

J H Evans

List of Publications by Year in descending order

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46
papers

1,351
citations

393982

19
h-index

329751

37
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46
all docs

46
docs citations

46
times ranked

410
citing authors

#	ARTICLE	IF	CITATIONS
1	Observations of a Regular Void Array in High Purity Molybdenum irradiated with 2 MeV Nitrogen Ions. Nature, 1971, 229, 403-404.	13.7	209
2	Evidence for solid krypton bubbles in copper, nickel and gold at 293K. Journal of Physics F: Metal Physics, 1985, 15, L1-L6.	1.6	160
3	A positron annihilation study of the annealing of electron irradiated molybdenum. Journal of Physics F: Metal Physics, 1976, 6, 499-521.	1.6	120
4	Formation of helium platelets in molybdenum. Nature, 1981, 291, 310-312.	13.7	83
5	Observations of a regular void array in high purity molybdenum and T.Z.M. irradiated at high temperatures with 2MeV nitrogen ions. Radiation Effects, 1971, 10, 55-60.	0.4	74
6	Bubble structures in He ⁺ irradiated metals. Radiation Effects, 1983, 78, 147-156.	0.4	70
7	The application of TEM to the study of helium cluster nucleation and growth in molybdenum at 300 K. Radiation Effects, 1983, 78, 105-120.	0.4	62
8	Dose dependence of formation of nanoscale cavities in helium-implanted 4H ⁺ SiC. Journal of Applied Physics, 2003, 94, 6017-6022.	1.1	58
9	Precipitation in low energy helium irradiated molybdenum. Radiation Effects, 1983, 78, 53-66.	0.4	46
10	The retention of Ar in low energy high fluence Ar-Irradiated Mo and Si. Radiation Effects and Defects in Solids, 1989, 108, 1-8.	0.4	36
11	Epithermal effects in positron depth profiling measurements. Philosophical Magazine Letters, 1988, 57, 165-169.	0.5	34
12	A positron annihilation investigation of defects in neutron irradiated copper. Radiation Effects, 1981, 54, 65-80.	0.4	33
13	Annealing behaviour of copper and nickel containing high concentrations of krypton studied by positron annihilation and other techniques. Journal of Physics F: Metal Physics, 1988, 18, 1703-1724.	1.6	33
14	Simulations of the effects of 2-D interstitial diffusion on void lattice formation during irradiation. Philosophical Magazine, 2006, 86, 173-188.	0.7	28
15	Void formation during annealing of irradiated molybdenum. Philosophical Magazine and Journal, 1972, 26, 813-820.	1.8	26
16	Simulations of the effects of 1-d interstitial diffusion on void lattice formation during irradiation. Philosophical Magazine, 2005, 85, 1177-1190.	0.7	24
17	Vacancy migration and void formation during annealing of electron irradiated molybdenum. Nature, 1975, 254, 685-686.	13.7	23
18	The relationship between void size and positron lifetime in neutron irradiated molybdenum. Applied Physics Berlin, 1977, 12, 187-189.	1.4	21

#	ARTICLE	IF	CITATIONS
19	Formation of blisters in molybdenum bombarded with helium. <i>Nature</i> , 1975, 256, 299-300.	13.7	20
20	An accelerator study of void production in molybdenum. <i>Radiation Effects</i> , 1973, 17, 69-81.	0.4	19
21	Void formation during annealing of neutron-irradiated molybdenum. <i>Philosophical Magazine and Journal</i> , 1975, 32, 427-430.	1.8	16
22	The effect of impurities on the lifetime of positrons in voids in molybdenum. <i>Applied Physics Berlin</i> , 1977, 12, 183-185.	1.4	16
23	Radiation-induced shrinkage of voids in molybdenum and TZM. <i>Nature</i> , 1979, 278, 728-729.	13.7	15
24	A positron annihilation study of plastically deformed molybdenum. <i>Philosophical Magazine and Journal</i> , 1976, 34, 685-692.	1.8	14
25	Positron annihilation study of the temperature behaviour of solid krypton deposits in copper. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1987, 55, 347-357.	0.8	12
26	The efficiency of void formation during annealing of irradiated molybdenum. <i>Philosophical Magazine and Journal</i> , 1973, 28, 1405-1408.	1.8	11
27	Evidence for deep lattice damage in krypton-implanted titanium, revealed by positrons. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1990, 61, 839-854.	0.8	11
28	The influence of positron diffusion on positron trapping at voids in molybdenum. <i>Journal of Physics Condensed Matter</i> , 1990, 2, 10165-10172.	0.7	11
29	Comments on the role of 1-D and 2-D self-interstitial atom transport mechanisms in void- and bubble-lattice formation in cubic metals. <i>Philosophical Magazine Letters</i> , 2007, 87, 575-580.	0.5	11
30	A transmission electron microscopy study of xenon bubbles in ion-implanted tin. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1990, 61, 531-542.	0.8	10
31	The variation of defect damage with depth in molybdenum irradiated with 2MeV nitrogen ions. <i>Radiation Effects</i> , 1971, 8, 115-120.	0.4	9
32	Influence of krypton physisorption on the positron surface state lifetime: rates of positron trapping into cavities. <i>Journal of Physics Condensed Matter</i> , 1990, 2, 2081-2091.	0.7	8
33	Irradiation-Induced Cavity Lattice Formation in Metals., 1990, , 347-370.		6
34	The determination of interface characteristics for SiO ₂ on Si with slow positrons. <i>Journal of Physics Condensed Matter</i> , 1991, 3, 3205-3209.	0.7	5
35	Gas densities in bubbles and positron annihilation characteristics. <i>Journal of Physics Condensed Matter</i> , 1989, 1, SA67-SA70.	0.7	4
36	Stacking Faults and Twins in Nonstoichiometric MoC. <i>Journal of the American Ceramic Society</i> , 1972, 55, 174-174.	1.9	3

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37	Mechanisms for radiation-induced shrinkage of voids (reply). Nature, 1979, 280, 253-254.	13.7	3
38	The retention of krypton in polycrystalline silicon during high-temperature annealing. Philosophical Magazine Letters, 1994, 70, 241-245.	0.5	3
39	Recent Experimental Studies on Thermal and Irradiation-Induced Resolution of Gas Atoms from Bubbles in Solids. NATO ASI Series Series B: Physics, 1991, , 307-319.	0.2	2
40	Pseudopotential calculations of positron annihilation rates in bubbles of the heavier noble gases contained in copper. Journal of Physics Condensed Matter, 1990, 2, 10529-10547.	0.7	1
41	Comparison of Results from Different Experimental Techniques (SANS, TEM, PAT, SEM) Applied to Bulk Cu and Ni Containing Krypton. NATO ASI Series Series B: Physics, 1991, , 221-229.	0.2	1
42	A COMPARISON OF THE DAMAGE STRUCTURE IN FAST REACTOR AND ACCELERATOR IRRADIATED MOLYBDENUM. , 1969, , 323-331.		0
43	Evidence against a recent suggestion ¹ that a void lattice could occur in quenched molybdenum. Radiation Effects, 1973, 17, 139-139.	0.4	0
44	The application of pseudo-potentials to the detailed analysis of positron lifetimes in helium bubbles contained in metals. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1991, 64, 119-134.	0.6	0
45	EXAFS spectroscopy on overpressurized krypton bubbles in copper and nickel. Journal of Physics Condensed Matter, 1997, 9, 149-155.	0.7	0
46	Surface porosity development on metal substrates by helium implantation and annealing.. Materials Research Society Symposia Proceedings, 2003, 792, 184.	0.1	0