L E Rehn

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.

81	1,780	25	41
papers	citations	h-index	g-index
81 ext. papers	1,818 ext. citations	3.4 avg, IF	3.54 L-index

#	Paper	IF	Citations
81	Early-stage suppression of Cu (001) oxidation. <i>Applied Physics Letters</i> , 2005 , 87, 051914	3.4	35
80	Generating Nanoscale Arrays Using Self-Organized Porous-Alumina Ion Implantation Masks. <i>Materials Research Society Symposia Proceedings</i> , 2003 , 777, 221		
79	Microstructure and mechanical properties of TiBiN coatings. <i>Journal of Materials Research</i> , 2002 , 17, 2628-2632	2.5	53
78	Sound velocity of glassy Pdg0Si2o after heavy-ion irradiation at low temperatures. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 2002 , 82, 2333-2	2339	
77	Intrinsic stress development in Ti ū :H ceramic nanocomposite coatings. <i>Applied Physics Letters</i> , 2002 , 81, 352-354	3.4	27
76	Mass density of glassy Pd80Si20 during low-temperature light ion irradiation. <i>Journal of Materials Research</i> , 2001 , 16, 2788-2792	2.5	2
75	Origin of atomic clusters during ion sputtering. <i>Physical Review Letters</i> , 2001 , 87, 207601	7.4	55
74	Shock-Wave Synthesis of Nanoparticles During Ion Sputtering. <i>Materials Research Society Symposia Proceedings</i> , 2001 , 704, 761		
73	In-situ transmission electron microscopy study of ion-irradiated copper: Temperature dependence of defect yield and cascade collapse. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 2000 , 80, 809-842		12
72	Compositional variation of microstructure in ion-implanted AlxGa1-xAs. <i>Journal of Materials Research</i> , 2000 , 15, 2043-2053	2.5	2
71	Inductively coupled plasma assisted deposition and mechanical properties of metal-free and Ti-containing hydrocarbon coatings. <i>Journal of Applied Physics</i> , 2000 , 87, 2840-2848	2.5	36
70	Proximity effect thermometer for local electron temperature measurements on mesoscopic samples. <i>Applied Physics Letters</i> , 1999 , 75, 3554-3556	3.4	14
69	Heavy-Ion Irradiation Induced Diamond Formation in Carbonaceous Materials. <i>Materials Research Society Symposia Proceedings</i> , 1998 , 540, 189		5
68	Modeling the Post-Yield Flow Behavior after Neutron and Electron Irradiation of Steels and Iron-Base Alloys. <i>Materials Research Society Symposia Proceedings</i> , 1998 , 540, 463		
67	Effects of Heavy-Ion Cascade Volume on the Suppression of Radiation-Induced Segregation in Alloys. <i>Materials Research Society Symposia Proceedings</i> , 1997 , 504, 129		
66	Transmission Electron Microscopy Study of Cascade Collapse in Copper During in- Situ Ion-Irradiation at Elevated Temperatures. <i>Materials Research Society Symposia Proceedings</i> , 1997 , 504, 189		
65	Changes in Mass Density and Sound Velocity of Amorphous Pd80Si20 by Low Temperature Ion Irradiation. <i>Materials Research Society Symposia Proceedings</i> , 1997 , 481, 445		

64	Amorphization Mechanisms in AlxGa1-xAs. <i>Materials Research Society Symposia Proceedings</i> , 1996 , 438, 199		
63	Amorphization Mechanisms in AlxGa1NAs. <i>Materials Research Society Symposia Proceedings</i> , 1996 , 439, 197		
62	Transmission Electron Microscopy Study In-Situ of Radiation-Induced Defects in Copper at Elevated Temperatures. <i>Materials Research Society Symposia Proceedings</i> , 1996 , 439, 313		1
61	Nanometer-Scale Metal Dispersions in Polymeric Matrices. <i>Materials Research Society Symposia Proceedings</i> , 1996 , 461, 147		
60	Ion implantation damage in Al0.6Ga0.4As/GaAs heterostructures. <i>Journal of Applied Physics</i> , 1995 , 78, 97-103	2.5	13
59	Substrate effects on the structure of epitaxial PbTiO3 thin films prepared on MgO, LaAlO3, and SrTiO3 by metalorganic chemical-vapor deposition. <i>Journal of Applied Physics</i> , 1995 , 78, 2607-2622	2.5	166
58	Intercascade annihilation of freely migrating defects. Applied Physics Letters, 1995, 67, 229-231	3.4	13
57	Effect of Cascade Remnants on Freely Migrating Defects in Cu -1 % Au Alloys. <i>Materials Research Society Symposia Proceedings</i> , 1995 , 396, 179		
56	Electron Irradiation-Induced Mechanical Property Changes in Reactor Pressure Vessel Alloys. <i>Materials Research Society Symposia Proceedings</i> , 1995 , 398, 177		
55	Growth of high quality single-domain single-crystal films of PbTiO3. <i>Applied Physics Letters</i> , 1994 , 65, 1106-1108	3.4	42
54	Growth of aluminum nitride thin films on Si(111) and Si(001): Structural characteristics and development of intrinsic stresses. <i>Journal of Applied Physics</i> , 1994 , 75, 3446-3455	2.5	87
53	Epitaxial Pb(Zr0.40Ti0.60)O3/SrRuO3 and PbTiO3/SrRuO3 Multilayer Thin Films Prepared by MOCVD and RF Sputtering. <i>Materials Research Society Symposia Proceedings</i> , 1994 , 361, 307		7
52	Gamma Ray-Induced Embritilement of Pressure Vessel Alloys. <i>Materials Research Society Symposia Proceedings</i> , 1994 , 373, 155		
51	Density Changes in Amorphous Pd80Si20 During Low Temperature ion Irradiation. <i>Materials Research Society Symposia Proceedings</i> , 1994 , 373, 261		1
50	Enhancement of diffusion-induced grain boundary migration by ion irradiation. <i>Applied Physics Letters</i> , 1993 , 62, 1597-1599	3.4	10
49	Reduction of Defect Fluxes Using Dual-Ion-Beam Processing. <i>Materials Research Society Symposia Proceedings</i> , 1993 , 316, 57		1
48	Modulation Wavelength Dependence of Ion Mixing in Metallic Superlattices. <i>Materials Research Society Symposia Proceedings</i> , 1993 , 316, 271		
47	Cross-Sectional TEM Studies of DIGM in Irradiated Au-Cu Bilayers. <i>Materials Research Society Symposia Proceedings</i> , 1992 , 279, 369		

The Effect of Digm and Irradiation-Induced Grain Growth on Interdiffusion in Bilayer Ion-Beam Mixing Experiments. *Materials Research Society Symposia Proceedings*, **1992**, 279, 497

45	Interdiffusion and Grain-Boundary Migration in Au/Cu Bilayers During Ion-Irradiation. <i>Materials Research Society Symposia Proceedings</i> , 1991 , 235, 559		
44	Ion channeling along the. <i>Physical Review B</i> , 1991 , 44, 2334-2340	3.3	6
43	Comparison of p and He channeling across Tc in YBa2Cu3O7-x. <i>Physical Review B</i> , 1991 , 43, 13711-13713	B3.3	12
42	Chi-phase precipitation in ion-irradiated molybdenum-rhenium alloys. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1990 , 62, 29-51		11
41	Amorphization in Zr3Ai irradiated with 1-mev e- and Kr+. <i>Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science</i> , 1990 , 21, 1799-1808		34
40	Ion channeling in (Bi1.7Pb0.3)Sr2CaCu2Ox single crystals. <i>Physical Review B</i> , 1990 , 42, 4175-4182	3.3	26
39	Neutron diffraction and transmission electron microscopy study of hydrogen-induced phase transformations in Zr3Al. <i>Journal of Applied Physics</i> , 1990 , 67, 1312-1319	2.5	25
38	The dose, temperature, and projectile-mass dependence for irradiation-induced amorphization of CuTi. <i>Journal of Materials Research</i> , 1989 , 4, 1143-1150	2.5	55
37	Strong traps for deuterium in krypton-implanted nickel. <i>Journal of Applied Physics</i> , 1989 , 65, 1023-1029	2.5	3
36	Shift of phonon anomaly with Tc observed in (Y,Er)Ba2Cu3O7- delta by ion channeling. <i>Physical Review B</i> , 1989 , 40, 11396-11399	3.3	26
35	Direct evidence of anomalous Cu-O vibrational modes near Tc in ErBa2Cu3O7- delta. <i>Physical Review Letters</i> , 1989 , 62, 2869-2872	7.4	126
34	Crystalline to amorphous transformation in GaAs during Kr ion bombardment: A study of elastic behavior. <i>Journal of Applied Physics</i> , 1989 , 66, 152-155	2.5	22
33	Irradiation-enhanced and -induced mass transport. <i>Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science</i> , 1989 , 20, 2619-2626		4
32	Solid-state amorphization, interdiffusion, and ion-beam mixing in Au/Zr and Ni/Zr. <i>Journal of Materials Research</i> , 1989 , 4, 1444-1449	2.5	20
31	Effects of Ion Dose on the Morphology and Crystallization of Amorphous Germanium. <i>Materials Research Society Symposia Proceedings</i> , 1989 , 157, 659		
30	Irradiation-Induced Amorphization and Elastic Shear Instability in Intermetallic Compounds. Materials Research Society Symposia Proceedings, 1989, 157, 777		8
29	Phonon Anomaly at Tc In (Y/Er)Ba2Cu3O7[] <i>Materials Research Society Symposia Proceedings</i> , 1989 , 169, 1033		

28	Ion-channeling investigation of thermal vibrational amplitudes across the superconducting transition in YBa2Cu3O7- delta. <i>Physical Review B</i> , 1988 , 38, 9287-9290	3.3	46
27	Hydrogen-induced crystal to glass transformation in Zr3Al. <i>Applied Physics Letters</i> , 1988 , 53, 1820-1822	3.4	55
26	Freely-migrating-defect production during irradiation at elevated temperatures. <i>Physical Review B</i> , 1988 , 38, 12868-12878	3.3	31
25	Elastic Instability During Amorphization of Internetallic Compounds by Charged-Particle Beams. <i>Materials Research Society Symposia Proceedings</i> , 1988 , 100, 51		
24	Ion-Beam Mixing and Amorphization in Au/Zr Bilayers. <i>Materials Research Society Symposia Proceedings</i> , 1988 , 100, 69		5
23	The Effect of Simultaneous Electron and Kr+ Irradiation on Amorphization of CuTi. <i>Materials Research Society Symposia Proceedings</i> , 1988 , 128, 339		1
22	Amorphization of Zr3Al by Hydrogenation and Subsequent Electron Irradiation. <i>Materials Research Society Symposia Proceedings</i> , 1988 , 128, 345		
21	Cascade-driven migration of structural interfaces: A new type of irradiation-induced phase transformation. <i>Applied Physics Letters</i> , 1987 , 50, 1876-1878	3.4	10
20	Brillouin scattering study of lattice-stiffness changes due to ion irradiation: Dramatic softening in Nb3Ir. <i>Physical Review B</i> , 1987 , 35, 883-885	3.3	48
19	Solid-state amorphization of Zr3Al: Evidence of an elastic instability and first-order phase transformation. <i>Physical Review Letters</i> , 1987 , 59, 2987-2990	7.4	157
18	Detection of Near-Surface 52Cr Segregation in Irradiated 51V(Cr) By Rbs. <i>Materials Research Society Symposia Proceedings</i> , 1986 , 82, 499		
17	Trapping of deuterium in krypton-implanted nickel. <i>Journal of Applied Physics</i> , 1986 , 59, 2747-2751	2.5	11
16	The trapping of deuterium in argon-implanted nickel. Journal of Applied Physics, 1985, 57, 845-848	2.5	7
15	Gauging film thickness: A comparison of an x-ray diffraction technique with Rutherford backscattering spectrometry. <i>Journal of Applied Physics</i> , 1985 , 57, 643-645	2.5	14
14	Relative efficiencies of different ions for producing freely migrating defects. <i>Physical Review B</i> , 1984 , 30, 3073-3080	3.3	89
13	Kinetics of radiation-induced segregation in Ni-12.7 at.% Si. <i>Physical Review B</i> , 1983 , 28, 3100-3109	3.3	43
12	The Dependence of Ion Beam Mixing on Projectile Mass. <i>Materials Research Society Symposia Proceedings</i> , 1983 , 27, 25		2
11	Modification of 🏻 Thick Surface Layers Using keV Ion Energies. <i>Materials Research Society Symposia Proceedings</i> , 1983 , 27, 37		3

10	Study of Ion Bombardment-Induced SubSurface Compositional Modifications in Ni-Cu Alloys at Elevated Temperatures by Ion Scattering Spectroscopy. <i>Materials Research Society Symposia Proceedings</i> , 1983 , 27, 79		2
9	Near-surface segregation in irradiated Ni3Si. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1982 , 45, 957-972		6
8	Surface Modification and Radiation-Induced Segregation. <i>Materials Research Society Symposia Proceedings</i> , 1981 , 7, 17		6
7	An experimental study of dia- and paraelastic effects in eirradiated copper. <i>Journal of Physics F: Metal Physics</i> , 1977 , 7, 1107-1113		14
6	Anelastic relaxation due to single self-interstitial atoms in electron-irradiated Al. <i>Physical Review B</i> , 1977 , 15, 672-679	3.3	43
5	Anelastic relaxation due to clustered self-interstitial atoms in Al. <i>Physical Review B</i> , 1977 , 15, 680-688	3.3	25
4	Measurement of the diaelastic effect in poly-crystalline copper during electron irradiation at 5 k. <i>Radiation Effects</i> , 1976 , 27, 189-190		3
3	Effects of thermal-neutron irradiation on the elastic constants of copper. <i>Physical Review B</i> , 1974 , 10, 349-362	3.3	67
2	Experimental Evidence for Split Interstitials in Copper. <i>Physical Review Letters</i> , 1974 , 32, 1054-1057	7.4	57
1	Effects of self-interstitials and close pairs on the elastic constants of copper. <i>Physical Review B</i> , 1974 , 10, 363-375	3.3	75