

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	Theoretical Study on Photocatalytic CO ₂ Reduction to CO and CH ₄ over M(II)-M(III/IV)-Layered Double Hydroxides. Journal of Physical Chemistry C, 2022, 126, 1356-1365.	3.1	8
2	Theoretical study on the anisotropic photo-induced carrier mobilities in layered double hydroxide-based photocatalysts. Journal of Materials Chemistry A, 2021, 9, 20466-20482.	10.3	8
3	Selective Intercalation of Phenolphthalein Quinone Dianion in Layered Hosts against UV-Photodegradation of Bitumen. Industrial & Engineering Chemistry Research, 2021, 60, 5076-5083.	3.7	0
4	Construction of a Unique Structure of Ru Sites in the RuP Structure for Propane Dehydrogenation. ACS Applied Materials & Interfaces, 2021, 13, 33045-33055.	8.0	15
5	Water-Gas-Shift Reaction on Au/TiO ₂ Catalysts with Various TiO ₂ Crystalline Phases: A Theoretical and Experimental Study. Journal of Physical Chemistry C, 2021, 125, 20360-20372.	3.1	11
6	Interlayer confinement synthesis of Ir nanodots/dual carbon as an electrocatalyst for overall water splitting. Journal of Materials Chemistry A, 2021, 9, 4176-4183.	10.3	14
7	Improvement of Selectivity in Acetylene Hydrogenation with Comparable Activity over Ordered PdCu Catalysts Induced by Post-treatment. ACS Applied Materials & Interfaces, 2021, 13, 706-716.	8.0	15
8	Effect of point defects on acetylene hydrogenation reaction over Ni(111) surface: a density functional theory study. Physical Chemistry Chemical Physics, 2021, 23, 27340-27347.	2.8	1
9	DFT study on MgAl-layered double hydroxides with different interlayer anions: structure, anion exchange, host-guest interaction and basic sites. Physical Chemistry Chemical Physics, 2020, 22, 2521-2529.	2.8	77
10	Anion exchange behavior of M ^{II} Al layered double hydroxides: a molecular dynamics and DFT study. Physical Chemistry Chemical Physics, 2020, 22, 19758-19768.	2.8	44
11	An <i>in situ</i> phosphorization strategy towards doped Co ₂ P scaffolded within echinus-like carbon for overall water splitting. Nanoscale, 2020, 12, 19253-19258.	5.6	16
12	Manganese-based layered double hydroxide nanoparticles as highly efficient ozone decomposition catalysts with tunable valence state. Nanoscale, 2020, 12, 12817-12823.	5.6	14
13	DFT Study on the Mechanism of the Water Gas Shift Reaction Over Ni _x P _y Catalysts: The Role of P. Journal of Physical Chemistry C, 2020, 124, 6598-6610.	3.1	18
14	Exploiting Single Atom Iron Centers in a Porphyrin-like MOF for Efficient Cancer Phototherapy. ACS Applied Materials & Interfaces, 2019, 11, 35228-35237.	8.0	105
15	The Periodic Table as a Guide to the Construction and Properties of Layered Double Hydroxides. Structure and Bonding, 2019, , 89-120.	1.0	12
16	Theoretical study on the reaction mechanism and selectivity of acetylene semi-hydrogenation on Ni-Sn intermetallic catalysts. Physical Chemistry Chemical Physics, 2019, 21, 1384-1392.	2.8	10
17	Highly Selective Photoreduction of CO ₂ with Suppressing H ₂ Evolution over Monolayer Layered Double Hydroxide under Irradiation above 600 nm. Angewandte Chemie, 2019, 131, 11986-11993.	2.0	47
18	Highly Selective Photoreduction of CO ₂ with Suppressing H ₂ Evolution over Monolayer Layered Double Hydroxide under Irradiation above 600 nm. Angewandte Chemie - International Edition, 2019, 58, 11860-11867.	13.8	224

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19	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
20	NiS ₂ nanodotted carnation-like CoS ₂ for enhanced electrocatalytic water splitting. <i>Chemical Communications</i> , 2019, 55, 3781-3784.	4.1	56
21	The reaction mechanism and selectivity of acetylene hydrogenation over Ni-Ga intermetallic compound catalysts: a density functional theory study. <i>Dalton Transactions</i> , 2018, 47, 4198-4208.	3.3	38
22	Cobalt Phosphide Composite Encapsulated within N,P-Doped Carbon Nanotubes for Synergistic Oxygen Evolution. <i>Small</i> , 2018, 14, e1800367.	10.0	106
23	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
24	Interface Engineering of High-Energy Faceted Co ₃ O ₄ /ZnO Heterostructured Catalysts Derived from Layered Double Hydroxide Nanosheets. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 5259-5267.	3.7	42
25	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
26	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
27	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
28	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
29	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
30	Flexible Room-Temperature Gas Sensors of Nanocomposite Network-Coated Papers. <i>ChemistrySelect</i> , 2016, 1, 2816-2820.	1.5	10
31	Transparent, Ultrahigh-Gas Barrier Films with a Brick-Mortar-Sand Structure. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 9673-9678.	13.8	54
32	Healable, Transparent, Room-Temperature Electronic Sensors Based on Carbon Nanotube Network-Coated Polyelectrolyte Multilayers. <i>Small</i> , 2015, 11, 5807-5813.	10.0	151
33	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
34	TiO ₂ @Layered Double Hydroxide Core-Shell Nanospheres with Largely Enhanced Photocatalytic Activity Toward O ₂ Generation. <i>Advanced Functional Materials</i> , 2015, 25, 2243-2249.	14.9	223
35	Theoretical and Experimental Study on M ^{II} M ^{III} -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
36	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

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37	Catalytic behavior of supported Ru nanoparticles on the (101) and (001) facets of anatase TiO ₂ . RSC Advances, 2014, 4, 10834.	3.6	49
38	Understanding the thermal motion of the luminescent dyes in the dye-surfactant cointercalated ZnAl-layered double hydroxides: a molecular dynamics study. RSC Advances, 2014, 4, 47472-47480.	3.6	15
39	Hydrogenation mechanism of carbon dioxide and carbon monoxide on Ru(0001) surface: a density functional theory study. RSC Advances, 2014, 4, 30241.	3.6	69
40	Valence Force Field for Layered Double Hydroxide Materials Based on the Parameterization of Octahedrally Coordinated Metal Cations. Journal of Physical Chemistry C, 2012, 116, 3421-3431.	3.1	38
41	CdTe Quantum Dots/Layered Double Hydroxide Ultrathin Films with Multicolor Light Emission via Layer-by-Layer Assembly. Advanced Functional Materials, 2012, 22, 4940-4948.	14.9	80
42	A Family of Visible-Light Responsive Photocatalysts Obtained by Dispersing CrO ₆ Octahedra into a Hydrotalcite Matrix. Chemistry - A European Journal, 2011, 17, 13175-13181.	3.3	91
43	Density functional theory study on the influence of cation ratio on the host layer structure of Zn/Al double hydroxides. Particuology, 2010, 8, 212-220.	3.6	15
44	Plane-Wave Density Functional Theory Study on the Structural and Energetic Properties of Cation-Disordered Mg-Al Layered Double Hydroxides. Journal of Physical Chemistry A, 2010, 114, 7369-7376.	2.5	42
45	Theoretical Study on the Structural Properties and Relative Stability of M(II)-Al Layered Double Hydroxides Based on a Cluster Model. Journal of Physical Chemistry A, 2009, 113, 6133-6141.	2.5	43
46	Theoretical study of the hexahydrated metal cations for the understanding of their template effects in the construction of layered double hydroxides. Computational and Theoretical Chemistry, 2008, 866, 34-45.	1.5	64
47	Theoretical Prediction of the Carrier Mobilities for MII2MIII-Cl-Layered Double Hydroxides in the Three-Dimensional Directions. Journal of Materials Chemistry C, 0, , .	5.5	0