Claudia E Avalos

List of Publications by Year
in descending order

23 papers	1,191 citations	516710 16 h-index	642732 23 g-index
23 all docs	23 docs citations	23 times ranked	1831 citing authors

#	Article	IF	Citations
1	Vapor-assisted deposition of highly efficient, stable black-phase FAPbI ₃ perovskite solar cells. Science, 2020, 370, .	12.6	530
2	Room-temperature in situ nuclear spin hyperpolarization from optically pumped nitrogen vacancy centres in diamond. Nature Communications, 2015, 6, 8965.	12.8	93
3	Intermediate Phase Enhances Inorganic Perovskite and Metal Oxide Interface for Efficient Photovoltaics. Joule, 2020, 4, 222-234.	24.0	88
4	Gas-sieving zeolitic membranes fabricated by condensation of precursor nanosheets. Nature Materials, 2021, 20, 362-369.	27.5	86
5	Sensitive magnetic control of ensemble nuclear spin hyperpolarization in diamond. Nature Communications, 2013, 4, 1940.	12.8	51
6	Multispin-assisted optical pumping of bulk <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi mathvariant="normal">C</mml:mi><mml:mprescripts /><mml:none /><mml:mn>13</mml:mn></mml:mmultiscripts></mml:math> nuclear spin polarization in diamond. Physical Review B, 2018, 97, .	3.2	42
7	Room-temperature operation of a radiofrequency diamond magnetometer near the shot-noise limit. Journal of Applied Physics, 2012, 112, .	2.5	39
8	Fast and Sensitive Detection of Paramagnetic Species Using Coupled Charge and Spin Dynamics in Strongly Fluorescent Nanodiamonds. ACS Applied Materials & Interfaces, 2019, 11, 24412-24422.	8.0	29
9	Methylammonium Triiodide for Defect Engineering of High-Efficiency Perovskite Solar Cells. ACS Energy Letters, 2021, 6, 3650-3660.	17.4	28
10	Optically detected nuclear quadrupolar interaction of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi mathvariant="normal">N</mml:mi><mml:mprescripts /><mml:none /><mml:mn>14</mml:mn></mml:mmultiscripts></mml:math>in nitrogen-vacancy centers in diamond. Physical Review B, 2014, 89, .	3.2	25
11	Optically detected cross-relaxation spectroscopy of electron spins in diamond. Nature Communications, 2014, 5, 4135.	12.8	24
12	Enhanced Room-Temperature Ionic Conductivity of NaCB₁₁H₁₂ via High-Energy Mechanical Milling. ACS Applied Materials & Interfaces, 2021, 13, 61346-61356.	8.0	21
13	Suppression of electron spin decoherence of the diamond NV center by a transverse magnetic field. Physical Review B, 2013, 88, .	3.2	20
14	Revisiting the Sponge Sources, Stereostructure, and Biological Activity of Cyclocinamide A. Journal of Natural Products, 2008, 71, 1475-1478.	3.0	19
15	Enhanced Intersystem Crossing and Transient Electron Spin Polarization in a Photoexcited Pentaceneâ€“Trityl Radical. Journal of Physical Chemistry A, 2020, 124, 6068-6075.	2.5	19
16	Hybridization of Synthetic Humins with a Metalâ€“Organic Framework for Precious Metal Recovery and Reuse. ACS Applied Materials & Interfaces, 2021, 13, 60027-60034.	8.0	19
17	¹⁹F Magic Angle Spinning Dynamic Nuclear Polarization Enhanced NMR Spectroscopy. Angewandte Chemie - International Edition, 2019, 58, 7249-7253.	13.8	18
18	Optically pumped dynamic nuclear hyperpolarization in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi mathvariant="normal">C</mml:mi><mml:mprescripts /><mml:none /><mml:mn>13</mml:mn></mml:mmultiscripts></mml:math> -enriched diamond. Physical Review B, 2019, 100, .	3.2	14

#	Article	IF	Citations
19	Chemical exchange at the ferroelectric phase transition of lead germanate revealed by solid state ²⁰⁷Pb nuclear magnetic resonance. Physical Chemistry Chemical Physics, 2019, 21, 1100-1109.	2.8	11
20	Leadâ€“Oxygen Bond Length Distributions of the Relaxor Ferroelectric 0.67PbMg1/3Nb2/3O3â€“0.33PbTiO3 from 207Pb Nuclear Magnetic Resonance. Journal of Physical Chemistry C, 2019, 123, 15744-15750.	3.1	5
21	Thiocyanate-Mediated Dimensionality Transformation of Low-Dimensional Perovskites for Photovoltaics. Chemistry of Materials, 2022, 34, 6331-6338.	6.7	5
22	Atom-by-Atom Synthesis of Multiatom-Supported Catalytic Clusters by Liquid-Phase Atomic Layer Deposition. ACS Sustainable Chemistry and Engineering, 2022, 10, 3455-3465.	6.7	3
23	19 F Magic Angle Spinning Dynamic Nuclear Polarization Enhanced NMR Spectroscopy. Angewandte Chemie, 2019, 131, 7327-7331.	2.0	2