

Sunandan Sarkar

List of Publications by Year in descending order

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36
papers

1,217
citations

471371

17
h-index

395590

33
g-index

36
all docs

36
docs citations

36
times ranked

1817
citing authors

#	ARTICLE	IF	CITATIONS
1	Graphitic Nitrogen Doping in Carbon Dots Causes Red-Shifted Absorption. <i>Journal of Physical Chemistry C</i> , 2016, 120, 1303-1308.	1.5	207
2	Energetic and electronic structure of penta-graphene nanoribbons. <i>Carbon</i> , 2016, 100, 118-125.	5.4	97
3	Nature of Absorption Bands in Oxygen-Functionalized Graphitic Carbon Dots. <i>Journal of Physical Chemistry C</i> , 2015, 119, 13369-13373.	1.5	96
4	Doped GNR p-n Junction as High Performance NDR and Rectifying Device. <i>Journal of Physical Chemistry C</i> , 2012, 116, 18064-18069.	1.5	78
5	Theoretical prediction of a new two-dimensional carbon allotrope and NDR behaviour of its one-dimensional derivatives. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 21001.	1.3	63
6	Theoretical Studies on Understanding the Feasibility of Porphyrin-Sensitized Graphene Quantum Dot Solar Cell. <i>Journal of Physical Chemistry C</i> , 2015, 119, 3400-3407.	1.5	60
7	The electronic and optical properties of MoS ₂ (1-x)Se _{2x} and MoS ₂ (1-x)Te _{2x} monolayers. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 26166-26174.	1.3	60
8	Exploring the electronic structure of graphene quantum dots. <i>Journal of Nanoparticle Research</i> , 2012, 14, 1.	0.8	59
9	Tuning the Energy Levels of ZnO/ZnS Core/Shell Nanowires To Design an efficient Nanowire-Based Dye-Sensitized Solar Cell. <i>Journal of Physical Chemistry C</i> , 2013, 117, 15890-15900.	1.5	51
10	Phosphorescence in Bromobenzaldehyde Can Be Enhanced through Intramolecular Heavy Atom Effect. <i>Journal of Physical Chemistry C</i> , 2017, 121, 3771-3777.	1.5	49
11	Self-Consistent-Charge Density-Functional Tight-Binding Parameters for CdX (X = S, Se, Te) Compounds and Their Interaction with H, O, C, and N. <i>Journal of Chemical Theory and Computation</i> , 2011, 7, 2262-2276.	2.3	45
12	Electronic structure and band gap engineering of CdTe semiconductor nanowires. <i>Journal of Materials Chemistry</i> , 2012, 22, 10716.	6.7	32
13	Pentacene-fullerene bulk-heterojunction solar cell: A computational study. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2015, 379, 1036-1042.	0.9	32
14	Explicit Spectral Response of the Geometrical Isomers of a Bio-Active Pyrazoline Derivative Encapsulated in β -Cyclodextrin Nanocavity: A Photophysical and Quantum Chemical Analysis. <i>Journal of Physical Chemistry A</i> , 2012, 116, 10371-10382.	1.1	30
15	Band gap engineering of graphene-CdTe quantum dot hybrid nanostructures. <i>Journal of Materials Chemistry C</i> , 2014, 2, 8967-8975.	2.7	30
16	Enhancing charge mobilities in organic semiconductors by selective fluorination: a design approach based on a quantum mechanical perspective. <i>Chemical Science</i> , 2017, 8, 6947-6953.	3.7	20
17	Electronic Structure of Thiol-Capped CdTe Quantum Dots and CdTeQD-Carbon Nanotube Nanocomposites. <i>Journal of Physical Chemistry C</i> , 2012, 116, 21601-21608.	1.5	19
18	Electronic structure and bandgap engineering of CdTe nanotubes and designing the CdTe nanotube-fullerene hybrid nanostructures for photovoltaic applications. <i>RSC Advances</i> , 2014, 4, 14673.	1.7	18

#	ARTICLE	IF	CITATIONS
19	Controlling the Emissive Activity in Heterocyclic Systems Bearing C•P Bonds. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 3567-3572.	2.1	18
20	Understanding the electronic structure of CdSe quantum dot-fullerene (C60) hybrid nanostructure for photovoltaic applications. <i>Journal of Applied Physics</i> , 2014, 116, .	1.1	16
21	Effect of edge states on the transport properties of pentacene•graphene nanojunctions. <i>Chemical Physics Letters</i> , 2014, 597, 1-5.	1.2	16
22	Probing the spectral response of a new class of bioactive pyrazoline derivative in homogeneous solvents and cyclodextrin nanocavities: a spectroscopic exploration appended by quantum chemical calculations and molecular docking analysis. <i>RSC Advances</i> , 2013, 3, 8071.	1.7	15
23	Energetics and Electronic Structure of Encapsulated Graphene Nanoribbons in Carbon Nanotube. <i>Journal of Physical Chemistry A</i> , 2013, 117, 8568-8575.	1.1	15
24	Ligand mediated tuning of the electronic energy levels of ZnO nanoparticles. <i>RSC Advances</i> , 2013, 3, 532-539.	1.7	14
25	Electronic structure and transport properties of sulfur-passivated graphene nanoribbons. <i>Journal of Applied Physics</i> , 2012, 112, .	1.1	13
26	Doped defective graphene nanoribbons: a new class of materials with novel spin filtering properties. <i>RSC Advances</i> , 2014, 4, 49946-49952.	1.7	13
27	Highly Efficient Inorganic•Organic Heterojunction Solar Cells Based on Polymer and CdX (X = Se, Te) Quantum Dots: An Insight from a Theoretical Study. <i>Journal of Physical Chemistry C</i> , 2020, 124, 11350-11357.	1.5	12
28	Intersystem Crossing in Tetrapyrrolic Macrocycles. A First-Principles Analysis. <i>Journal of Physical Chemistry C</i> , 2021, 125, 13493-13500.	1.5	12
29	Pure carbon-based Schottky diode, an implication of stretched carbon nanowire. <i>Journal of Applied Physics</i> , 2013, 114, .	1.1	6
30	Quantum transport behavior of Ni-based dinuclear complexes in presence of zigzag graphene nanoribbon as electrode. <i>Chemical Physics</i> , 2016, 478, 173-177.	0.9	6
31	Enhancing fluorescence and lowering the optical gap through C P doping of a $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si26.svg" \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -conjugated molecular backbone: A computational-based design approach. <i>Journal of Photochemistry and Photobiology</i> , 2021, 8, 100089.	1.1	5
32	Isoelectronically doped CdSe/Te nanoalloys as alternative solar cell materials: insight from computational analysis. <i>RSC Advances</i> , 2016, 6, 86494-86501.	1.7	4
33	Size-dependent electronic structure of semiconductor nanoparticles. <i>Chemical Modelling</i> , 0, , 135-167.	0.2	3
34	Charge transport through nanocontacts. <i>Chemical Modelling</i> , 2019, , 70-130.	0.2	3
35	Exploring the electronic structure of nanohybrid materials for their application in solar cell. <i>Chemical Modelling</i> , 2016, , 27-71.	0.2	0
36	Computational design of a nanoconjugate model of pyrene-linked CdTe quantum dot for the detection of trinitrotoluene. <i>Computational and Theoretical Chemistry</i> , 2022, 1211, 113681.	1.1	0