

B N Dev

List of Publications by Year in descending order

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57
papers

1,245
citations

430874

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361022

35
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58
all docs

58
docs citations

58
times ranked

1391
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantum phenomena in nanostructures. Journal of Physics: Conference Series, 2021, 1718, 012003.	0.4	0
2	Tuning the length/width aspect ratio of epitaxial unidirectional silicide nanowires on Si(110)-16 Å ² surfaces. Nano Express, 2020, 1, 020045.	2.4	1
3	Towards x-ray waveguide formation upon ion irradiation of a Co thin film on Si(111). Materials Research Express, 2019, 6, 056419.	1.6	0
4	Recrystallization in Si upon ion irradiation at room temperature in Co/Si(111) thin film systems. AIP Conference Proceedings, 2018, , .	0.4	0
5	Nanoscale $\hat{\Gamma}$ -NiSi formation via ion irradiation of Si/Ni/Si. Journal of Applied Physics, 2017, 121, 045302.	2.5	4
6	Evidence of Formation of Superdense Nonmagnetic Cobalt. Scientific Reports, 2017, 7, 41856.	3.3	10
7	Sign reversals of magnetoresistance in ion-irradiated Co/Cu multilayers at high fluences. AIP Conference Proceedings, 2017, , .	0.4	0
8	Ion irradiation effects on a magnetic Si/Ni/Si trilayer and lateral magnetic “nonmagnetic multistrip patterning by focused ion beam. Indian Journal of Physics, 2017, 91, 1167-1172.	1.8	3
9	An extended fractal growth regime in the diffusion limited aggregation including edge diffusion. AIP Advances, 2016, 6, .	1.3	13
10	Real time investigation of the effect of thermal expansion coefficient mismatch on film-substrate strain partitioning in Ag/Si systems. Journal of Applied Physics, 2016, 120, 135301.	2.5	2
11	Self-organized patterns along sidewalls of iron silicide nanowires on Si(110) and their origin. Applied Physics Letters, 2014, 105, 191606.	3.3	18
12	Ascertaining the nanocluster formation within an ion-irradiated Pt/Ni/C multi-trilayer with X-ray absorption spectroscopy. Journal of Synchrotron Radiation, 2013, 20, 137-144.	2.4	1
13	Growth of a-few-atom wide nanowires with different surface reconstructions via desorption of Au on vicinal Si (111) surfaces. , 2013, , .		0
14	Self-organized one-atom thick fractal nanoclusters via field-induced atomic transport. Journal of Applied Physics, 2013, 114, 064304.	2.5	8
15	First principles electronic structure of coincidence site epitaxial Ag/Si(111) interface. Physica Status Solidi (B): Basic Research, 2013, 250, 1313-1319.	1.5	17
16	Early stage fractal growth in thin films below the percolation limit. , 2013, , .		1
17	Simultaneous growth of sub-nanometer deep vacancy island and epitaxial silicide islands on Si (111). , 2013, , .		0
18	Manifestation of surface and interface properties of Ag overlayer on Si (111). , 2013, , .		0

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19	Nanodot to nanowire: A strain-driven shape transition in self-organized endotaxial CoSi ₂ on Si(100). Applied Physics Letters, 2012, 100, .	3.3	27
20	A reaction diffusion model of pattern formation in clustering of adatoms on silicon surfaces. AIP Advances, 2012, 2, 042101.	1.3	4
21	Epitaxy-like orientation of nanoscale Ag islands grown on air-oxidized Si(110) (5% $\sqrt{3}$ -1) surfaces. Surface and Interface Analysis, 2012, 44, 513-518.	1.8	1
22	Ion-beam-induced mixing in a Si/Co/Si system involving ultrathin layers: A grazing-incidence X-ray standing-wave study. Physica Status Solidi (A) Applications and Materials Science, 2012, 209, 1511-1519.	1.8	2
23	X-ray Standing Wave in a Multi-Trilayer System With Linearly Varying Period. , 2011, , .		0
24	X-Ray And Polarized Neutron Reflectometry: Characterization Of Si ¹³ C ¹⁵ Si And Si ¹³ Ni ¹⁵ Si Systems. , 2010, , .		1
25	Ion Beams: A Powerful Tool for Making New Functional Materials. , 2010, , .		0
26	ZnO 1-D nanostructures: Low temperature synthesis and characterizations. Bulletin of Materials Science, 2008, 31, 551-559.	1.7	18
27	Electronic structure of Ag-adsorbed nanowire-like stripes on Si(110) (16 $\sqrt{3}$ -2) surfaces. I. An in situ STM and STS experiment. Physical Review B, 2008, 77, .	3.2	11
28	Electronic structure of Ag-adsorbed nanowire-like stripes on Si(110) (16 $\sqrt{3}$ -2) surfaces. II. A one-dimensional tight-binding model with Green's function approach. Physical Review B, 2008, 77, .	3.2	3
29	Probing Atomic Migration in Nanostructured Multilayers: Application of X-Ray Standing Wave Fields. Physical Review Letters, 2007, 98, 196103.	7.8	26
30	Microstructural evolution, atomic migration, and FePt nanoparticle formation in ion-irradiated Pt(Fe)/C(Fe) multilayers. Journal of Applied Physics, 2007, 102, 014308.	2.5	10
31	Two mega-electron volt proton-irradiation effects on fullerene films. Radiation Effects and Defects in Solids, 2007, 162, 223-228.	1.2	2
32	Proton microbeam irradiation effects on PtBA polymer. Bulletin of Materials Science, 2006, 29, 101-105.	1.7	2
33	Ion-beam induced transformations in nanoscale multilayers: Evolution of clusters with preferred length scales. Journal of Applied Physics, 2006, 99, 074301.	2.5	17
34	Ion-beam-induced embedded nanostructures and nanoscale mixing. Journal of Applied Physics, 2004, 96, 5212-5216.	2.5	23
35	Understanding the quantum size effects in ZnO nanocrystals. Journal of Materials Chemistry, 2004, 14, 661.	6.7	297
36	Synthesis and Characterization of Mn-Doped ZnO Nanocrystals. Journal of Physical Chemistry B, 2004, 108, 6303-6310.	2.6	279

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37	LAYERED SYNTHETIC MICROSTRUCTURES: IMPORTANCE OF A COMBINED X-RAY STANDING WAVE AND X-RAY REFLECTIVITY ANALYSIS. , 2003, , .		0
38	GROWTH OF SELF-ASSEMBLED EPITAXIAL GERMANIUM NANOISLANDS ON SILICON SURFACES BY MOLECULAR BEAM EPITAXY. , 2003, , .		0
39	X-ray standing wave and reflectometric characterization of multilayer structures. Physical Review B, 2001, 63, .	3.2	64
40	Response to "Comment on "Self-assembled Ge nanostructures on polymer-coated silicon: Growth and characterization" [Appl. Phys. Lett. 78, 3550 (2001)]. Applied Physics Letters, 2001, 78, 3552-3553.	3.3	5
41	Ion-irradiation-induced mixing, interface broadening and period dilation in Pt/C multilayers. Applied Physics Letters, 2001, 79, 467-469.	3.3	24
42	Resonance enhancement of x-rays and fluorescence yield from marker layers in thin films. Physical Review B, 2001, 64, .	3.2	27
43	Self-assembled Ge nanostructures on polymer-coated silicon: Growth and characterization. Applied Physics Letters, 2000, 77, 951.	3.3	22
44	Self-assembled gold silicide wires on bromine-passivated Si(110) surfaces. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2000, 18, 1847.	1.6	19
45	Resonance enhancement of x rays in layered materials: Application to surface enrichment in polymer blends. Physical Review B, 2000, 61, 8462-8468.	3.2	35
46	High energy high dose Si implantation into Ge and the effect of subsequent thermal annealing. Radiation Effects and Defects in Solids, 1999, 147, 133-149.	1.2	2
47	Structural and phase transition studies of layered materials by X-ray standing waves. , 1997, , .		1
48	Shape transition in the epitaxial growth of gold silicide in Au thin films on Si(111). Physical Review B, 1995, 51, 14330-14336.	3.2	62
49	Investigation of the electronic structures and associated properties including hyperfine interactions for halogen-adsorbed silicon surfaces: Fluorine through iodine. Physical Review B, 1988, 38, 12556-12566.	3.2	28
50	Investigation of location, electronic structures, and associated properties of chalcogen atoms adsorbed on silicon surfaces: Sulfur and selenium. Physical Review B, 1988, 38, 13335-13342.	3.2	1
51	Experimental and theoretical investigation of chemisorbed Ga on Si(111). Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1988, 6, 681-685.	2.1	24
52	First-principles investigation of geometric and electronic structures of aluminum adsorbed on silicon surfaces. Physical Review B, 1987, 36, 2666-2674.	3.2	36
53	Geometrical Structures of the Ge/Si(111) Interface and the Si(111) (7Å-7) Surface. Physical Review Letters, 1986, 57, 3058-3061.	7.8	36
54	First principles investigation of chemisorption of moderately heavy atoms on semiconductor surfaces" bromine on silicon. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1986, 4, 2441-2446.	2.1	5

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55	An x-ray standing wave interference spectrometric analysis of chemisorption of selenium on silicon(111) and (220) surfaces. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1985, 3, 946-949.	2.1	19
56	Summary Abstract: An x-ray standing wave interference spectrometric (XSWIS) analysis of bromine adsorbed on cleaved silicon from solution. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1985, 3, 975-975.	2.1	4
57	First-principles investigation of location and electronic structure of adsorbed halogen atoms on semiconductor surfaces. Physical Review B, 1984, 29, 1101-1104.	3.2	27