

# Arun Devaraj

## List of Publications by Year in descending order

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134  
papers

4,696  
citations

159585

30  
h-index

106344

65  
g-index

138  
all docs

138  
docs citations

138  
times ranked

6096  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Review of Metastable Beta Titanium Alloys. <i>Metals</i> , 2018, 8, 506.	2.3	392
2	Outstanding radiation resistance of tungsten-based high-entropy alloys. <i>Science Advances</i> , 2019, 5, eaav2002.	10.3	360
3	Injection of oxygen vacancies in the bulk lattice of layered cathodes. <i>Nature Nanotechnology</i> , 2019, 14, 602-608.	31.5	321
4	Experimental evidence of concurrent compositional and structural instabilities leading to $\beta$ phase precipitation in titanium-molybdenum alloys. <i>Acta Materialia</i> , 2012, 60, 596-609.	7.9	248
5	Role of 4- <i>tert</i> -Butylpyridine as a Hole Transport Layer Morphological Controller in Perovskite Solar Cells. <i>Nano Letters</i> , 2016, 16, 5594-5600.	9.1	241
6	A low-cost hierarchical nanostructured beta-titanium alloy with high strength. <i>Nature Communications</i> , 2016, 7, 11176.	12.8	213
7	Molecular structure and stability of dissolved lithium polysulfide species. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 10923-10932.	2.8	210
8	Structure analysis of a precipitate phase in an Ni-rich high-temperature NiTiHf shape memory alloy. <i>Acta Materialia</i> , 2013, 61, 3335-3346.	7.9	138
9	Non-classical homogeneous precipitation mediated by compositional fluctuations in titanium alloys. <i>Acta Materialia</i> , 2012, 60, 6247-6256.	7.9	129
10	Role of Photoexcitation and Field Ionization in the Measurement of Accurate Oxide Stoichiometry by Laser-Assisted Atom Probe Tomography. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 993-998.	4.6	121
11	Three-dimensional nanoscale characterisation of materials by atom probe tomography. <i>International Materials Reviews</i> , 2018, 63, 68-101.	19.3	119
12	Novel Mixed-Mode Phase Transition Involving a Composition-Dependent Displacive Component. <i>Physical Review Letters</i> , 2011, 106, 245701.	7.8	113
13	Visualizing nanoscale 3D compositional fluctuation of lithium in advanced lithium-ion battery cathodes. <i>Nature Communications</i> , 2015, 6, 8014.	12.8	112
14	Transformation of Active Sites in Fe/SSZ-13 SCR Catalysts during Hydrothermal Aging: A Spectroscopic, Microscopic, and Kinetics Study. <i>ACS Catalysis</i> , 2017, 7, 2458-2470.	11.2	89
15	Grain boundary segregation and intermetallic precipitation in coarsening resistant nanocrystalline aluminum alloys. <i>Acta Materialia</i> , 2019, 165, 698-708.	7.9	88
16	Three-dimensional morphology and composition of omega precipitates in a binary titanium-molybdenum alloy. <i>Scripta Materialia</i> , 2009, 61, 701-704.	5.2	78
17	Identifying the Distribution of Al <sup>3+</sup> in LiNi <sub>0.8</sub> Co <sub>0.15</sub> Al <sub>0.05</sub> O <sub>2</sub> . <i>Chemistry of Materials</i> , 2016, 28, 8170-8180.	6.7	77
18	Phase separation and formation of omega phase in the beta matrix of a Ti-Cu alloy. <i>Acta Materialia</i> , 2011, 59, 2981-2991.	7.9	72

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19	Role of Calcination Temperature on the Hydrotalcite Derived MgO-Al <sub>2</sub> O <sub>3</sub> in Converting Ethanol to Butanol. <i>Topics in Catalysis</i> , 2016, 59, 46-54.	2.8	64
20	The limiting layer of fish scales: Structure and properties. <i>Acta Biomaterialia</i> , 2018, 67, 319-330.	8.3	53
21	Discerning the Location and Nature of Coke Deposition from Surface to Bulk of Spent Zeolite Catalysts. <i>Scientific Reports</i> , 2016, 6, 37586.	3.3	49
22	Reduced Magnetism in Core-Shell Magnetite@MOF Composites. <i>Nano Letters</i> , 2017, 17, 6968-6973.	9.1	47
23	Understanding Atom Probe Tomography of Oxide-Supported Metal Nanoparticles by Correlation with Atomic-Resolution Electron Microscopy and Field Evaporation Simulation. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 1361-1367.	4.6	46
24	Chemical short-range order in derivative Cr-Ta-V-W high entropy alloys from the first-principles thermodynamic study. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 23929-23951.	2.8	45
25	Grain boundary engineering to control the discontinuous precipitation in multicomponent U10Mo alloy. <i>Acta Materialia</i> , 2018, 151, 181-190.	7.9	43
26	Stress induced anisotropy in Co-rich magnetic nanocomposites for inductive applications. <i>Journal of Materials Research</i> , 2016, 31, 3089-3107.	2.6	37
27	Onset of High Methane Combustion Rates over Supported Palladium Catalysts: From Isolated Pd Cations to PdO Nanoparticles. <i>Jacs Au</i> , 2021, 1, 396-408.	7.9	37
28	Alpha phase precipitation from phase-separated beta phase in a model Ti-Mo-Al alloy studied by direct coupling of transmission electron microscopy and atom probe tomography. <i>Scripta Materialia</i> , 2013, 69, 513-516.	5.2	36
29	A review of the metastable omega phase in beta titanium alloys: the phase transformation mechanisms and its effect on mechanical properties. <i>International Materials Reviews</i> , 2023, 68, 26-45.	19.3	35
30	The natural armors of fish: A comparison of the lamination pattern and structure of scales. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2017, 73, 17-27.	3.1	34
31	New frontiers in atom probe tomography: a review of research enabled by cryo and/or vacuum transfer systems. <i>Materials Today Advances</i> , 2020, 7, 100090.	5.2	34
32	Conjugated precipitation of twin-related $\beta_2$ and Ti <sub>2</sub> Cu phases in a Ti-25V-3Cu alloy. <i>Acta Materialia</i> , 2015, 84, 457-471.	7.9	32
33	Resolving the degradation pathways in high-voltage oxides for high-energy-density lithium-ion batteries; Alternation in chemistry, composition and crystal structures. <i>Nano Energy</i> , 2017, 36, 76-84.	16.0	30
34	Extraction of rare earth elements using magnetite@MOF composites. <i>Journal of Materials Chemistry A</i> , 2018, 6, 18438-18443.	10.3	30
35	Competing Pathways for Nucleation of the Double Perovskite Structure in the Epitaxial Synthesis of La <sub>2</sub> MnNiO <sub>6</sub> . <i>Chemistry of Materials</i> , 2016, 28, 3814-3822.	6.7	29
36	Kinetics of cellular transformation and competing precipitation mechanisms during sub-eutectoid annealing of U10Mo alloys. <i>Journal of Alloys and Compounds</i> , 2017, 723, 757-771.	5.5	29

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37	Extreme shear-deformation-induced modification of defect structures and hierarchical microstructure in an Al–Si alloy. <i>Communications Materials</i> , 2020, 1, .	6.9	29
38	Phase separation in immiscible silver–copper alloy thin films. <i>Journal of Materials Science</i> , 2009, 44, 3393-3401.	3.7	28
39	Rapid Response High Temperature Oxygen Sensor Based on Titanium Doped Gallium Oxide. <i>Scientific Reports</i> , 2020, 10, 178.	3.3	28
40	Precipitation-site competition in duplex stainless steels: Cu clusters vs spinodal decomposition interfaces as nucleation sites during thermal aging. <i>Acta Materialia</i> , 2020, 196, 456-469.	7.9	27
41	A Mechanistic Understanding of Nonclassical Crystal Growth in Hydrothermally Synthesized Sodium Yttrium Fluoride Nanowires. <i>Chemistry of Materials</i> , 2020, 32, 2753-2763.	6.7	27
42	Laser assisted crystallization of ferromagnetic amorphous ribbons: A multimodal characterization and thermal model study. <i>Journal of Applied Physics</i> , 2013, 114, .	2.5	25
43	Multimodal characterization of solution-processed Cu <sub>3</sub> SbS <sub>4</sub> absorbers for thin film solar cells. <i>Journal of Materials Chemistry A</i> , 2018, 6, 8682-8692.	10.3	24
44	Phase transformation of metastable discontinuous precipitation products to equilibrium phases in U10Mo alloys. <i>Scripta Materialia</i> , 2018, 156, 70-74.	5.2	24
45	Subsurface synthesis and characterization of Ag nanoparticles embedded in MgO. <i>Nanotechnology</i> , 2013, 24, 095707.	2.6	23
46	Competing Martensitic, Bainitic, and Pearlitic Transformations in a Hypoeutectoid Ti-5Cu Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2011, 42, 1139-1143.	2.2	20
47	De-vitrification of nanoscale phase-separated amorphous thin films in the immiscible copper–niobium system. <i>Philosophical Magazine</i> , 2014, 94, 1622-1641.	1.6	20
48	Simulation of heterogeneous atom probe tip shapes evolution during field evaporation using a level set method and different evaporation models. <i>Computer Physics Communications</i> , 2015, 189, 106-113.	7.5	20
49	An image-driven machine learning approach to kinetic modeling of a discontinuous precipitation reaction. <i>Materials Characterization</i> , 2020, 166, 110379.	4.4	20
50	Effects of cooling rate on the microstructure and solute partitioning in near eutectoid Ti–Cu alloys. <i>Philosophical Magazine</i> , 2014, 94, 2350-2371.	1.6	19
51	The homogenous alternative to biomineralization: Zn- and Mn-rich materials enable sharp organismal tools that reduce force requirements. <i>Scientific Reports</i> , 2021, 11, 17481.	3.3	19
52	Effects of crystallographic properties on the ice nucleation properties of volcanic ash particles. <i>Geophysical Research Letters</i> , 2015, 42, 3048-3055.	4.0	18
53	Nanoscale Solute Partitioning and Carbide Precipitation in a Multiphase TRIP Steel Analyzed by Atom Probe Tomography. <i>Jom</i> , 2018, 70, 1752-1757.	1.9	18
54	Hydrogen isotopic analysis of nuclear reactor materials using ultrafast laser-induced breakdown spectroscopy. <i>Optics Express</i> , 2021, 29, 4936.	3.4	18

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55	Correlating work hardening with co-activation of stacking fault strengthening and transformation in a high entropy alloy using in-situ neutron diffraction. <i>Scientific Reports</i> , 2020, 10, 22263.	3.3	17
56	Nanomechanical scratching induced local shear deformation and microstructural evolution in single crystal copper. <i>Applied Surface Science</i> , 2021, 562, 150132.	6.1	17
57	Microstructure of multistage annealed nanocrystalline SmCo <sub>2</sub> Fe <sub>2</sub> B alloy with enhanced magnetic properties. <i>Journal of Applied Physics</i> , 2014, 115, .	2.5	16
58	Nanoscale Spatially Resolved Mapping of Uranium Enrichment. <i>Scientific Reports</i> , 2019, 9, 12302.	3.3	16
59	Study of the radiation damage effect on Titanium metastable beta alloy by high intensity proton beam. <i>Nuclear Materials and Energy</i> , 2018, 15, 169-174.	1.3	15
60	Nanoscale Perspectives of Metal Degradation via In Situ Atom Probe Tomography. <i>Topics in Catalysis</i> , 2020, 63, 1606-1622.	2.8	15
61	Neutron irradiation induced changes in isotopic abundance of <sup>6</sup> Li and 3D nanoscale distribution of tritium in LiAlO <sub>2</sub> pellets analyzed by atom probe tomography. <i>Materials Characterization</i> , 2021, 176, 111095.	4.4	15
62	Singlet-Oxygen Generation from Individual Semiconducting and Metallic Nanostructures during Near-Infrared Laser Trapping. <i>ACS Photonics</i> , 2015, 2, 559-564.	6.6	14
63	Co-dependent microstructural evolution pathways in metastable $\hat{\epsilon}$ -ferrite in cast austenitic stainless steels during thermal aging. <i>Journal of Nuclear Materials</i> , 2018, 510, 382-395.	2.7	14
64	Rapid assessment of structural and compositional changes during early stages of zirconium alloy oxidation. <i>Npj Materials Degradation</i> , 2020, 4, .	5.8	14
65	Lattice misorientation evolution and grain refinement in Al-Si alloys under high-strain shear deformation. <i>Materialia</i> , 2021, 18, 101146.	2.7	14
66	Molecular-scale investigation of the oxidation behavior of chromia-forming alloys in high-temperature CO <sub>2</sub> . <i>Npj Materials Degradation</i> , 2021, 5, .	5.8	13
67	Exchange bias and bistable magneto-resistance states in amorphous TbFeCo thin films. <i>Applied Physics Letters</i> , 2016, 108, .	3.3	12
68	Enhanced Catalyst Durability for Bio-Based Adipic Acid Production by Atomic Layer Deposition. <i>Joule</i> , 2019, 3, 2219-2240.	24.0	12
69	Detection of hydrogen isotopes in Zircaloy-4 via femtosecond LIBS. <i>Journal of Analytical Atomic Spectrometry</i> , 2021, 36, 1217-1227.	3.0	12
70	Crystallographic and compositional analysis of impurity phase U <sub>2</sub> MoSi <sub>2</sub> C in UMo alloys. <i>Journal of Nuclear Materials</i> , 2019, 519, 287-291.	2.7	11
71	Nanoscale phase separation in epitaxial Cr-Mo and Cr-V alloy thin films studied using atom probe tomography: Comparison of experiments and simulation. <i>Journal of Applied Physics</i> , 2014, 116, .	2.5	10
72	Radiation Tolerant Interfaces: Influence of Local Stoichiometry at the Misfit Dislocation on Radiation Damage Resistance of Metal/Oxide Interfaces. <i>Advanced Materials Interfaces</i> , 2017, 4, 1700037.	3.7	10

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73	Evaluating the microstructure and origin of nonmetallic inclusions in as-cast U-10Mo fuel. Journal of Nuclear Materials, 2021, 554, 152949.	2.7	10
74	Correlating nanoscale secondary ion mass spectrometry and atom probe tomography analysis of uranium enrichment in metallic nuclear fuel. Analyst, The, 2021, 146, 69-74.	3.5	10
75	Multimodal analysis of spatially heterogeneous microstructural refinement and softening mechanisms in three-pass friction stir processed Al-4Si alloy. Journal of Alloys and Compounds, 2021, 887, 161351.	5.5	9
76	Thermal stability and mechanical properties of cold-sprayed Nickel-Yttria coating. Scripta Materialia, 2022, 207, 114281.	5.2	9
77	Asymmetry of radiation damage properties in Al-Ti nanolayers. Journal of Nuclear Materials, 2014, 445, 261-271.	2.7	8
78	Atomic-scale structural evolution of Ta-Ni-Si amorphous metal thin films. Materials Letters, 2016, 164, 9-14.	2.6	8
79	Nanotwin assisted reversible formation of low angle grain boundary upon reciprocating shear load. Acta Materialia, 2022, 230, 117850.	7.9	8
80	Synergistic effects of iodine and silver ions co-implanted in 6H-SiC. Journal of Nuclear Materials, 2015, 467, 582-587.	2.7	7
81	Combined Synchrotron X-Ray Diffraction and Digital Image Correlation Technique for Measurement of Austenite Transformation with Strain in TRIP-Assisted Steels. , 0, , .		7
82	Laser-material interaction during atom probe tomography of oxides with embedded metal nanoparticles. Journal of Applied Physics, 2016, 120, .	2.5	7
83	Precipitates and voids in cubic silicon carbide implanted with 25Mg+ ions. Journal of Nuclear Materials, 2018, 498, 321-331.	2.7	7
84	Structure and radiation damage behavior of epitaxial Cr Mo alloy thin films on MgO. Journal of Nuclear Materials, 2013, 437, 55-61.	2.7	6
85	Onset of phase separation in the double perovskite oxide $\text{La}_{0.2}\text{Mn}_{0.8}\text{O}_{3-x}$ . Physical Review B, 2018, 97, .		6
86	Nanostructure and compositional segregation of soft magnetic FeNi-based nanocomposites with multiple nanocrystalline phases. Journal of Materials Research, 2021, 36, 105-113.	2.6	6
87	Mechanistic insights into selective oxidation and corrosion of multi-principal element alloys from high resolution and in situ microscopy. Materialia, 2021, 18, 101148.	2.7	6
88	Investigations of Omega Precipitation in Titanium Molybdenum Alloys by Coupling 3D Atom Probe Tomography and High Resolution (S)TEM. Microscopy and Microanalysis, 2009, 15, 268-269.	0.4	5
89	Impact of dynamic specimen shape evolution on the atom probe tomography results of doped epitaxial oxide multilayers: Comparison of experiment and simulation. Applied Physics Letters, 2015, 107, 091601.	3.3	5
90	Nanoscale Characterization of Li-ion Battery Cathode Nanoparticles by Atom Probe Tomography Correlated with Transmission Electron Microscopy and Scanning Transmission X-Ray Microscopy. Microscopy and Microanalysis, 2015, 21, 685-686.	0.4	5

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91	Discontinuous Precipitation in U-10wt.%Mo Alloy: Reaction Kinetics, Effect of Prior $\hat{3}$ -UMo Microstructure, the Role of Grain-Boundary Misorientation, and the Effect of Ternary Alloying Addition. <i>Jom</i> , 2019, 71, 2770-2779.	1.9	5
92	Phase transformations, microstructural refinement and defect evolution mechanisms in Al-Si alloys under non-hydrostatic diamond anvil cell compression. <i>Materialia</i> , 2021, 15, 101049.	2.7	5
93	Compositional partitioning during early stages of oxidation of a uranium-molybdenum alloy. <i>Scripta Materialia</i> , 2022, 212, 114528.	5.2	5
94	<i>In-situ</i> observation of deformation twin associated sub-grain boundary formation in copper single crystal under bending. <i>Materials Research Letters</i> , 2022, 10, 488-495.	8.7	5
95	Visualizing the Nanoscale Oxygen and Cation Transport Mechanisms during the Early Stages of Oxidation of Fe-Cr-Ni Alloy Using In Situ Atom Probe Tomography. <i>Advanced Materials Interfaces</i> , 2022, 9, .	3.7	5
96	Multimodal and in-situ Chemical Imaging of Critical Surfaces and Interfaces in Advanced Batteries. <i>Journal of Surface Analysis (Online)</i> , 2017, 24, 141-150.	0.1	4
97	Composition-Dependent Microstructure-Property Relationships of Fe and Al Modified Ti-12Cr (wt.%). <i>Jom</i> , 2019, 71, 2321-2330.	1.9	4
98	Metastable orientation relationships in thin film Cu-Cr bilayers. <i>Scripta Materialia</i> , 2021, 194, 113635.	5.2	4
99	Persistence of crystal orientations across sub-micron-scale $\hat{c}$ super-grains in self-organized Cu-W nanocomposites. <i>Scripta Materialia</i> , 2021, 194, 113677.	5.2	4
100	Multi-scale characterization of supersolidus liquid phase sintered H13 tool steel manufactured via binder jet additive manufacturing. <i>Additive Manufacturing</i> , 2022, , 102834.	3.0	4
101	Characterization of embedded metallic nanoparticles in oxides by cross-coupling aberration-corrected STEM and Atom Probe Tomography. <i>Microscopy and Microanalysis</i> , 2012, 18, 912-913.	0.4	3
102	Mass Balance and Atom Probe Tomography Characterization of Soft Magnetic (Fe <sub>65</sub> Co <sub>65</sub> ) <sub>79.5</sub> B <sub>13</sub> Si <sub>2</sub> Nanocomposites. <i>IEEE Transactions on Magnetics</i> , 2015, 51, 1-4.		
103	Pulsed Photothermal Heating of One-Dimensional Nanostructures. <i>Journal of Physical Chemistry C</i> , 2016, 120, 21730-21739.	3.1	3
104	Evolution of metastable phases during Mg metal corrosion: An <i>in situ</i> cryogenic x-ray photoelectron spectroscopy study. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2021, 39, .	2.1	3
105	In-situ radiation response of additively manufactured modified Inconel 718 alloys. <i>Additive Manufacturing</i> , 2022, 51, 102601.	3.0	3
106	Decoupling of strain and temperature effects on microstructural evolution during high shear strain deformation. <i>Materialia</i> , 2022, 22, 101402.	2.7	3
107	First-Principles Study of Tritium Trapping in $\hat{3}$ -LiAlO <sub>2</sub> Nanovoids. <i>Journal of Physical Chemistry C</i> , 2022, 126, 5767-5776.	3.1	3
108	Extended Shear Deformation of the Immiscible Cu-Nb Alloy Resulting in Nanostructuring and Oxygen Ingress with Enhancement in Mechanical Properties. <i>ACS Omega</i> , 2022, 7, 13721-13736.	3.5	3

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109	Atomic Elemental Tomography of Heavy Element Biomaterials. <i>Microscopy and Microanalysis</i> , 2017, 23, 680-681.	0.4	2
110	Carbonaceous deposits on aluminide coatings in tritium-producing assemblies. <i>Nuclear Materials and Energy</i> , 2020, 25, 100797.	1.3	2
111	Composition Analysis on the Precipitates in the NiTiHf and NiPdTiHf Alloys. <i>Microscopy and Microanalysis</i> , 2013, 19, 1518-1519.	0.4	1
112	Compositional and Chemical Segregation in Li <sub>1.2</sub> Ni <sub>0.2</sub> Mn <sub>0.6</sub> O <sub>2</sub> Cathode Materials Characterized by Atom Probe Tomography and Scanning Transmission X-ray Microscopy. <i>Microscopy and Microanalysis</i> , 2013, 19, 964-965.	0.4	1
113	Level Set Method for Tip Shape Evolution Simulation for Atom Probe Tomography. <i>Microscopy and Microanalysis</i> , 2015, 21, 841-842.	0.4	1
114	Multimodal Imaging of Cation Disorder and Oxygen Deficiency-Mediated Phase Separation in Double Perovskite Oxides. <i>Microscopy and Microanalysis</i> , 2017, 23, 1678-1679.	0.4	1
115	Exploring New Science Domains with Atom Probe Tomography Enabled by an Environmental Transfer Hub. <i>Microscopy and Microanalysis</i> , 2019, 25, 276-277.	0.4	1
116	Nanoscale Spatially Resolved Mapping of Uranium Enrichment in Actinide-Bearing Materials. <i>Microscopy and Microanalysis</i> , 2019, 25, 2518-2519.	0.4	1
117	Reply to Comment on "A Mechanistic Understanding of Nonclassical Crystal Growth in Hydrothermally Synthesized Sodium Yttrium Fluoride Nanowires". <i>Chemistry of Materials</i> , 2021, 33, 3862-3864.	6.7	1
118	3D Nanoscale Analysis of Protein-Mineral Nanoparticle Interfaces Using Atom Probe Tomography for Understanding Amelogenesis. <i>Microscopy and Microanalysis</i> , 2021, 27, 1268-1269.	0.4	1
119	Understanding the microstructural stability in a $\gamma$ -strengthened Ni-Fe-Cr-Al-Ti alloy. <i>Journal of Alloys and Compounds</i> , 2021, 886, 161207.	5.5	1
120	Controlling axial p-n heterojunction abruptness through catalyst alloying in vapor-liquid-solid grown semiconductor nanowires. <i>Microscopy and Microanalysis</i> , 2012, 18, 1860-1861.	0.4	0
121	Coupling Atom Probe Tomography with Aberration-Corrected Scanning Transmission Electron Microscopy and First-Principles Computations to Investigate Omega Precipitation in Titanium Alloys. <i>Microscopy and Microanalysis</i> , 2013, 19, 946-947.	0.4	0
122	A Level Set Evaporation Model for Heterogeneous Atom Probe Tip. <i>Microscopy and Microanalysis</i> , 2013, 19, 934-935.	0.4	0
123	Atom Probe Tomography Characterization of Engineered Oxide Multilayered Structures. <i>Microscopy and Microanalysis</i> , 2015, 21, 845-846.	0.4	0
124	Multidimensional Analysis of Nanoscale Phase Separation in Complex Materials Systems. <i>Microscopy and Microanalysis</i> , 2016, 22, 282-283.	0.4	0
125	Atom Probe Tomography and Correlative Microscopy: 3D Nanoscale Characterization of Metals, Minerals and Materials. <i>Jom</i> , 2018, 70, 1723-1724.	1.9	0
126	Direct Observation of Zirconium Alloy Oxidation at the Nanoscale. <i>Microscopy and Microanalysis</i> , 2019, 25, 318-319.	0.4	0



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127	Multimodal Atomic Scale Characterization of Structural and Compositional Changes During Shear Deformation of Materials. <i>Microscopy and Microanalysis</i> , 2019, 25, 2510-2511.	0.4	0
128	Influence of Composition and Structure on Measured H Concentration in beta-Ti Alloys via Atom Probe Tomography. <i>Microscopy and Microanalysis</i> , 2019, 25, 2542-2543.	0.4	0
129	In Situ Atom Probe Tomography Study of The Influence of Deformation on Early Stages of Oxidation of Fe18Cr10Ni Alloy. <i>Microscopy and Microanalysis</i> , 2021, 27, 986-988.	0.4	0
130	Shear-Deformation-Induced Modification of Defect Structures and Hierarchical Microstructures in Miscible and Immiscible Alloys. <i>Microscopy and Microanalysis</i> , 2021, 27, 3106-3108.	0.4	0
131	Development of the Operando Atom Probe: The Influence of the electric field on Fe oxidation. <i>Microscopy and Microanalysis</i> , 2021, 27, 1516-1517.	0.4	0
132	In-situ TEM observation of bending induced sub-grain boundary formation in copper single crystal. <i>Microscopy and Microanalysis</i> , 2021, 27, 3414-3415.	0.4	0
133	Phase Transformations, Microstructural Refinement and Defect Evolution Mechanisms in Al-Si Alloys Under Non-Hydrostatic Diamond Anvil Cell Compression. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
134	An Approach for the Microstructure-Sensitive Simulation of Shear-Induced Deformation and Recrystallization in Al-Si Alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2022, 53, 1450.	2.2	0