Xia Long

List of Publications by Year
in descending order

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56	5,608	136950	161849
papers	citations	32	54
		h-index	g-index

58	58	58	8402
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A Strongly Coupled Graphene and FeNi Double Hydroxide Hybrid as an Excellent Electrocatalyst for the Oxygen Evolution Reaction. Angewandte Chemie - International Edition, 2014, 53, 7584-7588.	13.8	694
2	Metallic Ironâ€“Nickel Sulfide Ultrathin Nanosheets As a Highly Active Electrocatalyst for Hydrogen Evolution Reaction in Acidic Media. Journal of the American Chemical Society, 2015, 137, 11900-11903.	13.7	609
3	Transition metal based layered double hydroxides tailored for energy conversion and storage. Materials Today, 2016, 19, 213-226.	14.2	464
4	Highâ€Performance Holeâ€Extraction Layer of Solâ€“Gelâ€Processed NiO Nanocrystals for Inverted Planar Perovskite Solar Cells. Angewandte Chemie - International Edition, 2014, 53, 12571-12575.	13.8	355
5	Cost-efficient clamping solar cells using candle soot for hole extraction from ambipolar perovskites. Energy and Environmental Science, 2014, 7, 3326-3333.	30.8	272
6	Redirecting dynamic surface restructuring of a layered transition metal oxide catalyst for superior water oxidation. Nature Catalysis, 2021, 4, 212-222.	34.4	266
7	Highâ€Performance Grapheneâ€Based Hole Conductorâ€Free Perovskite Solar Cells: Schottky Junction Enhanced Hole Extraction and Electron Blocking. Small, 2015, 11, 2269-2274.	10.0	233
8	Co intake mediated formation of ultrathin nanosheets of transition metal LDHâ€”an advanced electrocatalyst for oxygen evolution reaction. Chemical Communications, 2015, 51, 1120-1123.	4.1	195
9	Cobalt-Embedded Nitrogen Doped Carbon Nanotubes: A Bifunctional Catalyst for Oxygen Electrode Reactions in a Wide pH Range. ACS Applied Materials & Interfaces, 2015, 7, 4048-4055.	8.0	156
10	Enhancing Full Water-Splitting Performance of Transition Metal Bifunctional Electrocatalysts in Alkaline Solutions by Tailoring CeO₂â€“Transition Metal Oxidesâ€“Ni Nanointerfaces. ACS Energy Letters, 2018, 3, 290-296.	17.4	152
11	Hydrogen evolution electrocatalysis with binary-nonmetal transition metal compounds. Journal of Materials Chemistry A, 2017, 5, 5995-6012.	10.3	142
12	Defect-Rich NiCeO_x Electrocatalyst with Ultrahigh Stability and Low Overpotential for Water Oxidation. ACS Catalysis, 2019, 9, 1605-1611.	11.2	113
13	Formation of FeOOH Nanosheets Induces Substitutional Doping of CeO_{2â^’}_x with Highâ€Valence Ni for Efficient Water Oxidation. Advanced Energy Materials, 2021, 11, 2002731.	19.5	110
14	Biogenic and synthetic high magnesium calcite â€“ A review. Journal of Structural Biology, 2014, 185, 1-14.	2.8	90
15	A multifunctional C + epoxy/Ag-paint cathode enables efficient and stable operation of perovskite solar cells in watery environments. Journal of Materials Chemistry A, 2015, 3, 16430-16434.	10.3	77
16	Co(II)_{1â€“x}Co(0)_{x/3}Mn(III)_{2x/3}S Nanoparticles Supported on B/N-Codoped Mesoporous Nanocarbon as a Bifunctional Electrocatalyst of Oxygen Reduction/Evolution for High-Performance Zinc-Air Batteries. ACS Applied Materials & Interfaces, 2016, 8, 13348-13359.	8.0	77
17	Recent advances in transition metalâ€“based catalysts with heterointerfaces for energy conversion and storage. Materials Today Chemistry, 2019, 11, 16-28.	3.5	72
18	Origin of the Different Photoelectrochemical Performance of Mesoporous BiVO₄ Photoanodes between the BiVO₄ and the FTO Side Illumination. Journal of Physical Chemistry C, 2015, 119, 23350-23357.	3.1	70

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19	Porous FeNi oxide nanosheets as advanced electrochemical catalysts for sustained water oxidation. Journal of Materials Chemistry A, 2016, 4, 14939-14943.	10.3	63
20	Ni Nanoparticles Decorated NiFe Layered Double Hydroxide as Bifunctional Electrochemical Catalyst. Journal of the Electrochemical Society, 2017, 164, H307-H310.	2.9	62
21	In Vitro Synthesis of High Mg Calcite under Ambient Conditions and Its Implication for Biomineralization Process. Crystal Growth and Design, 2011, 11, 2866-2873.	3.0	57
22	TM LDH Meets Birnessite: A 2Dâ€2D Hybrid Catalyst with Longâ€Term Stability for Water Oxidation at Industrial Operating Conditions. Angewandte Chemie - International Edition, 2021, 60, 9699-9705.	13.8	57
23	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
24	Three-Dimensional Decoupling Co-Catalyst from a Photoabsorbing Semiconductor as a New Strategy To Boost Photoelectrochemical Water Splitting. Nano Letters, 2019, 19, 455-460.	9.1	52
25	Effects of Metal Combinations on the Electrocatalytic Properties of Transition-Metal-Based Layered Double Hydroxides for Water Oxidation: A Perspective with Insights. ACS Omega, 2018, 3, 16529-16541.	3.5	42
26	Constructing three-dimensional porous Ni/Ni₃S₂ nano-interfaces for hydrogen evolution electrocatalysis under alkaline conditions. Dalton Transactions, 2017, 46, 10700-10706.	3.3	41
27	Close-Packed Colloidal SiO2as a Nanoreactor: Generalized Synthesis of Metal Oxide Mesoporous Single Crystals and Mesocrystals. Chemistry of Materials, 2014, 26, 5700-5709.	6.7	40
28	Oneâ€Step Controllable Synthesis of Catalytic Ni₄Mo/MoO_x/Cu Nanointerfaces for Highly Efficient Water Reduction. Advanced Energy Materials, 2019, 9, 1901454.	19.5	39
29	Layered double hydroxide-hemin nanocomposite as mimetic peroxidase and its application in sensing. Sensors and Actuators B: Chemical, 2014, 192, 150-156.	7.8	38
30	The Role of Ceria in a Hybrid Catalyst toward Alkaline Water Oxidation. ChemSusChem, 2020, 13, 5273-5279.	6.8	36
31	Dielectric relaxation, impedance spectra, piezoelectric properties of (Ba, Ca)(Ti, Sn)O 3 ceramics and their multilayer piezoelectric actuators. Journal of Alloys and Compounds, 2017, 706, 234-243.	5.5	32
32	One-pot synthesis of manganese oxides and cobalt phosphides nanohybrids with abundant heterointerfaces in an amorphous matrix for efficient hydrogen evolution in alkaline solution. Journal of Materials Chemistry A, 2019, 7, 22530-22538.	10.3	32
33	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
34	From synthetic to biogenic Mg-containing calcites: a comparative study using FTIR microspectroscopy. Physical Chemistry Chemical Physics, 2012, 14, 2255.	2.8	31
35	Room-Temperature Synthesis FeNiCo Layered Double Hydroxide as an Excellent Electrochemical Water Oxidation Catalyst. Journal of the Electrochemical Society, 2017, 164, H755-H759.	2.9	26
36	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

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37	Composition-Tuned Surface Binding on CuZn-Ni Catalysts Boosts CO₂RR Selectivity toward CO Generation. , 2022, 4, 497-504.		26
38	Platinum nanoparticles supported on defective tungsten bronze-type KSr₂Nb₅O₁₅ as a novel photocatalyst for efficient ethylene oxidation. Journal of Materials Chemistry A, 2017, 5, 18998-19006.	10.3	25
39	In situ growth of Fe2WO6 on WO3 nanosheets to fabricate heterojunction arrays for boosting solar water splitting. Journal of Chemical Physics, 2020, 152, 214704.	3.0	19
40	Conductive Polymer Intercalation Tunes Charge Transfer and Sorptionâ€“Desorption Properties of LDH Enabling Efficient Alkaline Water Oxidation. ACS Applied Materials & Interfaces, 2021, 13, 37063-37070.	8.0	19
41	Unexpected high selectivity for acetate formation from CO₂ reduction with copper based 2D hybrid catalysts at ultralow potentials. Chemical Science, 2021, 12, 15382-15388.	7.4	19
42	NiMn compound nanosheets for electrocatalytic water oxidation: effects of atomic structures and oxidation states. Nanoscale, 2020, 12, 2472-2478.	5.6	17
43	Oriented Calcite Micropillars and Prisms Formed through Aggregation and Recrystallization of Poly(Acrylic Acid) Stabilized Nanoparticles. Crystal Growth and Design, 2013, 13, 3856-3863.	3.0	16
44	Spacer layer design for efficient fully printable mesoscopic perovskite solar cells. RSC Advances, 2019, 9, 29840-29846.	3.6	14
45	Calcite microrod arrays fabricated via anisotropic dissolution of calcite in the presence of NH4I and (NH4)2SO4. CrystEngComm, 2013, 15, 8867.	2.6	11
46	In situ templating synthesis of mesoporous Niâ€“Fe electrocatalyst for oxygen evolution reaction. RSC Advances, 2020, 10, 23321-23330.	3.6	11
47	Understanding the Diverse Coordination Modes of Thiocyanate Anion on Solid Surfaces. Journal of Physical Chemistry C, 2019, 123, 9282-9291.	3.1	10
48	Controlling Apparent Coordinated Solvent Number in the Perovskite Intermediate Phase Film for Developing Largeâ€Area Perovskite Solar Modules. Energy Technology, 2020, 8, 1900972.	3.8	9
49	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
50	Superlattice-Like Co-Doped Mn Oxide and NiFe Hydroxide Nanosheets toward an Energetic Oxygen Evolution Reaction. ACS Sustainable Chemistry and Engineering, 0, , .	6.7	9
51	Calcite Microneedle Arrays Produced by Inorganic Ionâ€Assisted Anisotropic Dissolution of Bulk Calcite Crystal. Chemistry - A European Journal, 2014, 20, 4264-4272.	3.3	8
52	Exploratory Study of Zn_xPbO_y Photoelectrodes for Unassisted Overall Solar Water Splitting. ACS Applied Materials & Interfaces, 2018, 10, 10918-10926.	8.0	7
53	TM LDH Meets Birnessite: A 2Dâ€2D Hybrid Catalyst with Longâ€Term Stability for Water Oxidation at Industrial Operating Conditions. Angewandte Chemie, 2021, 133, 9785-9791.	2.0	3
54	Robotic Hair with Rich Sensation and Piloerection Functionalities Biomimicked by Stimuliâ€Responsive Materials. Advanced Materials Technologies, 2022, 7, .	5.8	2

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55	(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. ECS Transactions, 2018, 88, 381-397.	0.5	0
56	Hydrogen Evolution Reaction: Oneâ€Step Controllable Synthesis of Catalytic Ni₄Mo/MoO_x/Cu Nanointerfaces for Highly Efficient Water Reduction (Adv. Energy Mater. 41/2019). Advanced Energy Materials, 2019, 9, 1970162.	19.5	0