Sputtering patterns and defect formation in alkali halid

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Citation Report

#	Article	IF	CITATIONS
1	Insulating films. , 1976, , .		0
2	Measurements of the velocity spectrum of sputtered Na from a Nal target by a Dopplerâ€shift laser spectrometer. Journal of Applied Physics, 1977, 48, 4734-4740.	2.5	59
3	The Mechanism of the Electron Sputtering Process of Alkali Halides. Physica Status Solidi (B): Basic Research, 1977, 81, K11.	1.5	12
4	Energy distributions of atoms sputtered from alkali halides by 540 eV electrons. Radiation Effects, 1978, 36, 63-71.	0.4	118
5	Electron sputtering of alkali halides a study of its dependence on the beam energy and target temperature. Radiation Effects, 1978, 38, 21-27.	0.4	55
8	The effect of electron bombardment on the secondary electron emission from Na3AlF6. Journal of Applied Physics, 1979, 50, 5961-5965.	2.5	5
9	Emission of Cl atoms from NaCl during Vk-center decomposition. Solid State Communications, 1979, 32, 347-351.	1.9	19
10	Photon-induced sputtering. Surface Science, 1979, 90, 256-264.	1.9	18
11	Delay times in the sputtering of atoms from alkali-halide crystals during low-energy electron bombardment. Surface Science, 1979, 90, 265-273.	1.9	47
12	Sputtering of molecules during low-energy electron bombardment of alkali halides. Surface Science, 1979, 90, 274-279.	1.9	23
13	Thermal effects in sputtering. Surface Science, 1979, 90, 280-318.	1.9	145
14	Radiation damage in single-crystal ice studied by 100 keV proton channeling. Surface Science, 1979, 90, 357-358.	1.9	0
15	On the model of the electron sputtering process of alkali halides. Radiation Effects, 1980, 52, 9-13.	0.4	71
16	Interstitial Motion During Radiation Damage and Sputtering Processes. Physica Status Solidi (B): Basic Research, 1980, 97, 575-580.	1.5	20
17	Mechanisms of Defect Production in the Cation Sublattice of Ionic Crystals. Physica Status Solidi (B): Basic Research, 1980, 100, K17.	1.5	5
18	Cyanide chemistry of rubidium-dosed silver and the use of cyanogen as a titrant for surface alkali. Surface Science, 1981, 104, 63-73.	1.9	9
19	Optical Radiation from Electron-Stimulated Desorption of Excited Particles. Physical Review Letters, 1981, 46, 134-137.	7.8	53
20	Optical Radiation from Photon-Stimulated Desorption of Excited Atoms. Physical Review Letters, 1982, 49, 812-815.	7.8	73

ARTICLE IF CITATIONS # Mechanism of electron-excitation-induced defect creation in alkali halides. Radiation Effects, 1982, 64, 21 0.4 15 161-169. Electron and photon sputtering of alkali halides. Nuclear Instruments & Methods in Physics Research, 1982, 198, 9-15. Sputtering of alkali halides under ion bombardment. Nuclear Instruments & Methods in Physics 23 0.9 17 Research, 1982, 198, 29-32. Epitaxial crystal growth by sputter deposition: Applications to semiconductors. Part I. Critical 24 Reviews in Solid State and Materials Sciences, 1983, 11, 47-97. Auger decay mechanism in photon-stimulated desorption from sodium fluoride. Physical Review B, 25 3.2 40 1983, 28, 4793-4798. Sputtering by electrons and photons. Topics in Applied Physics, 1983, , 147-178. 0.8 24 Epitaxial crystal growth by sputter deposition: Applications to semiconductors. Part 2. Critical 27 12.3 20 Reviews in Solid State and Materials Sciences, 1983, 11, 189-227. Photon-stimulated desorption of neutrals from silver and alkali halides. Physical Review B, 1984, 29, 28 3.2 49 3573-3585. Beam-exposure dependence and mechanisms of photon-stimulated desorption from alkali fluorides. 29 3.2 41 Physical Review B, 1984, 29, 4709-4715. Electronically induced sputtering of UF4. Nuclear Instruments & Methods in Physics Research B, 1984, 1.4 5, 489-496. Desorption induced by electronic transitions. Nuclear Instruments & Methods in Physics Research B, 31 1.4 25 1984, 2, 457-460. Photon-stimulated desorption of neutral sodium from alkali halides observed by laser-induced 3.2 30 fluorescence. Physical Review B, 1985, 32, 6805-6808. Lambert emitters: a simple Monte-Carlo approach to optical diffusers. European Journal of Physics, 33 0.6 4 1985, 6, 183-187. Radiation Effects in Non-Metals. Modern Problems in Condensed Matter Sciences, 1986, 13, 387-471. 0.1 Temperature dependence of photon stimulated desorption of ground state and excited state Na from 35 1.9 24 NaCl. Surface Science, 1986, 169, 267-274. Dynamics of Electron and Photon Stimulated Desorption. Materials Research Society Symposia 0.1 Proceedings, 1986, 68, 435. Threshold effects and time dependence in electron-and photon-stimulated desorption. Nuclear 37 1.4 7 Instruments & Methods in Physics Research B, 1986, 18, 549-554. Mechanisms of electron- and photon-stimulated desorption in alkali halides. Nuclear Instruments & 1.4 Methods in Physics Research B, 1986, 13, 525-532.

CITATION REPORT

		CITATION REPORT		
#	Article		IF	CITATIONS
39	Some electron-induced changes at surfaces. Ultramicroscopy, 1987, 23, 291-297.		1.9	11
40	Mechanisms and theory of physical sputtering by particle impact. Nuclear Instruments Physics Research B, 1987, 27, 1-20.	& Methods in	1.4	258
41	Laser sputtering in the electronic excitation regime: Comparison with electron and ion Nuclear Instruments & Methods in Physics Research B, 1987, 27, 155-166.	sputtering.	1.4	75
42	Electronic transitions in surface and near-surface radiation effects. Nuclear Instrument in Physics Research B, 1988, 32, 321-330.	s & Methods	1.4	6
43	Sputtering of insulators. Nuclear Instruments & Methods in Physics Research B, 1988,	32, 331-340.	1.4	18
44	Optical excitations in electron-induced desorption of sodium from NaCl surface. Nucle Instruments & Methods in Physics Research B, 1988, 34, 27-31.	ar	1.4	5
45	Directional emission of nonthermal halogen atoms by electron bombardment of alkali Physical Review B, 1989, 39, 12950-12953.	nalides.	3.2	27
46	Electron stimulated desorption thresholds for excited atoms desorbed from alkali-halid Effects and Defects in Solids, 1989, 109, 203-212.	es. Radiation	1.2	14
47	Sputtering of alkali halides studied by a mass selected time of flight spectroscopy. Rad and Defects in Solids, 1989, 109, 189-202.	iation Effects	1.2	17
48	Surface enrichment of Li on LiF single crystal after cleaving or under electron bombard Science Letters, 1989, 224, A636.	ment. Surface	0.1	11
49	Electron-irradiation-induced structural and compositional changes on alkali halide surfa Science Letters, 1989, 219, L623-L627.	ices. Surface	0.1	0
50	Electron-irradiation-induced structural and compositional changes on alkali halide surfa Science, 1989, 219, L623-L627.	ices. Surface	1.9	32
51	Surface enrichment of Li on LiF single crystal after cleaving or under electron bombard Science, 1989, 224, 559-569.	nent. Surface	1.9	50
52	Current views on electronic and cascade sputtering of alkali halides. Nuclear Instrumer in Physics Research B, 1990, 46, 427-434.	ts & Methods	1.4	16
53	Electron damage to fluoride insulators as viewed by neutral atom scattering. Surface S 233, 153-162.	cience, 1990,	1.9	5
54	Photon-stimulated desorption of excited alkali atoms from alkali halides following core excitation. Surface Science, 1991, 243, 227-238.	-level	1.9	24
55	Nonthermal laser sputtering from solid surfaces. Nuclear Instruments & Methods in Ph B, 1991, 58, 452-462.	ysics Research	1.4	22
56	New mechanism for electron-stimulated desorption of nonthermal halogen atoms fron surfaces. Physical Review Letters, 1991, 67, 1906-1909.	n alkali-halide	7.8	82

#	Article	IF	CITATIONS
57	Electron stimulated desorption of neutral species from (100) KCl surfaces. Surface Science, 1992, 260, 295-303.	1.9	39
58	Photon-stimulated desorption of Na atoms from NaCl following core-level excitation. Surface Science, 1992, 271, 287-294.	1.9	9
59	Temperature dependent dynamic ESD processes in alkali halides. Nuclear Instruments & Methods in Physics Research B, 1992, 65, 507-511.	1.4	16
60	Defect Formation in Alkali Halide Crystals. Springer Series in Solid-state Sciences, 1993, , 220-269.	0.3	1
61	Excitonic instability and athermal halogen atom desorption from NaBr, KBr and RbBr. Radiation Effects and Defects in Solids, 1994, 128, 35-45.	1.2	6
62	Theoretical study of Na-atom emission from NaCl (100) surfaces. Physical Review B, 1994, 49, 11364-11373.	3.2	54
63	Emission of Na atoms from undamaged and slightly damaged NaCl (100) surfaces by electronic excitation. Physical Review B, 1994, 49, 4931-4937.	3.2	21
64	Time-of-flight investigation of the intensity dependence of laser-desorbed positive ions from SrF2. Applied Physics A: Solids and Surfaces, 1994, 58, 563-571.	1.4	14
65	Energy and angular distributions of sputtered particles. International Journal of Mass Spectrometry and Ion Processes, 1994, 140, 1-110.	1.8	184
66	Thermally assisted desorption processes in electron bombarded alkali halides. Vacuum, 1994, 45, 353-356.	3.5	8
67	Excitonic mechanism of athermal halogen atom desorption from NaBr, KBr and RbBr. Nuclear Instruments & Methods in Physics Research B, 1994, 91, 614-618.	1.4	10
68	Electron-stimulated desorption from ionic crystal surfaces. Progress in Surface Science, 1995, 48, 83-96.	8.3	38
69	ESD from ionic crystals. Surface Science, 1996, 365, 547-556.	1.9	19
70	12. Laser Ablation in Optical Components and thin Films. Experimental Methods in the Physical Sciences, 1997, , 573-624.	0.1	4
71	5. Plume Formation and Characterization in Laser-Surface Interactions. Experimental Methods in the Physical Sciences, 1997, 30, 225-289.	0.1	12
72	On the mechanisms of target modification by ion beams and laser pulses. Nuclear Instruments & Methods in Physics Research B, 1997, 122, 374-400.	1.4	90
73	Hot-carrier transport processes in stimulated desorption of alkali halides. Physical Review B, 1998, 58, 13204-13211.	3.2	19
74	Decay of the self-trapped exciton near the (001) surface in NaBr and KBr. Journal of Physics Condensed Matter, 1999, 11, 5699-5708.	1.8	7

CITATION REPORT

CITATION REPORT

#	Article	IF	CITATIONS
75	Electron- and photon-stimulated desorption of atomic hydrogen from radiation-modified alkali halide surfaces. Physical Review B, 2000, 62, 10535-10543.	3.2	12
76	The structure of NaCl(100) and KCl(100) single crystal surfaces: a tensor low energy electron diffraction analysis. Surface Science, 2001, 491, 155-168.	1.9	65
77	Nonlinear Responses of Electronic-Excitation-Induced Phase Transformations in GaSb Nanoparticles. Physical Review Letters, 2004, 92, 135501.	7.8	14
78	Electron-irradiation-induced phase separation in GaSb nanoparticles. Physical Review B, 2004, 70, .	3.2	17
79	The structure of CaF2(111) and BaF2(111) single crystal surfaces: A tensor low energy electron diffraction study. Surface Science, 2005, 578, 57-70.	1.9	32
80	Dynamics induced by electronic transitions: Finite-temperature relaxation of self-trapped excitons to defects in NaCl. Surface Science, 2005, 593, 89-101.	1.9	4
81	Interaction of wide-band-gap single crystals with 248-nm excimer laser radiation. XI. The effect of water vapor and temperature on laser desorption of neutral atoms from sodium chloride. Journal of Applied Physics, 2005, 97, 043502.	2.5	6
82	Interaction of wide-band-gap single crystals with 248-nm excimer laser irradiation. IX. Photoinduced atomic desorption from cleaved NaCl(100) surfaces. Journal of Applied Physics, 2005, 98, 013506.	2.5	10
83	Effect of electron flux on electronic-excitation-induced phase separation in GaSb nanoparticles. European Physical Journal D, 2006, 37, 231-235.	1.3	9
84	Electron Dose Rate Dependence of Phase Separation Induced by Electronic Excitation in GaSb Nanoparticles. Solid State Phenomena, 2007, 127, 141-146.	0.3	0
85	In situ TEM observation of synergistic electronic-excitation-effects of phase stability in III-V binary compound nanoparticles. European Physical Journal D, 2007, 43, 177-180.	1.3	2
86	Process of phase separation induced by low energy electronic excitation in GaSb nanoparticles. Journal of Physics: Conference Series, 2008, 100, 052081.	0.4	0
87	Detection System for KeV Proton Beam Scattered from an ESD-surface with Monolayer Pits of Alkali Halide Crystal. Journal of the Vacuum Society of Japan, 2017, 60, 153-157.	0.3	2
88	The Electronic Desorption of Excited Alkali Atoms from Alkali Halide Surfaces. Springer Series in Chemical Physics, 1983, , 156-162.	0.2	6
89	The Contribution of Electronic Processes in Sputtering. Springer Series in Chemical Physics, 1983, , 220-228.	0.2	3
90	The Role of Hot Hole Migration in Electronic Sputtering of Alkali Halides. Springer Series in Surface Sciences, 1993, , 299-303.	0.3	1
91	Electronically Induced Desorption of Neutral Atoms Observed by Optical Techniques. Springer Series in Surface Sciences, 1985, , 152-159.	0.3	4
92	Stimulated Desorption from Alkali Halides. Springer Series in Surface Sciences, 1990, , 270-280.	0.3	6

#	Article	IF	CITATIONS
93	Different Processes for Desorption of Ground- and Excited-State Atoms Under Electron Bombardment of Alkali-Halides. Springer Series in Surface Sciences, 1990, , 289-296.	0.3	3
94	Optical Radiation from Electron Sputtering of Alkali Halides. Springer Series in Chemical Physics, 1981, , 112-118.	0.2	3
95	Perturbations of the Sputtering Yield. , 1980, , 339-354.		0
97	Bombardment of Alkali and Alkali-Earth Halides by Ions and Electrons. , 1989, , 109-115.		0
98	lon Energy Dissipation and Sputtering During Bomberdment of Multicomponent Materials. , 1989, , 61-102.		1
99	The Physics of the Sputter Erosion Process. , 1990, , 185-199.		0
100	Defect Formation in Alkali Halide Crystals. Springer Series in Solid-state Sciences, 1996, , 220-269.	0.3	2
102	Reassessment of defect formation and structures of luminescence sites. Journal of Luminescence, 2023, 263, 120003.	3.1	0

CITATION REPORT