

# Simon P Ringer

## List of Publications by Year in descending order

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514  
papers

24,127  
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7568

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521  
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521  
docs citations

521  
times ranked

19381  
citing authors

#	ARTICLE	IF	CITATIONS
1	Atom Probe Analysis of a Zr-based Bulk Metallic Glass. <i>Microscopy and Microanalysis</i> , 2022, 28, 1348-1358.	0.4	1
2	Correlation between precipitates evolution and mechanical properties of Al-Sc-Zr alloy with Er additions. <i>Journal of Materials Science and Technology</i> , 2022, 99, 61-72.	10.7	32
3	Atom probe specimen preparation methods for nanoparticles. <i>Ultramicroscopy</i> , 2022, 233, 113420.	1.9	2
4	Room-temperature-deformation-induced chemical short-range ordering in a supersaturated ultrafine-grained Al-Zn alloy. <i>Scripta Materialia</i> , 2022, 210, 114423.	5.2	16
5	Effects of thermal annealing on the distribution of boron and phosphorus in p-i-n structured silicon nanocrystals embedded in silicon dioxide. <i>Nanotechnology</i> , 2022, 33, 075709.	2.6	5
6	On the mechanism of Mn partitioning during intercritical annealing in medium Mn steels. <i>Acta Materialia</i> , 2022, 225, 117601.	7.9	32
7	Giant room temperature compression and bending in ferroelectric oxide pillars. <i>Nature Communications</i> , 2022, 13, 335.	12.8	14
8	Atomic and Molecular Hydrogen Impurities in Hybrid Perovskite Solar Cells. <i>Journal of Physical Chemistry C</i> , 2022, 126, 1721-1728.	3.1	7
9	Evolution of microstructure and mechanical properties in 2205 duplex stainless steels during additive manufacturing and heat treatment. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 835, 142695.	5.6	53
10	Development of ASAT as a Concept. , 2022, , 40-52.		0
11	Instrumentation for ASAT. , 2022, , 98-124.		0
12	The Nexus between ASAT and Density Functional Theory. , 2022, , 201-221.		0
13	Implications, Applications, and the Future of ASAT. , 2022, , 222-235.		0
14	Practical ASAT. , 2022, , 125-144.		0
15	How ASAT Might Be Achieved. , 2022, , 77-97.		0
16	Experimental Metrics for ASAT. , 2022, , 160-198.		0
17	History of Atomic-Scale Microscopy. , 2022, , 11-39.		0
18	Advanced structural analysis of a laser additive manufactured Zr-based bulk metallic glass along the build height. <i>Journal of Materials Science</i> , 2022, 57, 9678-9692.	3.7	12

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19	The Need for ASAT. , 2022, , 3-10.		0
20	Has ASAT Been Achieved?. , 2022, , 55-76.		0
21	Toward Real-Space Crystallography. , 2022, , 145-159.		0
22	Minimizing and Controlling Hydrogen for Highly Efficient Formamidinium Lead Triiodide Solar Cells. Journal of the American Chemical Society, 2022, 144, 6770-6778.	13.7	10
23	Advanced quantification of the site-occupancy in ordered multi-component intermetallics using atom probe tomography. Intermetallics, 2022, 145, 107538.	3.9	3
24	The segregation of transition metals to iron grain boundaries and their effects on cohesion. Acta Materialia, 2022, 231, 117902.	7.9	26
25	Merits of Pr <sub>80</sub> Ga <sub>20</sub> grain boundary diffusion process towards high coercivity's remanence synergy of Nd-La-Ce-Fe-B sintered magnet. Acta Materialia, 2022, 231, 117873.	7.9	18
26	On the microstructure and texture evolution in 17-4 PH stainless steel during laser powder bed fusion: Towards textural design. Journal of Materials Science and Technology, 2022, 117, 183-195.	10.7	23
27	Deformation-induced medium-range order changes in bulk metallic glasses. Physical Review Materials, 2022, 6, .	2.4	4
28	Hydrogen-Induced Nonradiative Recombination in All-Inorganic CsPb <sub>3</sub> Perovskite Solar Cells. Solar Rrl, 2022, 6, .	5.8	6
29	Microstructure and properties of CoCrFeNi-based multi-principal element alloys containing C and Sc. Journal of Materials Science, 2022, 57, 9442-9453.	3.7	2
30	Formation of a transition V-rich structure during the $\hat{1}\pm'$ to $\hat{1}\pm\hat{A}+\hat{A}^2$ phase transformation process in additively manufactured Ti-6Al-4 V. Acta Materialia, 2022, 235, 118104.	7.9	22
31	Temperature-dependent-composition of $\hat{1}$ phase in an Al-Zn-Mg-Cu alloy under high pressure torsion: Kinetics and thermodynamics. Acta Materialia, 2022, 237, 118181.	7.9	6
32	Intergranular precipitation and chemical fluctuations in an additively manufactured 2205 duplex stainless steel. Scripta Materialia, 2022, 219, 114894.	5.2	10
33	Evidence of in-situ Cu clustering as a function of laser power during laser powder bed fusion of 17 $\hat{A}$ <sup>4</sup> PH stainless steel. Scripta Materialia, 2022, 219, 114896.	5.2	9
34	Ultrahigh transverse rupture strength in tungsten-based nanocomposites with minimal lattice misfit and dual microstructure. International Journal of Refractory Metals and Hard Materials, 2021, 95, 105454.	3.8	2
35	Design of solute clustering during thermomechanical processing of AA6016 Al-Mg-Si alloy. Acta Materialia, 2021, 203, 116455.	7.9	71
36	Atom Probe Tomography of Encapsulated Hydroxyapatite Nanoparticles. Small Methods, 2021, 5, e2000692.	8.6	8



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55	Microstructure-property gradients in Ni-based superalloy (Inconel 738) additively manufactured via electron beam powder bed fusion. Additive Manufacturing, 2021, 46, 102121.	3.0	9
56	Compositional variations in equiatomic CrMnFeCoNi high-entropy alloys. Materials Characterization, 2021, 180, 111437.	4.4	11
57	Formation and 3D morphology of interconnected $\hat{\pm}$ microstructures in additively manufactured Ti-6Al-4V. Materialia, 2021, 20, 101201.	2.7	7
58	Integrative Atom Probe Tomography Using Scanning Transmission Electron Microscopy-Centric Atom Placement as a Step Toward Atomic-Scale Tomography. Microscopy and Microanalysis, 2021, 27, 140-148.	0.4	8
59	Defects Engineering Induced Ultrahigh Magnetization in Rare Earth Element Nd-doped $\text{MoS}_2$ . Advanced Quantum Technologies, 2021, 4, 2000093.	3.9	19
60	Hydrogen-Anion-Induced Carrier Recombination in MAPb <sub>3</sub> Perovskite Solar Cells. Journal of Physical Chemistry Letters, 2021, 12, 10677-10683.	4.6	12
61	On the pitting corrosion of 2205 duplex stainless steel produced by laser powder bed fusion additive manufacturing in the as-built and post-processed conditions. Materials and Design, 2021, 212, 110260.	7.0	24
62	Intragranular glass/crystal conjugated particles in strip cast Nd-Fe-B flakes. Journal of Magnetism and Magnetic Materials, 2020, 495, 165863.	2.3	2
63	Microalloying effects of Mo versus Cr in HSLA steels with ultrafine-grained ferrite microstructures. Materials and Design, 2020, 185, 108278.	7.0	20
64	High mobility in $\hat{\pm}$ -phosphorene isostructures with low deformation potential. Physical Chemistry Chemical Physics, 2020, 22, 2276-2282.	2.8	20
65	Nanoscale pathways for human tooth decay – Central planar defect, organic-rich precipitate and high-angle grain boundary. Biomaterials, 2020, 235, 119748.	11.4	26
66	Quantifying the nucleation effect of correlated matrix grains in sintered Nd-Fe-B permanent magnets. Journal of Magnetism and Magnetic Materials, 2020, 498, 166099.	2.3	6
67	Effect of scanning strategy on variant selection in additively manufactured Ti-6Al-4V. Additive Manufacturing, 2020, 36, 101581.	3.0	13
68	A comparison of the dry sliding wear of single-phase f.c.c. carbon-doped Fe <sub>40.4</sub> Ni <sub>11.3</sub> Mn <sub>34.8</sub> Al <sub>7.5</sub> Cr <sub>6</sub> and CoCrFeMnNi high entropy alloys with 316 stainless steel. Materials Characterization, 2020, 170, 110693.	4.4	16
69	Giant tuning of ferroelectricity in single crystals by thickness engineering. Science Advances, 2020, 6, .	10.3	38
70	3D electron backscatter diffraction study of $\hat{\pm}$ lath morphology in additively manufactured Ti-6Al-4V. Ultramicroscopy, 2020, 218, 113073.	1.9	25
71	Effect of cyclic rapid thermal loadings on the microstructural evolution of a CrMnFeCoNi high-entropy alloy manufactured by selective laser melting. Acta Materialia, 2020, 196, 609-625.	7.9	89
72	Atomic scale insights into the segregation/partitioning behaviour in as-sintered multi-main-phase Nd-Ce-Fe-B permanent magnets. Journal of Alloys and Compounds, 2020, 846, 156248.	5.5	14

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73	Five-parameter characterization of intervariant boundaries in additively manufactured Ti-6Al-4V. <i>Materials and Design</i> , 2020, 196, 109177.	7.0	29
74	Colossal Magnetization and Giant Coercivity in Ion-Implanted (Nb and Co) MoS <sub>2</sub> Crystals. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 58140-58148.	8.0	22
75	The role of graphite addition on spark plasma sintered titanium nitride. <i>Journal of Materials Research and Technology</i> , 2020, 9, 6268-6277.	5.8	11
76	Multimodal $\gamma$ precipitation in Inconel-738 Ni-based superalloy during electron-beam powder bed fusion additive manufacturing. <i>Journal of Materials Science</i> , 2020, 55, 13342-13350.	3.7	31
77	3D microstructure analysis of silicon-boron phosphide mixed nanocrystals. <i>Nanoscale</i> , 2020, 12, 7256-7262.	5.6	3
78	An observation of the binder microstructure in WC-(Co+Ru) cemented carbides using transmission Kikuchi diffraction. <i>Scripta Materialia</i> , 2020, 183, 55-60.	5.2	16
79	On the early stages of precipitation during direct ageing of Alloy 718. <i>Acta Materialia</i> , 2020, 188, 492-503.	7.9	58
80	On the formation of spherical metastable BCC single crystal spatter particles during laser powder bed fusion. <i>Materialia</i> , 2020, 9, 100584.	2.7	8
81	Microstructural characterization and mechanical behaviours of TiN-graphite composites fabricated by spark plasma sintering. <i>International Journal of Refractory Metals and Hard Materials</i> , 2020, 91, 105253.	3.8	9
82	Enhanced strength-plasticity combination in an Al-Cu-Mg alloy atomic scale microstructure regulation and strengthening mechanisms. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 787, 139447.	5.6	35
83	Mechanical properties of ultrathin gold nanowires from first principles: Interdependencies between size, morphology, and twin boundaries. <i>Physical Review Materials</i> , 2020, 4, .	2.4	5
84	Interpreting the Simplified Multicomponent Short-Range Order Parameter. <i>Microscopy and Microanalysis</i> , 2019, 25, 332-333.	0.4	0
85	Graded Microstructure of Additive Manufactured Ti-6Al-4V via Electron Beam Melting. <i>Microscopy and Microanalysis</i> , 2019, 25, 498-499.	0.4	0
86	Rationalization of Thermo-Mechanical Instabilities in Transient Additive Manufacturing of Ni-based Superalloys. <i>Microscopy and Microanalysis</i> , 2019, 25, 2638-2639.	0.4	0
87	Sintering of binderless TiN and TiCN-based cermet for toughness applications: Processing techniques and mechanical properties: A review. <i>Ceramics International</i> , 2019, 45, 21077-21090.	4.8	50
88	Recent Developments in APT Analysis Automation and Support for User-Defined Custom Analysis Procedures in IVAS 4. <i>Microscopy and Microanalysis</i> , 2019, 25, 338-339.	0.4	4
89	Effect of Cyclic Thermal Loadings on the Microstructural Evolution of a Cantor Alloy in 3D Printing Processes. <i>Microscopy and Microanalysis</i> , 2019, 25, 2568-2569.	0.4	2
90	Improving Spatial Accuracy in Atom Probe Tomography through a Crystallography-Mediated Reconstruction (CMR). <i>Microscopy and Microanalysis</i> , 2019, 25, 292-293.	0.4	0

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91	Confinement-Induced Giant Spin-Orbit-Coupled Magnetic Moment of Co Nanoclusters in TiO <sub>2</sub> Films. ACS Applied Materials & Interfaces, 2019, 11, 43781-43788.	8.0	8
92	Distribution of boron and phosphorus and roles of co-doping in colloidal silicon nanocrystals. Acta Materialia, 2019, 178, 186-193.	7.9	12
93	Segregation of the major alloying elements to Al <sub>3</sub> (Sc,Zr) precipitates in an Al-Zn-Mg-Cu-Sc-Zr alloy. Materials Characterization, 2019, 157, 109898.	4.4	33
94	Negative Poisson's ratio in 2D life-boat structured crystals. Nanoscale Advances, 2019, 1, 1117-1123.	4.6	13
95	Correlative study of lattice imperfections in long-range ordered, nano-scale domains in a Fe-Co-Mo alloy. Ultramicroscopy, 2019, 204, 91-100.	1.9	5
96	Assessing the Spatial Accuracy of the Reconstruction in Atom Probe Tomography and a New Calibratable Adaptive Reconstruction. Microscopy and Microanalysis, 2019, 25, 309-319.	0.4	10
97	Influence of trace Zr on the microstructure and elevated temperature properties of an Al-Si-Cu-Ni-Mg piston alloy. Materials Research Express, 2019, 6, 056544.	1.6	5
98	Introducing a Crystallography-Mediated Reconstruction (CMR) Approach to Atom Probe Tomography. Microscopy and Microanalysis, 2019, 25, 288-300.	0.4	6
99	Precipitation strengthening in an ultralight magnesium alloy. Nature Communications, 2019, 10, 1003.	12.8	88
100	Quantitative Determination of How Growth Conditions Affect the 3D Composition of InGaAs Nanowires. Microscopy and Microanalysis, 2019, 25, 524-531.	0.4	1
101	What should the density of amorphous solids be?. Journal of Chemical Physics, 2019, 151, 194506.	3.0	20
102	Non-destructive analysis on nano-textured surface of the vertical LED for light enhancement. Ultramicroscopy, 2019, 196, 1-9.	1.9	4
103	Strain-Engineered Ultrahigh Mobility in Phosphorene for Terahertz Transistors. Advanced Electronic Materials, 2019, 5, 1800797.	5.1	17
104	Attractive-domain-wall-pinning controlled Sm-Co magnets overcome the coercivity-remanence trade-off. Acta Materialia, 2019, 164, 196-206.	7.9	87
105	Dynamic precipitation, segregation and strengthening of an Al-Zn-Mg-Cu alloy (AA7075) processed by high-pressure torsion. Acta Materialia, 2019, 162, 19-32.	7.9	166
106	On the retrieval of crystallographic information from atom probe microscopy data via signal mapping from the detector coordinate space. Ultramicroscopy, 2018, 189, 65-75.	1.9	14
107	Stress-induced reversible and irreversible ferroelectric domain switching. Applied Physics Letters, 2018, 112, .	3.3	15
108	Activity at the surface. Nature Materials, 2018, 17, 10-12.	27.5	5

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109	Crystal Facet Effects on Nanomagnetism of Co <sub>3</sub> O <sub>4</sub> . ACS Applied Materials & Interfaces, 2018, 10, 19235-19247.	8.0	47
110	Defining the Potential of Nanoscale Re <sup>187</sup> Os Isotope Systematics Using Atom Probe Microscopy. Geostandards and Geoanalytical Research, 2018, 42, 279-299.	3.1	13
111	Microscopic origin of highly enhanced supercurrent in 122 pnictide superconductor. Journal of Alloys and Compounds, 2018, 754, 1-6.	5.5	3
112	On the role of twinning and stacking faults on the crystal plasticity and grain refinement in magnesium alloys. Acta Materialia, 2018, 144, 365-375.	7.9	127
113	On the nexus between atom probe microscopy and density functional theory simulations. Materials Characterization, 2018, 146, 347-358.	4.4	19
114	An initial report on achieving high comprehensive performance in an Al-Mg-Si alloy via novel thermomechanical processing. Journal of Alloys and Compounds, 2018, 764, 679-683.	5.5	17
115	On conventional versus direct ageing of Alloy 718. Acta Materialia, 2018, 156, 116-124.	7.9	81
116	Identification and modulation of electronic band structures of single-phase $\hat{2}$ -(Al <sub>x</sub> Ga <sub>1-x</sub> ) <sub>2</sub> O <sub>3</sub> alloys grown by laser molecular beam epitaxy. Applied Physics Letters, 2018, 113, .	3.3	43
117	Grain size stabilization of mechanically alloyed nanocrystalline Fe-Zr alloys by forming highly dispersed coherent Fe-Zr-O nanoclusters. Acta Materialia, 2018, 158, 340-353.	7.9	41
118	The role of vacancies in electric field mediated graphene oxide reduction. Applied Physics Letters, 2018, 113, .	3.3	3
119	Coercivity degradation caused by inhomogeneous grain boundaries in sintered Nd-Fe-B permanent magnets. Physical Review Materials, 2018, 2, .	2.4	3
120	The effects of microalloying on the precipitate microstructure at grain boundary regions in an Mg-Zn-based alloy. Materials and Design, 2017, 119, 290-296.	7.0	29
121	Facilitation of Ferroelectric Switching via Mechanical Manipulation of Hierarchical Nanoscale Domain Structures. Physical Review Letters, 2017, 118, 017601.	7.8	41
122	Iron in solution with aluminum matrix after non-equilibrium processing: an atom probe tomography study. Philosophical Magazine Letters, 2017, 97, 118-124.	1.2	7
123	Si-induced precipitation modification and related age-hardening response of an Al <sup>4</sup> Mg <sup>1</sup> Cu <sup>0.5</sup> Si alloy. Materials Chemistry and Physics, 2017, 193, 421-426.	4.0	8
124	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
125	3D Atomic-Scale Insights into Anisotropic Core-Shell-Structured InGaAs Nanowires Grown by Metal-Organic Chemical Vapor Deposition. Advanced Materials, 2017, 29, 1701888.	21.0	15
126	Grain size quantification by optical microscopy, electron backscatter diffraction, and magnetic force microscopy. Micron, 2017, 101, 41-47.	2.2	19



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127	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
128	Effect of sample orientation and initial microstructures on the dynamic recrystallization of a Magnesium alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 691, 150-154.	5.6	27
129	Correlating Atom Probe Crystallographic Measurements with Transmission Kikuchi Diffraction Data. <i>Microscopy and Microanalysis</i> , 2017, 23, 279-290.	0.4	46
130	Atom probe tomography of size-controlled phosphorus doped silicon nanocrystals. <i>Physica Status Solidi - Rapid Research Letters</i> , 2017, 11, 1600376.	2.4	10
131	Magnetic, electrochemical and thermoelectric properties of $\text{P}_{2-2x}\text{Si}_x$		

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145	Manipulation of Nanoscale Domain Switching Using an Electron Beam with Omnidirectional Electric Field Distribution. <i>Physical Review Letters</i> , 2016, 117, 027601.	7.8	35
146	Breaking the icosahedra in boron carbide. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 12012-12016.	7.1	31
147	Quantitative measurement for the microstructural parameters of nano-precipitates in Al-Mg-Si-Cu alloys. <i>Materials Characterization</i> , 2016, 118, 352-362.	4.4	41
148	New insights into the phase transformations to isothermal $\beta$ and $\beta'$ -assisted $\beta$ in near $\beta$ -Ti alloys. <i>Acta Materialia</i> , 2016, 106, 353-366.	7.9	155
149	Precipitation behaviors of cubic and tetragonal Zr-rich phase in Al-(Si)Zr alloys. <i>Journal of Alloys and Compounds</i> , 2016, 674, 125-130.	5.5	41
150	Precipitation processes in Al-Cu-Mg-Sn and Al-Cu-Mg-Sn-Ag. <i>Materials and Design</i> , 2016, 96, 385-391.	7.0	21
151	Effect of a High Density of Stacking Faults on the Young's Modulus of GaAs Nanowires. <i>Nano Letters</i> , 2016, 16, 1911-1916.	9.1	61
152	Microstructural evolution, strengthening and thermal stability of an ultrafine-grained Al-Cu-Mg alloy. <i>Acta Materialia</i> , 2016, 109, 202-212.	7.9	163
153	B2-O-05 Have a Good TRIP: Atom Probe Investigations on Ultrafine Austenite in Strong Steels. <i>Microscopy (Oxford, England)</i> , 2015, 64, i49.1-i49.	1.5	0
154	Strengthening of an Al-Cu-Mg alloy processed by high-pressure torsion due to clusters, defects and defect-cluster complexes. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 627, 10-20.	5.6	70
155	Atom probe study of chromium oxide spinels formed during intergranular corrosion. <i>Scripta Materialia</i> , 2015, 99, 1-4.	5.2	30
156	Grain boundary formation by remnant dislocations from the de-twinning of thin nano-twins. <i>Scripta Materialia</i> , 2015, 100, 98-101.	5.2	58
157	Atom probe tomography investigation of heterogeneous short-range ordering in the $\epsilon$ -complex phase state (K-state) of Fe-18Al (at.%). <i>Intermetallics</i> , 2015, 64, 23-31.	3.9	18
158	Microscopic unravelling of nano-carbon doping in MgB <sub>2</sub> superconductors fabricated by diffusion method. <i>Journal of Alloys and Compounds</i> , 2015, 644, 900-905.	5.5	17
159	Quantitative chemical-structure evaluation using atom probe tomography: Short-range order analysis of Fe-Al. <i>Ultramicroscopy</i> , 2015, 157, 12-20.	1.9	26
160	Mining information from atom probe data. <i>Ultramicroscopy</i> , 2015, 159, 324-337.	1.9	50
161	Methodology exploration of specimen preparation for atom probe tomography from nanowires. <i>Ultramicroscopy</i> , 2015, 159, 427-431.	1.9	6
162	Determination of Young's Modulus of Ultrathin Nanomaterials. <i>Nano Letters</i> , 2015, 15, 5279-5283.	9.1	44

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163	A new systematic framework for crystallographic analysis of atom probe data. <i>Ultramicroscopy</i> , 2015, 154, 7-14.	1.9	27
164	Characterisation of nano-grains in MgB <sub>2</sub> superconductors by transmission Kikuchi diffraction. <i>Scripta Materialia</i> , 2015, 101, 36-39.	5.2	15
165	Low temperature bainitic ferrite: Evidence of carbon super-saturation and tetragonality. <i>Acta Materialia</i> , 2015, 91, 162-173.	7.9	94
166	Performance modulation of $\hat{\Gamma}$ -MnO <sub>2</sub> nanowires by crystal facet engineering. <i>Scientific Reports</i> , 2015, 5, 8987.	3.3	88
167	Enhancement of the catalytic performance of a CNT supported Pt nanorod cluster catalyst by controlling their microstructure. <i>RSC Advances</i> , 2015, 5, 80176-80183.	3.6	3
168	In-situ synthesis of Ag nanoparticles by electron beam irradiation. <i>Materials Characterization</i> , 2015, 110, 1-4.	4.4	15
169	Atomic-scale tomography of semiconductor nanowires. <i>Materials Science in Semiconductor Processing</i> , 2015, 40, 896-909.	4.0	7
170	New approaches to nanoparticle sample fabrication for atom probe tomography. <i>Ultramicroscopy</i> , 2015, 159, 413-419.	1.9	56
171	Restoring the lattice of Si-based atom probe reconstructions for enhanced information on dopant positioning. <i>Ultramicroscopy</i> , 2015, 159, 314-323.	1.9	19
172	Detecting and extracting clusters in atom probe data: A simple, automated method using Voronoi cells. <i>Ultramicroscopy</i> , 2015, 150, 30-36.	1.9	44
173	Interpretation of the vacancy-ordering controlled growth morphology of Hg <sub>5</sub> In <sub>2</sub> Te <sub>8</sub> precipitates in Hg <sub>3</sub> In <sub>2</sub> Te <sub>6</sub> single crystals by TEM observation and crystallographic calculation. <i>Journal of Alloys and Compounds</i> , 2015, 622, 206-212.	5.5	8
174	Mechanisms for enhanced plasticity in magnesium alloys. <i>Acta Materialia</i> , 2015, 82, 344-355.	7.9	119
175	Role of stress-assisted martensite in the design of strong ultrafine-grained duplex steels. <i>Acta Materialia</i> , 2015, 82, 100-114.	7.9	146
176	On the universality of Suzuki segregation in binary Mg alloys from first principles. <i>Journal of Alloys and Compounds</i> , 2015, 620, 38-41.	5.5	21
177	Deformation-induced phase transformation in 4H $\hat{\Gamma}$ -SiC nanopillars. <i>Acta Materialia</i> , 2014, 80, 392-399.	7.9	16
178	Atomic-scale observation of parallel development of super elasticity and reversible plasticity in GaAs nanowires. <i>Applied Physics Letters</i> , 2014, 104, .	3.3	26
179	Atomistic structure of Cu-containing $\hat{\Gamma}$ <sub>2</sub> $\hat{\Gamma}$ <sup>3</sup> precipitates in an Al $\hat{\Gamma}$ -Mg $\hat{\Gamma}$ -Si $\hat{\Gamma}$ -Cu alloy. <i>Scripta Materialia</i> , 2014, 75, 86-89.	5.2	63
180	Effect of niobium clustering and precipitation on strength of an NbTi-microalloyed ferritic steel. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 607, 226-235.	5.6	36

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181	Twinning via the motion of incoherent twin boundaries nucleated at grain boundaries in a nanocrystalline Cu alloy. <i>Scripta Materialia</i> , 2014, 72-73, 35-38.	5.2	35
182	Martensitic transformation in an intergranular corrosion area of austenitic stainless steel during thermal cycling. <i>Corrosion Science</i> , 2014, 85, 1-6.	6.6	28
183	Networking strategies of the microscopy community for improved utilisation of advanced instruments: (1) The Australian Microscopy and Microanalysis Research Facility (AMMRF). <i>Comptes Rendus Physique</i> , 2014, 15, 269-275.	0.9	5
184	Effect of austenite deformation temperature on Nb clustering and precipitation in microalloyed steel. <i>Scripta Materialia</i> , 2014, 75, 74-77.	5.2	34
185	An automated method of quantifying ferrite microstructures using electron backscatter diffraction (EBSD) data. <i>Ultramicroscopy</i> , 2014, 137, 40-47.	1.9	54
186	Strength, grain refinement and solute nanostructures of an Al-Mg-Si alloy (AA6060) processed by high-pressure torsion. <i>Acta Materialia</i> , 2014, 63, 169-179.	7.9	123
187	Concurrent microstructural evolution of ferrite and austenite in a duplex stainless steel processed by high-pressure torsion. <i>Acta Materialia</i> , 2014, 63, 16-29.	7.9	90
188	Atomically resolved tomography to directly inform simulations for structure-property relationships. <i>Nature Communications</i> , 2014, 5, 5501.	12.8	53
189	An inverse analysis approach based on a POD direct model for the mechanical characterization of metallic materials. <i>Computational Materials Science</i> , 2014, 95, 302-308.	3.0	18
190	Microscopy and microanalysis of complex nanosized strengthening precipitates in new generation commercial Al-Cu-Li alloys. <i>Journal of Microscopy</i> , 2014, 255, 128-137.	1.8	28
191	Ultrahigh-strength submicron-sized metallic glass wires. <i>Scripta Materialia</i> , 2014, 84-85, 27-30.	5.2	17
192	Point-by-point compositional analysis for atom probe tomography. <i>MethodsX</i> , 2014, 1, 12-18.	1.6	17
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