Michael Moody

List of Publications by Year
in descending order

196 papers	7,436 citations	47 h-index	78 g-index
		47006	66911
198 all docs	198 docs citations	198 times ranked	5063 citing authors

#	Article	IF	Citations
1	Atom Probe Microscopy. Springer Series in Materials Science, 2012, , .	0.6	501
2	New Techniques for the Analysis of Fine-Scaled Clustering Phenomena within Atom Probe Tomography (APT) Data. Microscopy and Microanalysis, 2007, 13, 448-463.	0.4	281
3	Direct observation of individual hydrogen atoms at trapping sites in a ferritic steel. Science, 2017, 355, 1196-1199.	12.6	224
4	Advances in the calibration of atom probe tomographic reconstruction. Journal of Applied Physics, 2009, 105, .	2.5	214
5	Advances in the reconstruction of atom probe tomography data. Ultramicroscopy, 2011, 111, 448-457.	1.9	209
6	Quantitative binomial distribution analyses of nanoscale likeâ€solute atom clustering and segregation in atom probe tomography data. Microscopy Research and Technique, 2008, 71, 542-550.	2.2	198
7	Atom probe crystallography. Materials Today, 2012, 15, 378-386.	14.2	158
8	Spatial Resolution in Atom Probe Tomography. Microscopy and Microanalysis, 2010, 16, 99-110.	0.4	153
9	On the effect of boron on grain boundary character in a new polycrystalline superalloy. Acta Materialia, 2016, 103, 688-699.	7.9	149
10	Estimation of the Reconstruction Parameters for Atom Probe Tomography. Microscopy and Microanalysis, 2008, 14, 296-305.	0.4	143
11	A novel ultra-high strength maraging steel with balanced ductility and creep resistance achieved by nanoscale Î²-NiAl and Laves phase precipitates. Acta Materialia, 2018, 149, 285-301.	7.9	135
12	Atom probe tomography. Nature Reviews Methods Primers, 2021, 1, .	21.2	131
13	Nanobubbles: the big picture. Physica A: Statistical Mechanics and Its Applications, 2002, 314, 696-705.	2.6	130
14	Behavior of molecules and molecular ions near a field emitter. New Journal of Physics, 2016, 18, 033031.	2.9	130
15	Qualification of the tomographic reconstruction in atom probe by advanced spatial distribution map techniques. Ultramicroscopy, 2009, 109, 815-824.	1.9	129
16	Observations of grain boundary impurities in nanocrystalline Al and their influence on microstructural stability and mechanical behaviour. Acta Materialia, 2012, 60, 1038-1047.	7.9	122
17	Sequential nucleation of phases in a 17-4PH steel: Microstructural characterisation and mechanical properties. Acta Materialia, 2017, 125, 38-49.	7.9	121
18	An Atom Probe Tomography study of site preference and partitioning in a nickel-based superalloy. Acta Materialia, 2017, 125, 156-165.	7.9	113

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19	Ion-irradiation induced clustering in W-Re-Ta, W-Re and W-Ta alloys: An atom probe tomography and nanoindentation study. Acta Materialia, 2017, 124, 71-78.	7.9	107
20	On the microtwinning mechanism in a single crystal superalloy. Acta Materialia, 2017, 135, 314-329.	7.9	102
21	Influence of surface migration on the spatial resolution of pulsed laser atom probe tomography. Journal of Applied Physics, 2010, 108, .	2.5	81
22	Characterizing solute hydrogen and hydrides in pure and alloyed titanium at the atomic scale. Acta Materialia, 2018, 150, 273-280.	7.9	81
23	Origin of the spatial resolution in atom probe microscopy. Applied Physics Letters, 2009, 95, 034103.	3.3	80
24	Dynamic reconstruction for atom probe tomography. Ultramicroscopy, 2011, 111, 1619-1624.	1.9	72
25	Curvature dependent surface tension from a simulation of a cavity in a Lennard-Jones liquid close to coexistence. Journal of Chemical Physics, 2001, 115, 8967-8977.	3.0	70
26	Curvature-Dependent Surface Tension of a Growing Droplet. Physical Review Letters, 2003, 91, 056104.	7.8	65
27	Atom probe microscopy investigation of Mg site occupancy within Î´â€² precipitates in an Alâ€“Mgâ€“Li alloy. Scripta Materialia, 2012, 66, 903-906.	5.2	65
28	Defining clusters in APT reconstructions of ODS steels. Ultramicroscopy, 2013, 132, 271-278.	1.9	65
29	Solute redistribution in the nanocrystalline structure formed in bearing steels. Scripta Materialia, 2013, 69, 630-633.	5.2	62
30	Contingency table techniques for three dimensional atom probe tomography. Microscopy Research and Technique, 2007, 70, 258-268.	2.2	61
31	Crystallographic structural analysis in atom probe microscopy via 3D Hough transformation. Ultramicroscopy, 2011, 111, 458-463.	1.9	59
32	A New Polycrystalline Co-Ni Superalloy. Jom, 2014, 66, 2495-2501.	1.9	59
33	On the composition of microtwins in a single crystal nickel-basedÂsuperalloy. Scripta Materialia, 2017, 127, 37-40.	5.2	59
34	Lattice Rectification in Atom Probe Tomography: Toward True Three-Dimensional Atomic Microscopy. Microscopy and Microanalysis, 2011, 17, 226-239.	0.4	58
35	Microstructural understanding of the oxidation of an austenitic stainless steel in high-temperature steam through advanced characterization. Acta Materialia, 2020, 194, 321-336.	7.9	58
36	Atom probe crystallography: Atomic-scale 3-D orientation mapping. Scripta Materialia, 2012, 66, 907-910.	5.2	57

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37	Structural, electronic, and optical properties of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>m</mml:mi></mml:math>-plane InGaN/GaN quantum wells: Insights from experiment and atomistic theory. Physical Review B, 2015, 92, .	3.2	57
38	Atom probe tomography of stress corrosion crack tips in SUS316 stainless steels. Corrosion Science, 2015, 98, 661-671.	6.6	57
39	A three-dimensional Markov field approach for the analysis of atomic clustering in atom probe data. Philosophical Magazine, 2010, 90, 1657-1683.	1.6	56
40	Magnetism of Co-doped ZnO epitaxially grown on a ZnO substrate. Physical Review B, 2012, 85, .	3.2	54
41	Atomically resolved tomography to directly inform simulations for structureâ€“property relationships. Nature Communications, 2014, 5, 5501.	12.8	53
42	On the breakaway oxidation of Fe9Cr1Mo steel in high pressure CO2. Acta Materialia, 2017, 130, 361-374.	7.9	53
43	Impact of laser pulsing on the reconstruction in an atom probe tomography. Ultramicroscopy, 2010, 110, 1215-1222.	1.9	51
44	Atom probe crystallography: Characterization of grain boundary orientation relationships in nanocrystalline aluminium. Ultramicroscopy, 2011, 111, 493-499.	1.9	51
45	Atomic Imaging of Carbon-Supported Pt, Pt/Co, and Ir@Pt Nanocatalysts by Atom-Probe Tomography. ACS Catalysis, 2014, 4, 695-702.	11.2	50
46	Mining information from atom probe data. Ultramicroscopy, 2015, 159, 324-337.	1.9	50
47	A mechanistic study of the temperature dependence of the stress corrosion crack growth rate in SUS316 stainless steels exposed to PWR primary water. Acta Materialia, 2016, 114, 15-24.	7.9	50
48	Direct Observation of Local Potassium Variation and Its Correlation to Electronic Inhomogeneity in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mo stretchy="false">(</mml:mo><mml:msub><mml:mi>Ba</mml:mi><mml:mrow><mml:mn>1</mml:mn><mml:mo>â^’</mml:mo><mml:m	7.8	48
49	Physical Review Letters, 2011, 106, 247002. Quantification of oxide particle composition in model oxide dispersion strengthened steel alloys. Ultramicroscopy, 2015, 159, 360-367.	1.9	48
50	Short-range order in multicomponent materials. Acta Crystallographica Section A: Foundations and Advances, 2012, 68, 547-560.	0.3	47
51	Microstructure evolution of T91 irradiated in the BOR60 fast reactor. Journal of Nuclear Materials, 2018, 504, 122-134.	2.7	47
52	A Nanoscale Investigation of Carlin-Type Gold Deposits: An Atom-Scale Elemental and Isotopic Perspective. Economic Geology, 2019, 114, 1123-1133.	3.8	47
53	Indium clustering in a-plane InGaN quantum wells as evidenced by atom probe tomography. Applied Physics Letters, 2015, 106, .	3.3	46
54	New insights into the oxidation mechanisms of a Ferritic-Martensitic steel in high-temperature steam. Acta Materialia, 2020, 194, 522-539.	7.9	46

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55	The formation of ordered clusters in Tiâ€“7Al and Tiâ€“6Alâ€“4V. Acta Materialia, 2016, 112, 141-149.	7.9	44
56	Effect of Nb and Fe on damage evolution in a Zr-alloy during proton and neutron irradiation. Acta Materialia, 2019, 165, 603-614.	7.9	44
57	Decoration of voids with rhenium and osmium transmutation products in neutron irradiated single crystal tungsten. Scripta Materialia, 2019, 173, 96-100.	5.2	41
58	Precipitation of the ordered Î± 2 phase in a near- Î± titanium alloy. Scripta Materialia, 2016, 117, 81-85.	5.2	40
59	Using transmission Kikuchi diffraction to study intergranular stress corrosion cracking in type 316 stainless steels. Micron, 2015, 75, 1-10.	2.2	39
60	Thermalâ€“mechanical fatigue behaviour of a new single crystal superalloy: Effects of Si and Re alloying. Acta Materialia, 2015, 95, 456-467.	7.9	38
61	Quantitative analysis of carbon in cementite using pulsed laser atom probe. Ultramicroscopy, 2014, 147, 51-60.	1.9	37
62	Quantitative description of atomic architecture in solid solutions: A generalized theory for multicomponent short-range order. Physical Review B, 2010, 82, .	3.2	35
63	Radiation induced segregation and precipitation behavior in self-ion irradiated Ferritic/Martensitic HT9 steel. Journal of Nuclear Materials, 2017, 491, 162-176.	2.7	35
64	Effect of Sn Addition in Preprecipitation Stage in Al-Cu Alloys: A Correlative Transmission Electron Microscopy and Atom Probe Tomography Study. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2012, 43, 2192-2202.	2.2	34
65	An atom probe tomography study of the oxideâ€“metal interface of an oxide intrusion ahead of a crack in a polycrystalline Ni-based superalloy. Scripta Materialia, 2015, 97, 41-44.	5.2	34
66	Oxidation behaviour of a next generation polycrystalline Mn containing Ni-based superalloy. Scripta Materialia, 2016, 113, 51-54.	5.2	33
67	The effect of oxidation on the subsurface microstructure of a Ti-6Al-4V alloy. Scripta Materialia, 2018, 148, 24-28.	5.2	33
68	Microstructure understanding of high Cr-Ni austenitic steel corrosion in high-temperature steam. Acta Materialia, 2022, 226, 117634.	7.9	32
69	A SANS and APT study of precipitate evolution and strengthening in a maraging steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 702, 414-424.	5.6	31
70	Resolving the Morphology of Niobium Carbonitride Nano-Precipitates in Steel Using Atom Probe Tomography. Microscopy and Microanalysis, 2014, 20, 1100-1110.	0.4	30
71	Reflections on the Analysis of Interfaces and Grain Boundaries by Atom Probe Tomography. Microscopy and Microanalysis, 2020, 26, 247-257.	0.4	30
72	An in-situ approach for preparing atom probe tomography specimens by xenon plasma-focussed ion beam. Ultramicroscopy, 2019, 202, 121-127.	1.9	29

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73	Advances in atom probe tomography instrumentation: Implications for materials research. MRS Bulletin, 2016, 41, 40-45.	3.5	28
74	Atomic-scale Studies of Uranium Oxidation and Corrosion by Water Vapour. Scientific Reports, 2016, 6, 25618.	3.3	28
75	Effect of alloying elements on microstructural evolution in oxygen content controlled Ti-29Nb-13Ta-4.6Zr (wt%) alloys for biomedical applications during aging. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 709, 312-321.	5.6	28
76	Atom probe tomography analysis of the reference zircon gj-1: An interlaboratory study. Chemical Geology, 2018, 495, 27-35.	3.3	27
77	Oxidation and Surface Segregation Behavior of a Ptâ€“Pdâ€“Rh Alloy Catalyst. Journal of Physical Chemistry C, 2014, 118, 26130-26138.	3.1	26
78	The rise of computational techniques in atom probe microscopy. Current Opinion in Solid State and Materials Science, 2013, 17, 224-235.	11.5	25
79	Practical Issues for Atom Probe Tomography Analysis of III-Nitride Semiconductor Materials. Microscopy and Microanalysis, 2015, 21, 544-556.	0.4	25
80	Observing hydrogen in steel using cryogenic atom probe tomography: A simplified approach. International Journal of Hydrogen Energy, 2019, 44, 32280-32291.	7.1	25
81	Observation of internal oxidation in a 20% cold-worked Fe-17Cr-12Ni stainless steel through high-resolution characterization. Scripta Materialia, 2019, 173, 144-148.	5.2	25
82	Estimating the physical clusterâ€size distribution within materials using atomâ€probe. Microscopy Research and Technique, 2011, 74, 799-803.	2.2	24
83	The atomic structure of polar and non-polar InGaN quantum wells and the green gap problem. Ultramicroscopy, 2017, 176, 93-98.	1.9	24
84	Homogeneous nucleation of droplets from a supersaturated vapor phase. Journal of Chemical Physics, 2002, 117, 6705-6714.	3.0	23
85	Level Set Methods for Modelling Field Evaporation in Atom Probe. Microscopy and Microanalysis, 2013, 19, 1709-1717.	0.4	23
86	From solid solution to cluster formation of Fe and Cr in Î± -Zr. Journal of Nuclear Materials, 2015, 467, 320-331.	2.7	23
87	Detecting Clusters in Atom Probe Data with Gaussian Mixture Models. Microscopy and Microanalysis, 2017, 23, 269-278.	0.4	23
88	Theory of solute clustering in materials for atom probe. Philosophical Magazine, 2011, 91, 2200-2215.	1.6	22
89	The microstructure of non-polar a-plane (112Â¯0) InGaN quantum wells. Journal of Applied Physics, 2016, 119, .	2.5	22
90	Characterization of Phase Chemistry and Partitioning in a Family of High-Strength Nickel-Based Superalloys. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2018, 49, 2302-2310.	2.2	22

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91	Numerical study of the accuracy and efficiency of various approaches for Monte Carlo surface hopping calculations. Journal of Chemical Physics, 2005, 122, 094104.	3.0	20
92	Insights into microstructural interfaces in aerospace alloys characterised by atom probe tomography. Materials Science and Technology, 2016, 32, 232-241.	1.6	20
93	Single-Ion Deconvolution of Mass Peak Overlaps for Atom Probe Microscopy. Microscopy and Microanalysis, 2017, 23, 300-306.	0.4	20
94	Impact of local electrostatic field rearrangement on field ionization. Journal Physics D: Applied Physics, 2018, 51, 105601.	2.8	20
95	Restoring the lattice of Si-based atom probe reconstructions for enhanced information on dopant positioning. Ultramicroscopy, 2015, 159, 314-323.	1.9	19
96	A nexus between 3D atomistic data hybrids derived from atom probe microscopy and computational materials science: A new analysis of solute clustering in Al-alloys. Scripta Materialia, 2017, 131, 93-97.	5.2	19
97	The effect of boron on oxide scale formation in a new polycrystalline superalloy. Scripta Materialia, 2017, 127, 156-159.	5.2	19
98	Correlative atomic scale characterisation of secondary carbides in M50 bearing steel. Philosophical Magazine, 2018, 98, 766-782.	1.6	19
99	Imaging of radiation damage using complementary field ion microscopy and atom probe tomography. Ultramicroscopy, 2015, 159, 387-394.	1.9	18
100	Continuous and discontinuous precipitation in Fe-1 at.%Cr-1 at.%Mo alloy upon nitriding; crystal structure and composition of ternary nitrides. Philosophical Magazine, 2016, 96, 1509-1537.	1.6	18
101	Nanoscale Stoichiometric Analysis of a High-Temperature Superconductor by Atom Probe Tomography. Microscopy and Microanalysis, 2017, 23, 414-424.	0.4	18
102	Comparing the Consistency of Atom Probe Tomography Measurements of Small-Scale Segregation and Clustering Between the LEAP 3000 and LEAP 5000 Instruments. Microscopy and Microanalysis, 2017, 23, 227-237.	0.4	18
103	Understanding irradiation-induced nanoprecipitation in zirconium alloys using parallel TEM and APT. Journal of Nuclear Materials, 2018, 510, 460-471.	2.7	17
104	Nanoscale analysis of ion irradiated ODS 14YWT ferritic alloy. Journal of Nuclear Materials, 2020, 528, 151852.	2.7	17
105	Characterization of oxidation mechanisms in a family of polycrystalline chromia-forming nickel-base superalloys. Acta Materialia, 2021, 206, 116626.	7.9	17
106	Interaction of transmutation products with precipitates, dislocations and grain boundaries in neutron irradiated W. Materialia, 2022, 22, 101370.	2.7	17
107	Monte Carlo simulation methodology of the ghost interface theory for the planar surface tension. Journal of Chemical Physics, 2004, 120, 1892-1904.	3.0	16
108	Influence of the wavelength on the spatial resolution of pulsed-laser atom probe. Journal of Applied Physics, 2011, 110, .	2.5	16

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109	Automated Atom-By-Atom Three-Dimensional (3D) Reconstruction of Field Ion Microscopy Data. Microscopy and Microanalysis, 2017, 23, 255-268.	0.4	16
110	Partitioning of Ti and Kinetic Growth Predictions on the Thermally Grown Chromia Scale of a Polycrystalline Nickel-Based Superalloy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2019, 50, 3024-3029.	2.2	16
111	Overcoming challenges in the study of nitrided microalloyed steels using atom probe. Ultramicroscopy, 2012, 112, 32-38.	1.9	15
112	Nearest neighbour diagnostic statistics on the accuracy of APT solute cluster characterisation. Philosophical Magazine, 2013, 93, 975-989.	1.6	15
113	Effect of the milling atmosphere on the microstructure and mechanical properties of a ODS Fe-14Cr model alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 671, 264-274.	5.6	15
114	A multi-technique study of â€œbarrier layerâ€•nano-porosity in Zr oxides during corrosion and hydrogen pickup using (S)TEM, TKD, APT and NanoSIMS. Corrosion Science, 2019, 158, 108109.	6.6	15
115	Radiation-induced segregation in W-Re: from kinetic Monte Carlo simulations to atom probe tomography experiments. European Physical Journal B, 2019, 92, 1.	1.5	15
116	The Effects of Chemistry Variations in New Nickel-Based Superalloys for Industrial Gas Turbine Applications. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2020, 51, 4902-4921.	2.2	15
117	Quantifying the effect of oxygen on micro-mechanical properties of a near-alpha titanium alloy. Journal of Materials Research, 2021, 36, 2529-2544.	2.6	15
118	Towards model-driven reconstruction in atom probe tomography. Journal Physics D: Applied Physics, 2020, 53, 475303.	2.8	15
119	Secondary precipitation within the cementite phase of reactor pressure vessel steels. Scripta Materialia, 2016, 115, 118-122.	5.2	14
120	The Kinetics of Primary Alpha Plate Growth in Titanium Alloys. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2020, 51, 131-141.	2.2	14
121	The effect of composition variations on the response of steels subjected to high fluence neutron irradiation. Materialia, 2020, 11, 100717.	2.7	14
122	Structural and compositional analysis of (InGa)(AsSb)/GaAs/GaP Stranskiâ€“Krastanov quantum dots. Light: Science and Applications, 2021, 10, 125.	16.6	14
123	The role of Î²-Zr in a Zr-2.5Nb alloy during aqueous corrosion: A multi-technique study. Acta Materialia, 2021, 215, 117042.	7.9	14
124	Phase corrected higher-order expression for surface hopping transition amplitudes in nonadiabatic scattering problems. Journal of Chemical Physics, 2003, 119, 11048-11057.	3.0	13
125	Field evaporation behavior in [0 0 1] FePt thin films. Ultramicroscopy, 2011, 111, 512-517.	1.9	13
126	Understanding Corrosion and Hydrogen Pickup of Zirconium Fuel Cladding Alloys: The Role of Oxide Microstructure, Porosity, Suboxides, and Second-Phase Particles. , 2018, , 93-126.		13

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127	Globally uniform semiclassical surface-hopping wave function for nonadiabatic scattering. Journal of Chemical Physics, 2004, 120, 7383-7390.	3.0	12
128	On the understanding of the microscopic origin of the properties of diluted magnetic semiconductors by atom probe tomography. Journal of Magnetism and Magnetic Materials, 2009, 321, 935-943.	2.3	12
129	Applications of Spatial Distribution Maps for Advanced Atom Probe Reconstruction and Data Analysis. Microscopy and Microanalysis, 2009, 15, 246-247.	0.4	12
130	A combined approach for deposition and characterization of atomically engineered catalyst nanoparticles. Journal of Lithic Studies, 2015, 1, 125-131.	0.5	12
131	Fast modelling of field evaporation in atom probe tomography using level set methods. Journal Physics D: Applied Physics, 2019, 52, 435305.	2.8	12
132	Atom Probe Tomography Investigations of Microstructural Evolution in an Aged Nickel Superalloy for Exhaust Applications. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2019, 50, 1862-1872.	2.2	12
133	Specimen preparation methods for elemental characterisation of grain boundaries and isolated dislocations in multicrystalline silicon using atom probe tomography. Materials Characterization, 2017, 131, 472-479.	4.4	11
134	Validity of Vegardâ€™s rule for Al1â^'xInxN (0.08â€‰â€‰<â€‰â€‰xâ€‰â€‰<â€‰â€‰0.28) thin films grown on GaN templates. Physics D: Applied Physics, 2017, 50, 205107.	2.8	10
135	Microstructural and mechanical characterisation of Fe-14Cr-0.22Hf alloy fabricated by spark plasma sintering. Journal of Alloys and Compounds, 2018, 762, 678-687.	5.5	10
136	A Gas-Phase Reaction Cell for Modern Atom Probe Systems. Microscopy and Microanalysis, 2019, 25, 410-417.	0.4	10
137	Processing APT Spectral Backgrounds for Improved Quantification. Microscopy and Microanalysis, 2020, 26, 964-977.	0.4	10
138	Low-energy EDX â€“ A novel approach to study stress corrosion cracking in SUS304 stainless steel via scanning electron microscopy. Micron, 2014, 66, 16-22.	2.2	9
139	Extending continuum models for atom probe simulation. Materials Characterization, 2018, 146, 299-306.	4.4	9
140	Direct observation of hydrogen at defects in multicrystalline silicon. Progress in Photovoltaics: Research and Applications, 2021, 29, 1158-1164.	8.1	9
141	Atom Probe Tomography Study of Gettering in High-Performance Multicrystalline Silicon. IEEE Journal of Photovoltaics, 2020, 10, 863-871.	2.5	9
142	Tomographic Reconstruction in Atom Probe Microscopy: Past, Present.Â.Â. Future?. Microscopy and Microanalysis, 2009, 15, 10-11.	0.4	8
143	Interpreting Atom Probe Data from Oxideâ€“Metal Interfaces. Microscopy and Microanalysis, 2018, 24, 342-349.	0.4	8
144	The effect of hydrogen on the early stages of oxidation of a magnesium alloy. Corrosion Science, 2020, 165, 108391.	6.6	8

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145	Extending Estimating Hydrogen Content in Atom Probe Tomography Experiments Where H2 Molecule Formation Occurs. Microscopy and Microanalysis, 2022, 28, 1231-1244.	0.4	8
146	In-Situ Deuterium Charging for Direct Detection of Hydrogen in Vanadium by Atom Probe Tomography. Microscopy and Microanalysis, 2015, 21, 695-696.	0.4	7
147	Atom Probe Tomography of Auâ€“Cu Bimetallic Nanoparticles Synthesized by Inert Gas Condensation. Journal of Physical Chemistry C, 2019, 123, 26481-26489.	3.1	7
148	Using alpha hulls to automatically and reproducibly detect edge clusters in atom probe tomography datasets. Materials Characterization, 2020, 160, 110078.	4.4	7
149	A more holistic characterisation of internal interfaces in a variety of materials via complementary use of transmission Kikuchi diffraction and Atom probe tomography. Applied Surface Science, 2020, 528, 147011.	6.1	7
150	Analysis Techniques for Atom Probe Tomography. Springer Series in Materials Science, 2012, , 213-297.	0.6	7
151	On the influence of microstructure on the neutron irradiation response of HIPed SA508 steel for nuclear applications. Journal of Nuclear Materials, 2022, 559, 153435.	2.7	7
152	Optimisation of sample preparation and analysis conditions for atom probe tomography characterisation of low concentration surface species. Semiconductor Science and Technology, 2016, 31, 084004.	2.0	6
153	Atom Probe Analysis of Ex Situ Gas-Charged Stable Hydrides. Microscopy and Microanalysis, 2017, 23, 307-313.	0.4	6
154	DF-Fit: A Robust Algorithm for Detection of Crystallographic Information in Atom Probe Tomography Data. Microscopy and Microanalysis, 2019, 25, 331-337.	0.4	6
155	Characterisation of nano-scale precipitates in BOR60 irradiated T91 steel using atom probe tomography. Journal of Nuclear Materials, 2021, 543, 152466.	2.7	6
156	Nanocluster evolution and mechanical properties of ion irradiated T91 ferritic-martensitic steel. Journal of Nuclear Materials, 2021, 548, 152842.	2.7	6
157	Specimen Preparation. Springer Series in Materials Science, 2012, , 71-110.	0.6	6
158	Challenges Associated with the Characterisation of Nanocrystalline Materials Using Atom Probe Tomography. Materials Science Forum, 2010, 654-656, 2366-2369.	0.3	5
159	Spatial decomposition of molecular ions within 3D atom probe reconstructions. Ultramicroscopy, 2013, 132, 92-99.	1.9	5
160	High Fidelity Reconstruction of Experimental Field Ion Microscopy Data by Atomic Relaxation Simulations. Microscopy and Microanalysis, 2017, 23, 642-643.	0.4	5
161	Atom probe Tomography of fast-diffusing impurities and the effect of gettering in multicrystalline silicon. AIP Conference Proceedings, 2018, , .	0.4	5
162	Insight into the impact of atomic- and nano-scale indium distributions on the optical properties of InGaN/GaN quantum well structures grown on m-plane freestanding GaN substrates. Journal of Applied Physics, 2019, 125, 225704.	2.5	5

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163	Atom probe characterisation of segregation driven Cu and Mnâ€“Niâ€“Si co-precipitation in neutron irradiated T91 tempered-martensitic steel. Materialia, 2020, 14, 100946.	2.7	5
164	Atom Probe Tomography for Isotopic Analysis: Development of the 34S/32S System in Sulfides. Microscopy and Microanalysis, 2022, 28, 1127-1140.	0.4	5
165	Tracking Nanostructural Evolution in Alloys: Large-Scale Analysis of Atom Probe Tomography Data on Blue Gene/L. , 2008, , .		4
166	Electron microscopy and atom probe tomography of nanoindentation deformation in oxide dispersion strengthened steels. Materials Characterization, 2020, 167, 110477.	4.4	4
167	Tomographic Reconstruction. Springer Series in Materials Science, 2012, , 157-209.	0.6	4
168	Techniques for the Analysis of Clusters and Aggregations within Atom Probe Tomography. Microscopy and Microanalysis, 2006, 12, 1732-1733.	0.4	3
169	Identification of colloidal silica polishing induced contamination in silicon. Materials Characterization, 2019, 152, 239-244.	4.4	3
170	Atom Probe Tomography of a Cu-Doped TiNiSn Thermoelectric Material: Nanoscale Structure and Optimization of Analysis Conditions. Microscopy and Microanalysis, 2022, 28, 1340-1347.	0.4	3
171	From Field Desorption Microscopy to Atom Probe Tomography. Springer Series in Materials Science, 2012, , 29-68.	0.6	3
172	Automated calibration of model-driven reconstructions in atom probe tomography. Journal Physics D: Applied Physics, 2022, 55, 375301.	2.8	3
173	Nanoscale structural and chemical analysis of F-implanted enhancement-mode InAlN/GaN heterostructure field effect transistors. Journal of Applied Physics, 2018, 123, 024902.	2.5	2
174	Ex Situ and In Situ Studies of Radiation Damage Mechanisms in Zr-Nb Alloys. , 2021, , 408-434.		2
175	Improving the Quantification of Deuterium in Zirconium Alloy Atom Probe Tomography Data Using Existing Analysis Methods. Microscopy and Microanalysis, 2022, 28, 1245-1254.	0.4	2
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