

Pijus Kanti Samanta

List of Publications by Year in descending order

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Version: 2024-02-01

46
papers

530
citations

687363

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h-index

677142

22
g-index

48
all docs

48
docs citations

48
times ranked

701
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Green synthesis of zinc oxide nanostructure using Azadirachta Indica leaf extract and its structural and microstructural study. <i>Physica Scripta</i> , 2021, 96, 035704. | 2.5 | 5 |
| 2 | Electrochemical growth of metallic zinc and its crystallographic study using Rietveld. <i>Materials Today: Proceedings</i> , 2021, 43, 3091-3094. | 1.8 | 3 |
| 3 | Band gap engineering, quantum confinement, defect mediated broadband visible photoluminescence and associated quantum States of size tuned zinc oxide nanostructures. <i>Optik</i> , 2020, 221, 165337. | 2.9 | 14 |
| 4 | Synthesis and Characterization of Super Paramagnetic Iron Oxide Nanoparticles. <i>Nanoscience and Nanotechnology - Asia</i> , 2020, 10, 123-126. | 0.7 | 2 |
| 5 | Inter-band Transition in Citrate Capped Marks Dodecahedral Colloidal Gold Nanoparticles. <i>Current Nanoscience</i> , 2020, 16, 829-836. | 1.2 | 0 |
| 6 | Study of Time-dependent Interaction of ZnO Nanoparticles with Sucrose and Honey Molecules for Biomedical Applications. <i>Current Nanomaterials</i> , 2019, 4, 216-222. | 0.4 | 3 |
| 7 | Chemical synthesis of zinc oxide nanorods and their transformation into nanotubes. <i>Turkish Journal of Physics</i> , 2019, 43, 576-581. | 1.1 | 1 |
| 8 | Sol-gel Synthesis and Structural Properties of Cu Doped ZnO Nanoparticles. <i>Journal of Nano- and Electronic Physics</i> , 2019, 11, 01028-1-01028-3. | 0.5 | 3 |
| 9 | Hot carrier solar cell (HCSC): A new generation nano-structured solar cell. , 2017, , . | | 1 |
| 10 | Wet-chemical synthesis and optical properties of CuO nanoparticles. , 2017, , . | | 0 |
| 11 | Review on Wet Chemical Growth and Anti-bacterial Activity of Zinc Oxide Nanostructures. <i>Journal of Tissue Science & Engineering</i> , 2017, 08, . | 0.2 | 3 |
| 12 | Synthesis and Optical Absorption Properties of Copper Oxide Nanoparticles for Applications in Transparent Surface Coatings and Solar Cells. <i>Journal of Nano- and Electronic Physics</i> , 2017, 9, 06028-1-06028-2. | 0.5 | 0 |
| 13 | Wet Chemically Synthesized CuO Bipods and their Optical Properties. <i>Recent Patents on Nanotechnology</i> , 2016, 10, 20-25. | 1.3 | 8 |
| 14 | Absorption Spectroscopic Analysis of ZnO Nanoparticles. <i>Advanced Science, Engineering and Medicine</i> , 2016, 8, 240-244. | 0.3 | 4 |
| 15 | Dynamic Conduction in 2-Dimensional Conductor: Magneto-Conductivity Tensor under Rapid Oscillatory Electric Field. <i>Journal of Nano- and Electronic Physics</i> , 2016, 8, 02037-1-02037-2. | 0.5 | 0 |
| 16 | Biocompatibility study of protein capped and uncapped silver nanoparticles on human hemoglobin. <i>Journal Physics D: Applied Physics</i> , 2015, 48, 235305. | 2.8 | 22 |
| 17 | Morphological and optical property of spherical ZnO nanoparticles. <i>Optik</i> , 2015, 126, 1740-1743. | 2.9 | 11 |
| 18 | Wet chemical synthesis of ZnO nanoflakes and photoluminescence. <i>Optik</i> , 2015, 126, 3786-3788. | 2.9 | 19 |

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|----|--|-----|-----------|
| 19 | Optical Properties of Stabilized ZnO Nanoparticles, Perspective for UV-Protection in Sunscreens. <i>Current Nanoscience</i> , 2015, 11, 354-359. | 1.2 | 5 |
| 20 | Weak Quantum Confinement and Associated Energy Levels of CuO Nanoparticles. <i>Advanced Science, Engineering and Medicine</i> , 2015, 7, 811-813. | 0.3 | 1 |
| 21 | Safety concerns towards the biomedical application of PbS nanoparticles: An approach through protein-PbS interaction and corona formation. <i>Applied Physics Letters</i> , 2014, 104, . | 3.3 | 17 |
| 22 | A novel chemical reduction method of growing ZnO nanocrystals and their optical property. <i>Materials Letters</i> , 2014, 118, 123-125. | 2.6 | 11 |
| 23 | Optical Properties of Surface Modified ZnO Nanorods. <i>Journal of Nanoengineering and Nanomanufacturing</i> , 2014, 4, 173-176. | 0.3 | 1 |
| 24 | Wet chemical growth and optical property of ZnO nanodiscs. <i>Optik</i> , 2013, 124, 2871-2873. | 2.9 | 16 |
| 25 | Green photoluminescence from highly oriented ZnO thin film for photovoltaic application. <i>Optik</i> , 2013, 124, 6227-6230. | 2.9 | 31 |
| 26 | Wet chemical growth of ultra-long ZnO nanoplates and their optical property. <i>Chemical Physics Letters</i> , 2013, 584, 155-158. | 2.6 | 7 |
| 27 | Solution phase synthesis of ZnO nanopencils and their optical property. <i>Materials Letters</i> , 2013, 91, 338-340. | 2.6 | 11 |
| 28 | ZnO nanoparticle-protein interaction: Corona formation with associated unfolding. <i>Applied Physics Letters</i> , 2013, 103, 143701. | 3.3 | 41 |
| 29 | Structural and Optical Properties of Alumina Templated Undoped and Co-Doped Zinc Oxide Nanoparticles. <i>Journal of Nanoengineering and Nanomanufacturing</i> , 2013, 3, 211-216. | 0.3 | 2 |
| 30 | Chemical growth of hexagonal zinc oxide nanorods and their optical properties. <i>Applied Nanoscience (Switzerland)</i> , 2012, 2, 111-117. | 3.1 | 71 |
| 31 | Understanding the transition levels of photoluminescence of ZnO quantum dots under weak confinement. <i>Journal of Optics (India)</i> , 2012, 41, 75-80. | 1.7 | 7 |
| 32 | Wet chemical growth of zinc oxide octahedrons and their optical property. <i>Materials Letters</i> , 2012, 68, 510-512. | 2.6 | 8 |
| 33 | Electrochemical Growth of Hexagonal ZnO Pyramids and their Optical Property. <i>Materials Letters</i> , 2012, 83, 97-99. | 2.6 | 11 |
| 34 | Characteristics of Benzene Assisted Grown ZnO Nanosheets. <i>Science of Advanced Materials</i> , 2012, 4, 219-226. | 0.7 | 19 |
| 35 | SYNTHESIS AND CHARACTERIZATION OF CHEMICALLY GROWN ULTRALONG HEXAGONAL ZnO NANOTUBES. <i>International Journal of Nanoscience</i> , 2011, 10, 69-73. | 0.7 | 15 |
| 36 | WEAK QUANTUM CONFINEMENT IN ZnO NANORODS: A ONE DIMENSIONAL POTENTIAL WELL APPROACH. <i>Optics and Photonics Letters</i> , 2011, 04, 35-45. | 0.8 | 10 |

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|----|--|------|-----------|
| 37 | Substrate effect on morphology and photoluminescence from ZnO monopods and bipods. <i>Frontiers of Optoelectronics in China</i> , 2011, 4, 130-136. | 0.2 | 24 |
| 38 | Fern leaves. <i>Materials Today</i> , 2011, 14, 295. | 14.2 | 4 |
| 39 | Characteristics of electrochemically grown dendritic metallic zinc. <i>Optik</i> , 2011, 122, 1520-1522. | 2.9 | 5 |
| 40 | Electrochemical Growth of ZnO Microspheres and Nanosheets. <i>Advanced Science Letters</i> , 2011, 4, 554-557. | 0.2 | 3 |
| 41 | Growth and Optical Properties of Chemically Grown ZnO Nanobelts. <i>Science of Advanced Materials</i> , 2011, 3, 107-112. | 0.7 | 42 |
| 42 | UV Photoluminescence from Substrate Free Growth of Zinc Oxide Nanopencils. <i>Science of Advanced Materials</i> , 2011, 3, 919-925. | 0.7 | 6 |
| 43 | Fabrication of intensity based fiber optic pH sensor. , 2010, , . | | 1 |
| 44 | Fabrication of ZnO nanostructures: Effect of organic and inorganic compounds. , 2010, , . | | 0 |
| 45 | Violet emission from flower-like bundle of ZnO nanosheets. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2009, 41, 664-667. | 2.7 | 62 |
| 46 | Peak profile analysis, electrical, dielectric behaviour and defect mediated yellow photoluminescence of zinc oxide nanostructures. <i>Physica Scripta</i> , 0, , . | 2.5 | 0 |