4 nanoparticles investigated by Raman spectroscopy. Vibrational Spectroscopy, 2011, 56, 19-25.	2.2	6
59	Size dependent structural, electronic, and magnetic properties of ScN (N=2-14) clusters investigated by density functional theory. Journal of Molecular Modeling, 2014, 20, 2481.	1.8	6
60	Experimental and theoretical investigations of unusual enhancement of room temperature ferromagnetism in nickel-cobalt codoped CeO2 nanostructures. Journal of Magnetism and Magnetic Materials, 2018, 465, 756-761.	2.3	6
61	Ionic and tautomeric conformers of adenine at different pH investigated by Raman spectroscopy combined with DFT calculations. Journal of Raman Spectroscopy, 2016, 47, 1086-1094.	2.5	5
62	Reshuffling of Electronic Environment by Introducing CH₃NH₂F⁺ as an Organic Cation for Enhanced Power Conversion Efficiency and Stability of the Designed Hybrid Organicâ€“Inorganic Perovskite. Journal of Physical Chemistry C, 2019, 123, 13385-13393.	3.1	5
63	Material Study of Co2CrAl Heusler Alloy Magnetic Thin Film and Co2CrAl/n-Si Schottky Junction Device. Journal of Electronic Materials, 2020, 49, 3652-3658.	2.2	5
64	Investigation on transition States of [Alanine + M²⁺] (M = Ca, Cu, and Zn) complexes: A quantum chemical study. International Journal of Quantum Chemistry, 2012, 112, 1526-1536.	2.0	4
65	Different proton transfer channels for the transformation of zwitterionic alanineâ€“(H2O) n=2-4 to nonzwitterionic alanineâ€“(H2O) n=2-4: a density functional theory study. Journal of Molecular Modeling, 2014, 20, 2124.	1.8	4
66	Un-catalyzed peptide bond formation between two monomers of glycine, alanine, serine, threonine, and aspartic acid in gas phase: a density functional theory study. European Physical Journal D, 2016, 70, 1.	1.3	4
67	Electronic structure of iron dinitrogen complex [(TPB)FeN₂]^{2â^'/1â^'/0}: correlation to MÃ¶ssbauer parameters. RSC Advances, 2020, 10, 7948-7955.	3.6	4
68	A study on interaction of Be++, Mg++ and Ca++ with phenylalanine: Binding energies, metal ion affinities and IR signature of complex stability. Vibrational Spectroscopy, 2011, 56, 42-50.	2.2	3
69	Effect of regular hydration on gas phase structural stability of [zwitterionic alanine+M+] (M+=Li+,) Tj ETQq1 1 0.784314 rgBT /Overlo	1.9	3
70	Raman fingerprint of the interaction of K⁺ with the COO^{â^'} group of zwitterionic alanine. Journal of Raman Spectroscopy, 2015, 46, 1191-1199.	2.5	3
71	Direct visual evidence of end-on adsorption geometry of pyridine on silver surface investigated by surface enhanced Raman scattering and density functional theory calculations. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2015, 151, 888-894.	3.9	3
72	Revisiting mechanistic studies on dinitrogen reduction to ammonia by an iron dinitrogen complex as nitrogenase mimic. International Journal of Quantum Chemistry, 2019, 119, e26025.	2.0	3

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73	Improved environmental stability of cobalt incorporated methylammonium lead iodide perovskite for resistive switching applications. Chemical Physics, 2020, 538, 110900.	1.9	3
74	Calculation of dissociation constants and chemical hardness of some biologically important molecules: A theoretical study. International Journal of Quantum Chemistry, 2011, 111, 3961-3970.	2.0	2
75	Investigation of the encapsulation of metal cations (Cu2+, Zn2+, Ca2+ and Ba2+) by the dipeptide Pheâ€“Phe using natural bond orbital theory and molecular dynamics simulation. Journal of Molecular Modeling, 2017, 23, 88.	1.8	2
76	Binding patterns of metal cations (Na+, K+, Cu2+, and Zn2+) with Trp-Trp di-peptide investigated by DFT, NBO, and MD simulation. Computational and Theoretical Chemistry, 2018, 1141, 7-14.	2.5	2
77	Environmental stability and excited state dynamics of MAI-(PbI2)1-x(NiCl2)x. Materials Chemistry and Physics, 2021, 259, 124179.	4.0	1
78	Tuning of structural and magnetic properties by intriguing radical-radical interaction by double electron oxidation in U-A-Uâ€² triplex formation. Chemical Physics, 2020, 528, 110527.	1.9	0
79	Self-assembling of interconnected strips of CoMoO4 on graphene sheet as supercapacitor electrodes. AIP Conference Proceedings, 2020, , .	0.4	0
80	Role of Annealing Temperature on Structural Modification of MoO3 for Enhanced Electrochemical Properties. , 2021, , 19-26.		0