

Sudip Kumar Pattanayek

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

680
citations

623734

14
h-index

552781

26
g-index

30
all docs

30
docs citations

30
times ranked

662
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of Functional Groups of Self-Assembled Monolayers on Protein Adsorption and Initial Cell Adhesion. <i>ACS Biomaterials Science and Engineering</i> , 2018, 4, 3224-3233.	5.2	74
2	Hybrid surface from self-assembled layer and its effect on protein adsorption. <i>Applied Surface Science</i> , 2011, 257, 4731-4737.	6.1	66
3	Properties of Adsorbed Bovine Serum Albumin and Fibrinogen on Self-Assembled Monolayers. <i>Journal of Physical Chemistry C</i> , 2013, 117, 6151-6160.	3.1	64
4	The Motility of Bacteria in an Anisotropic Liquid Environment. <i>Molecular Crystals and Liquid Crystals</i> , 2013, 574, 33-39.	0.9	55
5	Surface chemistry at the nanometer scale influences insulin aggregation. <i>Colloids and Surfaces B: Biointerfaces</i> , 2012, 100, 69-76.	5.0	49
6	Refolding of biotech therapeutic proteins expressed in bacteria: review. <i>Journal of Chemical Technology and Biotechnology</i> , 2013, 88, 1794-1806.	3.2	47
7	Relation between the Wetting Effect and the Adsorbed Amount of Water-Soluble Polymers or Proteins at Various Interfaces. <i>Journal of Chemical & Engineering Data</i> , 2013, 58, 3440-3446.	1.9	35
8	Au nanoparticles decorated ZnO/ZnFe ₂ O ₄ composite SERS-active substrate for melamine detection. <i>Talanta</i> , 2022, 236, 122819.	5.5	31
9	Mathematical Modelling, Simulation and Optimisation of Microneedles for Transdermal Drug Delivery: Trends and Progress. <i>Pharmaceutics</i> , 2020, 12, 693.	4.5	27
10	Translation of Polymeric Microneedles for Treatment of Human Diseases: Recent Trends, Progress, and Challenges. <i>Pharmaceutics</i> , 2021, 13, 1132.	4.5	27
11	Organization of polymer chains onto long, single-wall carbon nano-tubes: Effect of tube diameter and cooling method. <i>Journal of Chemical Physics</i> , 2014, 140, 024904.	3.0	19
12	Effect of surface energy of solid surfaces on the micro- and macroscopic properties of adsorbed BSA and lysozyme. <i>Biophysical Chemistry</i> , 2017, 226, 14-22.	2.8	18
13	Effect of polymer surfactant structure on its solution viscosity. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2011, 6, 78-84.	1.5	16
14	A Continuum Model for Polymer Adsorption at the Solid-Liquid Interface. <i>Macromolecules</i> , 1999, 32, 863-873.	4.8	14
15	Polymers encapsulated in short single wall carbon nanotubes: Pseudo-1D morphologies and induced chirality. <i>Journal of Chemical Physics</i> , 2015, 142, 114901.	3.0	13
16	Effect of organization of semi-flexible polymers on mechanical properties of its composite with single wall carbon nanotubes. <i>Composites Science and Technology</i> , 2016, 134, 242-250.	7.8	13
17	Effect of Uniformly Applied Force and Molecular Characteristics of a Polymer Chain on Its Adhesion to Graphene Substrates. <i>Langmuir</i> , 2016, 32, 2750-2760.	3.5	13
18	Graphitic carbon nitride-based concoction for detection of melamine and R6G using surface-enhanced Raman scattering. <i>Carbon</i> , 2022, 197, 311-323.	10.3	12

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19	Morphology of self assembled monolayers using liquid phase reaction on silica and their effect on the morphology of adsorbed insulin. <i>Applied Surface Science</i> , 2017, 405, 503-513.	6.1	11
20	Dynamic shear rheology of colloidal suspensions of surface-modified silica nanoparticles in PEG. <i>Journal of Nanoparticle Research</i> , 2018, 20, 1.	1.9	11
21	Single-Walled Carbon Nanotube Engendered Pseudo-1D Morphologies of Silver Nanowire. <i>Journal of Physical Chemistry C</i> , 2017, 121, 20468-20480.	3.1	10
22	Reactivity-Controlled Aggregation of Graphene Nanoflakes in Aluminum Matrix: Atomistic Molecular Dynamics Simulation. <i>Journal of Physical Chemistry C</i> , 2019, 123, 18017-18027.	3.1	10
23	Exploitation of orientation of liquid crystals 5CB and DSCG near surfaces to detect low protein concentration. <i>Liquid Crystals</i> , 2015, 42, 1506-1514.	2.2	9
24	Role of hydrogen bond interactions in water-polyol medium in the thickening behavior of cornstarch suspensions. <i>Colloid and Polymer Science</i> , 2017, 295, 1117-1129.	2.1	8
25	Evolution of nanostructure and mechanical properties of silver nano-particle in the confined region between graphene sheets: An atomistic investigation. <i>Computational Materials Science</i> , 2018, 152, 393-407.	3.0	8
26	Qualitative and quantitative examination of non-specific protein adsorption on filter membrane disks of a commercially available high throughput chromatography device. <i>Journal of Membrane Science</i> , 2014, 451, 312-318.	8.2	6
27	Effect of Multiaxial Tensile Deformation on the Mechanical Properties of Semiflexible Polymeric Samples. <i>Journal of Physical Chemistry B</i> , 2019, 123, 9238-9249.	2.6	6
28	Interrelation of Elasticity, Isotherm of Adsorbed Proteins, and its Subsequent Displacement by a Surfactant. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 7520-7530.	3.7	4
29	Imaging of bacteria using chromonic liquid crystals. <i>Molecular Crystals and Liquid Crystals</i> , 2016, 625, 126-136.	0.9	3
30	Effect of characteristics of shear force on secondary structures and viscosity of bovine serum albumin solution. <i>Rheologica Acta</i> , 2018, 57, 801-812.	2.4	1