

Baptiste Gault

List of Publications by Year in descending order

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369
papers

15,884
citations

19608

61
h-index

26548

107
g-index

387
all docs

387
docs citations

387
times ranked

8697
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhanced strength and ductility in a high-entropy alloy via ordered oxygen complexes. <i>Nature</i> , 2018, 563, 546-550.	13.7	988
2	Ultrastrong steel via minimal lattice misfit and high-density nanoprecipitation. <i>Nature</i> , 2017, 544, 460-464.	13.7	843
3	Atom Probe Microscopy. Springer Series in Materials Science, 2012, , .	0.4	501
4	Hot cracking mechanism affecting a non-weldable Ni-based superalloy produced by selective electron Beam Melting. <i>Acta Materialia</i> , 2018, 142, 82-94.	3.8	344
5	Ultrastrong Medium-Entropy Single-Phase Alloys Designed via Severe Lattice Distortion. <i>Advanced Materials</i> , 2019, 31, e1807142.	11.1	301
6	Design of a femtosecond laser assisted tomographic atom probe. <i>Review of Scientific Instruments</i> , 2006, 77, 043705.	0.6	295
7	Interstitial atoms enable joint twinning and transformation induced plasticity in strong and ductile high-entropy alloys. <i>Scientific Reports</i> , 2017, 7, 40704.	1.6	279
8	High-strength Damascus steel by additive manufacturing. <i>Nature</i> , 2020, 582, 515-519.	13.7	260
9	Advances in the calibration of atom probe tomographic reconstruction. <i>Journal of Applied Physics</i> , 2009, 105, .	1.1	214
10	Advances in the reconstruction of atom probe tomography data. <i>Ultramicroscopy</i> , 2011, 111, 448-457.	0.8	209
11	Segregation assisted grain boundary precipitation in a model Al-Zn-Mg-Cu alloy. <i>Acta Materialia</i> , 2018, 156, 318-329.	3.8	189
12	Microstructural evolution during ageing of Al-Cu-Li alloys. <i>Acta Materialia</i> , 2014, 66, 199-208.	3.8	183
13	Strengthening and strain hardening mechanisms in a precipitation-hardened high-Mn lightweight steel. <i>Acta Materialia</i> , 2017, 140, 258-273.	3.8	179
14	Atomic-scale grain boundary engineering to overcome hot-cracking in additively-manufactured superalloys. <i>Acta Materialia</i> , 2019, 177, 209-221.	3.8	165
15	Atomic-scale insights into surface species of electrocatalysts in three dimensions. <i>Nature Catalysis</i> , 2018, 1, 300-305.	16.1	161
16	Atom probe crystallography. <i>Materials Today</i> , 2012, 15, 378-386.	8.3	158
17	Spatial Resolution in Atom Probe Tomography. <i>Microscopy and Microanalysis</i> , 2010, 16, 99-110.	0.2	153
18	Degradation of iridium oxides via oxygen evolution from the lattice: correlating atomic scale structure with reaction mechanisms. <i>Energy and Environmental Science</i> , 2019, 12, 3548-3555.	15.6	147

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19	Estimation of the Reconstruction Parameters for Atom Probe Tomography. <i>Microscopy and Microanalysis</i> , 2008, 14, 296-305.	0.2	143
20	Impact of directional walk on atom probe microanalysis. <i>Ultramicroscopy</i> , 2012, 113, 182-191.	0.8	135
21	The effect of chromium and cobalt segregation at dislocations on nickel-based superalloys. <i>Scripta Materialia</i> , 2018, 145, 76-80.	2.6	132
22	Atom probe tomography. <i>Nature Reviews Methods Primers</i> , 2021, 1, .	11.8	131
23	Behavior of molecules and molecular ions near a field emitter. <i>New Journal of Physics</i> , 2016, 18, 033031.	1.2	130
24	Qualification of the tomographic reconstruction in atom probe by advanced spatial distribution map techniques. <i>Ultramicroscopy</i> , 2009, 109, 815-824.	0.8	129
25	Reconstructing atom probe data: A review. <i>Ultramicroscopy</i> , 2013, 132, 19-30.	0.8	126
26	Atom probe tomography spatial reconstruction: Status and directions. <i>Current Opinion in Solid State and Materials Science</i> , 2013, 17, 236-247.	5.6	122
27	Current Challenges and Opportunities in Microstructure-Related Properties of Advanced High-Strength Steels. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2020, 51, 5517-5586.	1.1	115
28	Crack initiation mechanisms during very high cycle fatigue of Ni-based single crystal superalloys at high temperature. <i>Acta Materialia</i> , 2020, 188, 131-144.	3.8	112
29	Correlated field evaporation as seen by atom probe tomography. <i>Surface Science</i> , 2007, 601, 536-543.	0.8	110
30	Hydrogen trapping and embrittlement in high-strength Al alloys. <i>Nature</i> , 2022, 602, 437-441.	13.7	109
31	Revealing fracture mechanisms of medium manganese steels with and without delta-ferrite. <i>Acta Materialia</i> , 2019, 164, 683-696.	3.8	108
32	Segregation-driven grain boundary spinodal decomposition as a pathway for phase nucleation in a high-entropy alloy. <i>Acta Materialia</i> , 2019, 178, 1-9.	3.8	102
33	Phase nucleation through confined spinodal fluctuations at crystal defects evidenced in Fe-Mn alloys. <i>Nature Communications</i> , 2018, 9, 1137.	5.8	101
34	Unveiling the Re effect in Ni-based single crystal superalloys. <i>Nature Communications</i> , 2020, 11, 389.	5.8	101
35	On the multiplicity of field evaporation events in atom probe: A new dimension to the analysis of mass spectra. <i>Philosophical Magazine Letters</i> , 2010, 90, 121-129.	0.5	96
36	Atom probe tomography and transmission electron microscopy characterisation of precipitation in an Al-Cu-Mg-Ag alloy. <i>Ultramicroscopy</i> , 2011, 111, 683-689.	0.8	96

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37	On the diffusive phase transformation mechanism assisted by extended dislocations during creep of a single crystal CoNi-based superalloy. <i>Acta Materialia</i> , 2018, 155, 362-371.	3.8	89
38	Ti and its alloys as examples of cryogenic focused ion beam milling of environmentally-sensitive materials. <i>Nature Communications</i> , 2019, 10, 942.	5.8	89
39	Estimation of the tip field enhancement on a field emitter under laser illumination. <i>Applied Physics Letters</i> , 2005, 86, 094101.	1.5	84
40	On the effect of Re addition on microstructural evolution of a CoNi-based superalloy. <i>Acta Materialia</i> , 2019, 168, 37-51.	3.8	83
41	Metrology of small particles and solute clusters by atom probe tomography. <i>Acta Materialia</i> , 2020, 188, 406-415.	3.8	83
42	Chemical heterogeneity enhances hydrogen resistance in high-strength steels. <i>Nature Materials</i> , 2021, 20, 1629-1634.	13.3	83
43	Influence of surface migration on the spatial resolution of pulsed laser atom probe tomography. <i>Journal of Applied Physics</i> , 2010, 108, .	1.1	81
44	Characterizing solute hydrogen and hydrides in pure and alloyed titanium at the atomic scale. <i>Acta Materialia</i> , 2018, 150, 273-280.	3.8	81
45	Lattice Oxygen Exchange in Rutile IrO ₂ during the Oxygen Evolution Reaction. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 5008-5014.	2.1	81
46	Origin of the spatial resolution in atom probe microscopy. <i>Applied Physics Letters</i> , 2009, 95, 034103.	1.5	80
47	Some aspects of the field evaporation behaviour of GaSb. <i>Ultramicroscopy</i> , 2011, 111, 487-492.	0.8	77
48	On the origin of a remarkable increase in the strength and stability of an Al rich Al-Ni eutectic alloy by Zr addition. <i>Acta Materialia</i> , 2019, 170, 205-217.	3.8	77
49	On the formation of hierarchical microstructure in a Mo-doped NiCoCr medium-entropy alloy with enhanced strength-ductility synergy. <i>Scripta Materialia</i> , 2020, 175, 1-6.	2.6	75
50	Ag-Segregation to Dislocations in PbTe-Based Thermoelectric Materials. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 3609-3615.	4.0	74
51	Confined chemical and structural states at dislocations in Fe-9wt%Mn steels: A correlative TEM-atom probe study combined with multiscale modelling. <i>Acta Materialia</i> , 2017, 124, 305-315.	3.8	73
52	On the grain boundary strengthening effect of boron in γ -Co Cobalt-base superalloys. <i>Acta Materialia</i> , 2018, 145, 247-254.	3.8	73
53	Revealing nano-chemistry at lattice defects in thermoelectric materials using atom probe tomography. <i>Materials Today</i> , 2020, 32, 260-274.	8.3	73
54	Estimation of the cooling times for a metallic tip under laser illumination. <i>Applied Physics Letters</i> , 2006, 88, 094105.	1.5	72

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55	Dynamic reconstruction for atom probe tomography. <i>Ultramicroscopy</i> , 2011, 111, 1619-1624.	0.8	72
56	Toward a laser assisted wide-angle tomographic atom-probe. <i>Surface and Interface Analysis</i> , 2007, 39, 278-282.	0.8	71
57	Reactive wear protection through strong and deformable oxide nanocomposite surfaces. <i>Nature Communications</i> , 2021, 12, 5518.	5.8	70
58	Multi-scale characterization of austenite reversion and martensite recovery in a cold-rolled medium-Mn steel. <i>Acta Materialia</i> , 2019, 166, 512-530.	3.8	67
59	Microstructure formation and mechanical properties of ODS steels built by laser additive manufacturing of nanoparticle coated iron-chromium powders. <i>Acta Materialia</i> , 2021, 206, 116566.	3.8	67
60	Crystal-Glass High-Entropy Nanocomposites with Near Theoretical Compressive Strength and Large Deformability. <i>Advanced Materials</i> , 2020, 32, e2002619.	11.1	66
61	Atom probe microscopy investigation of Mg site occupancy within $\text{L}1_2$ precipitates in an Al-Mg-Li alloy. <i>Scripta Materialia</i> , 2012, 66, 903-906.	2.6	65
62	Strain-Induced Asymmetric Line Segregation at Faceted Si Grain Boundaries. <i>Physical Review Letters</i> , 2018, 121, 015702.	2.9	65
63	Elemental site occupancy in the L12 A3B ordered intermetallic phase in Co-based superalloys and its influence on the microstructure. <i>Acta Materialia</i> , 2019, 163, 140-153.	3.8	65
64	Elemental distribution in the martensite-austenite constituent in intercritically reheated coarse-grained heat-affected zone of a high-strength pipeline steel. <i>Scripta Materialia</i> , 2017, 139, 67-70.	2.6	64
65	Solute hydrogen and deuterium observed at the near atomic scale in high-strength steel. <i>Acta Materialia</i> , 2020, 188, 108-120.	3.8	64
66	Influence of composition and precipitation evolution on damage at grain boundaries in a crept polycrystalline Ni-based superalloy. <i>Acta Materialia</i> , 2019, 166, 158-167.	3.8	61
67	Influence of microstructure and atomic-scale chemistry on the direct reduction of iron ore with hydrogen at 700°C. <i>Acta Materialia</i> , 2021, 212, 116933.	3.8	61
68	Optimization of pulsed laser atom probe (PLAP) for the analysis of nanocomposite Ti-Si-N films. <i>Ultramicroscopy</i> , 2010, 110, 836-843.	0.8	60
69	Core-shell nanoparticle arrays double the strength of steel. <i>Scientific Reports</i> , 2017, 7, 42547.	1.6	60
70	Competition between formation of carbides and reversed austenite during tempering of a medium-manganese steel studied by thermodynamic-kinetic simulations and atom probe tomography. <i>Acta Materialia</i> , 2018, 147, 165-175.	3.8	60
71	Carbon redistribution in quenched and tempered lath martensite. <i>Acta Materialia</i> , 2021, 205, 116521.	3.8	60
72	On the detection of multiple events in atom probe tomography. <i>Ultramicroscopy</i> , 2018, 189, 54-60.	0.8	59

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73	Lattice Rectification in Atom Probe Tomography: Toward True Three-Dimensional Atomic Microscopy. <i>Microscopy and Microanalysis</i> , 2011, 17, 226-239.	0.2	58
74	Thermophysical and Mechanical Properties of Advanced Single Crystalline Co-base Superalloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2018, 49, 4099-4109.	1.1	58
75	Evidence of field evaporation assisted by nonlinear optical rectification induced by ultrafast laser. <i>Physical Review B</i> , 2006, 73, .	1.1	57
76	Atom probe crystallography: Atomic-scale 3-D orientation mapping. <i>Scripta Materialia</i> , 2012, 66, 907-910.	2.6	57
77	The Laplace Project: An integrated suite for preparing and transferring atom probe samples under cryogenic and UHV conditions. <i>PLoS ONE</i> , 2018, 13, e0209211.	1.1	57
78	High-rate superplasticity in an equiatomic medium-entropy VCoNi alloy enabled through dynamic recrystallization of a duplex microstructure of ordered phases. <i>Acta Materialia</i> , 2020, 194, 106-117.	3.8	57
79	Direct atomic insight into the role of dopants in phase-change materials. <i>Nature Communications</i> , 2019, 10, 3525.	5.8	56
80	Thermodynamics of grain boundary segregation, interfacial spinodal and their relevance for nucleation during solid-solid phase transitions. <i>Acta Materialia</i> , 2019, 168, 109-120.	3.8	56
81	Snoek-type damping performance in strong and ductile high-entropy alloys. <i>Science Advances</i> , 2020, 6, eaba7802.	4.7	56
82	Parameter free quantitative analysis of atom probe data by correlation functions: Application to the precipitation in Al-Zn-Mg-Cu. <i>Scripta Materialia</i> , 2018, 154, 106-110.	2.6	55
83	Electrostatic simulations of a local electrode atom probe: The dependence of tomographic reconstruction parameters on specimen and microscope geometry. <i>Ultramicroscopy</i> , 2013, 132, 107-113.	0.8	53
84	Atomically resolved tomography to directly inform simulations for structure-property relationships. <i>Nature Communications</i> , 2014, 5, 5501.	5.8	53
85	Why Tin Doping Enhances the Efficiency of Hematite Photoanodes for Water Splitting? The Full Picture. <i>Advanced Functional Materials</i> , 2018, 28, 1804472.	7.8	53
86	Nb-Mediated Grain Growth and Grain Boundary Engineering in Mg ₃ Sb ₂ -Based Thermoelectric Materials. <i>Advanced Functional Materials</i> , 2021, 31, 2100258.	7.8	53
87	Determination of the tip temperature in laser assisted atom-probe tomography using charge state distributions. <i>Journal of Applied Physics</i> , 2008, 104, .	1.1	52
88	Impact of laser pulsing on the reconstruction in an atom probe tomography. <i>Ultramicroscopy</i> , 2010, 110, 1215-1222.	0.8	51
89	Atom probe crystallography: Characterization of grain boundary orientation relationships in nanocrystalline aluminium. <i>Ultramicroscopy</i> , 2011, 111, 493-499.	0.8	51
90	Sodium enhances indium-gallium interdiffusion in copper indium gallium diselenide photovoltaic absorbers. <i>Nature Communications</i> , 2018, 9, 826.	5.8	51

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91	On the segregation of Re at dislocations in the γ' phase of Ni-based single crystal superalloys. <i>Materialia</i> , 2018, 4, 109-114.	1.3	51
92	Atomistic phase field chemomechanical modeling of dislocation-solute-precipitate interaction in Ni-Al-Co. <i>Acta Materialia</i> , 2019, 175, 250-261.	3.8	51
93	Beyond Solid Solution High-Entropy Alloys: Tailoring Magnetic Properties via Spinodal Decomposition. <i>Advanced Functional Materials</i> , 2021, 31, 2007668.	7.8	51
94	Substantially enhanced plasticity of bulk metallic glasses by densifying local atomic packing. <i>Nature Communications</i> , 2021, 12, 6582.	5.8	51
95	Mining information from atom probe data. <i>Ultramicroscopy</i> , 2015, 159, 324-337.	0.8	50
96	Investigation of an oxide layer by femtosecond-laser-assisted atom probe tomography. <i>Applied Physics Letters</i> , 2006, 88, 114101.	1.5	49
97	Microstructural degradation of polycrystalline superalloys from oxidized carbides and implications on crack initiation. <i>Scripta Materialia</i> , 2018, 147, 59-63.	2.6	49
98	Correlative Microscopy—Novel Methods and Their Applications to Explore 3D Chemistry and Structure of Nanoscale Lattice Defects: A Case Study in Superalloys. <i>Jom</i> , 2018, 70, 1736-1743.	0.9	49
99	Direct Observation of Local Potassium Variation and Its Correlation to Electronic Inhomogeneity in $\text{Ba}_{1-x}\text{Sr}_x\text{TiO}_3$. <i>Physical Review Letters</i> , 2011, 106, 247002.	2.9	48
100	Elemental segregation to antiphase boundaries in a crept CoNi-based single crystal superalloy. <i>Scripta Materialia</i> , 2018, 157, 62-66.	2.6	48
101	Multiscale analysis of grain boundary microstructure in high strength 7xxx Al alloys. <i>Acta Materialia</i> , 2021, 202, 190-210.	3.8	47
102	Multiscale investigations of nanoprecipitate nucleation, growth, and coarsening in annealed low-Cr oxide dispersion strengthened FeCrAl powder. <i>Acta Materialia</i> , 2019, 166, 1-17.	3.8	46
103	Sustainable steel through hydrogen plasma reduction of iron ore: Process, kinetics, microstructure, chemistry. <i>Acta Materialia</i> , 2021, 213, 116971.	3.8	46
104	On the atomic solute diffusional mechanisms during compressive creep deformation of a Co-Al-W-Ta single crystal superalloy. <i>Acta Materialia</i> , 2020, 184, 86-99.	3.8	45
105	Optimisation of mass ranging for atom probe microanalysis and application to the corrosion processes in Zr alloys. <i>Ultramicroscopy</i> , 2011, 111, 480-486.	0.8	44
106	Elemental partitioning and site-occupancy in γ -forming Co-Ti-Mo and Co-Ti-Cr alloys. <i>Scripta Materialia</i> , 2018, 154, 159-162.	2.6	44
107	Thermoelectric properties of n-type half-Heusler NbCoSn with heavy-element Pt substitution. <i>Journal of Materials Chemistry A</i> , 2020, 8, 14822-14828.	5.2	44
108	Hierarchical nature of hydrogen-based direct reduction of iron oxides. <i>Scripta Materialia</i> , 2022, 213, 114571.	2.6	43

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109	Synthesis and stabilization of a new phase regime in a Mo-Si-B based alloy by laser-based additive manufacturing. <i>Acta Materialia</i> , 2018, 151, 31-40.	3.8	42
110	Atomic-scale Mapping of Impurities in Partially Reduced Hollow TiO ₂ Nanowires. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 5651-5655.	7.2	42
111	Different Photostability of BiVO ₄ in Near-pH-Neutral Electrolytes. <i>ACS Applied Energy Materials</i> , 2020, 3, 9523-9527.	2.5	41
112	Enabling near-atomic-scale analysis of frozen water. <i>Science Advances</i> , 2020, 6, .	4.7	41
113	Nickel segregation on dislocation loops in implanted silicon. <i>Scripta Materialia</i> , 2011, 64, 378-381.	2.6	40
114	A New Approach to the Determination of Concentration Profiles in Atom Probe Tomography. <i>Microscopy and Microanalysis</i> , 2012, 18, 359-364.	0.2	40
115	On the roles of graphene oxide doping for enhanced supercurrent in MgB ₂ based superconductors. <i>Nanoscale</i> , 2014, 6, 6166-6172.	2.8	40
116	Atomic scale analysis of grain boundary deuteride growth front in Zircaloy-4. <i>Scripta Materialia</i> , 2018, 156, 42-46.	2.6	40
117	Atom probe tomography of reactor pressure vessel steels: An analysis of data integrity. <i>Ultramicroscopy</i> , 2011, 111, 676-682.	0.8	38
118	Conventional vs harmonic-structured β -Ti-25Nb-25Zr alloys: A comparative study of deformation mechanisms. <i>Acta Materialia</i> , 2018, 161, 420-430.	3.8	37
119	Reversion and re-aging of a peak aged Al-Zn-Mg-Cu alloy. <i>Scripta Materialia</i> , 2020, 188, 269-273.	2.6	37
120	High-resolution nanostructural investigation of Zn ₄ Sb ₃ alloys. <i>Scripta Materialia</i> , 2010, 63, 784-787.	2.6	36
121	Correlative transmission Kikuchi diffraction and atom probe tomography study of Cu(In,Ga)Se ₂ grain boundaries. <i>Progress in Photovoltaics: Research and Applications</i> , 2018, 26, 196-204.	4.4	36
122	Could face-centered cubic titanium in cold-rolled commercially-pure titanium only be a Ti-hydride?. <i>Scripta Materialia</i> , 2020, 178, 39-43.	2.6	36
123	Compositional nonuniformities in pulsed laser atom probe tomography analysis of compound semiconductors. <i>Journal of Applied Physics</i> , 2012, 111, 064908.	1.1	35
124	Interfaces and defect composition at the near-atomic scale through atom probe tomography investigations. <i>Journal of Materials Research</i> , 2018, 33, 4018-4030.	1.2	35
125	Investigation of Self-assembled Monolayer by Atom Probe Microscopy. <i>Microscopy and Microanalysis</i> , 2009, 15, 272-273.	0.2	34
126	A Weibull Perspective on the Fracture of Atom Probe Specimens. <i>Microscopy and Microanalysis</i> , 2013, 19, 996-997.	0.2	33

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127	Quantification Challenges for Atom Probe Tomography of Hydrogen and Deuterium in Zircaloy-4. <i>Microscopy and Microanalysis</i> , 2019, 25, 481-488.	0.2	33
128	Investigation of solute/interphase interaction during ferrite growth. <i>Acta Materialia</i> , 2017, 124, 536-543.	3.8	32
129	Phase separation in thick InGaN layers – A quantitative, nanoscale study by pulsed laser atom probe tomography. <i>Acta Materialia</i> , 2012, 60, 4277-4285.	3.8	31
130	Crystal structures of orthorhombic, hexagonal, and cubic compounds of the Sm(x)Yb(2x)TiO5 series. <i>Journal of Solid State Chemistry</i> , 2014, 213, 182-192.	1.4	31
131	Twins – A weak link in the magnetic hardening of ThMn12-type permanent magnets. <i>Acta Materialia</i> , 2021, 214, 116968.	3.8	31
132	Resolving the Morphology of Niobium Carbonitride Nano-Precipitates in Steel Using Atom Probe Tomography. <i>Microscopy and Microanalysis</i> , 2014, 20, 1100-1110.	0.2	30
133	The Role of Oxidized Carbides on Thermal-Mechanical Performance of Polycrystalline Superalloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2018, 49, 481-491.	1.1	30
134	Quasi-Fermi-Level Splitting of Cu -Poor and Cu -Rich $Fe_{1-x}Ni_x$ Nanowires. <i>ACS Applied Materials</i> , 2019, 12, 10000-10007.	1.5	30
135	In-situ synthesis via laser metal deposition of a lean $Cu-3.4Cr-0.6Nb$ (at%) conductive alloy hardened by Cr nano-scale precipitates and by Laves phase micro-particles. <i>Acta Materialia</i> , 2020, 197, 330-340.	3.8	30
136	Reflections on the Analysis of Interfaces and Grain Boundaries by Atom Probe Tomography. <i>Microscopy and Microanalysis</i> , 2020, 26, 247-257.	0.2	30
137	Precipitation formation on α^5 and α^7 grain boundaries in 316L stainless steel and their roles on intergranular corrosion. <i>Acta Materialia</i> , 2021, 210, 116822.	3.8	30
138	CALPHAD-informed phase-field modeling of grain boundary microchemistry and precipitation in Al-Zn-Mg-Cu alloys. <i>Acta Materialia</i> , 2021, 214, 116966.	3.8	30
139	Misorientation-dependent solute enrichment at interfaces and its contribution to defect formation mechanisms during laser additive manufacturing of superalloys. <i>Physical Review Materials</i> , 2019, 3, 033401.	0.9	30
140	Quantitative dopant distributions in GaAs nanowires using atom probe tomography. <i>Ultramicroscopy</i> , 2013, 132, 186-192.	0.8	29
141	Interpreting atom probe data from chromium oxide scales. <i>Ultramicroscopy</i> , 2015, 159, 354-359.	0.8	29
142	Reflections on the Projection of Ions in Atom Probe Tomography. <i>Microscopy and Microanalysis</i> , 2017, 23, 238-246.	0.2	29
143	Segregation-assisted spinodal and transient spinodal phase separation at grain boundaries. <i>Npj Computational Materials</i> , 2020, 6, 1-10.	3.5	29
144	On the rhenium segregation at the low angle grain boundary in a single crystal Ni-base superalloy. <i>Scripta Materialia</i> , 2020, 185, 88-93.	2.6	29

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145	Enhanced creep performance in a polycrystalline superalloy driven by atomic-scale phase transformation along planar faults. <i>Acta Materialia</i> , 2021, 202, 232-242.	3.8	29
146	Massive interstitial solid solution alloys achieve near-theoretical strength. <i>Nature Communications</i> , 2022, 13, 1102.	5.8	29
147	Atom Probe Microscopy of Self-Assembled Monolayers: Preliminary Results. <i>Langmuir</i> , 2010, 26, 5291-5294.	1.6	28
148	Cluster hardening in Al-3Mg triggered by small Cu additions. <i>Acta Materialia</i> , 2018, 161, 12-20.	3.8	28
149	(Al, Zn) ₃ Zr dispersoids assisted δ -phase precipitation in an Al-Zn-Mg-Cu-Zr alloy. <i>Materialia</i> , 2020, 10, 100641.	1.3	28
150	Effect of interface dislocations on mass flow during high temperature and low stress creep of single crystal Ni-base superalloys. <i>Scripta Materialia</i> , 2021, 191, 23-28.	2.6	28
151	Grain boundary segregation and its implications regarding the formation of the grain boundary δ phase in the metastable β -Titanium Ti-5Al-5Mo-5V-3Cr alloy. <i>Scripta Materialia</i> , 2022, 207, 114320.	2.6	28
152	Microstructural investigation of Ti-Si-N hard coatings. <i>Scripta Materialia</i> , 2010, 63, 192-195.	2.6	27
153	A new systematic framework for crystallographic analysis of atom probe data. <i>Ultramicroscopy</i> , 2015, 154, 7-14.	0.8	27
154	Atom probe tomography analysis of the reference zircon gj-1: An interlaboratory study. <i>Chemical Geology</i> , 2018, 495, 27-35.	1.4	27
155	Martensite to austenite reversion in a high-Mn steel: Partitioning-dependent two-stage kinetics revealed by atom probe tomography, in-situ magnetic measurements and simulation. <i>Acta Materialia</i> , 2019, 166, 178-191.	3.8	27
156	Control of thermally stable core-shell nano-precipitates in additively manufactured Al-Sc-Zr alloys. <i>Additive Manufacturing</i> , 2020, 32, 100910.	1.7	27
157	Mechanisms of austenite growth during intercritical annealing in medium manganese steels. <i>Scripta Materialia</i> , 2022, 206, 114228.	2.6	27
158	Additive manufacturing of CMSX-4 Ni-base superalloy by selective laser melting: Influence of processing parameters and heat treatment. <i>Additive Manufacturing</i> , 2019, 30, 100874.	1.7	26
159	Quantification of solute deuterium in titanium deuteride by atom probe tomography with both laser pulsing and high-voltage pulsing: influence of the surface electric field. <i>New Journal of Physics</i> , 2019, 21, 053025.	1.2	26
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