

Oana Malis

List of Publications by Year in descending order

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papers

1,149
citations

430874

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395702

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docs citations

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times ranked

1587
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanoscale Alloying, Phase-Segregation, and Core-Shell Evolution of Gold-Platinum Nanoparticles and Their Electrocatalytic Effect on Oxygen Reduction Reaction. Chemistry of Materials, 2010, 22, 4282-4294.	6.7	205
2	Gold-Copper Nanoparticles: Nanostructural Evolution and Bifunctional Catalytic Sites. Chemistry of Materials, 2012, 24, 4662-4674.	6.7	85
3	Improvement of second-harmonic generation in quantum-cascade lasers with true phase matching. Applied Physics Letters, 2004, 84, 2721-2723.	3.3	65
4	Quasi-coherent thermal emitter based on refractory plasmonic materials. Optical Materials Express, 2015, 5, 2721.	3.0	64
5	Repeatable low-temperature negative-differential resistance from Al _{0.18} Ga _{0.82} N/GaN resonant tunneling diodes grown by molecular-beam epitaxy on free-standing GaN substrates. Applied Physics Letters, 2012, 100, .	3.3	56
6	Catalytic activity of bimetallic catalysts highly sensitive to the atomic composition and phase structure at the nanoscale. Nanoscale, 2015, 7, 18936-18948.	5.6	53
7	Si(100) surface morphology evolution during normal-incidence sputtering with 100-500 eV Ar ⁺ ions. Applied Physics Letters, 2002, 81, 2770-2772.	3.3	49
8	Terahertz intersubband absorption in non-polar m-plane AlGa _N /Ga _N quantum wells. Applied Physics Letters, 2014, 105, .	3.3	49
9	Milliwatt second harmonic generation in quantum cascade lasers with modal phase matching. Electronics Letters, 2004, 40, 1586.	1.0	33
10	Ion-induced pattern formation on Co surfaces: An x-ray scattering and kinetic Monte Carlo study. Physical Review B, 2002, 66, .	3.2	31
11	Near-infrared intersubband absorption in molecular-beam epitaxy-grown lattice-matched InAlN/GaN superlattices. Applied Physics Letters, 2009, 94, 161111.	3.3	31
12	Improvement of near-infrared absorption linewidth in AlGa _N /Ga _N superlattices by optimization of delta-doping location. Applied Physics Letters, 2012, 101, .	3.3	29
13	In situ real-time x-ray diffraction study of phase segregation in Au-Pt nanoparticles. Nanotechnology, 2009, 20, 245708.	2.6	28
14	Comparative study of intersubband absorption in AlGa _N /Ga _N and AlInN/GaN superlattices: Impact of material inhomogeneities. Physical Review B, 2013, 88, .	3.2	28
15	Temperature-dependence of negative differential resistance in GaN/AlGa _N resonant tunneling structures. Semiconductor Science and Technology, 2013, 28, 074024.	2.0	28
16	Surface morphology evolution of m-plane (11 $\bar{0}0$) GaN during molecular beam epitaxy growth: Impact of Ga/N ratio, miscut direction, and growth temperature. Journal of Applied Physics, 2013, 114, 023508.	2.5	28
17	Homogeneous AlGa _N /Ga _N superlattices grown on free-standing (11 $\bar{0}0$) GaN substrates by plasma-assisted molecular beam epitaxy. Applied Physics Letters, 2013, 103, .	3.3	23
18	Coherent vertical electron transport and interface roughness effects in AlGa _N /Ga _N intersubband devices. Journal of Applied Physics, 2015, 118, .	2.5	22

#	ARTICLE	IF	CITATIONS
19	Near-Infrared Absorption in Lattice-Matched AlInN/GaN and Strained AlGaIn/GaN Heterostructures Grown by MBE on Low-Defect GaN Substrates. <i>Journal of Electronic Materials</i> , 2012, 41, 881-886.	2.2	19
20	Nanoalloying and phase transformations during thermal treatment of physical mixtures of Pd and Cu nanoparticles. <i>Science and Technology of Advanced Materials</i> , 2014, 15, 025002.	6.1	14
21	Impact of growth conditions and strain on indium incorporation in non-polar m-plane (101 \bar{A}) InGaIn grown by plasma-assisted molecular beam epitaxy. <i>APL Materials</i> , 2019, 7, .	5.1	14
22	Kinetics of phase transitions in equiatomic CuAu. <i>Physical Review B</i> , 1999, 60, 14675-14682.	3.2	12
23	Low-temperature phase and morphology transformations in noble metal nanocatalysts. <i>Nanotechnology</i> , 2011, 22, 025701.	2.6	11
24	Kinetic instability of AlGaIn alloys during MBE growth under metal-rich conditions on m-plane GaN miscut towards the -c axis. <i>Journal of Applied Physics</i> , 2018, 123, 161581.	2.5	11
25	The quantum cascade laser: A versatile high-power semiconductor laser for mid-infrared applications. <i>Bell Labs Technical Journal</i> , 2005, 10, 199-214.	0.7	10
26	Saturation of intersubband transitions in p-doped GaAs \bar{A} AlGaAs quantum wells. <i>Applied Physics Letters</i> , 2008, 92, .	3.3	10
27	Conductivity of r.f.-sputtered Ni 100 \bar{A} x \bar{A} Si x thin films with 33 \bar{A} \bar{A} x \bar{A} \bar{A} 77 at.%. <i>Thin Solid Films</i> , 1995, 259, 105-112.	1.8	9
28	Temperature-dependent current injection and lasing in T-shaped quantum-wire laser diodes with perpendicular p- and n-doping layers. <i>Applied Physics Letters</i> , 2007, 90, 091108.	3.3	9
29	Harnessing molecule \bar{A} solid duality of nanoclusters/nanoparticles for nanoscale control of size, shape and alloying. <i>Chemical Communications</i> , 2011, 47, 9885.	4.1	9
30	3D Hybrid Trilayer Heterostructure: Tunable Au Nanorods and Optical Properties. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 45015-45022.	8.0	9
31	Photoluminescence study of non-polar m-plane InGaIn and nearly strain-balanced InGaIn/AlGaIn superlattices. <i>Journal of Applied Physics</i> , 2020, 127, .	2.5	9
32	Dramatic enhancement of near-infrared intersubband absorption in c-plane AlInN/GaN superlattices. <i>Applied Physics Letters</i> , 2016, 108, .	3.3	8
33	Limited grain growth and chemical ordering during high-temperature sintering of PtNiCo nanoparticle aggregates. <i>Nanotechnology</i> , 2012, 23, 335705.	2.6	7
34	Intersubband Transitions in Nonpolar \bar{A} Plane AlGaIn/GaN Heterostructures. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018, 215, 1700828.	1.8	7
35	Indium surfactant assisted epitaxy of non-polar (10 1 \bar{A} 0) AlGaIn/InGaIn multiple quantum well heterostructures. <i>Journal of Applied Physics</i> , 2020, 128, 115701.	2.5	7
36	Bound-to-bound midinfrared intersubband absorption in carbon-doped GaAs \bar{A} AlGaAs quantum wells. <i>Applied Physics Letters</i> , 2005, 87, 091116.	3.3	6

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37	AlN-based hybrid thin films with self-assembled plasmonic Au and Ag nano-inclusions. Applied Physics Letters, 2019, 114, .	3.3	6
38	Effect of Intergrowth Defects on the X-Ray Diffraction Pattern. I. Structure Simulations. Physica Status Solidi A, 1995, 147, 31-43.	1.7	5
39	MBE development of dilute nitrides for commercial long-wavelength laser applications. Journal of Crystal Growth, 2003, 251, 432-436.	1.5	5
40	Mid-infrared hole-intersubband electroluminescence in carbon-doped GaAs ⁺ AlGaAs quantum cascade structures. Applied Physics Letters, 2006, 88, 081117.	3.3	5
41	An X-ray scattering and simulation study of the ordering kinetics in CuAu. Europhysics Letters, 1998, 43, 629-634.	2.0	4
42	Monte Carlo study of short-range order and displacement effects in disordered CuAu. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1999, 79, 869-879.	0.6	4
43	Interdiffusion effects and line broadening of hole intersubband absorption in complex GaAs/AlGaAs quantum well structures. Journal of Applied Physics, 2010, 107, .	2.5	4
44	Mid-infrared intersubband absorption in strain-balanced non-polar (In)AlGaIn/InGaIn multi-quantum wells. Optical Materials Express, 2021, 11, 3284.	3.0	4
45	Effect of Intergrowth Defects on the X-Ray Diffraction Pattern. II. A Case Study of Bi-Based Superconductors. Physica Status Solidi A, 1995, 147, 325-333.	1.7	3
46	Temperature dependence of the diffuse-scattering fine structure in equiatomic CuAu. Physical Review B, 1999, 59, 11105-11108.	3.2	3
47	Temperature dependence of the diffuse-scattering fine structure in Cu-Pd alloys. Physical Review B, 2001, 63, .	3.2	3
48	Evolution of indium segregation in metal-polar In _{0.17} Al _{0.83} N lattice-matched to GaN grown by plasma assisted molecular beam epitaxy. Journal of Crystal Growth, 2018, 500, 52-57.	1.5	3
49	Strong heavy-to-light hole intersubband absorption in the valence band of carbon-doped GaAs/AlAs superlattices. Journal of Applied Physics, 2013, 113, 053103.	2.5	2
50	Effect of Chemical Composition on the Nanoscale Ordering Transformations of Physical Mixtures of Pd and Cu Nanoparticles. Journal of Nanomaterials, 2018, 2018, 1-10.	2.7	2
51	Overcoming anomalous suppression of m-plane AlGaIn growth by molecular-beam epitaxy using indium as a surfactant. Journal of Applied Physics, 2021, 130, 105702.	2.5	2
52	Recent progress in nonlinear quantum cascade lasers. , 2005, 5738, 80.		1
53	In _[sub 0.68] Ga _[sub 0.32] As ⁺ Al _[sub 0.64] In _[sub 0.36] As ⁺ InP 4.5 μ m quantum cascade lasers grown by solid phosphorus molecular beam epitaxy. Journal of Vacuum Science & Technology B, 2007, 25, 913.	1.3	1
54	Intersubband Transitions in Lattice-Matched AlInN/GaN Heterostructures. , 2010, , .		1

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55	Quantum band engineering of nitride semiconductors for infrared lasers. Proceedings of SPIE, 2014, , .	0.8	1
56	Monte Carlo study of short-range order and displacement effects in disordered CuAu. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1999, 79, 869-879.	0.6	1
57	Photoluminescence Study of Carrier Localization and Recombination in Nearly Strain-Balanced Nonpolar InGaN/AlGaIn Quantum Wells. Physica Status Solidi (B): Basic Research, 0, , 2100569.	1.5	1
58	Performance benefits of nonlinear quantum cascade sources. , 2006, , .		0
59	Analysis of an Annular-Geometry Thermoelectric Module (TEM). , 2007, , 241.		0
60	Optimization Of InP-Based Waveguides For High-Performance Mid-Infrared Quantum Cascade Lasers. AIP Conference Proceedings, 2007, , .	0.4	0
61	Heavy-to-light hole intersubband absorption in the valence band of GaAs/AlAs heterostructures. Materials Research Society Symposia Proceedings, 2013, 1509, 1.	0.1	0
62	Phase Transformations in physical mixtures of Pd-Cu nanoparticles. Materials Research Society Symposia Proceedings, 2013, 1528, 1.	0.1	0
63	Design considerations for GaN/AlN based unipolar (opto-)electronic devices, and interface quality aspects. , 2016, , .		0
64	The Effect of the Ion Beam Energy on M-plane InGaIn Layer Preparation for STEM. Microscopy and Microanalysis, 2019, 25, 1702-1703.	0.4	0
65	Enhancement of second harmonic generation through phase-matching in quantum cascade lasers. , 2003, , .		0
66	Novel nitride quantum structures for infrared sensing. , 2022, , .		0