

Jonathan Hyde

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65
papers

1,826
citations

23
h-index

41
g-index

65
ext. papers

1,934
ext. citations

4.6
avg, IF

4.45
L-index

#	Paper	IF	Citations
65	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
64	Spinodal decomposition in Fe-Cr alloys: Experimental study at the atomic level and comparison with computer modelsII. Introduction and methodology. <i>Acta Metallurgica Et Materialia</i> , 1995 , 43, 3385-3401		175
63	A sensitivity analysis of the maximum separation method for the characterisation of solute clusters. <i>Ultramicroscopy</i> , 2011 , 111, 440-7	3.1	116
62	Microstructural characterization of irradiation-induced Cu-enriched clusters in reactor pressure vessel steels. <i>Journal of Nuclear Materials</i> , 2001 , 298, 211-224	3.3	104
61	Nuclear reactor materials at the atomic scale. <i>Materials Today</i> , 2009 , 12, 30-37	21.8	82
60	Spinodal decomposition in Fe-Cr alloys: Experimental study at the atomic level and comparison with computer modelsII. Development of domain size and composition amplitude. <i>Acta Metallurgica Et Materialia</i> , 1995 , 43, 3403-3413		75
59	Spinodal decomposition in Fe-Cr alloys: Experimental study at the atomic level and comparison with computer modelsIII. Development of morphology. <i>Acta Metallurgica Et Materialia</i> , 1995 , 43, 3415-3426		62
58	Microstructural evolution in medium copper low alloy steels irradiated in a pressurized water reactor and a material test reactor. <i>Journal of Nuclear Materials</i> , 2003 , 312, 163-173	3.3	58
57	Post-irradiation annealing of NiMnSi-enriched clusters in a neutron-irradiated RPV steel weld using Atom Probe Tomography. <i>Journal of Nuclear Materials</i> , 2015 , 459, 127-134	3.3	55
56	Precipitation in long term thermally aged high copper, high nickel model RPV steel welds. <i>Progress in Nuclear Energy</i> , 2012 , 57, 86-92	2.3	53
55	An Analysis of the Structure of Irradiation induced Cu-enriched Clusters in Low and High Nickel Welds. <i>Materials Research Society Symposia Proceedings</i> , 2000 , 650, 661		48
54	Improvements in three-dimensional atom probe design. <i>Applied Surface Science</i> , 1994 , 76-77, 374-381	6.7	47
53	A comparison of the structure of solute clusters formed during thermal ageing and irradiation. <i>Ultramicroscopy</i> , 2011 , 111, 664-71	3.1	42
52	Lateral and depth scale calibration of the position sensitive atom probe. <i>Applied Surface Science</i> , 1994 , 76-77, 382-391	6.7	41
51	Measurement of the amplitude of a spinodal. <i>Surface Science</i> , 1991 , 246, 304-314	1.8	38
50	Atom probe tomography of reactor pressure vessel steels: an analysis of data integrity. <i>Ultramicroscopy</i> , 2011 , 111, 676-82	3.1	36
49	Comparison of low temperature decomposition in Fe?Cr and duplex stainless steels. <i>Applied Surface Science</i> , 1995 , 87-88, 323-328	6.7	35

48	Statistical analysis of atom probe data: detecting the early stages of solute clustering and/or co-segregation. <i>Ultramicroscopy</i> , 2009 , 109, 502-9	3.1	34
47	Quantitative methods for the APT analysis of thermally aged RPV steels. <i>Ultramicroscopy</i> , 2013 , 132, 258-64	3.1	33
46	Analysis of Radiation Damage in Light Water Reactors: Comparison of Cluster Analysis Methods for the Analysis of Atom Probe Data. <i>Microscopy and Microanalysis</i> , 2017 , 23, 366-375	0.5	32
45	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
44	Characterisation of interfacial segregation to Cu-enriched precipitates in two thermally aged reactor pressure vessel steel welds. <i>Ultramicroscopy</i> , 2015 , 159 Pt 2, 292-8	3.1	24
43	Three-dimensional characterization and modelling of spinodally decomposed iron-chromium alloys. <i>Surface Science</i> , 1992 , 266, 370-377	1.8	24
42	A model of irradiation damage in high nickel submerged arc welds. <i>International Journal of Pressure Vessels and Piping</i> , 2002 , 79, 649-660	2.4	22
41	A study of the effect of ageing temperature on phase separation in Fe ₂₄ 5%Cr alloys. <i>Applied Surface Science</i> , 1995 , 87-88, 311-317	6.7	22
40	A topological approach to materials characterisation. <i>Scripta Metallurgica Et Materialia</i> , 1991 , 25, 1435-1440		22
39	The measurement of stress and phase fraction distributions in pre and post-transition Zircaloy oxides using nano-beam synchrotron X-ray diffraction. <i>Journal of Nuclear Materials</i> , 2016 , 479, 559-575	3.3	21
38	A critical comparison between experimental results and numerical simulations of phase separation in the Fe-Cr system. <i>Applied Surface Science</i> , 1994 , 76-77, 233-241	6.7	21
37	Visualisation of three-dimensional microstructures. <i>Surface Science</i> , 1992 , 266, 471-480	1.8	18
36	Atom probe analysis and modelling of interfaces in magnetic multilayers. <i>Ultramicroscopy</i> , 1992 , 47, 367-374	3.1	18
35	Detecting Clusters in Atom Probe Data with Gaussian Mixture Models. <i>Microscopy and Microanalysis</i> , 2017 , 23, 269-278	0.5	17
34	Uncertainties and assumptions associated with APT and SANS characterisation of irradiation damage in RPV steels. <i>Journal of Nuclear Materials</i> , 2014 , 449, 308-314	3.3	17
33	The association of hydrogen with nanometre bubbles of helium implanted into zirconium. <i>Scripta Materialia</i> , 2018 , 152, 102-106	5.6	16
32	Modelling spinodal decomposition at the atomic scale: beyond the Cahn - Hilliard model. <i>Modelling and Simulation in Materials Science and Engineering</i> , 1996 , 4, 33-54	2	16
31	New dimensions in atom-probe analysis. <i>Surface Science</i> , 1992 , 266, 481-493	1.8	15

30	Atomic-scale characterisation of precipitation in copper-cobalt alloys. <i>Applied Surface Science</i> , 1994 , 76-77, 203-212	6.7	14
29	Position sensitive atom probe study of the decomposition of a Cu-2.6at%Co alloy. <i>Applied Surface Science</i> , 1993 , 67, 368-379	6.7	13
28	The effect of Ni on the microstructural evolution of high Cu reactor pressure vessel steel welds after thermal ageing for up to 100,000 h. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 736, 111-119	5.3	12
27	The dominant mechanisms for the formation of solute-rich clusters in low-Cu steels under irradiation. <i>Materials Today Energy</i> , 2020 , 17, 100472	7	11
26	Secondary precipitation within the cementite phase of reactor pressure vessel steels. <i>Scripta Materialia</i> , 2016 , 115, 118-122	5.6	11
25	Characterisation of the early stages of solute clustering in 1Ni-1.3Mn welds containing Cu. <i>Ultramicroscopy</i> , 2009 , 109, 510-7	3.1	11
24	The effect of composition variations on the response of steels subjected to high fluence neutron irradiation. <i>Materialia</i> , 2020 , 11, 100717	3.2	9
23	Studies of radiation embrittlement of model alloys by positron annihilation, thermo-electric and magnetic measurements. <i>NDT and E International</i> , 2004 , 37, 19-22	4.1	9
22	Estimation of composition amplitude: Pa and LBM versus V. <i>Surface Science</i> , 1992 , 266, 446-452	1.8	8
21	Data analysis in the optical PoSAP. <i>Applied Surface Science</i> , 1996 , 94-95, 457-463	6.7	6
20	Comparison of models for deconvoluting the compositions of coexisting phases. <i>Applied Surface Science</i> , 1993 , 67, 429-435	6.7	6
19	Temper Embrittlement, Irradiation Induced Phosphorus Segregation and Implications for Post-Irradiation Annealing of Reactor Pressure Vessels 296-296-21		6
18	Using alpha hulls to automatically and reproducibly detect edge clusters in atom probe tomography datasets. <i>Materials Characterization</i> , 2020 , 160, 110078	3.9	6
17	A more holistic characterisation of internal interfaces in a variety of materials via complementary use of transmission Kikuchi diffraction and Atom probe tomography. <i>Applied Surface Science</i> , 2020 , 528, 147011	6.7	5
16	Structural analysis with the position sensitive atom probe. <i>Surface Science</i> , 1992 , 266, 463-470	1.8	5
15	Radiation Embrittlement of Reactor Pressure Vessel Steels 2003, 351-398		4
14	Observation of Mn-Ni-Si-rich features in thermally-aged model reactor pressure vessel steels. <i>Scripta Materialia</i> , 2021 , 191, 126-130	5.6	4
13	Analysis of data from an optical atom probe. <i>Applied Surface Science</i> , 1994 , 76-77, 409-415	6.7	3

12	Microstructural Aspects of Irradiation Damage in A508 Gr 4N Forging Steel: Composition and Flux Effects	194-194-14	
11	Microstructural Characterisation of Nanometre Scale Irradiation Damage in High-Ni Welds	487-502	3
10	SANS examination of irradiated RPV steel welds during in-situ annealing. <i>Journal of Nuclear Materials</i> , 2015 , 461, 45-50		3.3 2
9	Simulation of the early stages of ordering in Ti-15at.% Al alloy. <i>Philosophical Magazine Letters</i> , 1995 , 71, 247-255		1 2
8	Ultra-high-resolution chemical analysis by field-ion microscopy, atom probe and position-sensitive atom-probe techniques. <i>Ultramicroscopy</i> , 1992 , 47, 199-211		3.1 2
7	APT and TEM study of behaviour of alloying elements in neutron-irradiated zirconium-based alloys. <i>Scripta Materialia</i> , 2022 , 208, 114323		5.6 2
6	Research Tools: Microstructure, Mechanical Properties, and Computational Thermodynamics	2019 , 103-161	1
5	Microstructural characterisation techniques for the study of reactor pressure vessel (RPV) embrittlement	2015 , 211-294	1
4	Dynamical Ising Model Simulations of Nucleation and Growth in Copper-Cobalt Alloys. <i>Materials Research Society Symposia Proceedings</i> , 1992 , 291, 623		1
3	A sensitivity study using maximum entropy to interpret SANS data from the Ringhals Unit 3 NPP. <i>Journal of Nuclear Materials</i> , 2018 , 509, 417-424		3.3
2	Early Stages of Solute Clustering in Irradiated 1 Ni 0.3 Mn Welds. <i>Microscopy and Microanalysis</i> , 2009 , 15, 1352-1353		0.5
1	PosgenPy: An Automated and Reproducible Approach to Assessing the Validity of Cluster Search Parameters in Atom Probe Tomography Datasets. <i>Microscopy and Microanalysis</i> , 1-10		0.5