

Jia-Wei Shen

List of Publications by Year in descending order

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51
papers

1,836
citations

257450

24
h-index

265206

42
g-index

51
all docs

51
docs citations

51
times ranked

2387
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular simulation of protein adsorption and desorption on hydroxyapatite surfaces. <i>Biomaterials</i> , 2008, 29, 513-532.	11.4	249
2	Induced stepwise conformational change of human serum albumin on carbon nanotube surfaces. <i>Biomaterials</i> , 2008, 29, 3847-3855.	11.4	141
3	On the spontaneous encapsulation of proteins in carbon nanotubes. <i>Biomaterials</i> , 2009, 30, 2807-2815.	11.4	110
4	Adsorption mechanism of BMP-7 on hydroxyapatite (001) surfaces. <i>Biochemical and Biophysical Research Communications</i> , 2007, 361, 91-96.	2.1	106
5	Adsorption of Leucine-Rich Amelogenin Protein on Hydroxyapatite (001) Surface through α -COO-Claws. <i>Journal of Physical Chemistry C</i> , 2007, 111, 1284-1290.	3.1	85
6	Shield effect of silicate on adsorption of proteins onto silicon-doped hydroxyapatite (100) surface. <i>Biomaterials</i> , 2008, 29, 2423-2432.	11.4	66
7	Theoretical Evaluation on Potential Cytotoxicity of Graphene Quantum Dots. <i>ACS Biomaterials Science and Engineering</i> , 2016, 2, 1983-1991.	5.2	65
8	Diffusion dynamics of water controlled by topology of potential energy surface inside carbon nanotubes. <i>Physical Review B</i> , 2008, 77, .	3.2	59
9	Understanding the Control of Mineralization by Polyelectrolyte Additives: Simulation of Preferential Binding to Calcite Surfaces. <i>Journal of Physical Chemistry C</i> , 2013, 117, 6904-6913.	3.1	57
10	Graphene quantum dot assisted translocation of drugs into a cell membrane. <i>Nanoscale</i> , 2019, 11, 4503-4514.	5.6	56
11	Effects of Graphene Nanopore Geometry on DNA Sequencing. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 1602-1607.	4.6	54
12	Transferability of Coarse Grained Potentials: Implicit Solvent Models for Hydrated Ions. <i>Journal of Chemical Theory and Computation</i> , 2011, 7, 1916-1927.	5.3	52
13	Molecular dynamics study on DNA nanotubes as drug delivery vehicle for anticancer drugs. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 153, 168-173.	5.0	44
14	Molecular dynamics study on the encapsulation and release of anti-cancer drug doxorubicin by chitosan. <i>International Journal of Pharmaceutics</i> , 2020, 580, 119241.	5.2	41
15	A Chemically Accurate Implicit-Solvent Coarse-Grained Model for Polystyrenesulfonate Solutions. <i>Macromolecules</i> , 2012, 45, 2551-2561.	4.8	38
16	Diameter Selectivity of Protein Encapsulation in Carbon Nanotubes. <i>Journal of Physical Chemistry B</i> , 2010, 114, 2869-2875.	2.6	37
17	DNA sequencing by two-dimensional materials: As theoretical modeling meets experiments. <i>Biosensors and Bioelectronics</i> , 2017, 89, 280-292.	10.1	35
18	A review on the cytotoxicity of graphene quantum dots: from experiment to simulation. <i>Nanoscale Advances</i> , 2021, 3, 904-917.	4.6	34

#	ARTICLE	IF	CITATIONS
19	Molecular dynamics study on the mechanism of polynucleotide encapsulation by chitosan. Scientific Reports, 2017, 7, 5050.	3.3	32
20	Molecular dynamics study on the interaction between doxorubicin and hydrophobically modified chitosan oligosaccharide. RSC Advances, 2014, 4, 23730-23739.	3.6	29
21	Computer simulation of water desalination through boron nitride nanotubes. Physical Chemistry Chemical Physics, 2017, 19, 30031-30038.	2.8	28
22	Atomistic insights into the separation mechanism of multilayer graphene membranes for water desalination. Physical Chemistry Chemical Physics, 2020, 22, 7224-7233.	2.8	27
23	A Novel Derivative of (-)mycousnine Produced by the Endophytic Fungus Mycosphaerella nawae, Exhibits High and Selective Immunosuppressive Activity on T Cells. Frontiers in Microbiology, 2017, 8, 1251.	3.5	26
24	Theoretical Evaluation of DNA Genotoxicity of Graphene Quantum Dots: A Combination of Density Functional Theory and Molecular Dynamics Simulations. Journal of Physical Chemistry B, 2020, 124, 9335-9342.	2.6	26
25	Molecular Dynamics Simulation on Stability of Insulin on Graphene. Chinese Journal of Chemical Physics, 2009, 22, 627-634.	1.3	25
26	Understanding the size effect of graphene quantum dots on protein adsorption. Colloids and Surfaces B: Biointerfaces, 2019, 174, 575-581.	5.0	24
27	Understanding the Structure of Hydrophobic Surfactants at the Air/Water Interface from Molecular Level. Langmuir, 2014, 30, 13815-13822.	3.5	23
28	Charge-tunable absorption behavior of DNA on graphene. Journal of Materials Chemistry B, 2015, 3, 4814-4820.	5.8	23
29	Adsorption of Insulin Peptide on Charged Single-Walled Carbon Nanotubes: Significant Role of Ordered Water Molecules. ChemPhysChem, 2009, 10, 1260-1269.	2.1	22
30	Controlled interval of aligned carbon nanotubes arrays for water desalination: A molecular dynamics simulation study. Desalination, 2016, 395, 28-32.	8.2	22
31	Theoretical studies on the dynamics of DNA fragment translocation through multilayer graphene nanopores. RSC Advances, 2014, 4, 50494-50502.	3.6	17
32	Molecular modelling of translocation of biomolecules in carbon nanotubes: method, mechanism and application. Molecular Simulation, 2016, 42, 827-835.	2.0	17
33	Effect of Shape on the Entering of Graphene Quantum Dots into a Membrane: A Molecular Dynamics Simulation. ACS Omega, 2021, 6, 10936-10943.	3.5	17
34	Conformational Mobility of GOx Coenzyme Complex on Single-Wall Carbon Nanotubes. Sensors, 2008, 8, 8453-8462.	3.8	16
35	On the loading mechanism of ssDNA into carbon nanotubes. RSC Advances, 2015, 5, 56896-56903.	3.6	15
36	Plasma Fibulin-3 as a Potential Biomarker for Patients with Asbestos-Related Diseases in the Han Population. Disease Markers, 2017, 2017, 1-8.	1.3	14

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37	Molecular dynamics simulations indicate that DNA bases using graphene nanopores can be identified by their translocation times. RSC Advances, 2015, 5, 9389-9395.	3.6	12
38	Charge-tunable insertion process of carbon nanotubes into DNA nanotubes. Journal of Molecular Graphics and Modelling, 2016, 66, 20-25.	2.4	12
39	Adsorption Behavior and Mechanism of SCA-1 on a Calcite Surface: A Molecular Dynamics Study. Langmuir, 2017, 33, 11321-11331.	3.5	11
40	Theoretic Study on Dispersion Mechanism of Boron Nitride Nanotubes by Polynucleotides. Scientific Reports, 2016, 6, 39747.	3.3	10
41	The self-assembly mechanism of tetra-peptides from the motif of β^2 -amyloid peptides: a combined coarse-grained and all-atom molecular dynamics simulation. RSC Advances, 2016, 6, 100072-100078.	3.6	10
42	Translocation mechanism of C60 and C60 derivations across a cell membrane. Journal of Nanoparticle Research, 2016, 18, 1.	1.9	8
43	DNA fragment translocation through the lipid membrane assisted by carbon nanotube. International Journal of Pharmaceutics, 2020, 574, 118921.	5.2	8
44	Theoretical studies on key factors in DNA sequencing using atomically thin molybdenum disulfide nanopores. Physical Chemistry Chemical Physics, 2018, 20, 28886-28893.	2.8	7
45	Investigation of the morphological transition of a phospholipid bilayer membrane in an external electric field via molecular dynamics simulation. Journal of Molecular Modeling, 2017, 23, 113.	1.8	6
46	The effect of spacer on the structure of surfactant at liquid/air interface: A molecular dynamics simulation study. Journal of Molecular Liquids, 2016, 222, 988-994.	4.9	4
47	Review and clinal variation of New Zealand Anabaxis Raffray (Coleoptera: Staphylinidae: Pselaphinae:) Tj ETQq1 1 0,784314 rgBT /Overlock 10 Tf 50 222 T	0.5	4
48	Theoretical investigation on the mechanism of phospholipid extraction from the cell membrane using functionalized graphene quantum dots. Materials Advances, 0, , .	5.4	4
49	Pressing Carbon Nanotubes Triggers Better Ion Selectivity. Journal of Physical Chemistry C, 2017, 121, 19512-19518.	3.1	3
50	Catalogue and type designations for New Zealand Goniaceritae (Coleoptera: Staphylinidae:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 222 T	0.5	3
51	Revision of the genus Simkinion Park and Pearce (Coleoptera: Staphylinidae: Pselaphinae: Goniaceritae) from New Zealand. New Zealand Entomologist, 2020, 43, 44-61.	0.3	2