

Sandeep Kumar

List of Publications by Citations

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24
papers

1,719
citations

20
h-index

25
g-index

25
ext. papers

1,807
ext. citations

5.9
avg, IF

4.52
L-index

| # | Paper | IF | Citations |
|----|---|------|-----------|
| 24 | Shape control of II-VI semiconductor nanomaterials. <i>Small</i> , 2006 , 2, 316-29 | 11 | 335 |
| 23 | Microfluidic Synthesis of Polymer and Inorganic Particulate Materials. <i>Annual Review of Materials Research</i> , 2010 , 40, 415-443 | 12.8 | 180 |
| 22 | Nanorod heterostructures showing photoinduced charge separation. <i>Small</i> , 2007 , 3, 1633-9 | 11 | 180 |
| 21 | Hybrid solar cells using PbS nanoparticles. <i>Solar Energy Materials and Solar Cells</i> , 2007 , 91, 420-423 | 6.4 | 171 |
| 20 | Preparation and characterization of poly(methyl methacrylate)/clay nanocomposites via melt intercalation: The effect of organoclay on the structure and thermal properties. <i>Journal of Applied Polymer Science</i> , 2003 , 89, 1186-1194 | 2.9 | 119 |
| 19 | First solar cells based on CdTe nanoparticle/MEH-PPV composites. <i>Journal of Materials Research</i> , 2004 , 19, 1990-1994 | 2.5 | 81 |
| 18 | Exciton Trapping and Recombination in Type II CdSe/CdTe Nanorod Heterostructures. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 5423-5431 | 3.8 | 75 |
| 17 | Colloidal nanocrystal solar cells. <i>Mikrochimica Acta</i> , 2008 , 160, 315-325 | 5.8 | 71 |
| 16 | Energetics of Photoinduced Electron-Transfer Reactions Decided by Quantum Confinement. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 13777-13785 | 3.8 | 63 |
| 15 | Sphere-to-Wormlike Network Transition of Block Copolymer Micelles Containing CdSe Quantum Dots in the Corona. <i>Macromolecules</i> , 2010 , 43, 5066-5074 | 5.5 | 55 |
| 14 | Nanoscale co-organization of quantum dots and conjugated polymers using polymeric micelles as templates. <i>Journal of the American Chemical Society</i> , 2008 , 130, 9481-91 | 16.4 | 54 |
| 13 | Loading quantum dots into thermo-responsive microgels by reversible transfer from organic solvents to water. <i>Journal of Materials Chemistry</i> , 2008 , 18, 763 | | 50 |
| 12 | II-VI Nanocrystal/Polymer solar cells. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2008 , 195, 39-46 | 4.7 | 49 |
| 11 | Nanocrystal shape and the mechanism of exciton spin relaxation. <i>Nano Letters</i> , 2006 , 6, 1765-71 | 11.5 | 43 |
| 10 | Hexagonal CdTe nanoparticles of various morphologies. <i>Chemical Communications</i> , 2003 , 2478-9 | 5.8 | 41 |
| 9 | Synthesis and structural metastability of CdTe nanowires. <i>Chemistry - A European Journal</i> , 2005 , 11, 2220-48 | 4.8 | 32 |
| 8 | Mechanism and origin of exciton spin relaxation in CdSe nanorods. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 25371-82 | 3.4 | 31 |

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|---|--|-----|----|
| 7 | Self-assembly of colloidal quantum dots on the scaffold of triblock copolymer micelles. <i>ACS Applied Materials & Interfaces</i> , 2010 , 2, 3160-9 | 9.5 | 23 |
| 6 | Preparative size-exclusion chromatography for purification and characterization of colloidal quantum dots bound by chromophore-labeled polymers and low-molecular-weight chromophores. <i>Journal of Chromatography A</i> , 2009 , 1216, 5011-9 | 4.5 | 23 |
| 5 | Incorporation of liquid crystalline triphenylene derivative in bulk heterojunction solar cell with molybdenum oxide as buffer layer for improved efficiency. <i>Liquid Crystals</i> , 2016 , 43, 928-936 | 2.3 | 21 |
| 4 | Synthesis and electrochemical properties of InP nanocrystals. <i>Journal of Materials Research</i> , 2006 , 21, 543-546 | 2.5 | 9 |
| 3 | Bulk heterojunction solar cells based on self-assembling disc-shaped liquid crystalline material. <i>Liquid Crystals</i> , 2015 , 1-9 | 2.3 | 6 |
| 2 | Structure and Excited-State Interactions in Composites of CdSe Nanorods and Interface-Compatible Polythiophene-graft-poly(N,N-dimethylaminoethyl methacrylates). <i>Macromolecular Chemistry and Physics</i> , 2010 , 211, 393-403 | 2.6 | 6 |
| 1 | Green-monodispersed Pd-nanoparticles for improved mitigation of pathogens and environmental pollutant. <i>Materials Today Communications</i> , 2022 , 30, 103106 | 2.5 | 1 |