

# Claudia E Avalos

## List of Publications by Year in descending order

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Version: 2024-02-01

23  
papers

1,191  
citations

586496

16  
h-index

721071

23  
g-index

23  
all docs

23  
docs citations

23  
times ranked

2098  
citing authors

#	ARTICLE	IF	CITATIONS
1	Atom-by-Atom Synthesis of Multiatom-Supported Catalytic Clusters by Liquid-Phase Atomic Layer Deposition. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 3455-3465.	3.2	3
2	Thiocyanate-Mediated Dimensionality Transformation of Low-Dimensional Perovskites for Photovoltaics. <i>Chemistry of Materials</i> , 2022, 34, 6331-6338.	3.2	5
3	Gas-sieving zeolitic membranes fabricated by condensation of precursor nanosheets. <i>Nature Materials</i> , 2021, 20, 362-369.	13.3	86
4	Methylammonium Triiodide for Defect Engineering of High-Efficiency Perovskite Solar Cells. <i>ACS Energy Letters</i> , 2021, 6, 3650-3660.	8.8	28
5	Enhanced Room-Temperature Ionic Conductivity of NaCB <sub>11</sub> H <sub>12</sub> via High-Energy Mechanical Milling. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 61346-61356.	4.0	21
6	Hybridization of Synthetic Humins with a Metal-Organic Framework for Precious Metal Recovery and Reuse. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 60027-60034.	4.0	19
7	Intermediate Phase Enhances Inorganic Perovskite and Metal Oxide Interface for Efficient Photovoltaics. <i>Joule</i> , 2020, 4, 222-234.	11.7	88
8	Enhanced Intersystem Crossing and Transient Electron Spin Polarization in a Photoexcited Pentacene-Triptyl Radical. <i>Journal of Physical Chemistry A</i> , 2020, 124, 6068-6075.	1.1	19
9	Vapor-assisted deposition of highly efficient, stable black-phase FAPbI <sub>3</sub> perovskite solar cells. <i>Science</i> , 2020, 370, .	6.0	530
10	Optically pumped dynamic nuclear hyperpolarization in $C^{13}$ -enriched diamond. <i>Physical Review B</i> , 2019, 100, .	1.1	14
11	Chemical exchange at the ferroelectric phase transition of lead germanate revealed by solid state $^{207}\text{Pb}$ nuclear magnetic resonance. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 1100-1109.	1.3	11
12	$^{19}\text{F}$ Magic Angle Spinning Dynamic Nuclear Polarization Enhanced NMR Spectroscopy. <i>Angewandte Chemie</i> , 2019, 131, 7327-7331.	1.6	2
13	Lead-Oxygen Bond Length Distributions of the Relaxor Ferroelectric $0.67\text{PbMg}_{1/3}\text{Nb}_{2/3}\text{O}_3$ from $^{207}\text{Pb}$ Nuclear Magnetic Resonance. <i>Journal of Physical Chemistry C</i> , 2019, 123, 15744-15750.	1.5	5
14	Fast and Sensitive Detection of Paramagnetic Species Using Coupled Charge and Spin Dynamics in Strongly Fluorescent Nanodiamonds. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 24412-24422.	4.0	29
15	$^{19}\text{F}$ Magic Angle Spinning Dynamic Nuclear Polarization Enhanced NMR Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 7249-7253.	7.2	18
16	Multispin-assisted optical pumping of bulk $C^{13}$ nuclear spin polarization in diamond. <i>Physical Review B</i> , 2018, 97, .	1.1	42
17	Room-temperature in situ nuclear spin hyperpolarization from optically pumped nitrogen vacancy centres in diamond. <i>Nature Communications</i> , 2015, 6, 8965.	5.8	93
18	Optically detected nuclear quadrupolar interaction of $N^{14}$ in nitrogen-vacancy centers in diamond. <i>Physical Review B</i> , 2014, 89, .	1.1	25

#	ARTICLE	IF	CITATIONS
19	Optically detected cross-relaxation spectroscopy of electron spins in diamond. Nature Communications, 2014, 5, 4135.	5.8	24
20	Suppression of electron spin decoherence of the diamond NV center by a transverse magnetic field. Physical Review B, 2013, 88, .	1.1	20
21	Sensitive magnetic control of ensemble nuclear spin hyperpolarization in diamond. Nature Communications, 2013, 4, 1940.	5.8	51
22	Room-temperature operation of a radiofrequency diamond magnetometer near the shot-noise limit. Journal of Applied Physics, 2012, 112, .	1.1	39
23	Revisiting the Sponge Sources, Stereostructure, and Biological Activity of Cyclocinamide A. Journal of Natural Products, 2008, 71, 1475-1478.	1.5	19