

Xia Long

List of Publications by Year in descending order

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56
papers

5,608
citations

136950

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161849

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58
docs citations

58
times ranked

8402
citing authors

#	ARTICLE	IF	CITATIONS
1	Composition-Tuned Surface Binding on CuZn-Ni Catalysts Boosts CO ₂ RR Selectivity toward CO Generation. , 2022, 4, 497-504.		26
2	Robotic Hair with Rich Sensation and Piloerection Functionalities Biomimicked by Stimuli-Responsive Materials. Advanced Materials Technologies, 2022, 7, .	5.8	2
3	Formation of FeOOH Nanosheets Induces Substitutional Doping of CeO ₂ with High-Valence Ni for Efficient Water Oxidation. Advanced Energy Materials, 2021, 11, 2002731.	19.5	110
4	Recent advances in surface/interface engineering of noble-metal free catalysts for energy conversion reactions. Materials Chemistry Frontiers, 2021, 5, 3576-3592.	5.9	9
5	TM LDH Meets Birnessite: A 2D Hybrid Catalyst with Long-Term Stability for Water Oxidation at Industrial Operating Conditions. Angewandte Chemie - International Edition, 2021, 60, 9699-9705.	13.8	57
6	TM LDH Meets Birnessite: A 2D Hybrid Catalyst with Long-Term Stability for Water Oxidation at Industrial Operating Conditions. Angewandte Chemie, 2021, 133, 9785-9791.	2.0	3
7	Redirecting dynamic surface restructuring of a layered transition metal oxide catalyst for superior water oxidation. Nature Catalysis, 2021, 4, 212-222.	34.4	266
8	Conductive Polymer Intercalation Tunes Charge Transfer and Sorption/Desorption Properties of LDH Enabling Efficient Alkaline Water Oxidation. ACS Applied Materials & Interfaces, 2021, 13, 37063-37070.	8.0	19
9	Unexpected high selectivity for acetate formation from CO ₂ reduction with copper based 2D hybrid catalysts at ultralow potentials. Chemical Science, 2021, 12, 15382-15388.	7.4	19
10	Controlling Apparent Coordinated Solvent Number in the Perovskite Intermediate Phase Film for Developing Large-Area Perovskite Solar Modules. Energy Technology, 2020, 8, 1900972.	3.8	9
11	Recent advances in transition metal based compound catalysts for water splitting from the perspective of crystal engineering. CrystEngComm, 2020, 22, 1531-1540.	2.6	32
12	NiMn compound nanosheets for electrocatalytic water oxidation: effects of atomic structures and oxidation states. Nanoscale, 2020, 12, 2472-2478.	5.6	17
13	Identifying the Active Sites of a Single Atom Catalyst with pH-Universal Oxygen Reduction Reaction Activity. Cell Reports Physical Science, 2020, 1, 100115.	5.6	26
14	The Role of Ceria in a Hybrid Catalyst toward Alkaline Water Oxidation. ChemSusChem, 2020, 13, 5273-5279.	6.8	36
15	In situ growth of Fe ₂ WO ₆ on WO ₃ nanosheets to fabricate heterojunction arrays for boosting solar water splitting. Journal of Chemical Physics, 2020, 152, 214704.	3.0	19
16	In situ templating synthesis of mesoporous Ni-Fe electrocatalyst for oxygen evolution reaction. RSC Advances, 2020, 10, 23321-23330.	3.6	11
17	Dispersing transition metal vacancies in layered double hydroxides by ionic reductive complexation extraction for efficient water oxidation. Chemical Science, 2019, 10, 8354-8359.	7.4	54
18	Hydrogen Evolution Reaction: One-Step Controllable Synthesis of Catalytic Ni ₄ /Mo/MoO _x /Cu Nanointerfaces for Highly Efficient Water Reduction (Adv. Energy Mater. 41/2019). Advanced Energy Materials, 2019, 9, 1970162.	19.5	0

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19	One-Step Controllable Synthesis of Catalytic Ni ₄ /Mo/MoO _x /Cu Nanointerfaces for Highly Efficient Water Reduction. <i>Advanced Energy Materials</i> , 2019, 9, 1901454.	19.5	39
20	One-pot synthesis of manganese oxides and cobalt phosphides nanohybrids with abundant heterointerfaces in an amorphous matrix for efficient hydrogen evolution in alkaline solution. <i>Journal of Materials Chemistry A</i> , 2019, 7, 22530-22538.	10.3	32
21	Defect-Rich NiCeO _x Electrocatalyst with Ultrahigh Stability and Low Overpotential for Water Oxidation. <i>ACS Catalysis</i> , 2019, 9, 1605-1611.	11.2	113
22	Understanding the Diverse Coordination Modes of Thiocyanate Anion on Solid Surfaces. <i>Journal of Physical Chemistry C</i> , 2019, 123, 9282-9291.	3.1	10
23	Spacer layer design for efficient fully printable mesoscopic perovskite solar cells. <i>RSC Advances</i> , 2019, 9, 29840-29846.	3.6	14
24	Recent advances in transition metal-based catalysts with heterointerfaces for energy conversion and storage. <i>Materials Today Chemistry</i> , 2019, 11, 16-28.	3.5	72
25	Three-Dimensional Decoupling Co-Catalyst from a Photoabsorbing Semiconductor as a New Strategy To Boost Photoelectrochemical Water Splitting. <i>Nano Letters</i> , 2019, 19, 455-460.	9.1	52
26	Enhancing Full Water-Splitting Performance of Transition Metal Bifunctional Electrocatalysts in Alkaline Solutions by Tailoring CeO ₂ -Transition Metal Oxides-Ni Nanointerfaces. <i>ACS Energy Letters</i> , 2018, 3, 290-296.	17.4	152
27	Exploratory Study of Zn _x /PbO _y Photoelectrodes for Unassisted Overall Solar Water Splitting. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 10918-10926.	8.0	7
28	(Keynote) One-Pot Synthesis of Manganese Oxides and Cobalt Phosphides Nanohybrids with Abundant Hetero-Interfaces in Amorphous Matrix for Efficient Hydrogen Evolution in Alkaline Solution. <i>ECS Transactions</i> , 2018, 88, 381-397.	0.5	0
29	Effects of Metal Combinations on the Electrocatalytic Properties of Transition-Metal-Based Layered Double Hydroxides for Water Oxidation: A Perspective with Insights. <i>ACS Omega</i> , 2018, 3, 16529-16541.	3.5	42
30	Dielectric relaxation, impedance spectra, piezoelectric properties of (Ba, Ca)(Ti, Sn)O ₃ ceramics and their multilayer piezoelectric actuators. <i>Journal of Alloys and Compounds</i> , 2017, 706, 234-243.	5.5	32
31	Hydrogen evolution electrocatalysis with binary-nonmetal transition metal compounds. <i>Journal of Materials Chemistry A</i> , 2017, 5, 5995-6012.	10.3	142
32	Constructing three-dimensional porous Ni ₃ S ₂ nano-interfaces for hydrogen evolution electrocatalysis under alkaline conditions. <i>Dalton Transactions</i> , 2017, 46, 10700-10706.	3.3	41
33	Ni Nanoparticles Decorated NiFe Layered Double Hydroxide as Bifunctional Electrochemical Catalyst. <i>Journal of the Electrochemical Society</i> , 2017, 164, H307-H310.	2.9	62
34	Platinum nanoparticles supported on defective tungsten bronze-type K ₂ Nb ₅ O ₁₅ as a novel photocatalyst for efficient ethylene oxidation. <i>Journal of Materials Chemistry A</i> , 2017, 5, 18998-19006.	10.3	25
35	Room-Temperature Synthesis FeNiCo Layered Double Hydroxide as an Excellent Electrochemical Water Oxidation Catalyst. <i>Journal of the Electrochemical Society</i> , 2017, 164, H755-H759.	2.9	26
36	Co(II)-Co(0)/Mn(III) ₂ S Nanoparticles Supported on B/N-Codoped Mesoporous Nanocarbon as a Bifunctional Electrocatalyst of Oxygen Reduction/Evolution for High-Performance Zinc-Air Batteries. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 13348-13359.	8.0	77

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37	Porous FeNi oxide nanosheets as advanced electrochemical catalysts for sustained water oxidation. <i>Journal of Materials Chemistry A</i> , 2016, 4, 14939-14943.	10.3	63
38	Transition metal based layered double hydroxides tailored for energy conversion and storage. <i>Materials Today</i> , 2016, 19, 213-226.	14.2	464
39	Cobalt-Embedded Nitrogen Doped Carbon Nanotubes: A Bifunctional Catalyst for Oxygen Electrode Reactions in a Wide pH Range. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 4048-4055.	8.0	156
40	High-Performance Graphene-Based Hole Conductor-Free Perovskite Solar Cells: Schottky Junction Enhanced Hole Extraction and Electron Blocking. <i>Small</i> , 2015, 11, 2269-2274.	10.0	233
41	A multifunctional C + epoxy/Ag-paint cathode enables efficient and stable operation of perovskite solar cells in watery environments. <i>Journal of Materials Chemistry A</i> , 2015, 3, 16430-16434.	10.3	77
42	Origin of the Different Photoelectrochemical Performance of Mesoporous BiVO ₄ Photoanodes between the BiVO ₄ and the FTO Side Illumination. <i>Journal of Physical Chemistry C</i> , 2015, 119, 23350-23357.	3.1	70
43	Metallic Iron-Nickel Sulfide Ultrathin Nanosheets As a Highly Active Electrocatalyst for Hydrogen Evolution Reaction in Acidic Media. <i>Journal of the American Chemical Society</i> , 2015, 137, 11900-11903.	13.7	609
44	Co intake mediated formation of ultrathin nanosheets of transition metal LDH-an advanced electrocatalyst for oxygen evolution reaction. <i>Chemical Communications</i> , 2015, 51, 1120-1123.	4.1	195
45	Close-Packed Colloidal SiO ₂ as a Nanoreactor: Generalized Synthesis of Metal Oxide Mesoporous Single Crystals and Mesocrystals. <i>Chemistry of Materials</i> , 2014, 26, 5700-5709.	6.7	40
46	Calcite Microneedle Arrays Produced by Inorganic Ion-Assisted Anisotropic Dissolution of Bulk Calcite Crystal. <i>Chemistry - A European Journal</i> , 2014, 20, 4264-4272.	3.3	8
47	Cost-efficient clamping solar cells using candle soot for hole extraction from ambipolar perovskites. <i>Energy and Environmental Science</i> , 2014, 7, 3326-3333.	30.8	272
48	High-Performance Hole-Extraction Layer of Sol-Gel-Processed NiO Nanocrystals for Inverted Planar Perovskite Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 12571-12575.	13.8	355
49	A Strongly Coupled Graphene and FeNi Double Hydroxide Hybrid as an Excellent Electrocatalyst for the Oxygen Evolution Reaction. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 7584-7588.	13.8	694
50	Biogenic and synthetic high magnesium calcite - A review. <i>Journal of Structural Biology</i> , 2014, 185, 1-14.	2.8	90
51	Layered double hydroxide-hemin nanocomposite as mimetic peroxidase and its application in sensing. <i>Sensors and Actuators B: Chemical</i> , 2014, 192, 150-156.	7.8	38
52	Calcite microrod arrays fabricated via anisotropic dissolution of calcite in the presence of NH ₄ I and (NH ₄) ₂ SO ₄ . <i>CrystEngComm</i> , 2013, 15, 8867.	2.6	11
53	Oriented Calcite Micropillars and Prisms Formed through Aggregation and Recrystallization of Poly(Acrylic Acid) Stabilized Nanoparticles. <i>Crystal Growth and Design</i> , 2013, 13, 3856-3863.	3.0	16
54	From synthetic to biogenic Mg-containing calcites: a comparative study using FTIR microspectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 2255.	2.8	31

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55	In Vitro Synthesis of High Mg Calcite under Ambient Conditions and Its Implication for Biomineralization Process. <i>Crystal Growth and Design</i> , 2011, 11, 2866-2873.	3.0	57
56	Superlattice-Like Co-Doped Mn Oxide and NiFe Hydroxide Nanosheets toward an Energetic Oxygen Evolution Reaction. <i>ACS Sustainable Chemistry and Engineering</i> , 0, , .	6.7	9