

# Sandeep Kumar

## List of Publications by Year in descending order

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Version: 2024-02-01

24  
papers

1,869  
citations

361388

20  
h-index

642715

23  
g-index

25  
all docs

25  
docs citations

25  
times ranked

2881  
citing authors

#	ARTICLE	IF	CITATIONS
1	Shape Control of II–VI Semiconductor Nanomaterials. <i>Small</i> , 2006, 2, 316-329.	10.0	365
2	Hybrid solar cells using PbS nanoparticles. <i>Solar Energy Materials and Solar Cells</i> , 2007, 91, 420-423.	6.2	194
3	Microfluidic Synthesis of Polymer and Inorganic Particulate Materials. <i>Annual Review of Materials Research</i> , 2010, 40, 415-443.	9.3	194
4	Nanorod Heterostructures Showing Photoinduced Charge Separation. <i>Small</i> , 2007, 3, 1633-1639.	10.0	191
5	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.	2.6	128
6	First solar cells based on CdTe nanoparticle/MEH-PPV composites. <i>Journal of Materials Research</i> , 2004, 19, 1990-1994.	2.6	85
7	Exciton Trapping and Recombination in Type II CdSe/CdTe Nanorod Heterostructures. <i>Journal of Physical Chemistry C</i> , 2008, 112, 5423-5431.	3.1	83
8	Colloidal nanocrystal solar cells. <i>Mikrochimica Acta</i> , 2008, 160, 315-325.	5.0	73
9	Energetics of Photoinduced Electron-Transfer Reactions Decided by Quantum Confinement. <i>Journal of Physical Chemistry C</i> , 2007, 111, 13777-13785.	3.1	70
10	Nanoscale Co-organization of Quantum Dots and Conjugated Polymers Using Polymeric Micelles As Templates. <i>Journal of the American Chemical Society</i> , 2008, 130, 9481-9491.	13.7	58
11	Sphere-to-Wormlike Network Transition of Block Copolymer Micelles Containing CdSe Quantum Dots in the Corona. <i>Macromolecules</i> , 2010, 43, 5066-5074.	4.8	58
12	II–VI Nanocrystal–polymer solar cells. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2008, 195, 39-46.	3.9	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.	6.7	52
14	Nanocrystal Shape and the Mechanism of Exciton Spin Relaxation. <i>Nano Letters</i> , 2006, 6, 1765-1771.	9.1	45
15	Hexagonal CdTe nanoparticles of various morphologies. <i>Chemical Communications</i> , 2003, , 2478.	4.1	44
16	Synthesis and Structural Metastability of CdTe Nanowires. <i>Chemistry - A European Journal</i> , 2005, 11, 2220-2224.	3.3	38
17	Mechanism and Origin of Exciton Spin Relaxation in CdSe Nanorods. <i>Journal of Physical Chemistry B</i> , 2006, 110, 25371-25382.	2.6	34
18	Self-Assembly of Colloidal Quantum Dots on the Scaffold of Triblock Copolymer Micelles. <i>ACS Applied Materials &amp; Interfaces</i> , 2010, 2, 3160-3169.	8.0	25

#	ARTICLE	IF	CITATIONS
19	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.	2.2	25
20	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, 5011-5019.	3.7	24
21	Synthesis and electrochemical properties of InP nanocrystals. <i>Journal of Materials Research</i> , 2006, 21, 543-546.	2.6	9
22	Bulk heterojunction solar cells based on self-assembling disc-shaped liquid crystalline material. <i>Liquid Crystals</i> , 0, , 1-9.	2.2	8
23	Structure and Excited-State Interactions in Composites of CdSe Nanorods and Interface-Compatible Polythiophene-graft-poly( <i>N,N</i> -dimethylaminoethyl methacrylates). <i>Macromolecular Chemistry and Physics</i> , 2010, 211, 393-403.	2.2	6
24	Green-monodispersed Pd-nanoparticles for improved mitigation of pathogens and environmental pollutant. <i>Materials Today Communications</i> , 2022, 30, 103106.	1.9	6