

# Hong Yan

## List of Publications by Year in descending order

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47  
papers

2,538  
citations

186265

28  
h-index

214800

47  
g-index

50  
all docs

50  
docs citations

50  
times ranked

3489  
citing authors

#	ARTICLE	IF	CITATIONS
1	Highly Selective Photoreduction of CO <sub>2</sub> with Suppressing H <sub>2</sub> Evolution over Monolayer Layered Double Hydroxide under Irradiation above 600 nm. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 11860-11867.	13.8	224
2	TiO <sub>2</sub> @Layered Double Hydroxide Core-Shell Nanospheres with Largely Enhanced Photocatalytic Activity Toward O <sub>2</sub> Generation. <i>Advanced Functional Materials</i> , 2015, 25, 2243-2249.	14.9	223
3	Theoretical and Experimental Study on M <sup>II</sup> M <sup>III</sup> -Layered Double Hydroxides as Efficient Photocatalysts toward Oxygen Evolution from Water. <i>Journal of Physical Chemistry C</i> , 2015, 119, 18823-18834.	3.1	170
4	Healable, Transparent, Room-Temperature Electronic Sensors Based on Carbon Nanotube Network-Coated Polyelectrolyte Multilayers. <i>Small</i> , 2015, 11, 5807-5813.	10.0	151
5	Tunable Mechanoresponsive Self-Assembly of an Amide-Linked Dyad with Dual Sensitivity of Photochromism and Mechanochromism. <i>Advanced Functional Materials</i> , 2017, 27, 1701210.	14.9	125
6	Band Structure Engineering of Transition-Metal-Based Layered Double Hydroxides toward Photocatalytic Oxygen Evolution from Water: A Theoretical-Experimental Combination Study. <i>Journal of Physical Chemistry C</i> , 2017, 121, 2683-2695.	3.1	113
7	Cobalt Phosphide Composite Encapsulated within N-Doped Carbon Nanotubes for Synergistic Oxygen Evolution. <i>Small</i> , 2018, 14, e1800367.	10.0	106
8	Exploiting Single Atom Iron Centers in a Porphyrin-like MOF for Efficient Cancer Phototherapy. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 35228-35237.	8.0	105
9	Transparent, Flexible Films Based on Layered Double Hydroxide/Cellulose Acetate with Excellent Oxygen Barrier Property. <i>Advanced Functional Materials</i> , 2014, 24, 514-521.	14.9	101
10	A Family of Visible-Light Responsive Photocatalysts Obtained by Dispersing CrO <sub>6</sub> Octahedra into a Hydrotalcite Matrix. <i>Chemistry - A European Journal</i> , 2011, 17, 13175-13181.	3.3	91
11	CdTe Quantum Dots/Layered Double Hydroxide Ultrathin Films with Multicolor Light Emission via Layer-by-Layer Assembly. <i>Advanced Functional Materials</i> , 2012, 22, 4940-4948.	14.9	80
12	DFT study on MgAl-layered double hydroxides with different interlayer anions: structure, anion exchange, host-guest interaction and basic sites. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 2521-2529.	2.8	77
13	Hydrogenation mechanism of carbon dioxide and carbon monoxide on Ru(0001) surface: a density functional theory study. <i>RSC Advances</i> , 2014, 4, 30241.	3.6	69
14	Theoretical study of the hexahydrated metal cations for the understanding of their template effects in the construction of layered double hydroxides. <i>Computational and Theoretical Chemistry</i> , 2008, 866, 34-45.	1.5	64
15	NiS <sub>2</sub> nanodotted carnation-like CoS <sub>2</sub> for enhanced electrocatalytic water splitting. <i>Chemical Communications</i> , 2019, 55, 3781-3784.	4.1	56
16	Transparent, Ultrahigh Gas Barrier Films with a Brick-Mortar-Sand Structure. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 9673-9678.	13.8	54
17	Catalytic behavior of supported Ru nanoparticles on the (101) and (001) facets of anatase TiO <sub>2</sub> . <i>RSC Advances</i> , 2014, 4, 10834.	3.6	49
18	Highly Selective Photoreduction of CO <sub>2</sub> with Suppressing H <sub>2</sub> Evolution over Monolayer Layered Double Hydroxide under Irradiation above 600 nm. <i>Angewandte Chemie</i> , 2019, 131, 11986-11993.	2.0	47

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19	Anion exchange behavior of M <sup>II</sup> Al layered double hydroxides: a molecular dynamics and DFT study. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 19758-19768.	2.8	44
20	Theoretical Study on the Structural Properties and Relative Stability of M(II)Al Layered Double Hydroxides Based on a Cluster Model. <i>Journal of Physical Chemistry A</i> , 2009, 113, 6133-6141.	2.5	43
21	Plane-Wave Density Functional Theory Study on the Structural and Energetic Properties of Cation-Disordered MgAl Layered Double Hydroxides. <i>Journal of Physical Chemistry A</i> , 2010, 114, 7369-7376.	2.5	42
22	Interface Engineering of High-Energy Faceted Co <sub>3</sub> O <sub>4</sub> /ZnO Heterostructured Catalysts Derived from Layered Double Hydroxide Nanosheets. <i>Industrial &amp; Engineering Chemistry Research</i> , 2018, 57, 5259-5267.	3.7	42
23	Remarkable oxygen barrier films based on a layered double hydroxide/chitosan hierarchical structure. <i>Journal of Materials Chemistry A</i> , 2015, 3, 12350-12356.	10.3	41
24	Bimetallic sulfide nanoparticles confined by dual-carbon nanostructures as anodes for lithium-/sodium-ion batteries. <i>Chemical Communications</i> , 2018, 54, 8909-8912.	4.1	39
25	Valence Force Field for Layered Double Hydroxide Materials Based on the Parameterization of Octahedrally Coordinated Metal Cations. <i>Journal of Physical Chemistry C</i> , 2012, 116, 3421-3431.	3.1	38
26	The reaction mechanism and selectivity of acetylene hydrogenation over NiGa intermetallic compound catalysts: a density functional theory study. <i>Dalton Transactions</i> , 2018, 47, 4198-4208.	3.3	38
27	DFT-Based Simulation and Experimental Validation of the Topotactic Transformation of MgAl Layered Double Hydroxides. <i>ChemPhysChem</i> , 2016, 17, 2754-2766.	2.1	30
28	Discovery of a new intercalation-type anode for high-performance sodium ion batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 15371-15377.	10.3	28
29	DFT Study on the Mechanism of the Water Gas Shift Reaction Over Ni <sub>x</sub> P <sub>y</sub> Catalysts: The Role of P. <i>Journal of Physical Chemistry C</i> , 2020, 124, 6598-6610.	3.1	18
30	Enrichment of rare earth metal ions by the highly selective adsorption of phytate intercalated layered double hydroxide. <i>Dalton Transactions</i> , 2018, 47, 3093-3101.	3.3	16
31	An <i>in situ</i> phosphorization strategy towards doped Co <sub>2</sub> P scaffolded within echinus-like carbon for overall water splitting. <i>Nanoscale</i> , 2020, 12, 19253-19258.	5.6	16
32	Density functional theory study on the influence of cation ratio on the host layer structure of Zn/Al double hydroxides. <i>Particuology</i> , 2010, 8, 212-220.	3.6	15
33	Understanding the thermal motion of the luminescent dyes in the dye-surfactant cointercalated ZnAl-layered double hydroxides: a molecular dynamics study. <i>RSC Advances</i> , 2014, 4, 47472-47480.	3.6	15
34	Construction of a Unique Structure of Ru Sites in the RuP Structure for Propane Dehydrogenation. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 33045-33055.	8.0	15
35	Improvement of Selectivity in Acetylene Hydrogenation with Comparable Activity over Ordered PdCu Catalysts Induced by Post-treatment. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 706-716.	8.0	15
36	Manganese-based layered double hydroxide nanoparticles as highly efficient ozone decomposition catalysts with tunable valence state. <i>Nanoscale</i> , 2020, 12, 12817-12823.	5.6	14

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37	Interlayer confinement synthesis of Ir nanodots/dual carbon as an electrocatalyst for overall water splitting. <i>Journal of Materials Chemistry A</i> , 2021, 9, 4176-4183.	10.3	14
38	The Periodic Table as a Guide to the Construction and Properties of Layered Double Hydroxides. <i>Structure and Bonding</i> , 2019, , 89-120.	1.0	12
39	Water-Gas-Shift Reaction on Au/TiO <sub>2</sub> Catalysts with Various TiO <sub>2</sub> Crystalline Phases: A Theoretical and Experimental Study. <i>Journal of Physical Chemistry C</i> , 2021, 125, 20360-20372.	3.1	11
40	Flexible Room-Temperature Gas Sensors of Nanocomposite Network-Coated Papers. <i>ChemistrySelect</i> , 2016, 1, 2816-2820.	1.5	10
41	Theoretical study on the topotactic transformation and memory effect of M (II) M (III)-layered double hydroxides. <i>Molecular Simulation</i> , 2017, 43, 1338-1347.	2.0	10
42	Theoretical study on the reaction mechanism and selectivity of acetylene semi-hydrogenation on Ni-Sn intermetallic catalysts. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 1384-1392.	2.8	10
43	Theoretical study on the anisotropic photo-induced carrier mobilities in layered double hydroxide-based photocatalysts. <i>Journal of Materials Chemistry A</i> , 2021, 9, 20466-20482.	10.3	8
44	Theoretical Study on Photocatalytic CO <sub>2</sub> Reduction to CO and CH <sub>4</sub> over M(II)-M(III/IV)-Layered Double Hydroxides. <i>Journal of Physical Chemistry C</i> , 2022, 126, 1356-1365.	3.1	8
45	Effect of point defects on acetylene hydrogenation reaction over Ni(111) surface: a density functional theory study. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 27340-27347.	2.8	1
46	Selective Intercalation of Phenolphthalein Quinone Dianion in Layered Hosts against UV-Photodegradation of Bitumen. <i>Industrial &amp; Engineering Chemistry Research</i> , 2021, 60, 5076-5083.	3.7	0
47	Theoretical Prediction of the Carrier Mobilities for MII2MIII- Layered Double Hydroxides in the Three-Dimensional Directions. <i>Journal of Materials Chemistry C</i> , 0, , .	5.5	0