Luis Miaja-Avila

List of Publications by Year
in descending order

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32 papers	1,864 citations	471509 17 h-index	552781 26 g-index
32 all docs	32 docs citations	32 times ranked	2853 citing authors

#	Article	IF	Citations
1	Observing the Multiexciton State in Singlet Fission and Ensuing Ultrafast Multielectron Transfer. Science, 2011, 334, 1541-1545.	12.6	468
2	Collapse of long-range charge order tracked by time-resolved photoemission at high momenta. Nature, 2011, 471, 490-493.	27.8	406
3	Laser-Assisted Photoelectric Effect from Surfaces. Physical Review Letters, 2006, 97, 113604.	7.8	151
4	Near- and Extended-Edge X-Ray-Absorption Fine-Structure Spectroscopy Using Ultrafast Coherent High-Order Harmonic Supercontinua. Physical Review Letters, 2018, 120, 093002.	7.8	121
5	A practical superconducting-microcalorimeter X-ray spectrometer for beamline and laboratory science. Review of Scientific Instruments, 2017, 88, 053108.	1.3	96
6	Direct Measurement of Core-Level Relaxation Dynamics on a Surface-Adsorbate System. Physical Review Letters, 2008, 101, 046101.	7.8	88
7	Angle-resolved photoemission spectroscopy with a femtosecond high harmonic light source using a two-dimensional imaging electron analyzer. Review of Scientific Instruments, 2007, 78, 083105.	1.3	83
8	Laser-assisted photoemission from surfaces. Physical Review A, 2008, 77, .	2.5	79
9	High-resolution X-ray emission spectroscopy with transition-edge sensors: present performance and future potential. Journal of Synchrotron Radiation, 2015, 22, 766-775.	2.4	59
10	Laser plasma x-ray source for ultrafast time-resolved x-ray absorption spectroscopy. Structural Dynamics, 2015, 2, 024301.	2.3	46
11	Direct Mapping of Hot-Electron Relaxation and Multiplication Dynamics in PbSe Quantum Dots. Nano Letters, 2012, 12, 1588-1591.	9.1	41
12	Photoelectron Spectroscopy of CdSe Nanocrystals in the Gas Phase: A Direct Measure of the Evanescent Electron Wave Function of Quantum Dots. Nano Letters, 2013, 13, 2924-2930.	9.1	40
13	Ultrafast Time-Resolved X-ray Absorption Spectroscopy of Ferrioxalate Photolysis with a Laser Plasma X-ray Source and Microcalorimeter Array. Journal of Physical Chemistry Letters, 2017, 8, 1099-1104.	4.6	35
14	Ultrafast Time-Resolved Hard X-Ray Emission Spectroscopy on a Tabletop. Physical Review X, 2016, 6, .	8.9	23
15	Communication: Momentum-resolved quantum interference in optically excited surface states. Journal of Chemical Physics, 2011, 135, 031101.	3.0	19
16	Observation of iron spin-states using tabletop x-ray emission spectroscopy and microcalorimeter sensors. Journal of Physics B: Atomic, Molecular and Optical Physics, 2016, 49, 024003.	1.5	18
17	Ultrafast studies of electronic processes at surfaces using the laser-assisted photoelectric effect with long-wavelength dressing light. Physical Review A, 2009, 79, .	2.5	17
18	A Polarization Survey of SiO Maser Variability in Evolved Stars. Astrophysical Journal, 2003, 588, 478-485.	4.5	14

#	Article	IF	Citations
19	Time and angle resolved photoemission spectroscopy using femtosecond visible and high-harmonic light. Journal of Physics: Conference Series, 2009, 148, 012042.	0.4	12
20	Valenceâ€toâ€core Xâ€ray emission spectroscopy of titanium compounds using energy dispersive detectors. X-Ray Spectrometry, 2021, 50, 9-20.	1.4	12
21	A Three-Dimensional Atom Probe Microscope Incorporating a Wavelength-Tuneable Femtosecond-Pulsed Coherent Extreme Ultraviolet Light Source. MRS Advances, 2019, 4, 2367-2375.	0.9	11
22	Field Ion Emission in an Atom Probe Microscope Triggered by Femtosecond-Pulsed Coherent Extreme Ultraviolet Light. Microscopy and Microanalysis, 2020, 26, 258-266.	0.4	11
23	An algorithm for correcting systematic energy deficits in the atom probe mass spectra of insulating samples. Ultramicroscopy, 2020, 213, 112995.	1.9	7
24	Beating Darwin-Bragg losses in lab-based ultrafast x-ray experiments. Structural Dynamics, 2017, 4, 044011.	2.3	3
25	Extreme Ultraviolet Radiation Pulsed Atom Probe Tomography of III-Nitride Semiconductor Materials. Journal of Physical Chemistry C, 2021, 125, 2626-2635.	3.1	3
26	Ultrafast optical properties of lithographically defined quantum dot amplifiers. Applied Physics Letters, 2014, 104, 061106.	3.3	1
27	Gain and Loss in Active Waveguides Based on Lithographically Defined Quantum Dots. IEEE Photonics Technology Letters, 2014, 26, 1283-1286.	2.5	0
28	Atom Probe Tomography Using a Wavelength-Tunable Femtosecond-Pulsed Coherent Extreme Ultraviolet Light Source. Microscopy and Microanalysis, 2019, 25, 314-315.	0.4	0
29	Correcting Systematic Energy Deficits in the Laser-pulsed Atom Probe Mass Spectrum of SiO2. Microscopy and Microanalysis, 2020, 26, 2880-2881.	0.4	0
30	Laser-Assisted Photoemission from Surfaces driven by Long-Wavelength Infrared light. , 2009, , .		0
31	Atom Probe Tomography with Extreme-Ultraviolet Light. , 2019, , .		0
32	Atom probe tomography using Extreme-Ultraviolet Light. , 2020, , .		0