

# Jonathan Hwang

## List of Publications by Year in descending order

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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	pH- and Cation-Dependent Water Oxidation on Rutile RuO <sub>2</sub> (110). Journal of Physical Chemistry C, 2021, 125, 8195-8207.	3.1	45
2	Regulating oxygen activity of perovskites to promote NOx oxidation and reduction kinetics. Nature Catalysis, 2021, 4, 663-673.	34.4	54
3	Direct Observation of Surface-Bound Intermediates During Methanol Oxidation on Platinum Under Alkaline Conditions. Journal of Physical Chemistry C, 2021, 125, 26321-26331.	3.1	8
4	Operando identification of site-dependent water oxidation activity on ruthenium dioxide single-crystal surfaces. Nature Catalysis, 2020, 3, 516-525.	34.4	166
5	A Perovskite Electronic Structure Descriptor for Electrochemical CO <sub>2</sub> Reduction and the Competing H <sub>2</sub> Evolution Reaction. Journal of Physical Chemistry C, 2019, 123, 24469-24476.	3.1	26
6	Activity or Lack Thereof of RuO <sub>2</sub> -Based Electrodes in the Electrocatalytic Reduction of CO <sub>2</sub> . Journal of Physical Chemistry C, 2019, 123, 17765-17773.	3.1	13
7	Tuning perovskite oxides by strain: Electronic structure, properties, and functions in (electro)catalysis and ferroelectricity. Materials Today, 2019, 31, 100-118.	14.2	169
8	An <i>In Situ</i> Surface-Enhanced Infrared Absorption Spectroscopy Study of Electrochemical CO <sub>2</sub> Reduction: Selectivity Dependence on Surface C-Bound and O-Bound Reaction Intermediates. Journal of Physical Chemistry C, 2019, 123, 5951-5963.	3.1	172
9	Assessing Correlations of Perovskite Catalytic Performance with Electronic Structure Descriptors. Chemistry of Materials, 2019, 31, 785-797.	6.7	106
10	Iron-Based Perovskites for Catalyzing Oxygen Evolution Reaction. Journal of Physical Chemistry C, 2018, 122, 8445-8454.	3.1	106
11	Speciation and Electronic Structure of La <sub>1-x</sub> Sr <sub>x</sub> CoO <sub>3</sub> During Oxygen Electrolysis. Topics in Catalysis, 2018, 61, 2161-2174.	2.8	25
12	Surface (Electro)chemistry of CO <sub>2</sub> on Pt Surface: An <i>In Situ</i> Surface-Enhanced Infrared Absorption Spectroscopy Study. Journal of Physical Chemistry C, 2018, 122, 12341-12349.	3.1	19
13	Trends in Activity and Dissolution on RuO <sub>2</sub> under Oxygen Evolution Conditions: Particles versus Well-Defined Extended Surfaces. ACS Energy Letters, 2018, 3, 2045-2051.	17.4	144
14	Surface Orientation Dependent Water Dissociation on Rutile Ruthenium Dioxide. Journal of Physical Chemistry C, 2018, 122, 17802-17811.	3.1	44
15	CO <sub>2</sub> Reactivity on Cobalt-Based Perovskites. Journal of Physical Chemistry C, 2018, 122, 20391-20401.	3.1	18
16	Perovskites in catalysis and electrocatalysis. Science, 2017, 358, 751-756.	12.6	1,138
17	Charge-transfer-energy-dependent oxygen evolution reaction mechanisms for perovskite oxides. Energy and Environmental Science, 2017, 10, 2190-2200.	30.8	401