

Ann Chiaramonti

List of Publications by Year in descending order

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docs citations

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times ranked

1803
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | 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 |
| 2 | Towards data-driven next-generation transmission electron microscopy. Nature Materials, 2021, 20, 274-279. | 13.3 | 130 |
| 3 | Extreme Ultraviolet Radiation Pulsed Atom Probe Tomography of III-Nitride Semiconductor Materials. Journal of Physical Chemistry C, 2021, 125, 2626-2635. | 1.5 | 3 |
| 4 | Comparative Apex Electrostatics of Atom Probe Tomography Specimens. Journal of Electronic Materials, 2021, 50, 3022-3029. | 1.0 | 4 |
| 5 | On the Voltage and Bowl Correction of Trigger-Uncorrelated Multihit Events. Microscopy and Microanalysis, 2021, 27, 412-415. | 0.2 | 0 |
| 6 | Atom probe tomography. Nature Reviews Methods Primers, 2021, 1, . | 11.8 | 131 |
| 7 | Correcting Systematic Energy Deficits in the Laser-pulsed Atom Probe Mass Spectrum of SiO ₂ . Microscopy and Microanalysis, 2020, 26, 2880-2881. | 0.2 | 0 |
| 8 | An algorithm for correcting systematic energy deficits in the atom probe mass spectra of insulating samples. Ultramicroscopy, 2020, 213, 112995. | 0.8 | 7 |
| 9 | 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 |
| 10 | Atom Probe Tomography Using a Wavelength-Tunable Femtosecond-Pulsed Coherent Extreme Ultraviolet Light Source. Microscopy and Microanalysis, 2019, 25, 314-315. | 0.2 | 0 |
| 11 | 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 |
| 12 | An Experimental Scattering Matrix for Lunar Regolith Simulant JSC-1A at Visible Wavelengths. Astrophysical Journal, Supplement Series, 2018, 235, 19. | 3.0 | 22 |
| 13 | Quantifying the 3-Dimensional Shape of Lunar Regolith Particles Using X-Ray Computed Tomography and Scanning Electron Microscopy at Sub-1 ³ Resolution. Microscopy and Microanalysis, 2017, 23, 2194-2195. | 0.2 | 7 |
| 14 | Chemical Segregation and Microstructural Evolution of Fiber Laser Welded Low Carbon Sheet Steel. , 2017, , . | | 0 |
| 15 | Introducing a New NIST Reference Material: Multiwall Carbon Nanotube Soot. Microscopy and Microanalysis, 2016, 22, 450-451. | 0.2 | 1 |
| 16 | Behavior of molecules and molecular ions near a field emitter. New Journal of Physics, 2016, 18, 033031. | 1.2 | 130 |
| 17 | Timescale of silver nanoparticle transformation in neural cell cultures impacts measured cell response. Journal of Nanoparticle Research, 2015, 17, 1. | 0.8 | 1 |
| 18 | Localization and Number of Au Nanoparticles in Optically Indexed Cells by FIB Tomography. Microscopy and Microanalysis, 2015, 21, 411-412. | 0.2 | 0 |

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|----|---|-----|-----------|
| 19 | 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 |
| 20 | Transition from Order to Configurational Disorder for Surface Reconstructions on SrTiO_3 . Physical Review Letters, 2015, 114, 226101. | 2.9 | 34 |
| 21 | Stability and phase transfer of catalytically active platinum nanoparticle suspensions. Journal of Nanoparticle Research, 2015, 17, 1. | 0.8 | 4 |
| 22 | Gold Nanoparticle Quantitation by Whole Cell Tomography. ACS Nano, 2015, 9, 11792-11799. | 7.3 | 8 |
| 23 | Atomically thin layers of BaTiO_3 with tunable composition. Science Advances, 2015, 1, e1500094. | 4.7 | 55 |
| 24 | Suppression of spin pumping between $\text{Ni}_8\text{Fe}_2\text{O}_{10}$ and Cu by a graphene interlayer. Journal of Applied Physics, 2015, 117, 213907. | 1.1 | 7 |
| 25 | Citrate-stabilized gold nanoparticles as negative controls for measurements of neurite outgrowth. Toxicology in Vitro, 2015, 29, 187-194. | 1.1 | 5 |
| 26 | Dominant thermal boundary resistance in multi-walled carbon nanotube bundles fabricated at low temperature. Journal of Applied Physics, 2014, 116, 023514. | 1.1 | 6 |
| 27 | Engineering plant cell walls: tuning lignin monomer composition for deconstructable biofuel feedstocks or resilient biomaterials. Green Chemistry, 2014, 16, 2627. | 4.6 | 60 |
| 28 | Applicability of post-ionization theory to laser-assisted field evaporation of magnetite. Applied Physics Letters, 2014, 105, . | 1.5 | 24 |
| 29 | 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 |
| 30 | Correlating Multiscale Measurements of Nanoparticles in Primary Cells. Microscopy and Microanalysis, 2014, 20, 976-977. | 0.2 | 2 |
| 31 | 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 |
| 32 | 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 |
| 33 | Statistical sampling of carbon nanotube populations by thermogravimetric analysis. Analytical and Bioanalytical Chemistry, 2013, 405, 8207-8213. | 1.9 | 8 |
| 34 | 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 |
| 35 | Epitaxial (111) films of Cu, Ni, and Cu_xNi_y on Al_2O_3 (0001) for graphene growth by chemical vapor deposition. Journal of Applied Physics, 2012, 112, . | 1.1 | 51 |
| 36 | Contact resistance of low-temperature carbon nanotube vertical interconnects. , 2012, , . | | 5 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 37 | Effects of elemental distributions on the behavior of MgO-based magnetic tunnel junctions. Journal of Applied Physics, 2011, 109, 103909. | 1.1 | 15 |
| 38 | Accelerated reliability testing of highly aligned single-walled carbon nanotube networks subjected to DC electrical stressing. Nanotechnology, 2011, 22, 265713. | 1.3 | 11 |
| 39 | Homoepitaxial n-core: p-shell gallium nitride nanowires: HVPE overgrowth on MBE nanowires. Nanotechnology, 2011, 22, 465703. | 1.3 | 10 |
| 40 | Effect of annealing and applied bias on barrier shape in CoFe/MgO/CoFe tunnel junctions. Physical Review B, 2011, 83, . | 1.1 | 16 |
| 41 | Enhanced magnetoresistance in naturally oxidized MgO-based magnetic tunnel junctions with ferromagnetic CoFe/CoFeB bilayers. Applied Physics Letters, 2011, 98, 232506. | 1.5 | 12 |
| 42 | Reliability Testing of Advanced Interconnect Materials. , 2011, , . | | 1 |
| 43 | The Fe ₃ O ₄ origin of the "Biphase" reconstruction on $\hat{1}\pm$ -Fe ₂ O ₃ (0001). Surface Science, 2009, 603, 2574-2579. | 0.8 | 45 |
| 44 | The small unit cell reconstructions of SrTiO ₃ (111). Surface Science, 2009, 603, 2179-2187. | 0.8 | 33 |
| 45 | In situ TEM studies of local transport and structure in nanoscale multilayer films. Ultramicroscopy, 2008, 108, 1529-1535. | 0.8 | 11 |
| 46 | Time, temperature, and oxygen partial pressure-dependent surface reconstructions on SrTiO ₃ (111): A systematic study of oxygen-rich conditions. Surface Science, 2008, 602, 3018-3025. | 0.8 | 23 |
| 47 | Transmission Electron Microscopy of Multilayer Thin Films. Annual Review of Materials Research, 2008, 38, 559-584. | 4.3 | 28 |
| 48 | Effects of annealing on local composition and electrical transport correlations in MgO-based magnetic tunnel junctions. Applied Physics Letters, 2008, 93, . | 1.5 | 30 |
| 49 | Magnetic Linear Dichroism Probed by High Momentum Resolution EELS. Microscopy and Microanalysis, 2008, 14, 1366-1367. | 0.2 | 1 |
| 50 | In-situ Structure and Transport Correlations in Magnetic Tunnel Junctions. Microscopy and Microanalysis, 2007, 13, . | 0.2 | 2 |
| 51 | 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 |
| 52 | Charge Compensated Perovskite Polar Surface: SrTiO ₃ (111)-3x3. Microscopy and Microanalysis, 2006, 12, 1230-1231. | 0.2 | 2 |
| 53 | Controlled Nanoscale Morphology of Hematite (0001) Surfaces Grown by Chemical Vapor Transport. Advanced Materials, 2005, 17, 1765-1768. | 11.1 | 17 |
| 54 | Impurity stabilized near-surface phase on ion bombarded $\hat{1}\pm$ -Fe ₂ O ₃ (0001). Surface Science, 2005, 586, 38-44. | 0.8 | 7 |

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| 55 | Atomic Resolution Transmission Electron Microscopy of Surfaces. Journal of Materials Research, 2005, 20, 1619-1627. | 1.2 | 12 |
| 56 | Optical Floating Zone Growth of Single Crystal $\hat{\pm}$ -Fe ₂ O ₃ from a CaFe ₄ O ₇ -Based Solvent. Crystal Growth and Design, 2004, 4, 749-753. | 1.4 | 6 |