

Emmanuelle A. Marquis

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

167
papers

6,744
citations

42
h-index

79
g-index

174
ext. papers

7,551
ext. citations

4.2
avg, IF

6.16
L-index

#	Paper	IF	Citations
167	Role of oxygen on the precipitation and deformation behavior of an aged α -Ti-15Mo alloy. <i>Journal of Alloys and Compounds</i> , 2022 , 891, 161811	5.7	0
166	Effect of dose rate on the phase stability of a CrFeNiMn alloy. <i>Scripta Materialia</i> , 2022 , 215, 114697	5.6	0
165	AlO Grain Boundary Segregation in a Thermal Barrier Coating on a Ni-Based Superalloy.. <i>Microscopy and Microanalysis</i> , 2022 , 1-10	0.5	
164	Effects of Minor Alloying Elements on Alumina Transformation During the Transient Oxidation of ENiAl. <i>Oxidation of Metals</i> , 2021 , 95, 293-309	1.6	4
163	Atom probe tomography characterization of ion and neutron irradiated Alloy 800H. <i>Journal of Nuclear Materials</i> , 2021 , 543, 152598	3.3	1
162	Multiphase Phase-Field Approach for Virtual Melting: A Brief Review. <i>Material Science Research India</i> , 2021 , 18, 102-107	1	
161	Precipitation in proton- and ion-irradiated Alloy 625 Plus. <i>Journal of Nuclear Materials</i> , 2021 , 553, 153040	3.3	0
160	Perspectives on multiscale modelling and experiments to accelerate materials development for fusion. <i>Journal of Nuclear Materials</i> , 2021 , 554, 153113	3.3	7
159	Enhanced work hardening from oxygen-stabilized β precipitates in an aged metastable α -Ti-Nb alloy. <i>Acta Materialia</i> , 2021 , 220, 117302	8.4	2
158	Oxygen-induced refinement of β precipitates in an aged metastable α -Ti-15-333 alloy. <i>Scripta Materialia</i> , 2021 , 205, 114206	5.6	1
157	Localized corrosion at nm-scale hardening precipitates in Al-Cu-Li alloys. <i>Acta Materialia</i> , 2020 , 189, 204-213	8.1	17
156	Morphological classification of dense objects in atom probe tomography data. <i>Ultramicroscopy</i> , 2020 , 215, 112996	3.1	3
155	Quantification of Solute Topology in Atom Probe Tomography Data: Application to the Microstructure of a Proton-Irradiated Alloy 625. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2020 , 51, 42-50	2.3	1
154	Microstructure response of ferritic/martensitic steel HT9 after neutron irradiation: Effect of temperature. <i>Journal of Nuclear Materials</i> , 2020 , 528, 151845	3.3	13
153	Microstructural Responses of Alloy 625 and Alloy 625 Plus Under Ion and Proton Irradiations. <i>Jom</i> , 2020 , 72, 2993-3002	2.1	2
152	Full Ab-Initio Simulation of Field Evaporation of Samples with Grain Boundaries. <i>Microscopy and Microanalysis</i> , 2020 , 26, 2878-2879	0.5	
151	Atomistic-Simulation Based Modeling of Atom Probe Tomography. <i>Microscopy and Microanalysis</i> , 2019 , 25, 284-285	0.5	

150	Microstructure response of ferritic/martensitic steel HT9 after neutron irradiation: effect of dose. <i>Journal of Nuclear Materials</i> , 2019 , 523, 421-433	3.3	16
149	The Effect of Ti on the Early Stages of Oxidation of an Alumina-Forming NiCrAl Alloy. <i>Oxidation of Metals</i> , 2019 , 92, 13-26	1.6	2
148	Microstructural changes and their effect on hardening in neutron irradiated Fe-Cr alloys. <i>Journal of Nuclear Materials</i> , 2019 , 519, 274-286	3.3	15
147	Atom Probe Tomography Interlaboratory Study on Clustering Analysis in Experimental Data Using the Maximum Separation Distance Approach. <i>Microscopy and Microanalysis</i> , 2019 , 25, 356-366	0.5	18
146	Precipitation behavior of Alloy 625 and Alloy 625 plus. <i>Journal of Alloys and Compounds</i> , 2019 , 811, 1519-1526	3.6	10
145	Oxygen effects on β and β' phase transformations in a metastable TiNb alloy. <i>Acta Materialia</i> , 2019 , 181, 367-376	8.4	21
144	On the Use of Density-Based Algorithms for the Analysis of Solute Clustering in Atom Probe Tomography Data. <i>Minerals, Metals and Materials Series</i> , 2019 , 2097-2113	0.3	3
143	Solute Clustering in As-irradiated and Post-irradiation-Annealed 304 Stainless Steel. <i>Minerals, Metals and Materials Series</i> , 2019 , 2189-2207	0.3	
142	Hierarchical density-based cluster analysis framework for atom probe tomography data. <i>Ultramicroscopy</i> , 2019 , 200, 28-38	3.1	20
141	Interpreting the Presence of an Additional Oxide Layer in Analysis of Metal Oxides/Metal Interfaces in Atom Probe Tomography. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 1313-1319	3.8	4
140	Stability and strain-driven evolution of β' precipitate in Mg-Y alloys. <i>Acta Materialia</i> , 2019 , 166, 148-157	8.4	34
139	Flux effects in precipitation under irradiation Simulation of Fe-Cr alloys. <i>Acta Materialia</i> , 2019 , 164, 586-601	8.4	32
138	On β' precipitate composition in thermally annealed and neutron-irradiated Fe- 9-18Cr alloys. <i>Journal of Nuclear Materials</i> , 2018 , 500, 192-198	3.3	39
137	Deformation behavior of β' and β'' precipitates in Mg-RE alloys. <i>Materials Letters</i> , 2018 , 216, 67-69	3.3	39
136	Sensitization and Stress Corrosion Crack Response of Dual Certified Type 304/304L Stainless Steel. <i>Corrosion</i> , 2018 , 74, 737-746	1.8	1
135	The Role of Stoichiometry on Ordering Phase Transformations in NiCr Alloys for Nuclear Applications. <i>Minerals, Metals and Materials Series</i> , 2018 , 251-259	0.3	
134	STEM and APT characterization of scale formation on a La,Hf,Ti-doped NiCrAl model alloy. <i>Micron</i> , 2018 , 109, 41-52	2.3	14
133	On the Use of Density-Based Algorithms for the Analysis of Solute Clustering in Atom Probe Tomography Data. <i>Minerals, Metals and Materials Series</i> , 2018 , 881-897	0.3	

132	Solute Clustering in As-irradiated and Post-irradiation-Annealed 304 Stainless Steel. <i>Minerals, Metals and Materials Series</i> , 2018 , 973-991	0.3	
131	Dose rate dependence of Cr precipitation in an ion-irradiated Fe 18Cr alloy. <i>Scripta Materialia</i> , 2018 , 146, 213-217	5.6	36
130	Data on the early oxidation of SiO-coated pure Ti and bulk TiSi at 800 °C. <i>Data in Brief</i> , 2018 , 20, 1263-1268	6.8	1
129	Influence of surface relaxation on solute atoms positioning within atom probe tomography reconstructions. <i>Materials Characterization</i> , 2018 , 146, 324-335	3.9	14
128	Early oxidation behavior of Si-coated titanium. <i>Corrosion Science</i> , 2018 , 140, 297-306	6.8	12
127	The role of surface deformation in the oxidation response of type 304 SS in high temperature deaerated water. <i>Corrosion Science</i> , 2018 , 141, 88-96	6.8	13
126	Influence of a silicon-bearing film on the early stage oxidation of pure titanium. <i>Journal of Materials Science</i> , 2017 , 52, 9884-9894	4.3	1
125	The effect of Ni:Co ratio on the elemental phase partitioning in γ -Ni-Co-Al-Ti-Cr alloys. <i>Acta Materialia</i> , 2017 , 131, 296-304	8.4	31
124	Microstructure of localized corrosion front on Mg alloys and the relationship with hydrogen evolution. <i>Corrosion Science</i> , 2017 , 128, 253-264	6.8	15
123	Understanding Corrosion of 304 Stainless Steels Using Atom Probe Tomography. <i>Microscopy and Microanalysis</i> , 2017 , 23, 2206-2207	0.5	
122	Misfit-driven η precipitate composition and morphology in Mg-Nd alloys. <i>Acta Materialia</i> , 2017 , 136, 378-389	8.4	26
121	Early precipitate morphologies in Mg-Nd-(Zr) alloys. <i>Scripta Materialia</i> , 2017 , 128, 14-17	5.6	27
120	Coupling Molecular Dynamics and Finite Element Simulations to Investigate the Nearest Neighbor Dependence of Field Evaporation. <i>Microscopy and Microanalysis</i> , 2017 , 23, 646-647	0.5	1
119	An Atom Probe Tomography Study of Ni-Cr-Al-Ti High Temperature Oxidation. <i>Microscopy and Microanalysis</i> , 2017 , 23, 722-723	0.5	
118	Precipitation in an Irradiated 625 Plus Alloy. <i>Microscopy and Microanalysis</i> , 2017 , 23, 2256-2257	0.5	
117	Aging Behavior of Mg Alloys Containing Nd and Y. <i>Minerals, Metals and Materials Series</i> , 2017 , 349-352	0.3	3
116	Three-dimensional imaging of shear bands in bulk metallic glass composites. <i>Journal of Microscopy</i> , 2016 , 264, 304-310	1.9	9
115	Towards an understanding of tensile deformation in Ti-based bulk metallic glass matrix composites with BCC dendrites. <i>Scientific Reports</i> , 2016 , 6, 22563	4.9	43

114	Microstructure and Chemistry of Electrodeposited Mg Films. <i>Journal of the Electrochemical Society</i> , 2016 , 163, D645-D650	3.9	3
113	Multi-scale Characterization of Oxidized Zirconium Alloys. <i>Microscopy and Microanalysis</i> , 2016 , 22, 1496-1497	0.5	4
112	Anodic Hydrogen Evolution and Localized Corrosion during Galvanostatic Polarization of a Peak-Aged Mg-Y-Nd-Zr Alloy. <i>Journal of the Electrochemical Society</i> , 2016 , 163, C402-C409	3.9	5
111	On the early stages of precipitation in dilute MgNd alloys. <i>Acta Materialia</i> , 2016 , 108, 367-379	8.4	85
110	The Structure of η and η' in an Aged Mg-Nd Alloy 2016 , 151-154		
109	On Growth and Chemistry of Electrodeposited Mg Layers with Electrolytes Having Varying Cl Content for Battery Application. <i>Microscopy and Microanalysis</i> , 2016 , 22, 1302-1303	0.5	
108	Field Evaporation Behavior of Metal Oxide/Metal Interfaces. <i>Microscopy and Microanalysis</i> , 2016 , 22, 678-679	0.5	
107	Oxide Scales Revealed by Atom Probe Tomography.. <i>Microscopy and Microanalysis</i> , 2016 , 22, 656-657	0.5	1
106	A Round Robin Experiment: Analysis of Solute Clustering from Atom Probe Tomography Data.. <i>Microscopy and Microanalysis</i> , 2016 , 22, 666-667	0.5	11
105	The Materials Commons: A Collaboration Platform and Information Repository for the Global Materials Community. <i>Jom</i> , 2016 , 68, 2035-2044	2.1	44
104	EELS and atom probe tomography study of the evolution of the metal/oxide interface during zirconium alloy oxidation. <i>Journal of Nuclear Materials</i> , 2015 , 462, 304-309	3.3	36
103	Exposing the sub-surface of historical daguerreotypes and the effects of sulfur-induced corrosion. <i>Corrosion Science</i> , 2015 , 94, 438-444	6.8	18
102	Linking the microstructure of a heat-treated WE43 Mg alloy with its corrosion behavior. <i>Corrosion Science</i> , 2015 , 101, 94-104	6.8	63
101	Atomic Scale Investigation of Orthopyroxene and Olivine Grain Boundaries by Atom Probe Tomography. <i>Microscopy and Microanalysis</i> , 2015 , 21, 1315-1316	0.5	5
100	Effects of the local structure dependence of evaporation fields on field evaporation behavior. <i>Applied Physics Letters</i> , 2015 , 107, 241602	3.4	14
99	Integrated APT/t-EBSD for Grain Boundary Analysis of Thermally Grown Oxide on a Ni-Based Superalloy. <i>Microscopy and Microanalysis</i> , 2015 , 21, 687-688	0.5	8
98	Microscopic Characterization of Electrodeposited Mg Layers for Battery Application. <i>Microscopy and Microanalysis</i> , 2015 , 21, 335-336	0.5	
97	Clustering and Radiation Induced Segregation in Neutron Irradiated Fe-(3-18)Cr Alloys. <i>Microscopy and Microanalysis</i> , 2015 , 21, 581-582	0.5	

96	Chemistry and morphology of η precipitates in an aged Mg-Nd-Y-Zr alloy. <i>Philosophical Magazine Letters</i> , 2015 , 95, 7-13	1	11
95	Microchemical and microstructural evolution of AISI 304 stainless steel irradiated in EBR-II at PWR-relevant dpa rates. <i>Journal of Nuclear Materials</i> , 2015 , 467, 692-702	3-3	25
94	Atom probe tomography applied to the analysis of irradiated microstructures. <i>Journal of Materials Research</i> , 2015 , 30, 1222-1230	2.5	15
93	Oxide dispersion strengthened Fe-2Cr steel in three dimensions: An electron tomography study. <i>Journal of Nuclear Materials</i> , 2014 , 444, 416-420	3-3	3
92	Microstructural changes in a neutron-irradiated Fe-5 at.%Cr alloy. <i>Journal of Nuclear Materials</i> , 2014 , 454, 381-386	3-3	44
91	η precipitation in neutron-irradiated Fe-Cr alloys. <i>Scripta Materialia</i> , 2014 , 74, 48-51	5.6	113
90	Quantitative atom probe tomography characterization of microstructures in a proton irradiated 304 stainless steel. <i>Journal of Nuclear Materials</i> , 2014 , 451, 130-136	3-3	58
89	Interfacial Solute Segregation in the Thermally Grown Oxide of Thermal Barrier Coating Structures. <i>Oxidation of Metals</i> , 2014 , 82, 457-467	1.6	15
88	Microstructural changes in a neutron-irradiated Fe-8 at.%Cr alloy. <i>Journal of Nuclear Materials</i> , 2014 , 453, 334-339	3-3	55
87	Radiation-induced Ostwald ripening in oxide dispersion strengthened ferritic steels irradiated at high ion dose. <i>Acta Materialia</i> , 2014 , 78, 328-340	8.4	82
86	On the current role of atom probe tomography in materials characterization and materials science. <i>Current Opinion in Solid State and Materials Science</i> , 2013 , 17, 217-223	12	47
85	Quantifying the composition of yttrium and oxygen rich nanoparticles in oxide dispersion strengthened steels. <i>Ultramicroscopy</i> , 2013 , 125, 10-7	3-1	28
84	Defining clusters in APT reconstructions of ODS steels. <i>Ultramicroscopy</i> , 2013 , 132, 271-8	3-1	54
83	The formation and evolution of oxide particles in oxide-dispersion-strengthened ferritic steels during processing. <i>Acta Materialia</i> , 2013 , 61, 2219-2235	8.4	124
82	Atom probe tomography study of alloying element distributions in Zr alloys and their oxides. <i>Journal of Nuclear Materials</i> , 2013 , 442, 270-281	3-3	67
81	Lattice misfit during ageing of a polycrystalline nickel-base superalloy. <i>Acta Materialia</i> , 2013 , 61, 7791-7804	8.4	48
80	Effect of grain boundary orientation on radiation-induced segregation in a Fe-5.2at.% Cr alloy. <i>Acta Materialia</i> , 2013 , 61, 3490-3498	8.4	34
79	Interfacial morphology development and solute trapping behavior during rapid solidification of an Al-Cu alloy. <i>Acta Materialia</i> , 2013 , 61, 1571-1580	8.4	34

78	Atomic engineering of platinum alloy surfaces. <i>Ultramicroscopy</i> , 2013 , 132, 205-11	3.1	15
77	Hardening of self ion implanted tungsten and tungsten 5-wt% rhenium. <i>Journal of Nuclear Materials</i> , 2013 , 432, 428-436	3.3	95
76	Multi Scale Characterization of Stress Corrosion Cracking of Alloy X750. <i>Materials Research Society Symposia Proceedings</i> , 2013 , 1519, 1		
75	The disintegration of GaSb/GaAs nanostructures upon capping. <i>Applied Physics Letters</i> , 2013 , 102, 113103	3.4	26
74	Atom probe tomography analysis of different modes of Sb intermixing in GaSb quantum dots and wells. <i>Applied Physics Letters</i> , 2013 , 103, 122102	3.4	7
73	Quantitative Compositional Analysis of Fluorhydroxyapatite by Atom Probe Tomography. <i>Microscopy and Microanalysis</i> , 2013 , 19, 184-185	0.5	1
72	The effect of Ti on the coarsening behavior of oxygen-rich nanoparticles in oxide-dispersion-strengthened steels after annealing at 1200 °C. <i>Scripta Materialia</i> , 2012 , 67, 108-111	5.6	25
71	Atom probe study of radiation induced grain boundary segregation/depletion in a Fe-12%Cr alloy. <i>Progress in Nuclear Energy</i> , 2012 , 57, 14-19	2.3	15
70	Characterization of Oxidation and Reduction of a PalladiumRhodium Alloy by Atom-Probe Tomography. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 4760-4766	3.8	25
69	Characterization of Oxidation and Reduction of PtRu and PtRhRu Alloys by Atom Probe Tomography and Comparison with PtRh. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 17633-17640	3.8	33
68	As-coated thermal barrier coating: structure and chemistry. <i>Scripta Materialia</i> , 2012 , 67, 779-782	5.6	25
67	Characterisation of oxide scale formation on a new single crystal superalloy for power generation applications. <i>Materials at High Temperatures</i> , 2012 , 29, 272-278	1.1	7
66	Highly monodisperse core-shell particles created by solid-state reactions. <i>Nature Materials</i> , 2011 , 10, 710-5	27	78
65	Evolution of tip shape during field evaporation of complex multilayer structures. <i>Journal of Microscopy</i> , 2011 , 241, 225-33	1.9	121
64	Hydrogen production from formic acid decomposition at room temperature using a Ag-Pd core-shell nanocatalyst. <i>Nature Nanotechnology</i> , 2011 , 6, 302-7	28.7	897
63	Three dimensional atom probe imaging of GaAsSb quantum rings. <i>Ultramicroscopy</i> , 2011 , 111, 1073-6	3.1	14
62	Review on the EFDA work programme on nano-structured ODS RAF steels. <i>Journal of Nuclear Materials</i> , 2011 , 417, 149-153	3.3	60
61	Effects of heavy-ion irradiation on the grain boundary chemistry of an oxide-dispersion strengthened Fe12 wt.% Cr alloy. <i>Journal of Nuclear Materials</i> , 2011 , 417, 257-261	3.3	28

60	Manganese diffusion in annealed magnetic tunnel junctions with MgO tunnel barriers. <i>Scripta Materialia</i> , 2011 , 64, 673-676	5.6	15
59	Characterization of oxidation and reduction of a platinum-rhodium alloy by atom-probe tomography. <i>Catalysis Today</i> , 2011 , 175, 552-557	5.3	37
58	Advances in the reconstruction of atom probe tomography data. <i>Ultramicroscopy</i> , 2011 , 111, 448-57	3.1	187
57	A comparison of the structure of solute clusters formed during thermal ageing and irradiation. <i>Ultramicroscopy</i> , 2011 , 111, 664-71	3.1	42
56	Atom probe characterization of precipitation in an aged Cu-Ni-P alloy. <i>Ultramicroscopy</i> , 2011 , 111, 725-9	3.1	8
55	Analytical characterisation of oxide dispersion strengthened steels for fusion reactors. <i>Materials Science and Technology</i> , 2011 , 27, 719-723	1.5	16
54	Three-Dimensional Spatial Distribution of Cr atoms in Doped Indium Oxide. <i>Chemistry of Materials</i> , 2011 , 23, 1085-1087	9.6	17
53	Stability of nanoscale secondary phases in an oxide dispersion strengthened Fe-2Cr alloy. <i>Acta Materialia</i> , 2011 , 59, 3927-3936	8.4	79
52	Effects of heavy-ion irradiation on solute segregation to dislocations in oxide-dispersion-strengthened Eurofer 97 steel. <i>Journal of Nuclear Materials</i> , 2011 , 412, 100-105	3.3	28
51	A systematic approach for the study of radiation-induced segregation/depletion at grain boundaries in steels. <i>Journal of Nuclear Materials</i> , 2011 , 413, 1-4	3.3	38
50	A sensitivity analysis of the maximum separation method for the characterisation of solute clusters. <i>Ultramicroscopy</i> , 2011 , 111, 440-7	3.1	116
49	Atom probe tomography analysis of Ti-Y-O clustering during processing of nanoscale oxide particles in 14%Cr ODS ferritic steels. <i>Materials Research Society Symposia Proceedings</i> , 2011 , 1298, 15		1
48	Effect of P Content on Stress Relaxation and Clustering Behavior in Cu-Ni-P Alloys. <i>Materials Transactions</i> , 2010 , 51, 1802-1808	1.3	9
47	Impact of laser pulsing on the reconstruction in an atom probe tomography. <i>Ultramicroscopy</i> , 2010 , 110, 1215-22	3.1	46
46	Solid State interfaces: Toward an atomistic-scale understanding of structure, properties, and behavior. <i>Jom</i> , 2010 , 62, 52-52	2.1	3
45	High-resolution nanostructural investigation of Zn ₄ Sb ₃ alloys. <i>Scripta Materialia</i> , 2010 , 63, 784-787	5.6	34
44	Nanoscale characterisation of ODS Eurofer 97 steel: An atom-probe tomography study. <i>Journal of Nuclear Materials</i> , 2010 , 400, 37-45	3.3	118
43	Applications of atom-probe tomography to the characterisation of solute behaviours. <i>Materials Science and Engineering Reports</i> , 2010 , 69, 37-62	30.9	199

42	Probing the improbable: imaging C atoms in alumina. <i>Materials Today</i> , 2010 , 13, 34-36	21.8	94
41	Backside Lift-Out Specimen Preparation: Reversing the Analysis Direction in Atom Probe Tomography. <i>Microscopy and Microanalysis</i> , 2009 , 15, 298-299	0.5	19
40	Effect of Solute Clusters on Stress Relaxation Behavior in Cu-Ni-P Alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2009 , 40, 2888-2900	2.3	9
39	Nuclear reactor materials at the atomic scale. <i>Materials Today</i> , 2009 , 12, 30-37	21.8	82
38	Microstructural characterization of Y2O3 ODS Fe-Cr model alloys. <i>Journal of Nuclear Materials</i> , 2009 , 386-388, 449-452	3.3	39
37	Structural Materials: Understanding Atomic-Scale Microstructures. <i>MRS Bulletin</i> , 2009 , 34, 725-731	3.2	25
36	An Atom-Probe Tomography Primer. <i>MRS Bulletin</i> , 2009 , 34, 717-724	3.2	110
35	TEM and Atom Probe Tomography Characterization of High TMR MgO-Based Magnetic Tunnel Junctions. <i>Microscopy and Microanalysis</i> , 2009 , 15, 278-279	0.5	
34	Tomographic Reconstruction in Atom Probe Microscopy: Past, Present. . . Future?. <i>Microscopy and Microanalysis</i> , 2009 , 15, 10-11	0.5	8
33	A UK Facility for Atom Probe Tomography Analysis. <i>Microscopy and Microanalysis</i> , 2009 , 15, 288-289	0.5	
32	Atom-probe Tomography of Surface Oxides in a 20% Cold Worked Stainless Steel Tested Under PWR Primary Water Conditions. <i>Microscopy and Microanalysis</i> , 2009 , 15, 304-305	0.5	3
31	Grain Boundary Chemistry Before and After Ion Implantation in ODS Steels. <i>Microscopy and Microanalysis</i> , 2009 , 15, 270-271	0.5	
30	3-D Atom Probe Tomography of Resin Embedded Samples?. <i>Microscopy and Microanalysis</i> , 2009 , 15, 274-275	0.5	
29	Atom-probe Tomography, Small Angle Neutron Scattering, Transmission Electron Microscopy, Positron Annihilation Spectroscopy and X-ray Absorption Spectroscopy Characterization of Nano-scale Features in Nanostructured Ferritic Alloys. <i>Microscopy and Microanalysis</i> , 2009 , 15, 244-245	0.5	7
28	Monodisperse Al ₃ (LiScZr) core/shell precipitates in Al alloys. <i>Scripta Materialia</i> , 2008 , 58, 529-532	5.6	51
27	Determination of the tip temperature in laser assisted atom-probe tomography using charge state distributions. <i>Journal of Applied Physics</i> , 2008 , 104, 084914	2.5	41
26	Core/shell structures of oxygen-rich nanofeatures in oxide-dispersion strengthened Fe-Cr alloys. <i>Applied Physics Letters</i> , 2008 , 93, 181904	3.4	127
25	Chromatic aberrations in the field evaporation behavior of small precipitates. <i>Microscopy and Microanalysis</i> , 2008 , 14, 561-70	0.5	106

24	Quantitative analyses of early stages of phase transformation by atom probe tomography. <i>Microscopy and Microanalysis</i> , 2008 , 14, 88-89	0.5	
23	Effects of annealing and ion implantation on the nano-structure of the ODS Eurofer 97 steel. <i>Microscopy and Microanalysis</i> , 2008 , 14, 660-661	0.5	
22	Atomic Structure of Core-Shell Precipitates in Al-Li-Sc-Zr Alloys Studied by Analytical and Aberration-Corrected TEM/STEM. <i>Microscopy and Microanalysis</i> , 2008 , 14, 1348-1349	0.5	7
21	Correlating Electron Tomography and Atom Probe Tomography. <i>Microscopy and Microanalysis</i> , 2008 , 14, 1044-1045	0.5	
20	Towards better 3-D reconstructions by combining electron tomography and atom-probe tomography. <i>Ultramicroscopy</i> , 2008 , 108, 1579-85	3.1	104
19	Stabilization of extended stacking faults by {111}/ {112} twin junction interactions. <i>Acta Materialia</i> , 2007 , 55, 5917-5923	8.4	15
18	Atom probe tomography today. <i>Materials Today</i> , 2007 , 10, 36-42	21.8	186
17	A reassessment of the metastable miscibility gap in Al-Ag alloys by atom probe tomography. <i>Microscopy and Microanalysis</i> , 2007 , 13, 484-92	0.5	17
16	Temporal Evolution of GP Zones in an Al-Ag Alloy. <i>Microscopy and Microanalysis</i> , 2006 , 12, 1724-1725	0.5	
15	Mg Segregation at Coherent and Semi-Coherent Al/Al ₃ Sc Interfaces. <i>Microscopy and Microanalysis</i> , 2006 , 12, 914-915	0.5	4
14	Strain Relief at Finite-Sized Grain Boundaries Drives Dislocation Emission. <i>Microscopy and Microanalysis</i> , 2006 , 12, 908-909	0.5	
13	Composition evolution of nanoscale AlSc precipitates in an AlMgSc alloy: Experiments and computations. <i>Acta Materialia</i> , 2006 , 54, 119-130	8.4	83
12	Thermal stability of NiMn electrodeposits. <i>Acta Materialia</i> , 2006 , 54, 1935-1947	8.4	43
11	Effects of current density on the structure of Ni and NiMn electrodeposits. <i>Journal of Applied Electrochemistry</i> , 2006 , 36, 669-676	2.6	21
10	Coarsening kinetics of nanoscale Al ₃ Sc precipitates in an AlMgSc alloy. <i>Acta Materialia</i> , 2005 , 53, 4259-4268	8.4	117
9	Structural duality of 1/3<111> twin-boundary disconnections. <i>Philosophical Magazine Letters</i> , 2005 , 85, 387-394	1	12
8	Finite-size effects on the structure of grain boundaries. <i>Physical Review Letters</i> , 2004 , 93, 156101	7.4	23
7	Nanostructural evolution of Al ₃ Sc precipitates in an Al ₃ ScMg alloy by three-dimensional atom probe microscopy. <i>Surface and Interface Analysis</i> , 2004 , 36, 559-563	1.5	29

6	Effect of Mg addition on the creep and yield behavior of an AlSc alloy. <i>Acta Materialia</i> , 2003 , 51, 4751-4780	124
5	Mg segregation at Al/Al ₃ Sc heterophase interfaces on an atomic scale: experiments and computations. <i>Physical Review Letters</i> , 2003 , 91, 036101	74 79
4	A Subnanoscale Study of Mg Segregation at Al/Al ₃ Sc Interfaces. <i>Microscopy and Microanalysis</i> , 2002 , 8, 1100-1101	0.5 4
3	Model for creep threshold stress in precipitation-strengthened alloys with coherent particles. <i>Scripta Materialia</i> , 2002 , 47, 503-508	5.6 89
2	Precipitation strengthening at ambient and elevated temperatures of heat-treatable Al(Sc) alloys. <i>Acta Materialia</i> , 2002 , 50, 4021-4035	8.4 468
1	Nanoscale structural evolution of Al ₃ Sc precipitates in Al(Sc) alloys. <i>Acta Materialia</i> , 2001 , 49, 1909-1919	18.4 392