

Yanchun Li

List of Publications by Year in descending order

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papers

2,291
citations

394421

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214800

47
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58
all docs

58
docs citations

58
times ranked

3315
citing authors

#	ARTICLE	IF	CITATIONS
1	Monolayer Ti ₂ CO ₂ : A Promising Candidate for NH ₃ Sensor or Capturer with High Sensitivity and Selectivity. ACS Applied Materials & Interfaces, 2015, 7, 13707-13713.	8.0	524
2	Self-Assembly of Amphiphilic Plasmonic Micelle-Like Nanoparticles in Selective Solvents. Journal of the American Chemical Society, 2013, 135, 7974-7984.	13.7	251
3	MXenes: Reusable materials for NH ₃ sensor or capturer by controlling the charge injection. Sensors and Actuators B: Chemical, 2016, 235, 103-109.	7.8	218
4	Penta-graphene: A Promising Anode Material as the Li/Na-Ion Battery with Both Extremely High Theoretical Capacity and Fast Charge/Discharge Rate. ACS Applied Materials & Interfaces, 2016, 8, 35342-35352.	8.0	174
5	Entropy-Driven Pattern Formation of Hybrid Vesicular Assemblies Made from Molecular and Nanoparticle Amphiphiles. Journal of the American Chemical Society, 2014, 136, 2602-2610.	13.7	126
6	Self-Assembly of Nanoclusters into Mono-, Few-, and Multilayered Sheets <i>via</i> Dipole-Induced Asymmetric van der Waals Attraction. ACS Nano, 2015, 9, 6315-6323.	14.6	98
7	The band gap modulation of monolayer Ti ₂ CO ₂ by strain. RSC Advances, 2015, 5, 30438-30444.	3.6	82
8	Colloidal Self-Assembly of Catalytic Copper Nanoclusters into Ultrathin Ribbons. Angewandte Chemie - International Edition, 2014, 53, 12196-12200.	13.8	78
9	Engineering the Self-Assembly Induced Emission of Cu Nanoclusters by Au(I) Doping. ACS Applied Materials & Interfaces, 2017, 9, 24899-24907.	8.0	69
10	Self-Assembly of Au ₁₅ into Single-Cluster Thick Sheets at the Interface of Two Miscible High-Boiling Solvents. Angewandte Chemie - International Edition, 2013, 52, 9952-9955.	13.8	66
11	Electrospun poly(methyl methacrylate) nanofibers and microparticles. Journal of Materials Science, 2010, 45, 1032-1038.	3.7	48
12	Carbon Excess C ₃ N: A Potential Candidate as Li-Ion Battery Material. ACS Applied Materials & Interfaces, 2018, 10, 37135-37141.	8.0	44
13	Theoretical Prediction of the N-H and O-H Bonds Cleavage Catalyzed by the Single-Walled Silicon Carbide Nanotube. Journal of Physical Chemistry C, 2009, 113, 16736-16740.	3.1	39
14	Hydrogen Bonding Stabilized Self-Assembly of Inorganic Nanoparticles: Mechanism and Collective Properties. ACS Nano, 2015, 9, 5807-5817.	14.6	31
15	Influence of molecular-weight polydispersity on the glass transition of polymers. Physical Review E, 2016, 93, 012613.	2.1	26
16	The important role of cosolvent in the amphiphilic diblock copolymer self-assembly process. Polymer, 2019, 171, 1-7.	3.8	26
17	Theoretical investigation on the healing mechanism of divacancy defect in graphene growth by reaction with ethylene and acetylene. New Journal of Chemistry, 2013, 37, 640-645.	2.8	24
18	Visible-Light-Induced Reversible Photochemical Crystal-Liquid Transitions of Azo-Switches for Smart and Robust Adhesives. Chemistry of Materials, 2022, 34, 2636-2644.	6.7	23

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19	Ultrathin [110]-Confined $\text{Li}_4\text{Ti}_5\text{O}_{12}$ Nanoflakes for High Rate Lithium Storage. <i>Advanced Energy Materials</i> , 2021, 11, 2003270.	19.5	22
20	Beryllium and boron decoration forms planar tetracoordinate carbon strips at the edge of graphene nanoribbons. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 2732-2737.	2.8	19
21	The healing of N-vacancy in boron nitride nanotube by using NO and NO ₂ molecules: a density functional theoretical study. <i>RSC Advances</i> , 2014, 4, 22688.	3.6	18
22	Photoinduced Conversion of Cu Nanoclusters Self-Assembly Architectures from Ribbons to Spheres. <i>Journal of Physical Chemistry C</i> , 2016, 120, 24427-24436.	3.1	18
23	Experimental observations and dissipative particle dynamic simulations on microstructures of pH-sensitive polymer containing amorphous solid dispersions. <i>International Journal of Pharmaceutics</i> , 2017, 517, 185-195.	5.2	18
24	Mg intercalation into Ti ₂ C building block. <i>Chemical Physics Letters</i> , 2015, 629, 36-39.	2.6	16
25	Effects of the Cage Unit Size and Number of Cage Units As Well As Bridge Unit on the Second Order Nonlinear Optical Response in Multicage Electride Molecules. <i>Journal of Physical Chemistry A</i> , 2013, 117, 6678-6686.	2.5	15
26	Ionic Transport and Robust Switching Properties of the Confined Self-Assembled Block Copolymer/Homopolymer in Asymmetric Nanochannels. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 14507-14517.	8.0	15
27	Theoretical Investigation of the Interaction between Carbon Monoxide and Carbon Nanotubes with Single-Vacancy Defects. <i>ChemPhysChem</i> , 2010, 11, 3505-3510.	2.1	13
28	Sensing mechanism of HBT based F anion fluorescence sensor: A theoretical study. <i>Sensors and Actuators B: Chemical</i> , 2019, 280, 162-170.	7.8	11
29	PC6 monolayer: A potential candidate as NO _x sensor with high sensitivity and selectivity. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2020, 118, 113958.	2.7	11
30	Evaporation- and surface-induced morphology of symmetric diblock copolymer thin films: a multibody dissipative particle dynamics study. <i>Molecular Simulation</i> , 2011, 37, 875-883.	2.0	10
31	First-principles study on the C-excess C ₃ B for its potential application in sensing NO ₂ and NO. <i>Applied Surface Science</i> , 2020, 512, 145611.	6.1	10
32	Theoretical investigation on the healing mechanism of divacancy defect in CNT growth by C ₂ H ₂ and C ₂ H ₄ . <i>Journal of Molecular Modeling</i> , 2014, 20, 2125.	1.8	9
33	Self-assembly of two-patch particles in solution: a Brownian dynamics simulation study. <i>Molecular Simulation</i> , 2014, 40, 449-457.	2.0	8
34	Coil to globule transition of homo- and block-copolymer with different topological constraint and chain stiffness. <i>Science China Chemistry</i> , 2015, 58, 1471-1477.	8.2	8
35	The pH dependence and role of fluorinated substituent of enoxacin binding to ferrihydrite. <i>Science of the Total Environment</i> , 2022, 823, 153707.	8.0	8
36	Functionalization of silicon carbide nanotube by dichlorocarbene: A density functional theory study. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2014, 56, 377-385.	2.7	7

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37	An accurate ground state potential surface for the scattering reaction $F^{+} + F_2(v, j) \rightarrow F_2(v', j') + F^{+}$. RSC Advances, 2019, 9, 1929-1932.		7
38	Generation of Phenol and Molecular Hydrogen through Catalyst-Free H Activation of Benzene by Water Radical Cations. Journal of the American Society for Mass Spectrometry, 2022, 33, 68-73.	2.8	7
39	Screening NIR fluorescent sensor based on HBQ derivatives: A theoretical study. Journal of Photochemistry and Photobiology A: Chemistry, 2019, 383, 111989.	3.9	6
40	Theoretical Design of Near-Infrared Fluorescent Sensor for F Anion Detection Based on 10-Hydroxybenzo[h]quinoline Backbone. ACS Omega, 2019, 4, 10516-10523.	3.5	6
41	Spontaneous Formation of Moiré Patterns through Self-Assembly of Janus Nanoparticles. Journal of Physical Chemistry Letters, 2020, 11, 4542-4547.	4.6	6
42	Protic vs Aprotic Solvent Effect on Proton Transfer in 3-Hydroxyisoquinoline: A Theoretical Study. Journal of Physical Chemistry A, 2015, 119, 11882-11890.	2.5	5
43	Global accurate diabatic potential surfaces for the reaction $H + Li_2$. RSC Advances, 2020, 10, 39226-39240.	3.6	5
44	Novel nano-patterned structures of mixed hairy nanoparticles in single layer. Polymer, 2020, 192, 122295.	3.8	5
45	Towards larger spatiotemporal scales in polymer simulations. Science Bulletin, 2013, 58, 3595-3599.	1.7	4
46	Computer simulation study on the self-assembly of tethered nanoparticles with tunable shapes. RSC Advances, 2019, 9, 1354-1361.	3.6	4
47	Theoretical study of the P-Ylide reaction in the carbon nanotube. Science in China Series B: Chemistry, 2009, 52, 1969-1972.	0.8	3
48	Evaporation-induced morphology pattern of triblock copolymer A5B10C5 in thin film: A multibody DPD simulation study. Chemical Research in Chinese Universities, 2014, 30, 144-148.	2.6	3
49	Structure and magnetic properties of open-ended silicon carbide nanotubes. RSC Advances, 2015, 5, 52754-52758.	3.6	2
50	Graphitic SiC : A potential anode material for Na-ion battery with extremely high storage capacity. International Journal of Quantum Chemistry, 2021, 121, e26608.	2.0	2
51	Phenanthroline Derivative Fluorescent Probe for Rapid and Sensitive Detection of Silver(I). Analytical Sciences, 2021, 37, 871-877.	1.6	2
52	Reactive scattering for $H_2 + H_2$: non-Born-Oppenheimer classical investigation. European Physical Journal D, 2013, 67, 1.	1.3	1
53	A computer simulation study of the hierarchical assembly behaviour of triblock patchy particles. Molecular Simulation, 2019, 45, 759-767.	2.0	1
54	Lithium-ion Batteries: Ultrathin [110]-Confined $Li_4Ti_5O_{12}$ Nanoflakes for High Rate Lithium Storage (Adv. Energy Mater. 22/2021). Advanced Energy Materials, 2021, 11, 2170084.	19.5	1

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55	The Reaction Mechanism Study for the F3 System. BioMed Research International, 2022, 2022, 1-7.	1.9	0