Ann Chiaramonti

List of Publications by Year
in descending order

56 papers	1,027 citations	516215 16 h-index	433756 31 g-index
57 all docs	57 docs citations	57 times ranked	1803 citing authors

#	Article	IF	Citations
1	Atom probe tomography. Nature Reviews Methods Primers, 2021, 1, .	11.8	131
2	Behavior of molecules and molecular ions near a field emitter. New Journal of Physics, 2016, 18, 033031.	1.2	130
3	Towards data-driven next-generation transmission electron microscopy. Nature Materials, 2021, 20, 274-279.	13.3	130
4	Engineering plant cell walls: tuning lignin monomer composition for deconstructable biofuel feedstocks or resilient biomaterials. Green Chemistry, 2014, 16, 2627.	4.6	60
5	Atomically thin layers of Bâ€“Nâ€“Câ€“O with tunable composition. Science Advances, 2015, 1, e1500094.	4.7	55
6	Epitaxial (111) films of Cu, Ni, and CuxNiy on Î±â^'Al2O3 (0001) for graphene growth by chemical vapor deposition. Journal of Applied Physics, 2012, 112, .	1.1	51
7	The Fe3O4 origin of the â€œBiphaseâ€•reconstruction on Î±-Fe2O3(0001). Surface Science, 2009, 603, 2574-2579.	0.8	45
8	Transition from Order to Configurational Disorder for Surface Reconstructions on<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>SrTiO</mml:mi></mml:mrow><mml:mrow><mml:mn>3</mml:mn></ Physical Review Letters, 2015, 114, 226101.	2.9	34
9	The small unit cell reconstructions of SrTiO3(111). Surface Science, 2009, 603, 2179-2187.	0.8	33
10	Effects of annealing on local composition and electrical transport correlations in MgO-based magnetic tunnel junctions. Applied Physics Letters, 2008, 93, .	1.5	30
11	Transmission Electron Microscopy of Multilayer Thin Films. Annual Review of Materials Research, 2008, 38, 559-584.	4.3	28
12	Applicability of post-ionization theory to laser-assisted field evaporation of magnetite. Applied Physics Letters, 2014, 105, .	1.5	24
13	Time, temperature, and oxygen partial pressure-dependent surface reconstructions on SrTiO3(111): A systematic study of oxygen-rich conditions. Surface Science, 2008, 602, 3018-3025.	0.8	23
14	An Experimental Scattering Matrix for Lunar Regolith Simulant JSC-1A at Visible Wavelengths. Astrophysical Journal, Supplement Series, 2018, 235, 19.	3.0	22
15	Controlled Nanoscale Morphology of Hematite (0001) Surfaces Grown by Chemical Vapor Transport. Advanced Materials, 2005, 17, 1765-1768.	11.1	17
16	Effect of annealing and applied bias on barrier shape in CoFe/MgO/CoFe tunnel junctions. Physical Review B, 2011, 83, .	1.1	16
17	Effects of elemental distributions on the behavior of MgO-based magnetic tunnel junctions. Journal of Applied Physics, 2011, 109, 103909.	1.1	15
18	Atomic Resolution Transmission Electron Microscopy of Surfaces. Journal of Materials Research, 2005, 20, 1619-1627.	1.2	12

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19	Enhanced magnetoresistance in naturally oxidized MgO-based magnetic tunnel junctions with ferromagnetic CoFe/CoFeB bilayers. Applied Physics Letters, 2011, 98, 232506.	1.5	12
20	In situ TEM studies of local transport and structure in nanoscale multilayer films. Ultramicroscopy, 2008, 108, 1529-1535.	0.8	11
21	Accelerated reliability testing of highly aligned single-walled carbon nanotube networks subjected to DC electrical stressing. Nanotechnology, 2011, 22, 265713.	1.3	11
22	A Three-Dimensional Atom Probe Microscope Incorporating a Wavelength-Tuneable Femtosecond-Pulsed Coherent Extreme Ultraviolet Light Source. MRS Advances, 2019, 4, 2367-2375.	0.5	11
23	Field Ion Emission in an Atom Probe Microscope Triggered by Femtosecond-Pulsed Coherent Extreme Ultraviolet Light. Microscopy and Microanalysis, 2020, 26, 258-266.	0.2	11
24	Homoepitaxial n-core: p-shell gallium nitride nanowires: HVPE overgrowth on MBE nanowires. Nanotechnology, 2011, 22, 465703.	1.3	10
25	Statistical sampling of carbon nanotube populations by thermogravimetric analysis. Analytical and Bioanalytical Chemistry, 2013, 405, 8207-8213.	1.9	8
26	Morphological and Electrical Characterization of MWCNT Papers and Pellets. Journal of Research of the National Institute of Standards and Technology, 2015, 120, 304.	0.4	8
27	Gold Nanoparticle Quantitation by Whole Cell Tomography. ACS Nano, 2015, 9, 11792-11799.	7.3	8
28	Impurity stabilized near-surface phase on ion bombarded Î±-Fe2O3(0001). Surface Science, 2005, 586, 38-44.	0.8	7
29	Suppression of spin pumping between Ni80Fe20 and Cu by a graphene interlayer. Journal of Applied Physics, 2015, 117, 213907.	1.1	7
30	Quantifying the 3-Dimensional Shape of Lunar Regolith Particles Using X-Ray Computed Tomography and Scanning Electron Microscopy at Sub-Î³ Resolution. Microscopy and Microanalysis, 2017, 23, 2194-2195.	0.2	7
31	An algorithm for correcting systematic energy deficits in the atom probe mass spectra of insulating samples. Ultramicroscopy, 2020, 213, 112995.	0.8	7
32	Optical Floating Zone Growth of Single Crystal Î±-Fe2O3from a CaFe4O7-Based Solvent. Crystal Growth and Design, 2004, 4, 749-753.	1.4	6
33	Towards the Integration of Carbon Nanotubes as Vias in Monolithic Three-Dimensional Integrated Circuits. Japanese Journal of Applied Physics, 2013, 52, 04CB02.	0.8	6
34	Dominant thermal boundary resistance in multi-walled carbon nanotube bundles fabricated at low temperature. Journal of Applied Physics, 2014, 116, 023514.	1.1	6
35	Contact resistance of low-temperature carbon nanotube vertical interconnects. , 2012, , .		5
36	Citrate-stabilized gold nanoparticles as negative controls for measurements of neurite outgrowth. Toxicology in Vitro, 2015, 29, 187-194.	1.1	5

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37	Stability and phase transfer of catalytically active platinum nanoparticle suspensions. Journal of Nanoparticle Research, 2015, 17, 1.	0.8	4
38	Comparative Apex Electrostatics of Atom Probe Tomography Specimens. Journal of Electronic Materials, 2021, 50, 3022-3029.	1.0	4
39	Extreme Ultraviolet Radiation Pulsed Atom Probe Tomography of III-Nitride Semiconductor Materials. Journal of Physical Chemistry C, 2021, 125, 2626-2635.	1.5	3
40	Charge Compensated Perovskite Polar Surface: SrTiO3(111)-3x3. Microscopy and Microanalysis, 2006, 12, 1230-1231.	0.2	2
41	In-situ Structure and Transport Correlations in Magnetic Tunnel Junctions. Microscopy and Microanalysis, 2007, 13, .	0.2	2
42	Correlating Multiscale Measurements of Nanoparticles in Primary Cells. Microscopy and Microanalysis, 2014, 20, 976-977.	0.2	2
43	Optical Scattering Characteristics of 3-D Lunar Regolith Particles Measured Using X-Ray Nano Computed Tomography. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	1.4	2
44	Magnetic Linear Dichroism Probed by High Momentum Resolution EELS. Microscopy and Microanalysis, 2008, 14, 1366-1367.	0.2	1
45	Reliability Testing of Advanced Interconnect Materials. , 2011, , .		1
46	Understanding the High-Temperature Mechanical Properties of A710 (HSLA-80) Steel With Use of Complementary Atom Probe Tomography and Electron Microscopy. Microscopy and Microanalysis, 2014, 20, 954-955.	0.2	1
47	Electron and Helium Ion Imaging of Arabidopsis Affected by Genetic Mutation and Thermochemical Treatment for Biofuel Applications. Microscopy and Microanalysis, 2014, 20, 1338-1339.	0.2	1
48	Timescale of silver nanoparticle transformation in neural cell cultures impacts measured cell response. Journal of Nanoparticle Research, 2015, 17, 1.	0.8	1
49	Introducing a New NIST Reference Material: Multiwall Carbon Nanotube Soot. Microscopy and Microanalysis, 2016, 22, 450-451.	0.2	1
50	Comparison of the Chemical Heterogeneities and Microstructure Between CoFeB/MgO/CoFeB and CoFeB/Al-O/CoFeB Magnetic Tunnel Junctions. Microscopy and Microanalysis, 2007, 13, .	0.2	0
51	Failure Analysis and Reliability of Low-Temperature-Grown Multi-Wall Carbon Nanotube Bundles Integrated as Vias in Monolithic Three-Dimensional Integrated Circuits. Microscopy and Microanalysis, 2014, 20, 1762-1763.	0.2	0
52	Localization and Number of Au Nanoparticles in Optically Indexed Cells by FIB Tomography. Microscopy and Microanalysis, 2015, 21, 411-412.	0.2	0
53	Atom Probe Tomography Using a Wavelength-Tunable Femtosecond-Pulsed Coherent Extreme Ultraviolet Light Source. Microscopy and Microanalysis, 2019, 25, 314-315.	0.2	0
54	Correcting Systematic Energy Deficits in the Laser-pulsed Atom Probe Mass Spectrum of SiO2. Microscopy and Microanalysis, 2020, 26, 2880-2881.	0.2	0

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55	On the Voltage and Bowl Correction of Trigger-Uncorrelated Multihit Events. Microscopy and Microanalysis, 2021, 27, 412-415.	0.2	0
56	Chemical Segregation and Microstructural Evolution of Fiber Laser Welded Low Carbon Sheet Steel. , 2017, , .		0