

Jia-Wei Shen

List of Publications by Year in descending order

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51
papers

1,836
citations

257101

24
h-index

264894

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.	5.7	249
2	Induced stepwise conformational change of human serum albumin on carbon nanotube surfaces. <i>Biomaterials</i> , 2008, 29, 3847-3855.	5.7	141
3	On the spontaneous encapsulation of proteins in carbon nanotubes. <i>Biomaterials</i> , 2009, 30, 2807-2815.	5.7	110
4	Adsorption mechanism of BMP-7 on hydroxyapatite (001) surfaces. <i>Biochemical and Biophysical Research Communications</i> , 2007, 361, 91-96.	1.0	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.	1.5	85
6	Shield effect of silicate on adsorption of proteins onto silicon-doped hydroxyapatite (100) surface. <i>Biomaterials</i> , 2008, 29, 2423-2432.	5.7	66
7	Theoretical Evaluation on Potential Cytotoxicity of Graphene Quantum Dots. <i>ACS Biomaterials Science and Engineering</i> , 2016, 2, 1983-1991.	2.6	65
8	Diffusion dynamics of water controlled by topology of potential energy surface inside carbon nanotubes. <i>Physical Review B</i> , 2008, 77, .	1.1	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.	1.5	57
10	Graphene quantum dot assisted translocation of drugs into a cell membrane. <i>Nanoscale</i> , 2019, 11, 4503-4514.	2.8	56
11	Effects of Graphene Nanopore Geometry on DNA Sequencing. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 1602-1607.	2.1	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.	2.3	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.	2.5	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.	2.6	41
15	A Chemically Accurate Implicit-Solvent Coarse-Grained Model for Polystyrenesulfonate Solutions. <i>Macromolecules</i> , 2012, 45, 2551-2561.	2.2	38
16	Diameter Selectivity of Protein Encapsulation in Carbon Nanotubes. <i>Journal of Physical Chemistry B</i> , 2010, 114, 2869-2875.	1.2	37
17	DNA sequencing by two-dimensional materials: As theoretical modeling meets experiments. <i>Biosensors and Bioelectronics</i> , 2017, 89, 280-292.	5.3	35
18	A review on the cytotoxicity of graphene quantum dots: from experiment to simulation. <i>Nanoscale Advances</i> , 2021, 3, 904-917.	2.2	34

#	ARTICLE	IF	CITATIONS
19	Molecular dynamics study on the mechanism of polynucleotide encapsulation by chitosan. <i>Scientific Reports</i> , 2017, 7, 5050.	1.6	32
20	Molecular dynamics study on the interaction between doxorubicin and hydrophobically modified chitosan oligosaccharide. <i>RSC Advances</i> , 2014, 4, 23730-23739.	1.7	29
21	Computer simulation of water desalination through boron nitride nanotubes. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 30031-30038.	1.3	28
22	Atomistic insights into the separation mechanism of multilayer graphene membranes for water desalination. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 7224-7233.	1.3	27
23	A Novel Derivative of (-)mycosouanine Produced by the Endophytic Fungus <i>Mycosphaerella nawae</i> , Exhibits High and Selective Immunosuppressive Activity on T Cells. <i>Frontiers in Microbiology</i> , 2017, 8, 1251.	1.5	26
24	Theoretical Evaluation of DNA Genotoxicity of Graphene Quantum Dots: A Combination of Density Functional Theory and Molecular Dynamics Simulations. <i>Journal of Physical Chemistry B</i> , 2020, 124, 9335-9342.	1.2	26
25	Molecular Dynamics Simulation on Stability of Insulin on Graphene. <i>Chinese Journal of Chemical Physics</i> , 2009, 22, 627-634.	0.6	25
26	Understanding the size effect of graphene quantum dots on protein adsorption. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 174, 575-581.	2.5	24
27	Understanding the Structure of Hydrophobic Surfactants at the Air/Water Interface from Molecular Level. <i>Langmuir</i> , 2014, 30, 13815-13822.	1.6	23
28	Charge-tunable absorption behavior of DNA on graphene. <i>Journal of Materials Chemistry B</i> , 2015, 3, 4814-4820.	2.9	23
29	Adsorption of Insulin Peptide on Charged Single-Walled Carbon Nanotubes: Significant Role of Ordered Water Molecules. <i>ChemPhysChem</i> , 2009, 10, 1260-1269.	1.0	22
30	Controlled interval of aligned carbon nanotubes arrays for water desalination: A molecular dynamics simulation study. <i>Desalination</i> , 2016, 395, 28-32.	4.0	22
31	Theoretical studies on the dynamics of DNA fragment translocation through multilayer graphene nanopores. <i>RSC Advances</i> , 2014, 4, 50494-50502.	1.7	17
32	Molecular modelling of translocation of biomolecules in carbon nanotubes: method, mechanism and application. <i>Molecular Simulation</i> , 2016, 42, 827-835.	0.9	17
33	Effect of Shape on the Entering of Graphene Quantum Dots into a Membrane: A Molecular Dynamics Simulation. <i>ACS Omega</i> , 2021, 6, 10936-10943.	1.6	17
34	Conformational Mobility of GOx Coenzyme Complex on Single-Wall Carbon Nanotubes. <i>Sensors</i> , 2008, 8, 8453-8462.	2.1	16
35	On the loading mechanism of ssDNA into carbon nanotubes. <i>RSC Advances</i> , 2015, 5, 56896-56903.	1.7	15
36	Plasma Fibulin-3 as a Potential Biomarker for Patients with Asbestos-Related Diseases in the Han Population. <i>Disease Markers</i> , 2017, 2017, 1-8.	0.6	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.	1.7	12
38	Charge-tunable insertion process of carbon nanotubes into DNA nanotubes. Journal of Molecular Graphics and Modelling, 2016, 66, 20-25.	1.3	12
39	Adsorption Behavior and Mechanism of SCA-1 on a Calcite Surface: A Molecular Dynamics Study. Langmuir, 2017, 33, 11321-11331.	1.6	11
40	Theoretic Study on Dispersion Mechanism of Boron Nitride Nanotubes by Polynucleotides. Scientific Reports, 2016, 6, 39747.	1.6	10
41	The self-assembly mechanism of tetra-peptides from the motif of \hat{I}^2 -amyloid peptides: a combined coarse-grained and all-atom molecular dynamics simulation. RSC Advances, 2016, 6, 100072-100078.	1.7	10
42	Translocation mechanism of C60 and C60 derivations across a cell membrane. Journal of Nanoparticle Research, 2016, 18, 1.	0.8	8
43	DNA fragment translocation through the lipid membrane assisted by carbon nanotube. International Journal of Pharmaceutics, 2020, 574, 118921.	2.6	8
44	Theoretical studies on key factors in DNA sequencing using atomically thin molybdenum disulfide nanopores. Physical Chemistry Chemical Physics, 2018, 20, 28886-28893.	1.3	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.	0.8	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.	2.3	4
47	Review and clinal variation of New Zealand Anabaxis Raffray (Coleoptera: Staphylinidae: Pselaphinae:) Tj ETQq1 1 0,784314 rgBT /Overl	0.2	4
48	Theoretical investigation on the mechanism of phospholipid extraction from the cell membrane using functionalized graphene quantum dots. Materials Advances, 0, , .	2.6	4
49	Pressing Carbon Nanotubes Triggers Better Ion Selectivity. Journal of Physical Chemistry C, 2017, 121, 19512-19518.	1.5	3
50	Catalogue and type designations for New Zealand Goniaceritae (Coleoptera: Staphylinidae:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 222 T	0.2	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