G D W Smith

List of Publications by Year
in descending order

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55 papers	2,700 citations	201674 27 h-index	197818 49 g-index
55 all docs	55 docs citations	55 times ranked	1338 citing authors

#	Article	IF	Citations
1	Pulsed laser atom probe analysis of semiconductor materials. , 2021, , 665-674.		0
2	Quantifying the composition of yttrium and oxygen rich nanoparticles in oxide dispersion strengthened steels. Ultramicroscopy, 2013, 125, 10-17.	1.9	29
3	Compositional nonuniformities in pulsed laser atom probe tomography analysis of compound semiconductors. Journal of Applied Physics, 2012, 111, 064908.	2.5	35
4	Interfacial chemistry in an InAs/GaSb superlattice studied by pulsed laser atom probe tomography. Applied Physics Letters, 2012, 100, .	3.3	23
5	Accuracy of pulsed laser atom probe tomography for compound semiconductor analysis. Journal of Physics: Conference Series, 2011, 326, 012031.	0.4	24
6	Optimisation of mass ranging for atom probe microanalysis and application to the corrosion processes in Zr alloys. Ultramicroscopy, 2011, 111, 480-486.	1.9	44
7	Some aspects of the field evaporation behaviour of GaSb. Ultramicroscopy, 2011, 111, 487-492.	1.9	77
8	Nanoscale characterization of compound semiconductors using laser-pulsed atom probe tomography. Journal of Physics: Conference Series, 2010, 209, 012026.	0.4	5
9	Influence of surface migration on the spatial resolution of pulsed laser atom probe tomography. Journal of Applied Physics, 2010, 108, .	2.5	81
10	Field evaporation behavior during irradiation with picosecond laser pulses. Applied Physics Letters, 2008, 92, .	3.3	58
11	3D atomic-scale chemical analysis of engineering alloys. , 2008, , 729-730.		0
12	Partitioning and segregation of trace element Sn in a low-alloy steel. Philosophical Magazine Letters, 2007, 87, 327-339.	1.2	10
13	Optimisation of a scanning atom probe with improved mass resolution using post deceleration. Ultramicroscopy, 2007, 107, 705-712.	1.9	4
14	Aspects of the performance of a femtosecond laser-pulsed 3-dimensional atom probe. Ultramicroscopy, 2007, 107, 720-725.	1.9	77
15	Measurement of temperature rises in the femtosecond laser pulsed three-dimensional atom probe. Applied Physics Letters, 2006, 88, 154103.	3.3	106
16	Comparison of the number densities of nanosized Cu-rich precipitates in ferritic alloys measured using EELS and EDX mapping, HREM and 3DAP. Journal of Materials Science, 2006, 41, 2559-2565.	3.7	18
17	Combined atomicâ€“scale modelling and experimental studies of nucleation in the solid state. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2003, 361, 463-477.	3.4	42
18	THERMAL STABILITY OF ELECTRODEPOSITED NANOCRYSTALLINE NICKEL. Surface Engineering, 2002, 18, 151-156.	2.2	26

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19	Progress in the Atomic-Scale Analysis of Materials with the Three-Dimensional Atom Probe. MRS Bulletin, 2001, 26, 102-107.	3.5	17
20	Design of a scanning atom probe with improved mass resolution. Review of Scientific Instruments, 2000, 71, 3016-3023.	1.3	17
21	Focused ion-beam specimen preparation for atom probe field-ion microscopy characterization of multilayer film structures. Nanotechnology, 1999, 10, 45-50.	2.6	46
22	Performance of an energy-compensated three-dimensional atom probe. Review of Scientific Instruments, 1998, 69, 49-58.	1.3	164
23	Three-dimensional atom probe field-ion microscopy observation of Cu/Co multilayer film structures. Applied Physics Letters, 1998, 73, 1125-1127.	3.3	40
24	Atomic Scale Study Of Precipitate / Matrix Interfaces in a Metallic Alloy. Materials Research Society Symposia Proceedings, 1997, 481, 521.	0.1	1
25	Pearlite phase transformation in Si and V steel. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 1995, 26, 1617-1631.	2.2	41
26	Applications of Atom Probe Microanalysis in Materials Science. MRS Bulletin, 1994, 19, 27-34.	3.5	7
27	High-resolution electron microscopy studies of the structure of Cu precipitates in Î±-Fe. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1994, 70, 1-24.	0.6	378
28	Effects of vanadium addition on nucleation and growth of pearlite in high carbon steel. Materials Science and Technology, 1994, 10, 955-963.	1.6	29
29	Recent developments in position-sensitive atom-probe microanalysis. Proceedings Annual Meeting Electron Microscopy Society of America, 1994, 52, 828-829.	0.0	0
30	Transmission electron microscope investigations of the structure of copper precipitates in thermally-aged Feâ€"Cu and Feâ€"Cuâ€"Ni. Philosophical Magazine Letters, 1991, 64, 383-391.	1.2	312
31	Supercomputers in Materials Science. , 1991, , 465-479.		1
32	Quantitative atom probe analysis of spinodal reaction in ferrite phase of duplex stainless steel. Materials Science and Technology, 1990, 6, 293-300.	1.6	30
33	The distribution of substitutional alloying elements during the bainite transformation. Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science, 1990, 21, 837-844.	1.4	49
34	Three Dimensional materials characterisation at ultrahigh resolution using a position-sensitive atom probe. Proceedings Annual Meeting Electron Microscopy Society of America, 1990, 48, 408-409.	0.0	0
35	Surface analysis with a position-sensitive atom probe. Journal of Physics Condensed Matter, 1989, 1, SB99-SB103.	1.8	3
36	Materials analysis with a positionâ€sensitive atom probe. Journal of Microscopy, 1989, 154, 215-225.	1.8	53

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37	Application of a positionâ€sensitive detector to atom probe microanalysis. Review of Scientific Instruments, 1988, 59, 862-866.	1.3	331
38	Atom probe analysis of a ceramic oxide superconductor. Applied Physics Letters, 1988, 52, 1020-1022.	3.3	16
39	The effect of laser pulse shape on mass resolution in the pulsed-laser atom probe. Journal of Physics E: Scientific Instruments, 1987, 20, 1392-1394.	0.7	4
40	Pulsed laser atom probe analysis of semiconductor materials. Journal of Microscopy, 1986, 141, 155-170.	1.8	52
41	Discussion of â€œmiscibility gap in Fe-Ni-Al and Fe-Ni-Al-Co Systemsâ€•and â€œRole of Alloying elements in phase decomposition in alnico magnet alloysâ€• Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science, 1986, 17, 1629-1631.	1.4	3
42	Field-ion microscope atom probe studies of metallic glasses. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1985, 52, L63-L69.	0.6	7
43	Pulsed laser atom probe analysis of GaAs and InAs. Applied Physics Letters, 1985, 46, 567-569.	3.3	30
44	Phase composition and phase stability of a high-chromium nickel-based superalloy, IN939. Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science, 1983, 14, 1771-1783.	1.4	59
45	An atom probe study of the aging of iron- nickel- carbon martensite. Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science, 1983, 14, 1021-1024.	1.4	3
46	An atom probe study of the aging of iron-nickel-carbon martensite. Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science, 1983, 14, 1021-1024.	1.4	8
47	Phase Composition and Phase Stability of Alloy IN939. , 1982, , 705-719.		2
48	A study of the early stages of tempering of iron-carbon martensites by atom probe field ion microscopy. Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science, 1981, 12, 1197-1204.	1.4	98
49	An atom probe study of the anomalous field evaporation of alloys containing silicon. Journal of Vacuum Science and Technology, 1981, 19, 57-62.	1.9	66
50	A simple method for extending the voltage and frequency range of a mercury relay high-voltage pulse generator. Journal of Physics E: Scientific Instruments, 1980, 13, 1287-1288.	0.7	3
51	Evidence for Reconstructed {001} Tungsten Obtained by Field-Ion Microscopy. Physical Review Letters, 1979, 43, 1521-1524.	7.8	97
52	A versatile time-of-flight atom probe for metallurgical applications. Surface and Interface Analysis, 1979, 1, 149-160.	1.8	36
53	A high-voltage mercury-wetted reed pulse generator with secondary pulse suppression. Journal of Physics E: Scientific Instruments, 1977, 10, 329-330.	0.7	8
54	Atom probe microanalysis of a pearlitic steel. Metal Science, 1977, 11, 249-253.	0.7	22

#	Article	IF	Citations
55	A helium gas flow cryostat and specimen airlock assembly for ultrahigh vacuum use (in field ion) Tj ETQq1 1 0.784314 rgBT /Overlock	0.7	8