Ratan Das

List of Publications by Year in descending order

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<u> ΡΑΤΑΝ ΠΑ</u>

#	Article	IF	CITATIONS
1	X-ray diffraction analysis by Williamson-Hall, Halder-Wagner and size-strain plot methods of CdSe nanoparticles- a comparative study. Materials Chemistry and Physics, 2020, 239, 122021.	2.0	597
2	Synthesis of silver nanoparticles and their optical properties. Journal of Experimental Nanoscience, 2010, 5, 357-362.	1.3	97
3	X-ray diffraction analysis for the determination of elastic properties of zinc-doped manganese spinel ferrite nanocrystals (Mn0.75Zn0.25Fe2O4), along with the determination of ionic radii, bond lengths, and hopping lengths. Journal of Physics and Chemistry of Solids, 2019, 134, 105-114.	1.9	65
4	Preparation and Antibacterial Activity of Silver Nanoparticles. Journal of Biomaterials and Nanobiotechnology, 2011, 02, 472-475.	1.0	63
5	Enhanced photocatalytic degradation of methyl orange dye on interaction with synthesized ligand free CdS nanocrystals under visible light illumination. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 231, 118122.	2.0	57
6	Shape effect on the elastic properties of Ag nanocrystals. Micro and Nano Letters, 2018, 13, 312-315.	0.6	52
7	Study of the optical properties of Zn doped Mn spinel ferrite nanocrystals shows multiple emission peaks in the visible range –a promising soft ferrite nanomaterial for deep blue LED. Journal of Molecular Structure, 2020, 1199, 127044.	1.8	43
8	Cobalt doping on nickel ferrite nanocrystals enhances the micro-structural and magnetic properties: Shows a correlation between them. Journal of Alloys and Compounds, 2021, 852, 156884.	2.8	42
9	Photoluminescence quenching in ligand free CdS nanocrystals due to silver doping along with two high energy surface states emission. Journal of Luminescence, 2017, 183, 368-376.	1.5	37
10	Luminescence of copper nanoparticles. Journal of Luminescence, 2011, 131, 2703-2706.	1.5	36
11	Effect of silver doping on the elastic properties of CdS nanoparticles. Indian Journal of Physics, 2018, 92, 1099-1108.	0.9	36
12	PVP capped silver nanocubes assisted removal of glyphosate from water—A photoluminescence study. Journal of Hazardous Materials, 2017, 339, 54-62.	6.5	35
13	Preparation of linoleic acid capped gold nanoparticles and their spectra. Physica E: Low-Dimensional Systems and Nanostructures, 2010, 43, 224-227.	1.3	33
14	Optical properties of silver nano-cubes. Optical Materials, 2015, 48, 203-208.	1.7	32
15	Linoleic Acid Capped Copper Nanoparticles for Antibacterial Activity. Journal of Bionanoscience, 2010, 4, 82-86.	0.4	29
16	Effect of cobalt doping on structural parameters, cation distribution and magnetic properties of nickel ferrite nanocrystals. Ceramics International, 2021, 47, 16467-16482.	2.3	29
17	X-ray diffraction analysis of synthesized silver nanohexagon for the study of their mechanical properties. Materials Chemistry and Physics, 2015, 167, 97-102.	2.0	26
18	Ligand free surface of CdS nanoparticles enhances the energy transfer efficiency on interacting with Eosin Y dye – Helping in the sensing of very low level of chlorpyrifos in water. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2019, 207, 156-163.	2.0	26

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19	X-ray diffraction study of the elastic properties of jagged spherical CdS nanocrystals. Materials Science-Poland, 2020, 38, 271-278.	0.4	22
20	Effect of Zinc oxide nanoparticle on Fluorescence Resonance Energy transfer between Fluorescein and Rhodamine 6G. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2017, 175, 110-116.	2.0	19
21	Synthesis of Linoleic Acid Capped Copper Nanoparticles and Their Fluorescence Study. Journal of Fluorescence, 2011, 21, 1165-1170.	1.3	17
22	Impact of Silver Doping on the Crystalline Size and Intrinsic Strain of MPA-Capped CdTe Nanocrystals: A Study by Williamson–Hall Method and Size–Strain Plot Method. Journal of Materials Engineering and Performance, 2021, 30, 652-660.	1.2	16
23	Resonance Raman study on distorted symmetry of porphyrin in nickel octaethyl porphyrin. Pramana - Journal of Physics, 2004, 63, 1073-1082.	0.9	15
24	Optical Properties of Linoleic Acid Protected Gold Nanoparticles. Journal of Nanomaterials, 2011, 2011, 1-4.	1.5	12
25	Presence of chlorpyrifos shows blue shift of the absorption peak of silver nanohexagons solution – An indication of etching of nanocrystals and sensing of chlorpyrifos. Sensors and Actuators B: Chemical, 2018, 266, 149-159.	4.0	12
26	Controlled Synthesis of Saponin-Capped Silver Nanotriangles and Their Optical Properties. Plasmonics, 2019, 14, 1365-1375.	1.8	12
27	Surface and displacement damage engineering on CdSe nanocrystalline thin film by swift heavy Ag ions: A theoretical investigation by SRIM/TRIM package. Vacuum, 2021, 190, 110293.	1.6	10
28	Photoluminescence Study of Silver Nano-hexagons. Plasmonics, 2016, 11, 551-556.	1.8	9
29	Shape effect on the optical properties of anisotropic silver nanocrystals. Journal of Luminescence, 2018, 198, 464-470.	1.5	8
30	120 MeV Ni10+ swift heavy ions irradiation on CdSe nanocrystals induces cubic to hexagonal phase transformation - A study of microstructural modification. Materials Science in Semiconductor Processing, 2020, 114, 105079.	1.9	8
31	Enhancement of antibacterial activity of synthesized ligandâ€free CdS nanocrystals due to silver doping. Journal of Basic Microbiology, 2021, 61, 27-36.	1.8	8
32	Presence of fluoride in water diminishes fast the SPR peak of silver nanocrystals showing large red shift with quick sedimentation – A fast sensing and fast removal case. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2021, 249, 119306.	2.0	8
33	Williamson Hall Plot Analysis of the X-ray Diffraction Result of Synthesized Silver Nanocubes for the Determination of Their Elastic Properties. Advanced Science Letters, 2016, 22, 145-148.	0.2	8
34	FLUORESCENCE STUDY OF CdSe QUANTUM DOTS SUSPENDED IN LIQUID PARAFFIN. Nano, 2010, 05, 357-359.	0.5	7
35	Phase transformation of CdSe nanocrystals at high fluence irradiation of 120ÂMeV swift Ni10+ and Ag7+ ions – X-ray diffraction and Raman spectral analysis. Applied Surface Science, 2020, 509, 144708.	3.1	7
36	Effects of saponin capped triangular silver nanocrystals on the germination of <i>Pisum sativum</i> , <i>Cicer arietinum</i> , <i>Vigna radiata</i> seeds & their subsequent growth study. IET Nanobiotechnology, 2020, 14, 25-32.	1.9	7

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37	Two peak luminescence from linoleic acid protected gold nanoparticles. Journal of Luminescence, 2015, 168, 325-329.	1.5	6
38	Silver Nanoparticles and Their Antimicrobial Activity on a Few Bacteria. BioNanoScience, 2013, 3, 67-72.	1.5	5
39	Microstructural analysis of SHI irradiated CdS nanocrystals- utilizing first principles method. Journal of Alloys and Compounds, 2020, 824, 153968.	2.8	5
40	Experimental (XRD) and theoretical (DFT) analysis for understanding the influence of SHI irradiation on the stacking fault energy in CdSe nanocrystals. Journal of Alloys and Compounds, 2021, 879, 160456.	2.8	5
41	Synthesis of Silver Nano-cubes and Study of Their Elastic Properties Using X-Ray Diffraction Line Broadening. Journal of Nondestructive Evaluation, 2019, 38, 1.	1.1	4
42	Atomistic strain and structural analysis of 120ÂMeV Ni ions irradiated CdSe nanocrystals through molecular dynamics simulation method. Vacuum, 2020, 182, 109794.	1.6	4
43	Antibacterial activity of MPA-capped CdTe and Ag-doped CdTe nanocrystals: Showing different activity against gram-positive and gram-negative bacteria. Chemical Papers, 2020, 74, 3409-3421.	1.0	2
44	Tuning the optical constants and thermal properties of CdS nanocrystals by SHI irradiation: A blended analysis through DFT+U and TS model. Materials Science in Semiconductor Processing, 2022, 138, 106278.	1.9	2
45	Band gap engineering of cadmium selenide nanocrystals using 120ÂMeV Ag7+ swift heavy ions, alongside theoretical evidence through PBE+U analysis. Journal of Alloys and Compounds, 2020, 836, 155535.	2.8	2
46	Preparation of linoleic acid-capped silver nanoparticles and their antimicrobial effect. IET Nanobiotechnology, 2012, 6, 81.	1.9	1
47	Different Anisotropic Silver Nanocrystals Show Different Antibacterial Activities – An Effect of Different Prominent Crystallographic Orientations in Different Shapes. Current Science, 2020, 118, 1903.	0.4	1
48	Synthesis and Characterization of Linoleic Acid Capped Palladium Nanoparticles. Springer Proceedings in Physics, 2013, , 139-142.	0.1	0
49	Lie Algebraic Study of Infra-Red Active Spectra of Single-Layer Graphene. Polycyclic Aromatic Compounds, 2014, 34, 214-224.	1.4	0
50	New Way of Looking at SchrĶdinger Equation. Journal of Advanced Physics, 2017, 6, 426-429.	0.4	0