

B N Dev

List of Publications by Year in descending order

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57
papers

1,245
citations

430874

18
h-index

361022

35
g-index

58
all docs

58
docs citations

58
times ranked

1391
citing authors

#	ARTICLE	IF	CITATIONS
1	Understanding the quantum size effects in ZnO nanocrystals. <i>Journal of Materials Chemistry</i> , 2004, 14, 661.	6.7	297
2	Synthesis and Characterization of Mn-Doped ZnO Nanocrystals. <i>Journal of Physical Chemistry B</i> , 2004, 108, 6303-6310.	2.6	279
3	X-ray standing wave and reflectometric characterization of multilayer structures. <i>Physical Review B</i> , 2001, 63, .	3.2	64
4	Shape transition in the epitaxial growth of gold silicide in Au thin films on Si(111). <i>Physical Review B</i> , 1995, 51, 14330-14336.	3.2	62
5	Geometrical Structures of the Ge/Si(111) Interface and the Si(111) ($7\text{\AA}-7$) Surface. <i>Physical Review Letters</i> , 1986, 57, 3058-3061.	7.8	36
6	First-principles investigation of geometric and electronic structures of aluminum adsorbed on silicon surfaces. <i>Physical Review B</i> , 1987, 36, 2666-2674.	3.2	36
7	Resonance enhancement of x rays in layered materials: Application to surface enrichment in polymer blends. <i>Physical Review B</i> , 2000, 61, 8462-8468.	3.2	35
8	Investigation of the electronic structures and associated properties including hyperfine interactions for halogen-adsorbed silicon surfaces: Fluorine through iodine. <i>Physical Review B</i> , 1988, 38, 12556-12566.	3.2	28
9	First-principles investigation of location and electronic structure of adsorbed halogen atoms on semiconductor surfaces. <i>Physical Review B</i> , 1984, 29, 1101-1104.	3.2	27
10	Resonance enhancement of x-rays and fluorescence yield from marker layers in thin films. <i>Physical Review B</i> , 2001, 64, .	3.2	27
11	Nanodot to nanowire: A strain-driven shape transition in self-organized endotaxial CoSi ₂ on Si(100). <i>Applied Physics Letters</i> , 2012, 100, .	3.3	27
12	Probing Atomic Migration in Nanostructured Multilayers: Application of X-Ray Standing Wave Fields. <i>Physical Review Letters</i> , 2007, 98, 196103.	7.8	26
13	Experimental and theoretical investigation of chemisorbed Ga on Si(111). <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1988, 6, 681-685.	2.1	24
14	Ion-irradiation-induced mixing, interface broadening and period dilation in Pt/C multilayers. <i>Applied Physics Letters</i> , 2001, 79, 467-469.	3.3	24
15	Ion-beam-induced embedded nanostructures and nanoscale mixing. <i>Journal of Applied Physics</i> , 2004, 96, 5212-5216.	2.5	23
16	Self-assembled Ge nanostructures on polymer-coated silicon: Growth and characterization. <i>Applied Physics Letters</i> , 2000, 77, 951.	3.3	22
17	An x-ray standing wave interference spectrometric analysis of chemisorption of selenium on silicon(111) and (220) surfaces. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1985, 3, 946-949.	2.1	19
18	Self-assembled gold silicide wires on bromine-passivated Si(110) surfaces. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2000, 18, 1847.	1.6	19

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19	ZnO 1-D nanostructures: Low temperature synthesis and characterizations. Bulletin of Materials Science, 2008, 31, 551-559.	1.7	18
20	Self-organized patterns along sidewalls of iron silicide nanowires on Si(110) and their origin. Applied Physics Letters, 2014, 105, 191606.	3.3	18
21	Ion-beam induced transformations in nanoscale multilayers: Evolution of clusters with preferred length scales. Journal of Applied Physics, 2006, 99, 074301.	2.5	17
22	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
23	An extended fractal growth regime in the diffusion limited aggregation including edge diffusion. AIP Advances, 2016, 6, .	1.3	13
24	Electronic structure of Ag-adsorbed nanowire-like stripes on Si(110) $\sqrt{16 \times 2}$ surfaces. I. An in situ STM and STS experiment. Physical Review B, 2008, 77, .	3.2	11
25	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
26	Evidence of Formation of Superdense Nonmagnetic Cobalt. Scientific Reports, 2017, 7, 41856.	3.3	10
27	Self-organized one-atom thick fractal nanoclusters via field-induced atomic transport. Journal of Applied Physics, 2013, 114, 064304.	2.5	8
28	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
29	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
30	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
31	A reaction diffusion model of pattern formation in clustering of adatoms on silicon surfaces. AIP Advances, 2012, 2, 042101.	1.3	4
32	Nanoscale δ -NiSi formation via ion irradiation of Si/Ni/Si. Journal of Applied Physics, 2017, 121, 045302.	2.5	4
33	Electronic structure of Ag-adsorbed nanowire-like stripes on Si(110) $\sqrt{16 \times 2}$ surfaces. II. A one-dimensional tight-binding model with Green's function approach. Physical Review B, 2008, 77, .	3.2	3
34	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
35	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
36	Proton microbeam irradiation effects on PtBA polymer. Bulletin of Materials Science, 2006, 29, 101-105.	1.7	2

#	ARTICLE	IF	CITATIONS
37	Two mega-electron volt proton-irradiation effects on fullerene films. Radiation Effects and Defects in Solids, 2007, 162, 223-228.	1.2	2
38	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
39	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
40	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
41	Structural and phase transition studies of layered materials by X-ray standing waves. , 1997, , .		1
42	X-Ray And Polarized Neutron Reflectometry: Characterization Of Si-Co-Si And Si-Ni-Si Systems. , 2010, , .		1
43	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
44	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
45	Early stage fractal growth in thin films below the percolation limit. , 2013, , .		1
46	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
47	LAYERED SYNTHETIC MICROSTRUCTURES: IMPORTANCE OF A COMBINED X-RAY STANDING WAVE AND X-RAY REFLECTIVITY ANALYSIS. , 2003, , .		0
48	Ion Beams: A Powerful Tool for Making New Functional Materials. , 2010, , .		0
49	X-ray Standing Wave in a Multi-Trilayer System With Linearly Varying Period. , 2011, , .		0
50	Growth of a-few-atom wide nanowires with different surface reconstructions via desorption of Au on vicinal Si (111) surfaces. , 2013, , .		0
51	Simultaneous growth of sub-nanometer deep vacancy island and epitaxial silicide islands on Si (111). , 2013, , .		0
52	Manifestation of surface and interface properties of Ag overlayer on Si (111). , 2013, , .		0
53	Sign reversals of magnetoresistance in ion-irradiated Co/Cu multilayers at high fluences. AIP Conference Proceedings, 2017, , .	0.4	0
54	Recrystallization in Si upon ion irradiation at room temperature in Co/Si(111) thin film systems. AIP Conference Proceedings, 2018, , .	0.4	0

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55	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
56	Quantum phenomena in nanostructures. Journal of Physics: Conference Series, 2021, 1718, 012003.	0.4	0
57	GROWTH OF SELF-ASSEMBLED EPITAXIAL GERMANIUM NANOSLANDS ON SILICON SURFACES BY MOLECULAR BEAM EPITAXY. , 2003, , .		0