

David Saxey

List of Publications by Year in descending order

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79
papers

2,444
citations

186265
28
h-index

214800
47
g-index

84
all docs

84
docs citations

84
times ranked

2157
citing authors

#	ARTICLE	IF	CITATIONS
1	Correlated ion analysis and the interpretation of atom probe mass spectra. <i>Ultramicroscopy</i> , 2011, 111, 473-479.	1.9	186
2	Behavior of molecules and molecular ions near a field emitter. <i>New Journal of Physics</i> , 2016, 18, 033031.	2.9	130
3	Nanoscale characterisation of grain boundary oxidation in cold-worked stainless steels. <i>Corrosion Science</i> , 2012, 63, 225-233.	6.6	109
4	Nuclear reactor materials at the atomic scale. <i>Materials Today</i> , 2009, 12, 30-37.	14.2	98
5	Nanoscale gold clusters in arsenopyrite controlled by growth rate not concentration: Evidence from atom probe microscopy. <i>American Mineralogist</i> , 2016, 101, 1916-1919.	1.9	94
6	Nanogeochronology of discordant zircon measured by atom probe microscopy of Pb-enriched dislocation loops. <i>Science Advances</i> , 2016, 2, e1601318.	10.3	86
7	Atom Probe Tomography: Development and Application to the Geosciences. <i>Geostandards and Geoanalytical Research</i> , 2020, 44, 5-50.	3.1	84
8	Three-dimensional atom probe analysis of green- and blue-emitting $\text{In}_x\text{Ga}_{1-x}\text{N}/\text{GaN}$ multiple quantum well structures. <i>Journal of Applied Physics</i> , 2008, 104, .	2.5	82
9	Microstructural origins of localization in InGaN quantum wells. <i>Journal Physics D: Applied Physics</i> , 2010, 43, 354003.	2.8	78
10	Some aspects of the field evaporation behaviour of GaSb. <i>Ultramicroscopy</i> , 2011, 111, 487-492.	1.9	77
11	Atom-probe tomography characterization of the oxidation of stainless steel. <i>Scripta Materialia</i> , 2010, 62, 855-858.	5.2	76
12	Atom probe specimen fabrication methods using a dual FIB/SEM. <i>Ultramicroscopy</i> , 2007, 107, 756-760.	1.9	71
13	Gold, arsenic, and copper zoning in pyrite: A record of fluid chemistry and growth kinetics. <i>Geology</i> , 2019, 47, 641-644.	4.4	71
14	Mechanisms of deformation-induced trace element migration in zircon resolved by atom probe and correlative microscopy. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 195, 158-170.	3.9	64
15	Examinations of Oxidation and Sulfidation of Grain Boundaries in Alloy 600 Exposed to Simulated Pressurized Water Reactor Primary Water. <i>Microscopy and Microanalysis</i> , 2013, 19, 676-687.	0.4	52
16	Atom probe tomography assessment of the impact of electron beam exposure on $\text{In}_x\text{Ga}_{1-x}\text{N}/\text{GaN}$ quantum wells. <i>Applied Physics Letters</i> , 2011, 99, .	3.3	47
17	Assessing the mechanisms of common Pb incorporation into titanite. <i>Chemical Geology</i> , 2018, 483, 558-566.	3.3	47
18	Time-resolved, defect-hosted, trace element mobility in deformed Witwatersrand pyrite. <i>Geoscience Frontiers</i> , 2019, 10, 55-63.	8.4	44

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19	Cr-spinel records metasomatism not petrogenesis of mantle rocks. <i>Nature Communications</i> , 2019, 10, 5103.	12.8	42
20	Nanoscale distribution of Pb in monazite revealed by atom probe microscopy. <i>Chemical Geology</i> , 2018, 479, 251-258.	3.3	39
21	Atomic worlds: Current state and future of atom probe tomography in geoscience. <i>Scripta Materialia</i> , 2018, 148, 115-121.	5.2	39
22	Atom probe tomography of reactor pressure vessel steels: An analysis of data integrity. <i>Ultramicroscopy</i> , 2011, 111, 676-682.	1.9	38
23	Nanoscale resetting of the Th/Pb system in an isotopically-closed monazite grain: A combined atom probe and transmission electron microscopy study. <i>Geoscience Frontiers</i> , 2019, 10, 65-76.	8.4	38
24	Ge _{1-x} Mn _x Clusters: Central Structural and Magnetic Building Blocks of Nanoscale Wire-Like Self-Assembly in a Magnetic Semiconductor. <i>Nano Letters</i> , 2009, 9, 3743-3748.	9.1	37
25	High-resolution nanostructural investigation of Zn ₄ Sb ₃ alloys. <i>Scripta Materialia</i> , 2010, 63, 784-787.	5.2	36
26	Effect of Sn Addition in Preprecipitation Stage in Al-Cu Alloys: A Correlative Transmission Electron Microscopy and Atom Probe Tomography Study. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2012, 43, 2192-2202.	2.2	34
27	Novel Applications of FIB-SEM-Based ToF-SIMS in Atom Probe Tomography Workflows. <i>Microscopy and Microanalysis</i> , 2020, 26, 750-757.	0.4	32
28	Site-specific specimen preparation for atom probe tomography of grain boundaries. <i>Physica B: Condensed Matter</i> , 2007, 394, 267-269.	2.7	30
29	A new kind of invisible gold in pyrite hosted in deformation-related dislocations. <i>Geology</i> , 2021, 49, 1225-1229.	4.4	30
30	Nanoscale processes of trace element mobility in metamorphosed zircon. <i>Contributions To Mineralogy and Petrology</i> , 2019, 174, 1.	3.1	28
31	Microstructural evolution of spinodally formed Fe ₃₅ Ni ₁₅ Mn ₂₅ Al ₂₅ . <i>Intermetallics</i> , 2009, 17, 886-893.	3.9	27
32	Atom probe tomography analysis of the reference zircon gj-1: An interlaboratory study. <i>Chemical Geology</i> , 2018, 495, 27-35.	3.3	27
33	Solar wind contributions to Earth's oceans. <i>Nature Astronomy</i> , 2021, 5, 1275-1285.	10.1	22
34	Mechanical twinning of monazite expels radiogenic lead. <i>Geology</i> , 2021, 49, 417-421.	4.4	21
35	Micro- and nano-scale textural and compositional zonation in plagioclase at the Black Mountain porphyry Cu deposit: Implications for magmatic processes. <i>American Mineralogist</i> , 2019, 104, 391-402.	1.9	20
36	Volcanic SiO ₂ -cristobalite: A natural product of chemical vapor deposition. <i>American Mineralogist</i> , 2020, 105, 510-524.	1.9	20

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37	Direct Observation of Nanoparticulate Goethite Recrystallization by Atom Probe Analysis of Isotopic Tracers. <i>Environmental Science & Technology</i> , 2019, 53, 13126-13135.	10.0	19
38	Nanoscale constraints on the shock-induced transformation of zircon to reidite. <i>Chemical Geology</i> , 2019, 507, 85-95.	3.3	19
39	Nanoscale Stoichiometric Analysis of a High-Temperature Superconductor by Atom Probe Tomography. <i>Microscopy and Microanalysis</i> , 2017, 23, 414-424.	0.4	18
40	Analysis of Natural Rutile (TiO ₂) by Laser-assisted Atom Probe Tomography. <i>Microscopy and Microanalysis</i> , 2019, 25, 539-546.	0.4	16
41	The geochemical and geochronological implications of nanoscale trace-element clusters in rutile. <i>Geology</i> , 2020, 48, 1126-1130.	4.4	16
42	Nanoscale Isotopic Dating of Monazite. <i>Geostandards and Geoanalytical Research</i> , 2020, 44, 637-652.	3.1	15
43	Atom probe tomography characterisation of a laser diode structure grown by molecular beam epitaxy. <i>Journal of Applied Physics</i> , 2012, 111, 053508.	2.5	13
44	Nebula sulfidation and evidence for migration of "free-floating" refractory metal nuggets revealed by atom probe microscopy. <i>Geology</i> , 2017, 45, 847-850.	4.4	13
45	Defining the Potential of Nanoscale Re ¹⁸⁷ O ₃ Isotope Systematics Using Atom Probe Microscopy. <i>Geostandards and Geoanalytical Research</i> , 2018, 42, 279-299.	3.1	13
46	A new method for dating impact events " Thermal dependency on nanoscale Pb mobility in monazite shock twins. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 314, 381-396.	3.9	13
47	Effect of Trace Addition of Sn in Al-Cu Alloy. <i>Materials Science Forum</i> , 2006, 519-521, 203-208.	0.3	12
48	Dislocations in minerals: Fast-diffusion pathways or trace-element traps?. <i>Earth and Planetary Science Letters</i> , 2022, 584, 117517.	4.4	12
49	Effect of Solute Clusters on Stress Relaxation Behavior in Cu-Ni-P Alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2009, 40, 2888-2900.	2.2	11
50	Effect of P Content on Stress Relaxation and Clustering Behavior in Cu-Ni-P Alloys. <i>Materials Transactions</i> , 2010, 51, 1802-1808.	1.2	11
51	Analysis of dynamic segregation and crystallisation in Mg ₆₅ Cu ₂₅ Y ₁₀ bulk metallic glass using atom probe tomography. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012, 556, 558-566.	5.6	11
52	Hall-Petch Slope in Ultrafine Grained Al-Mg Alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2019, 50, 4047-4057.	2.2	11
53	Standardizing Spatial Reconstruction Parameters for the Atom Probe Analysis of Common Minerals. <i>Microscopy and Microanalysis</i> , 2022, 28, 1221-1230.	0.4	11
54	Disorientation control on trace element segregation in fluid-affected low-angle boundaries in olivine. <i>Contributions To Mineralogy and Petrology</i> , 2021, 176, 1.	3.1	10

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55	Xenotime at the Nanoscale: Uâ€Pb Geochronology and Optimisation of Analyses by Atom Probe Tomography. <i>Geostandards and Geoanalytical Research</i> , 2021, 45, 443-456.	3.1	10
56	Atom probe characterization of precipitation in an aged Cuâ€Niâ€P alloy. <i>Ultramicroscopy</i> , 2011, 111, 725-729.	1.9	9
57	Lunar samples record an impact 4.2 billion years ago that may have formed the Serenitatis Basin. <i>Communications Earth & Environment</i> , 2021, 2, .	6.8	9
58	Pre-nucleation geochemical heterogeneity within glassy anatectic inclusions and the role of water in glass preservation. <i>Contributions To Mineralogy and Petrology</i> , 2021, 176, 1.	3.1	8
59	Atom probe microscopy of zinc isotopic enrichment in ZnO nanorods. <i>AIP Advances</i> , 2017, 7, .	1.3	7
60	Crystallography of refractory metal nuggets in carbonaceous chondrites: A transmission Kikuchi diffraction approach. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 216, 42-60.	3.9	7
61	Trace-element segregation to dislocation loops in experimentally heated zircon. <i>American Mineralogist</i> , 2021, 106, 1971-1979.	1.9	7
62	Partial retention of radiogenic Pb in galena nanocrystals explains discordance in monazite from Napier Complex (Antarctica). <i>Earth and Planetary Science Letters</i> , 2022, 588, 117567.	4.4	7
63	Nanonstructural Analysis of Advanced Alloys in a Local Electrode Atom Probe. <i>Microscopy and Microanalysis</i> , 2005, 11, .	0.4	6
64	Spatial Reconstruction of Atom Probe Data from Zircon. <i>Microscopy and Microanalysis</i> , 2019, 25, 2536-2537.	0.4	6
65	Nanoscale characterization of compound semiconductors using laser-pulsed atom probe tomography. <i>Journal of Physics: Conference Series</i> , 2010, 209, 012026.	0.4	5
66	Developing Atom Probe Tomography of Phyllosilicates in Preparation for Extraâ€Terrestrial Sample Return. <i>Geostandards and Geoanalytical Research</i> , 2021, 45, 427-441.	3.1	5
67	Atom-probe Tomography of Surface Oxides in a 20% Cold Worked Stainless Steel Tested Under PWR Primary Water Conditions. <i>Microscopy and Microanalysis</i> , 2009, 15, 304-305.	0.4	4
68	Atom Probe Tomography Studies of GaN-Based Semiconductor Materials. <i>Microscopy and Microanalysis</i> , 2009, 15, 280-281.	0.4	3
69	Characterization of Ni-base Superalloys on the Atomic Scale by Atom Probe Tomography and Spherical-Aberration Corrected Analytical Electron Microscopy Techniques. <i>Microscopy and Microanalysis</i> , 2006, 12, 534-535.	0.4	2
70	Atom-probe tomography of surface oxides and oxidized grain boundaries in alloys from nuclear reactors. <i>Materials Research Society Symposia Proceedings</i> , 2013, 1514, 107-118.	0.1	2
71	Correlative Analysis using FIB-ToF-SIMS and Atom Probe Tomography on Geological Materials. <i>Microscopy and Microanalysis</i> , 2016, 22, 684-685.	0.4	2
72	Atom Probe Tomography at The University of Sydney. <i>Advances in Materials Research</i> , 2008, , 187-216.	0.2	2

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73	A high-resolution superconducting pressure gauge for studies of critical phenomena in quantum fluids. <i>Physica B: Condensed Matter</i> , 2000, 284-288, 2043-2044.	2.7	1
74	Preparation of Site Specific Atom Probe Tips using Focused Ion Beam Technology. <i>Microscopy and Microanalysis</i> , 2006, 12, 1296-1297.	0.4	1
75	Atom Probe Specimen Fabrication Methods using a Dual FIB/SEM. , 2006, , .		0
76	Recent Advances in FIB-based Site-specific Atom Probe Specimen Preparation Techniques. <i>Microscopy and Microanalysis</i> , 2007, 13, .	0.4	0
77	A UK Facility for Atom Probe Tomography Analysis. <i>Microscopy and Microanalysis</i> , 2009, 15, 288-289.	0.4	0
78	Looking Inside the Fascinating Nanoworld Controlling Light Emission from InGaN/GaN Quantum Well Devices. <i>Microscopy and Microanalysis</i> , 2010, 16, 1890-1891.	0.4	0
79	3D atomic-scale chemical analysis of engineering alloys. , 2008, , 729-730.		0