

Tuhin Shuvra Basu

List of Publications by Year in descending order

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Version: 2024-02-01

10
papers

112
citations

1684188

5
h-index

1372567

10
g-index

10
all docs

10
docs citations

10
times ranked

190
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 1 | Luminescent core-shell nanostructures of silicon and silicon oxide: Nanodots and nanorods. Journal of Applied Physics, 2010, 107, . | 2.5 | 40 |
| 2 | Highly lattice-mismatched semiconductor-metal hybrid nanostructures: gold nanoparticle encapsulated luminescent silicon quantum dots. Nanoscale, 2014, 6, 2201. | 5.6 | 34 |
| 3 | Charge Transfer Induced Encapsulation of Si Quantum Dots by Atomically Larger and Highly Lattice-Mismatched Au Nanoparticles. Journal of Physical Chemistry C, 2014, 118, 5041-5050. | 3.1 | 10 |
| 4 | Remarkable thermal conductivity reduction in metal-semiconductor nanocomposites. Applied Physics Letters, 2013, 103, . | 3.3 | 8 |
| 5 | Performance Enhancement of Crystalline Silicon Solar Cells by Coating with Luminescent Silicon Nanostructures. Journal of Electronic Materials, 2013, 42, 403-409. | 2.2 | 5 |
| 6 | Single-electron transport through stabilised silicon nanocrystals. Nanoscale, 2018, 10, 13949-13958. | 5.6 | 5 |
| 7 | Collective charge transport in semiconductor-metal hybrid nanocomposite. Applied Physics Letters, 2013, 102, 053107. | 3.3 | 4 |
| 8 | Single-charge transport through hybrid core-shell Au-ZnS quantum dots: a comprehensive analysis from a modified energy structure. Nanoscale, 2021, 13, 4978-4984. | 5.6 | 3 |
| 9 | Extraordinary electron and phonon transport through metal-semiconductor hybrid nanocomposite: decoupling electrical and thermal conductivities for thermoelectric application. International Journal of Nanotechnology, 2014, 11, 897. | 0.2 | 2 |
| 10 | Energy scales and dynamics of electronic excitations in functionalized gold nanoparticles measured at the single particle level. Physical Chemistry Chemical Physics, 2019, 21, 13446-13452. | 2.8 | 1 |