Hong-Ming Ding

List of Publications by Year
in descending order

55 papers	2,471 citations	236612 25 h-index	197535 49 g-index
56 all docs	56 docs citations	56 times ranked	3135 citing authors

#	Article	IF	Citations
1	Designing Nanoparticle Translocation through Membranes by Computer Simulations. ACS Nano, 2012, 6, 1230-1238.	7.3	264
2	Theoretical and Computational Investigations of Nanoparticleâ€"Biomembrane Interactions in Cellular Delivery. Small, 2015, 11, 1055-1071.	5.2	232
3	Role of physicochemical properties of coating ligands in receptor-mediated endocytosis of nanoparticles. Biomaterials, 2012, 33, 5798-5802.	5.7	163
4	DNA Nanostructure-Programmed Like-Charge Attraction at the Cell-Membrane Interface. ACS Central Science, 2018, 4, 1344-1351.	5.3	163
5	Tailoring the component of protein corona via simple chemistry. Nature Communications, 2019, 10, 4520.	5.8	142
6	DNA Framework-Programmed Cell Capture via Topology-Engineered Receptorâ€"Ligand Interactions. Journal of the American Chemical Society, 2019, 141, 18910-18915.	6.6	122
7	Fluidic Multivalent Membrane Nanointerface Enables Synergetic Enrichment of Circulating Tumor Cells with High Efficiency and Viability. Journal of the American Chemical Society, 2020, 142, 4800-4806.	6.6	114
8	Interactions between Janus particles and membranes. Nanoscale, 2012, 4, 1116-1122.	2.8	110
9	Computer simulation of the role of protein corona in cellular delivery of nanoparticles. Biomaterials, 2014, 35, 8703-8710.	5.7	105
10	Controlling Cellular Uptake of Nanoparticles with pH-Sensitive Polymers. Scientific Reports, 2013, 3, 2804.	1.6	73
11	Translocation of polyarginines and conjugated nanoparticles across asymmetric membranes. Soft Matter, 2013, 9, 1281-1286.	1.2	67
12	Glyco-Platelets with Controlled Morphologies via Crystallization-Driven Self-Assembly and Their Shape-Dependent Interplay with Macrophages. ACS Macro Letters, 2019, 8, 596-602.	2.3	63
13	Radical-Induced Hierarchical Self-Assembly Involving Supramolecular Coordination Complexes in Both Solution and Solid States. Journal of the American Chemical Society, 2019, 141, 16014-16023.	6.6	62
14	Highly Ordered Selfâ€Assembly of Native Proteins into 1D, 2D, and 3D Structures Modulated by the Tether Length of Assemblyâ€Inducing Ligands. Angewandte Chemie - International Edition, 2017, 56, 10691-10695.	7.2	59
15	Can dual-ligand targeting enhance cellular uptake of nanoparticles?. Nanoscale, 2017, 9, 8982-8989.	2.8	56
16	Supramolecular Transformation of Metallacycle-linked Star Polymers Driven by Simple Phosphine Ligand-Exchange Reaction. Journal of the American Chemical Society, 2019, 141, 583-591.	6.6	46
17	Computational approaches to cellâ€"nanomaterial interactions: keeping balance between therapeutic efficiency and cytotoxicity. Nanoscale Horizons, 2018, 3, 6-27.	4.1	44
18	Pumping of water by rotating chiral carbon nanotube. Nanoscale, 2014, 6, 13606-13612.	2.8	41

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19	Design maps for cellular uptake of gene nanovectors by computer simulation. Biomaterials, 2013, 34, 8401-8407.	5.7	40
20	Improving the Performance of MM/PBSA in Proteinâ€"Protein Interactions via the Screening Electrostatic Energy. Journal of Chemical Information and Modeling, 2021, 61, 2454-2462.	2.5	40
21	Accurate Evaluation on the Interactions of SARS-CoV-2 with Its Receptor ACE2 and Antibodies CR3022/CB6*. Chinese Physics Letters, 2021, 38, 018701.	1.3	38
22	Chiral expression from molecular to macroscopic level via pH modulation in terbium coordination polymers. Nature Communications, 2017, 8, 2131.	5.8	35
23	Design strategy of surface decoration for efficient delivery of nanoparticles by computer simulation. Scientific Reports, 2016, 6, 26783.	1.6	32
24	Diversiform and Transformable Glyco-Nanostructures Constructed from Amphiphilic Supramolecular Metallocarbohydrates through Hierarchical Self-Assembly: The Balance between Metallacycles and Saccharides. ACS Nano, 2019, 13, 13474-13485.	7.3	32
25	Self-assembly of fullerenes and graphene flake: A molecular dynamics study. Carbon, 2015, 90, 34-43.	5.4	26
26	Designing a nanoparticle-containing polymeric substrate for detecting cancer cells by computer simulations. Nanoscale, 2019, 11, 2170-2178.	2.8	24
27	Computational investigation on DNA sequencing using functionalized graphene nanopores. Physical Chemistry Chemical Physics, 2018, 20, 9063-9069.	1.3	23
28	Water desalination by electrical resonance inside carbon nanotubes. Physical Chemistry Chemical Physics, 2016, 18, 28290-28296.	1.3	20
29	Counteranion Modulated Crystal Growth and Function of One-Dimensional Homochiral Coordination Polymers: Morphology, Structures, and Magnetic Properties. Inorganic Chemistry, 2018, 57, 12143-12154.	1.9	17
30	Self-Assembled Saccharide-Functionalized Amphiphilic Metallacycles as Biofilms Inhibitor via â€œSweet Talkingâ€. ACS Macro Letters, 2020, 9, 61-69.	2.3	15
31	Fabrication of Pascalâ€triangle Lattice of Proteins by Inducing Ligand Strategy. Angewandte Chemie - International Edition, 2020, 59, 9617-9623.	7.2	14
32	Interaction of serum proteins with SARS-CoV-2 RBD. Nanoscale, 2021, 13, 12865-12873.	2.8	14
33	Controlling water flow inside carbon nanotube with lipid membranes. Journal of Chemical Physics, 2014, 141, 094901.	1.2	13
34	Interaction of peptides with cell membranes: insights from molecular modeling. Journal of Physics Condensed Matter, 2016, 28, 083001.	0.7	13
35	Facile synthesis of gold trisoctahedral nanocrystals with controllable sizes and dihedral angles. Nanoscale, 2018, 10, 11034-11042.	2.8	13
36	Enhancing the targeting ability of nanoparticles<i>via</i>protected copolymers. Nanoscale, 2020, 12, 7804-7813.	2.8	12

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37	Reversible Immunoaffinity Interface Enables Dynamic Manipulation of Trapping Force for Accumulated Capture and Efficient Release of Circulating Rare Cells. Advanced Science, 2021, 8, e2102070.	5.6	12
38	Loading of DOX into a tetrahedral DNA nanostructure: the corner does matter. Nanoscale Advances, 2022, 4, 754-760.	2.2	12
39	Assessing the Performance of Screening MM/PBSA in Proteinâ€“Ligand Interactions. Journal of Physical Chemistry B, 2022, 126, 1700-1708.	1.2	11
40	Competition between Supramolecular Interaction and Proteinâ€“Protein Interaction in Protein Crystallization: Effects of Crystallization Method and Small Molecular Bridge. Industrial & Engineering Chemistry Research, 2018, 57, 6726-6733.	1.8	10
41	Controlling ion transport in a C₂N-based nanochannel with tunable interlayer spacing. Physical Chemistry Chemical Physics, 2020, 22, 16855-16861.	1.3	10
42	Efficient calculation of proteinâ€“ligand binding free energy using GFN methods: the power of the cluster model. Physical Chemistry Chemical Physics, 2022, 24, 14339-14347.	1.3	10
43	Modeling Stretching-Induced Immiscibility in Nonmonodisperse Polymer Systems. ACS Macro Letters, 2015, 4, 1033-1038.	2.3	8
44	Design strategy of pH-sensitive triblock copolymer micelles for efficient cellular uptake by computer simulations. Journal Physics D: Applied Physics, 2018, 51, 124002.	1.3	8
45	Ion transport through a nanoporous C₂N membrane: the effect of electric field and layer number. RSC Advances, 2018, 8, 36705-36711.	1.7	8
46	Unbound Natural Organic Matter Competes with Nanoparticles for Internalization Receptors During Cell Uptake. Environmental Science & Technology, 2020, 54, 15215-15224.	4.6	7
47	Designing new strategy for controlling DNA orientation in biosensors. Scientific Reports, 2015, 5, 14415.	1.6	5
48	Controlling the Interaction of Nanoparticles with Cell Membranes by the Polymeric Tether. Langmuir, 2019, 35, 12851-12857.	1.6	5
49	Correction: Computational approaches to cellâ€“nanomaterial interactions: keeping balance between therapeutic efficiency and cytotoxicity. Nanoscale Horizons, 2018, 3, 447-447.	4.1	4
50	Molecular Simulation Studies on the Interactions of Bilirubin at Different States with a Lipid Bilayer. Langmuir, 2021, 37, 11707-11715.	1.6	4
51	Influence of different membrane environments on the behavior of cholesterol. RSC Advances, 2014, 4, 53090-53096.	1.7	2
52	CO₂-switchable response of protein microtubules: behaviour and mechanism. Materials Chemistry Frontiers, 2018, 2, 1642-1646.	3.2	2
53	Evaluation on performance of MM/PBSA in nucleic acid-protein systems. Chinese Physics B, 2022, 31, 048701.	0.7	2
54	Cellular Uptake: Theoretical and Computational Investigations of Nanoparticleâ€“Biomembrane Interactions in Cellular Delivery (Small 9â€10/2015). Small, 2015, 11, 1014-1014.	5.2	1

#	Article	IF	Citations
55	Computational Design of a Functionalized Substrate for Capturing Nanoparticles with Specific Size and Shape. Langmuir, 2018, 34, 9829-9835.	1.6	0