

# Cai-Chao Ye

## List of Publications by Year in descending order

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44  
papers

1,087  
citations

516710

16  
h-index

414414

32  
g-index

44  
all docs

44  
docs citations

44  
times ranked

1287  
citing authors

#	ARTICLE	IF	CITATIONS
1	Natural Graphene Plasmonic Nano-Resonators for Highly Active Surface-Enhanced Raman Scattering Platforms. <i>Energy and Environmental Materials</i> , 2023, 6, .	12.8	2
2	Soft template-directed interlayer confinement synthesis of a Fe-Co dual single-atom catalyst for Zn-air batteries. <i>Energy Storage Materials</i> , 2022, 45, 805-813.	18.0	99
3	Electron-induced enhanced interfacial interaction of the CuO/BiOCl heterostructure for boosted CO <sub>2</sub> photoreduction performance under simulated sunlight. <i>Applied Surface Science</i> , 2022, 583, 152463.	6.1	10
4	Ordered Element Distributed C <sub>3</sub> N Quantum Dots Manipulated Crystallization Kinetics for 2D CsPbI <sub>3</sub> Solar Cells with Ultra-High Performance. <i>Small</i> , 2022, 18, e2108090.	10.0	5
5	Machine learning assisted discovering of new M <sub>2</sub> X <sub>3</sub> -type thermoelectric materials. <i>Rare Metals</i> , 2022, 41, 1543-1553.	7.1	12
6	Investigation of a Highly Sensitive Surface-Enhanced Raman Scattering Substrate Formed by a Three-Dimensional/Two-Dimensional Graphene/Germanium Heterostructure. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 14764-14773.	8.0	3
7	Synthesis of Tostadas-Shaped Metal-Organic Frameworks for Remitting Capacity Fading of Li-ion Batteries. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	23
8	Ordered Element Distributed C <sub>3</sub> N Quantum Dots Manipulated Crystallization Kinetics for 2D CsPbI <sub>3</sub> Solar Cells with Ultra-High Performance (Small 15/2022). <i>Small</i> , 2022, 18, .	10.0	0
9	Onset of catalytic activity of graphene nanosheets in reaction with energetic materials evaluated by ReaxFF molecular dynamics simulation. <i>Surfaces and Interfaces</i> , 2022, 31, 102024.	3.0	1
10	Theoretical Studies on the Role of Guest in $\pm$ -CL-20/Guest Crystals. <i>Molecules</i> , 2022, 27, 3266.	3.8	1
11	Structural evolution of aluminum hydride nanoparticles in water using ReaxFF molecular dynamics method. <i>Materials Today Communications</i> , 2021, 26, 101804.	1.9	6
12	Prediction and Classification of Formation Energies of Binary Compounds by Machine Learning: An Approach without Crystal Structure Information. <i>ACS Omega</i> , 2021, 6, 14533-14541.	3.5	13
13	Molecular dynamic insight into aluminum nanoparticles self-encapsulated by CNTs and their oxygen ignition. <i>Materials Today Communications</i> , 2021, 28, 102628.	1.9	0
14	Layered Hexaphenylbenzene (HPB) derivatives with pseudo-2D structure for high-performance Li ion batteries. <i>Energy Storage Materials</i> , 2021, 42, 109-117.	18.0	8
15	ReaxFF study on combustion mechanism of ethanol/nitromethane. <i>Fuel</i> , 2021, 303, 121221.	6.4	24
16	Formation of noble-metal-free 2D/2D ZnIn <sub>2</sub> S <sub>3</sub> (m=1, 2, 3)/MXene Schottky heterojunction as an efficient photocatalyst for hydrogen evolution. <i>Chemical Engineering Journal</i> , 2021, 424, 130170.	12.7	28
17	5-IP7 is a GPCR messenger mediating neural control of synaptotagmin-dependent insulin exocytosis and glucose homeostasis. <i>Nature Metabolism</i> , 2021, 3, 1400-1414.	11.9	13
18	Self-Assembled NbOPO <sub>4</sub> Nanosheet/Reduced Graphene Oxide Heterostructure for Capacitive Desalination. <i>ACS Applied Nano Materials</i> , 2021, 4, 12629-12639.	5.0	11

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19	Ab initio thermodynamic optimization of Ni-rich Ni-Co-Mn oxide cathode coatings. <i>Journal of Power Sources</i> , 2020, 450, 227693.	7.8	15
20	Polarizing Graphene Quantum Dots toward Long-Acting Intracellular Reactive Oxygen Species Evaluation and Tumor Detection. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 10781-10790.	8.0	21
21	Crystal Morphology Prediction and Anisotropic Evolution of 1,1-Diamino-2,2-dinitroethylene (FOX-7) by Temperature Tuning. <i>Scientific Reports</i> , 2020, 10, 2317.	3.3	15
22	Crystal Morphology of 3,4-Bis(3-nitrofurazan-4-yl)furoxan in Methanol and Acetic Acid/Water Solutions by Spiral Growth Mechanism. <i>Propellants, Explosives, Pyrotechnics</i> , 2020, 45, 1125-1136.	1.6	7
23	Enhancing the magnetic relaxivity of MRI contrast agents via the localized superacid microenvironment of graphene quantum dots. <i>Biomaterials</i> , 2020, 250, 120056.	11.4	48
24	Rationalizing the interphase stability of Li <sub>7</sub> La <sub>3</sub> Zr <sub>2</sub> O <sub>12</sub> via automated reaction screening and machine learning. <i>Journal of Materials Chemistry A</i> , 2019, 7, 19961-19969.	10.3	59
25	Molecular dynamics simulation on reaction and kinetics isotope effect of nano-aluminum and water. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 19474-19483.	7.1	12
26	Initial Decomposition of HMX Energetic Material from Quantum Molecular Dynamics and the Molecular Structure Transition of $\dot{I}^2$ -HMX to $\dot{I}$ -HMX. <i>Journal of Physical Chemistry C</i> , 2019, 123, 9231-9236.	3.1	28
27	C <sub>3</sub> N <sup>+</sup> A 2D Crystalline, Hole-Free, Tunable-Narrow-Bandgap Semiconductor with Ferromagnetic Properties. <i>Advanced Materials</i> , 2017, 29, 1605625.	21.0	350
28	Adsorption and decomposition of HMX and CL <sub>20</sub> on Al(111) surface by DFT investigation. <i>Surface and Interface Analysis</i> , 2017, 49, 441-449.	1.8	9
29	Prediction of the crystal packing of di-tetrazine-tetroxide (DTTO) energetic material. <i>Journal of Computational Chemistry</i> , 2016, 37, 163-167.	3.3	24
30	Prediction of structures and properties of 2,4,6-triamino-1,3,5-triazine-1,3,5-trioxide (MTO) and 2,4,6-trinitro-1,3,5-triazine-1,3,5-trioxide (MTO3N) green energetic materials from DFT and ReaxFF molecular modeling. <i>Journal of Materials Chemistry A</i> , 2016, 4, 1264-1276.	10.3	17
31	Initial Decomposition Reactions of Bicyclo-HMX [BCHMX or <i>cis</i> -1,3,4,6-Tetranitrooctahydroimidazo[4,5-d]imidazole] from Quantum Molecular Dynamics Simulations. <i>Journal of Physical Chemistry C</i> , 2015, 119, 2290-2296.	3.1	17
32	Reaction mechanism from quantum molecular dynamics for the initial thermal decomposition of 2,4,6-triamino-1,3,5-triazine-1,3,5-trioxide (MTO) and 2,4,6-trinitro-1,3,5-triazine-1,3,5-trioxide (MTO3N), promising green energetic materials. <i>Journal of Materials Chemistry A</i> , 2015, 3, 12044-12050.	10.3	18
33	Initial decomposition reaction of di-tetrazine-tetroxide (DTTO) from quantum molecular dynamics: implications for a promising energetic material. <i>Journal of Materials Chemistry A</i> , 2015, 3, 1972-1978.	10.3	38
34	Quantum size effect of poly(o-phenylenediamine) quantum dots: From controllable fabrication to tunable photoluminescence properties. <i>Synthetic Metals</i> , 2014, 198, 142-149.	3.9	42
35	Theoretical calculation based synthesis of a poly(p-phenylenediamine)-Fe <sub>3</sub> O <sub>4</sub> composite: a magnetically recyclable photocatalyst with high selectivity for acid dyes. <i>RSC Advances</i> , 2014, 4, 54810-54818.	3.6	30
36	Density functional theory studies of methanol adsorption and decomposition mechanism on Al <sub>13</sub> clusters. <i>Canadian Journal of Chemistry</i> , 2014, 92, 293-298.	1.1	2

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37	DFT Study for Adsorption and Decomposition Mechanism of Trimethylene Oxide on Al(111) Surface. Bulletin of the Korean Chemical Society, 2014, 35, 2013-2018.	1.9	0
38	Adsorption and decomposition mechanism of hexogen (RDX) on Al(111) surface by periodic DFT calculations. Journal of Molecular Modeling, 2013, 19, 2451-2458.	1.8	37
39	A DFT study of adsorption and decomposition of hexahydro-1,3,5-trinitro-1,3,5-triazine on Mg(0001) surface. Journal of Molecular Modeling, 2013, 19, 4459-4465.	1.8	1
40	Density functional theory studies on adsorption and decomposition mechanism of FOX-7 on Al13 clusters. Canadian Journal of Chemistry, 2013, 91, 1207-1212.	1.1	8
41	Strain Energy Calculations of Caged Silanes. Phosphorus, Sulfur and Silicon and the Related Elements, 2012, 187, 997-1002.	1.6	2
42	Adsorption and Decomposition Mechanism of 1,1-Diamino-2,2-dinitroethylene on Al(111) Surface by Periodic DFT Calculations. Chinese Journal of Chemistry, 2012, 30, 2539-2548.	4.9	19
43	Theoretical study on dimers of 2,6-diamino-3,5-dinitropyridine and its N-oxide. Journal of Structural Chemistry, 2012, 53, 659-664.	1.0	5
44	Theoretical Study on Thermodynamic Properties and Stabilities of <i>n</i> -Silanes. Phosphorus, Sulfur and Silicon and the Related Elements, 2011, 186, 1948-1961.	1.6	4