Oana Malis

List of Publications by Year in descending order

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430874 395702 1,149 66 18 33 h-index citations g-index papers 66 66 66 1587 times ranked docs citations citing authors all docs

#	Article	IF	CITATIONS
1	Novel nitride quantum structures for infrared sensing. , 2022, , .		O
2	Overcoming anomalous suppression of m-plane AlGaN growth by molecular-beam epitaxy using indium as a surfactant. Journal of Applied Physics, 2021, 130, 105702.	2.5	2
3	Mid-infrared intersubband absorption in strain-balanced non-polar (In)AlGaN/InGaN multi-quantum wells. Optical Materials Express, 2021, 11, 3284.	3.0	4
4	3D Hybrid Trilayer Heterostructure: Tunable Au Nanorods and Optical Properties. ACS Applied Materials & Samp; Interfaces, 2020, 12, 45015-45022.	8.0	9
5	Indium surfactant assisted epitaxy of non-polar ($101\hat{A}^{-}0$) AlGaN/InGaN multiple quantum well heterostructures. Journal of Applied Physics, 2020, 128, 115701.	2.5	7
6	Photoluminescence study of non-polar m-plane InGaN and nearly strain-balanced InGaN/AlGaN superlattices. Journal of Applied Physics, 2020, 127, .	2.5	9
7	The Effect of the Ion Beam Energy on M-plane InGaN Layer Preparation for STEM. Microscopy and Microanalysis, 2019, 25, 1702-1703.	0.4	O
8	AlN-based hybrid thin films with self-assembled plasmonic Au and Ag nanoinclusions. Applied Physics Letters, 2019, 114, .	3.3	6
9	Impact of growth conditions and strain on indium incorporation in non-polar m-plane ($101\hat{A}$) InGaN grown by plasma-assisted molecular beam epitaxy. APL Materials, 2019, 7, .	5.1	14
10	Kinetic instability of AlGaN alloys during MBE growth under metal-rich conditions on m-plane GaN miscut towards the -c axis. Journal of Applied Physics, 2018, 123, 161581.	2.5	11
11	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
12	Intersubband Transitions in Nonpolar mâ€Plane AlGaN/GaN Heterostructures. Physica Status Solidi (A) Applications and Materials Science, 2018, 215, 1700828.	1.8	7
13	Evolution of indium segregation in metal-polar In0.17Al0.83N lattice-matched to GaN grown by plasma assisted molecular beam epitaxy. Journal of Crystal Growth, 2018, 500, 52-57.	1.5	3
14	Dramatic enhancement of near-infrared intersubband absorption in c-plane AllnN/GaN superlattices. Applied Physics Letters, 2016, 108, .	3.3	8
15	Design considerations for GaN/AlN based unipolar (opto-)electronic devices, and interface quality aspects. , 2016 , , .		O
16	Coherent vertical electron transport and interface roughness effects in AlGaN/GaN intersubband devices. Journal of Applied Physics, 2015, 118, .	2.5	22
17	Quasi-coherent thermal emitter based on refractory plasmonic materials. Optical Materials Express, 2015, 5, 2721.	3.0	64
18	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

#	Article	IF	CITATIONS
19	Terahertz intersubband absorption in non-polar m-plane AlGaN/GaN quantum wells. Applied Physics Letters, 2014, 105, .	3.3	49
20	Quantum band engineering of nitride semiconductors for infrared lasers. Proceedings of SPIE, 2014, , .	0.8	1
21	Nanoalloying and phase transformations during thermal treatment of physical mixtures of Pd and Cu nanoparticles. Science and Technology of Advanced Materials, 2014, 15, 025002.	6.1	14
22	Homogeneous AlGaN/GaN superlattices grown on free-standing (11 \hat{A} -00) GaN substrates by plasma-assisted molecular beam epitaxy. Applied Physics Letters, 2013, 103, .	3.3	23
23	Comparative study of intersubband absorption in AlGaN/GaN and AlInN/GaN superlattices: Impact of material inhomogeneities. Physical Review B, 2013, 88, .	3.2	28
24	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
25	Temperature-dependence of negative differential resistance in GaN/AlGaN resonant tunneling structures. Semiconductor Science and Technology, 2013, 28, 074024.	2.0	28
26	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
27	Phase Transformations in physical mixtures of Pd-Cu nanoparticles. Materials Research Society Symposia Proceedings, 2013, 1528, 1.	0.1	0
28	Surface morphology evolution of m-plane ($11\hat{A}^-00$) 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
29	Improvement of near-infrared absorption linewidth in AlGaN/GaN superlattices by optimization of delta-doping location. Applied Physics Letters, 2012, 101, .	3.3	29
30	Gold–Copper Nanoparticles: Nanostructural Evolution and Bifunctional Catalytic Sites. Chemistry of Materials, 2012, 24, 4662-4674.	6.7	85
31	Limited grain growth and chemical ordering during high-temperature sintering of PtNiCo nanoparticle aggregates. Nanotechnology, 2012, 23, 335705.	2.6	7
32	Repeatable low-temperature negative-differential resistance from Al0.18Ga0.82N/GaN resonant tunneling diodes grown by molecular-beam epitaxy on free-standing GaN substrates. Applied Physics Letters, 2012, 100, .	3.3	56
33	Near-Infrared Absorption in Lattice-Matched AlInN/GaN and Strained AlGaN/GaN Heterostructures Grown by MBE on Low-Defect GaN Substrates. Journal of Electronic Materials, 2012, 41, 881-886.	2.2	19
34	Harnessing molecule–solid duality of nanoclusters/nanoparticles for nanoscale control of size, shape and alloying. Chemical Communications, 2011, 47, 9885.	4.1	9
35	Low-temperature phase and morphology transformations in noble metal nanocatalysts. Nanotechnology, 2011, 22, 025701.	2.6	11
36	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

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37	Nanoscale Alloying, Phase-Segregation, and Coreâ^'Shell Evolution of Goldâ^'Platinum Nanoparticles and Their Electrocatalytic Effect on Oxygen Reduction Reaction. Chemistry of Materials, 2010, 22, 4282-4294.	6.7	205
38	Intersubband Transitions in Lattice-Matched AllnN/GaN Heterostructures. , 2010, , .		1
39	Near-infrared intersubband absorption in molecular-beam epitaxy-grown lattice-matched InAlN/GaN superlattices. Applied Physics Letters, 2009, 94, 161111.	3.3	31
40	Anin situreal-time x-ray diffraction study of phase segregation in Au–Pt nanoparticles. Nanotechnology, 2009, 20, 245708.	2.6	28
41	Saturation of intersubband transitions in p-doped GaAsâ^•AlGaAs quantum wells. Applied Physics Letters, 2008, 92, .	3.3	10
42	In[sub 0.68]Ga[sub 0.32]Asâ^•Al[sub 0.64]In[sub 0.36]Asâ^•InP 4.5â€,μm quantum cascade lasers grown by soliphosphorus molecular beam epitaxy. Journal of Vacuum Science & Technology B, 2007, 25, 913.	d _{1.3}	1
43	Temperature-dependent current injection and lasing in T-shaped quantum-wire laser diodes with perpendicular p- and n-doping layers. Applied Physics Letters, 2007, 90, 091108.	3.3	9
44	Analysis of an Annular-Geometry Thermoelectric Module (TEM)., 2007,, 241.		0
45	Optimization Of InP-Based Waveguides For High-Performance Mid-Infrared Quantum Cascade Lasers. AIP Conference Proceedings, 2007, , .	0.4	O
46	Performance benefits of nonlinear quantum cascade sources. , 2006, , .		0
47	Mid-infrared hole-intersubband electroluminescence in carbon-doped GaAsâ^•AlGaAs quantum cascade structures. Applied Physics Letters, 2006, 88, 081117.	3.3	5
48	The quantum cascade laser: A versatile high-power semiconductor laser for mid-infrared applications. Bell Labs Technical Journal, 2005, 10, 199-214.	0.7	10
49	Bound-to-bound midinfrared intersubband absorption in carbon-doped GaAsâ^•AlGaAs quantum wells. Applied Physics Letters, 2005, 87, 091116.	3.3	6
50	Recent progress in nonlinear quantum cascade lasers. , 2005, 5738, 80.		1
51	Milliwatt second harmonic generation in quantum cascade lasers with modal phase matching. Electronics Letters, 2004, 40, 1586.	1.0	33
52	Improvement of second-harmonic generation in quantum-cascade lasers with true phase matching. Applied Physics Letters, 2004, 84, 2721-2723.	3.3	65
53	MBE development of dilute nitrides for commercial long-wavelength laser applications. Journal of Crystal Growth, 2003, 251, 432-436.	1.5	5
54	Enhancement of second harmonic generation through phase-matching in quantum cascade lasers. , 2003, , .		0

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55	Ion-induced pattern formation on Co surfaces: An x-ray scattering and kinetic Monte Carlo study. Physical Review B, 2002, 66, .	3.2	31
56	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
57	Temperature dependence of the diffuse-scattering fine structure in Cu-Pd alloys. Physical Review B, 2001, 63, .	3.2	3
58	Temperature dependence of the diffuse-scattering fine structure in equiatomic CuAu. Physical Review B, 1999, 59, 11105-11108.	3.2	3
59	Kinetics of phase transitions in equiatomic CuAu. Physical Review B, 1999, 60, 14675-14682.	3.2	12
60	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
61	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
62	An X-ray scattering and simulation study of the ordering kinetics in CuAu. Europhysics Letters, 1998, 43, 629-634.	2.0	4
63	Effect of Intergrowth Defects on the X-Ray Diffraction Pattern. I. Structure Simulations. Physica Status Solidi A, 1995, 147, 31-43.	1.7	5
64	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
65	Conductivity of r.fsputtered Ni 100 â^' x â^'Si x thin films with 33 ⩽ x ⩽ 77 at.%. Thin Solid Films, 1995, 2 105-112.	259 1.8	9
66	Photoluminescence Study of Carrier Localization and Recombination in Nearly Strainâ€Balanced Nonpolar InGaN/AlGaN Quantum Wells. Physica Status Solidi (B): Basic Research, 0, , 2100569.	1.5	1