Xiaobo Chen

List of Publications by Year
in descending order

19	777	567281 15	839539 18
papers	citations	h-index	g-index

19	19	19	1465
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Highly Confined and Tunable Hyperbolic Phonon Polaritons in Van Der Waals Semiconducting Transition Metal Oxides. Advanced Materials, 2018, 30, e1705318.	21.0	178
2	Electron Density Modulation of Metallic MoO₂ by Ni Doping to Produce Excellent Hydrogen Evolution and Oxidation Activities in Acid. ACS Energy Letters, 2020, 5, 1908-1915.	17.4	110
3	Combining Bulk/Surface Engineering of Hematite To Synergistically Improve Its Photoelectrochemical Water Splitting Performance. ACS Applied Materials & Interfaces, 2016, 8, 16071-16077.	8.0	69
4	Tuning the hydrogen evolution activity of MS₂ (M = Mo or Nb) monolayers by strain engineering. Physical Chemistry Chemical Physics, 2016, 18, 9388-9395.	2.8	60
5	Critical Role of Dopant Location for P-Doped Si Nanocrystals. Journal of Physical Chemistry C, 2011, 115, 661-666.	3.1	50
6	Critical electronic structures controlling phase transitions induced by lithium ion intercalation in molybdenum disulphide. Science Bulletin, 2013, 58, 1632-1641.	1.7	44
7	Unveiling the electrochromic mechanism of Prussian Blue by electronic transition analysis. Nano Energy, 2020, 78, 105148.	16.0	39
8	Emergent superconductivity in two-dimensional <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>NiTe</mml:mi><mml:mn>2</mml:mn></mml:msub></mml crystals. Physical Review B, 2020, 101, .	3.2	37
9	Reaction Mechanism with Thermodynamic Structural Screening for Electrochemical Hydrogen Evolution on Monolayer 1Tâ€² Phase MoS₂. Chemistry of Materials, 2018, 30, 5404-5411.	6.7	33
10	Engineering Surface Structure and Defect Chemistry of Nanoscale Cubic Co₃O₄ Crystallites for Enhanced Lithium and Sodium Storage. ACS Applied Nano Materials, 2020, 3, 3892-3903.	5.0	32
11	Origin of hydrogen evolution activity on MS₂ (M = Mo or Nb) monolayers. Journal of Materials Chemistry A, 2015, 3, 18898-18905.	10.3	30
12	Electrochemical cycling reversibility of LiMoS₂ using first-principles calculations. Applied Physics Letters, 2012, 100, 263901.	3.3	23
13	Uncovering the Surface and Phase Effect of Molybdenum Carbides on Hydrogen Evolution: A First-Principles Study. Journal of Physical Chemistry C, 2019, 123, 21878-21887.	3.1	23
14	Electrochemical Hydrogen Evolution at the Interface of Monolayer VS₂ and Water from First-Principles Calculations. ACS Applied Materials & Interfaces, 2019, 11, 2944-2949.	8.0	20
15	Computational Screening of Electrocatalytic Materials for Hydrogen Evolution: Platinum Monolayer on Transitional Metals. Journal of Physical Chemistry C, 2019, 123, 495-503.	3.1	15
16	Density functional studies of zirconia with different crystal phases for oxygen reduction reaction. RSC Advances, 2015, 5, 85122-85127.	3.6	11
17	Phonon Polaritons: Highly Confined and Tunable Hyperbolic Phonon Polaritons in Van Der Waals Semiconducting Transition Metal Oxides (Adv. Mater. 13/2018). Advanced Materials, 2018, 30, 1870091.	21.0	1
18	Ni(OH)₂ based dual-mode memristor. Semiconductor Science and Technology, 2020, 35, 055030.	2.0	1

#	Article	IF	Citations
19	Effective active sites of triangular Mo-S Nano-catalysts from first-principle calculations. Surfaces and Interfaces, 2021, 26, 101373.	3.0	1