

Biswajit Saha

List of Publications by Year in descending order

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papers

811
citations

759233

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1190
citing authors

#	ARTICLE	IF	CITATIONS
1	Carbonization in Polyacrylonitrile (PAN) Based Carbon Fibers Studied by ReaxFF Molecular Dynamics Simulations. <i>Journal of Physical Chemistry B</i> , 2012, 116, 4684-4692.	2.6	140
2	Extraordinary Improvement of the Graphitic Structure of Continuous Carbon Nanofibers Templated with Double Wall Carbon Nanotubes. <i>ACS Nano</i> , 2013, 7, 126-142.	14.6	84
3	Highly Sensitive Bendable and Foldable Paper Sensors Based on Reduced Graphene Oxide. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 4658-4666.	8.0	73
4	A review on the importance of surface coating of micro/nano-mold in micro/nano-molding processes. <i>Journal of Micromechanics and Microengineering</i> , 2016, 26, 013002.	2.6	63
5	Singly and doubly excited states of butadiene, acrolein, and glyoxal: Geometries and electronic spectra. <i>Journal of Chemical Physics</i> , 2006, 125, 014316.	3.0	54
6	Multi-step mechanism of carbonization in templated polyacrylonitrile derived fibers: ReaxFF model uncovers origins of graphite alignment. <i>Carbon</i> , 2015, 94, 694-704.	10.3	54
7	Hot Giant Fullerenes Eject C_{20} Molecules: QM/MD Simulations with Constant Density. <i>Journal of Physical Chemistry C</i> , 2011, 115, 22707-22716.	3.1	47
8	Quantum Chemical Molecular Dynamics Simulations of Dynamic Fullerene Self-Assembly in Benzene Combustion. <i>ACS Nano</i> , 2009, 3, 2241-2257.	14.6	46
9	Multiscale Simulation as a Framework for the Enhanced Design of Nanodiamond-Polyethylenimine-Based Gene Delivery. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 3791-3797.	4.6	42
10	Investigation of the Electronic Spectra and Excited-State Geometries of Poly(para-phenylene vinylene) (PPV) and Poly(para-phenylene) (PP) by the Symmetry-Adapted Cluster Configuration Interaction (SAC-CI) Method. <i>Journal of Physical Chemistry A</i> , 2007, 111, 5473-5481.	2.5	30
11	Formation mechanism of polycyclic aromatic hydrocarbons in benzene combustion: Quantum chemical molecular dynamics simulations. <i>Journal of Chemical Physics</i> , 2010, 132, 224303.	3.0	25
12	Chemical Dynamics Simulations of Energy Transfer for Propylbenzene Cation and He Collisions. <i>Journal of Physical Chemistry A</i> , 2017, 121, 7494-7502.	2.5	14
13	Interaction and thermal stability of carboxymethyl cellulose on \pm -Fe ₂ O ₃ (001) surface: ReaxFF molecular dynamics simulations study. <i>Journal of Molecular Graphics and Modelling</i> , 2021, 102, 107787.	2.4	14
14	Coexistence of Normal and Auxetic Behavior in a Thermally and Chemically Stable sp^3 Nanothread: Poly[5]asterane. <i>Chemistry - A European Journal</i> , 2017, 23, 12917-12923.	3.3	12
15	Reactive Molecular Dynamics Simulations of Self-Assembly of Polytwistane and Its Application for Nanofibers. <i>Journal of Physical Chemistry C</i> , 2018, 122, 19204-19211.	3.1	11
16	Antineoplastic properties of zafirlukast against hepatocellular carcinoma via activation of mitochondrial mediated apoptosis. <i>Regulatory Toxicology and Pharmacology</i> , 2019, 109, 104489.	2.7	11
17	A study on frictional behavior of PMMA against FDTS coated silicon as a function of load, velocity and temperature. <i>Tribology International</i> , 2016, 102, 44-51.	5.9	9
18	Ultra-sensitive and Highly Stretchable Strain Sensors for Monitoring of Human Physiology. <i>Macromolecular Materials and Engineering</i> , 2022, 307, 2100666.	3.6	9

#	ARTICLE	IF	CITATIONS
19	Environmental application of amine functionalised magnetite nanoparticles grafted graphene oxide chelants. <i>Environmental Science and Pollution Research</i> , 2022, 29, 86485-86498.	5.3	9
20	Hot-embossing performance of silicon micromold coated with self-assembled n-octadecyltrichlorosilane. <i>Sensors and Actuators B: Chemical</i> , 2011, 160, 207-214.	7.8	8
21	Insights on the initial stages of carbonization of sub-bituminous coal. <i>Journal of Molecular Graphics and Modelling</i> , 2021, 106, 107868.	2.4	7
22	PDMS Sylgard 527-Based Freely Suspended Ultrathin Membranes Exhibiting Mechanistic Characteristics of Vascular Basement Membranes. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 40388-40400.	8.0	6
23	Magnetic Nanoparticle Encapsulation for the Manipulation of Bacterial Movement and Spontaneous Detection by Reduced Graphene Oxide. <i>Advanced Biology</i> , 2018, 2, 1800095.	3.0	6
24	High-resolution cost-effective compact portable inverted light microscope. <i>Journal of Microscopy</i> , 2019, 273, 199-209.	1.8	6
25	Reduced graphene oxide-based stretchable strain sensor for monitoring of physical activities and minute movement. <i>Materials Today: Proceedings</i> , 2022, 62, 5975-5981.	1.8	6
26	Theoretical Studies of the $O_3 + C_2$ Reaction at Hyperthermal Energies. <i>Journal of Physical Chemistry C</i> , 2012, 116, 26577-26585.	3.1	5
27	Interaction of Grafted Dextrin with a Hematite Surface: Effect of Functional Groups and Molecular Weight. <i>ChemistrySelect</i> , 2021, 6, 8165-8170.	1.5	5
28	Synthesis of magnetite-graphene nanocomposite for wastewater treatment. <i>Materials Today: Proceedings</i> , 2022, 62, 6042-6048.	1.8	5
29	Macromolecular selective flocculant derived from functionalized starch towards beneficiation of low-quality iron ore: Atomistic simulations and experimental studies. <i>Materials Today Communications</i> , 2022, 32, 103810.	1.9	5
30	Titanium-aluminum-polytetrafluoroethylene coated stainless steel micromold via co-sputtering deposition: Replication performance and limitation in hot-embossing. <i>Sensors and Actuators B: Chemical</i> , 2012, 163, 290-298.	7.8	4
31	Adsorption mechanism and performance analysis of alkaloids as green corrosion inhibitors on mild steel. <i>Theoretical Chemistry Accounts</i> , 2022, 141, .	1.4	1