

# Miguel A PÃ©rez-Osorio

## List of Publications by Year in descending order

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14  
papers

3,258  
citations

759233

12  
h-index

1058476

14  
g-index

14  
all docs

14  
docs citations

14  
times ranked

5589  
citing authors

#	ARTICLE	IF	CITATIONS
1	Electron-phonon coupling in hybrid lead halide perovskites. <i>Nature Communications</i> , 2016, 7, .	12.8	919
2	TiO <sub>2</sub> Anatase with a Bandgap in the Visible Region. <i>Nano Letters</i> , 2014, 14, 6533-6538.	9.1	531
3	Superstructure control of first-cycle voltage hysteresis in oxygen-redox cathodes. <i>Nature</i> , 2020, 577, 502-508.	27.8	456
4	Oxygen redox chemistry without excess alkali-metal ions in Na <sub>2/3</sub> [Mg <sub>0.28</sub> Mn <sub>0.72</sub> ]O <sub>2</sub> . <i>Nature Chemistry</i> , 2018, 10, 288-295.	13.6	414
5	First-cycle voltage hysteresis in Li-rich 3d cathodes associated with molecular O <sub>2</sub> trapped in the bulk. <i>Nature Energy</i> , 2020, 5, 777-785.	39.5	282
6	Vibrational Properties of the Organic-Inorganic Halide Perovskite CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> from Theory and Experiment: Factor Group Analysis, First-Principles Calculations, and Low-Temperature Infrared Spectra. <i>Journal of Physical Chemistry C</i> , 2015, 119, 25703-25718.	3.1	276
7	The role of O <sub>2</sub> in O-redox cathodes for Li-ion batteries. <i>Nature Energy</i> , 2021, 6, 781-789.	39.5	162
8	Raman Spectrum of the Organic-Inorganic Halide Perovskite CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> from First Principles and High-Resolution Low-Temperature Raman Measurements. <i>Journal of Physical Chemistry C</i> , 2018, 122, 21703-21717.	3.1	87
9	Bulk O <sub>2</sub> formation and Mg displacement explain O-redox in Na <sub>0.67</sub> Mn <sub>0.72</sub> Mg <sub>0.28</sub> O <sub>2</sub> . <i>Joule</i> , 2021, 5, 1267-1280.	24.0	47
10	Single-Molecule Vibrational Spectroscopy of H <sub>2</sub> O on Anatase TiO <sub>2</sub> (101). <i>Journal of Physical Chemistry C</i> , 2017, 121, 1182-1187.	3.1	27
11	Van der Waals Interactions and Anharmonicity in the Lattice Vibrations, Dielectric Constants, Effective Charges, and Infrared Spectra of the Organic-Inorganic Halide Perovskite CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> . <i>Journal of Physical Chemistry C</i> , 2017, 121, 18459-18471.	3.1	24
12	Atomic Structure of Water Monolayer on Anatase TiO <sub>2</sub> (101) Surface. <i>Journal of Physical Chemistry C</i> , 2018, 122, 11954-11960.	3.1	18
13	Direct imaging of oxygen shifts associated with the oxygen redox of Li-rich layered oxides. <i>Joule</i> , 2022, 6, 1049-1065.	24.0	13
14	Trellises of Molecular Oxygen on Anatase TiO <sub>2</sub> (101). <i>Journal of Physical Chemistry C</i> , 2019, 123, 26170-26177.	3.1	2