

List of Publications by Year in descending order

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30
papers

1,074
citations

516215

16
h-index

454577

30
g-index

30
all docs

30
docs citations

30
times ranked

1409
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrical transport studies of Ag nanoclusters embedded in glass matrix. <i>Physica B: Condensed Matter</i> , 2001, 299, 142-146.	1.3	344
2	Formation, Dynamics, and Characterization of Nanostructures by Ion Beam Irradiation. <i>Critical Reviews in Solid State and Materials Sciences</i> , 2007, 32, 1-50.	6.8	71
3	Nanohomojunction (GaN) and Nanoheterojunction (InN) Nanorods on One-Dimensional GaN Nanowire Substrates. <i>Advanced Functional Materials</i> , 2004, 14, 233-237.	7.8	68
4	Growth and Optical Properties of Self-Organized Au ₂ Si Nanospheres Pea-Podded in a Silicon Oxide Nanowire. <i>Advanced Materials</i> , 2002, 14, 1847-1850.	11.1	63
5	Enhanced dynamic annealing in Ga ⁺ ion-implanted GaN nanowires. <i>Applied Physics Letters</i> , 2003, 82, 451-453.	1.5	63
6	Multiphonon Raman scattering in GaN nanowires. <i>Applied Physics Letters</i> , 2007, 90, 213104.	1.5	49
7	Surface optical modes in GaN nanowires. <i>International Journal of Nanotechnology</i> , 2010, 7, 823.	0.1	39
8	Hexagonal-to-cubic phase transformation in GaN nanowires by Ga ⁺ implantation. <i>Applied Physics Letters</i> , 2004, 84, 5473-5475.	1.5	38
9	Room temperature H ₂ sensing using functionalized GaN nanotubes with ultra low activation energy. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 3513-3520.	3.8	35
10	Blueshift of yellow luminescence band in self-ion-implanted n-GaN nanowire. <i>Applied Physics Letters</i> , 2004, 84, 3486-3488.	1.5	33
11	Role of Surface Polarity in Self-Catalyzed Nucleation and Evolution of GaN Nanostructures. <i>Crystal Growth and Design</i> , 2012, 12, 2375-2381.	1.4	32
12	Quasi-quenching size effects in gold nanoclusters embedded in silica matrix. <i>Chemical Physics Letters</i> , 2003, 370, 254-260.	1.2	30
13	Fractal nature of ϵ -bonded nanocrystalline clusters: AN+beam-induced phenomenon in poly(2,6-dimethyl-1,4-phenylene oxide). <i>Physical Review B</i> , 1999, 59, 11069-11076.	1.1	23
14	Influence of oxygen in architecting large scale nonpolar GaN nanowires. <i>Journal of Materials Chemistry C</i> , 2013, 1, 8086.	2.7	22
15	Mechanism of nanoblisters formation in Ga ⁺ self-ion implanted GaN nanowires. <i>Applied Physics Letters</i> , 2005, 86, 203119.	1.5	21
16	Mechanism of bright red emission in Si nanoclusters. <i>Nanotechnology</i> , 2008, 19, 395401.	1.3	21
17	Probing the cellular damage in bacteria induced by GaN nanoparticles using confocal laser Raman spectroscopy. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	0.8	16
18	Optical characterization of GaN by N ⁺ implantation into GaAs at elevated temperature. <i>Applied Physics Letters</i> , 2005, 87, 261915.	1.5	15

#	ARTICLE	IF	CITATIONS
19	Morphology of InN nanorods using spectroscopic Raman imaging. Journal of Raman Spectroscopy, 2013, 44, 791-794.	1.2	15
20	Probing crystallographic orientation of a single GaN nanotube using polarized Raman imaging. Journal of Raman Spectroscopy, 2013, 44, 651-654.	1.2	13
21	Interface energy of Au ₇ Si grown in the interfacial layer of truncated hexagonal dipyramidal Au nanoislands on polycrystalline-silicon. Applied Physics Letters, 2003, 82, 4468-4470.	1.5	11
22	Ion-beam mixing in an immiscible Fe/Ag multilayer film. Journal of Applied Physics, 2004, 95, 5295-5300.	1.1	10
23	Formation and in situ dynamics of metallic nanoblisters in Ga-implanted GaN nanowires. Nanotechnology, 2005, 16, 2764-2769.	1.3	9
24	Focused Ion Beam Induced Nanojunction and Defect Doping as a Building Block for Nanoscale Electronics in GaN Nanowires. Journal of Physical Chemistry C, 2010, 114, 15260-15265.	1.5	7
25	Resonant exciton-phonon coupling in ZnO nanorods at room temperature. AIP Advances, 2011, 1, 032135.	0.6	7
26	Nitrogen ion beam synthesis of InN in InP(100) at elevated temperature. Applied Physics Letters, 2006, 88, 241904.	1.5	6
27	Raoult's Formalism in Understanding Low-Temperature Growth of GaN Nanowires Using Binary Precursor. Journal of Physical Chemistry C, 2013, 117, 21930-21935.	1.5	6
28	Photo-induced tunable local oxidation and fragmentation in Pt ultra-nanoclusters functionalized GaN nanotubes. Journal of Nanoparticle Research, 2012, 14, 1.	0.8	3
29	A novel route of synthesis of aluminium nano-aggregates: an ion beam modification in metal-organic complex. Journal Physics D: Applied Physics, 2001, 34, 243-247.	1.3	2
30	Comment on "Gold nanowires from silicon nanowire templates" [Appl. Phys. Lett. 84, 407 (2004)]. Applied Physics Letters, 2004, 85, 692-692.	1.5	2