

Jonathan Hwang

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9575925/publications.pdf>

Version: 2024-02-01

17
papers

2,654
citations

567281

15
h-index

888059

17
g-index

17
all docs

17
docs citations

17
times ranked

3937
citing authors

#	ARTICLE	IF	CITATIONS
1	Perovskites in catalysis and electrocatalysis. <i>Science</i> , 2017, 358, 751-756.	12.6	1,138
2	Charge-transfer-energy-dependent oxygen evolution reaction mechanisms for perovskite oxides. <i>Energy and Environmental Science</i> , 2017, 10, 2190-2200.	30.8	401
3	An <i>in Situ</i> Surface-Enhanced Infrared Absorption Spectroscopy Study of Electrochemical CO ₂ Reduction: Selectivity Dependence on Surface C-Bound and O-Bound Reaction Intermediates. <i>Journal of Physical Chemistry C</i> , 2019, 123, 5951-5963.	3.1	172
4	Tuning perovskite oxides by strain: Electronic structure, properties, and functions in (electro)catalysis and ferroelectricity. <i>Materials Today</i> , 2019, 31, 100-118.	14.2	169
5	Operando identification of site-dependent water oxidation activity on ruthenium dioxide single-crystal surfaces. <i>Nature Catalysis</i> , 2020, 3, 516-525.	34.4	166
6	Trends in Activity and Dissolution on RuO ₂ under Oxygen Evolution Conditions: Particles versus Well-Defined Extended Surfaces. <i>ACS Energy Letters</i> , 2018, 3, 2045-2051.	17.4	144
7	Iron-Based Perovskites for Catalyzing Oxygen Evolution Reaction. <i>Journal of Physical Chemistry C</i> , 2018, 122, 8445-8454.	3.1	106
8	Assessing Correlations of Perovskite Catalytic Performance with Electronic Structure Descriptors. <i>Chemistry of Materials</i> , 2019, 31, 785-797.	6.7	106
9	Regulating oxygen activity of perovskites to promote NO _x oxidation and reduction kinetics. <i>Nature Catalysis</i> , 2021, 4, 663-673.	34.4	54
10	pH- and Cation-Dependent Water Oxidation on Rutile RuO ₂ (110). <i>Journal of Physical Chemistry C</i> , 2021, 125, 8195-8207.	3.1	45
11	Surface Orientation Dependent Water Dissociation on Rutile Ruthenium Dioxide. <i>Journal of Physical Chemistry C</i> , 2018, 122, 17802-17811.	3.1	44
12	A Perovskite Electronic Structure Descriptor for Electrochemical CO ₂ Reduction and the Competing H ₂ Evolution Reaction. <i>Journal of Physical Chemistry C</i> , 2019, 123, 24469-24476.	3.1	26
13	Speciation and Electronic Structure of La _{1-x} Sr _x CoO ₃ During Oxygen Electrolysis. <i>Topics in Catalysis</i> , 2018, 61, 2161-2174.	2.8	25
14	Surface (Electro)chemistry of CO ₂ on Pt Surface: An <i>in Situ</i> Surface-Enhanced Infrared Absorption Spectroscopy Study. <i>Journal of Physical Chemistry C</i> , 2018, 122, 12341-12349.	3.1	19
15	CO ₂ Reactivity on Cobalt-Based Perovskites. <i>Journal of Physical Chemistry C</i> , 2018, 122, 20391-20401.	3.1	18
16	Activity“or Lack Thereof”of RuO ₂ -Based Electrodes in the Electrocatalytic Reduction of CO ₂ . <i>Journal of Physical Chemistry C</i> , 2019, 123, 17765-17773.	3.1	13
17	Direct Observation of Surface-Bound Intermediates During Methanol Oxidation on Platinum Under Alkaline Conditions. <i>Journal of Physical Chemistry C</i> , 2021, 125, 26321-26331.	3.1	8