

Jir Pangrc

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102
papers

786
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14
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118
ext. papers

857
ext. citations

2.4
avg, IF

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L-index

#	Paper	IF	Citations
102	On the transport mechanism in porous silicon. <i>Applied Physics Letters</i> , 1993 , 63, 180-182	3.4	40
101	Ultrathin Nanocrystalline Diamond Films with Silicon Vacancy Color Centers via Seeding by 2 nm Detonation Nanodiamonds. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 38842-38853	9.5	34
100	Vapor pressure of metal organic precursors. <i>Journal of Crystal Growth</i> , 2003 , 248, 99-107	1.6	30
99	Vapor Pressure of Selected Organic Iodides. <i>Journal of Chemical & Engineering Data</i> , 2010 , 55, 4780-4784	2.9	29
98	Type I/Type II band alignment of a GaAsSb/InAs/GaAs quantum dot heterostructure influenced by dot size and strain-reducing layer composition. <i>Journal Physics D: Applied Physics</i> , 2013 , 46, 095103	3	24
97	Properties of MOVPE InAs/GaAs quantum dots overgrown by InGaAs. <i>Journal of Crystal Growth</i> , 2007 , 298, 582-585	1.6	23
96	Surface processes during growth of InAs/GaAs quantum dot structures monitored by reflectance anisotropy spectroscopy. <i>Surface Science</i> , 2010 , 604, 318-321	1.8	22
95	Vapour pressure and heat capacities of metal organic precursors, Y(thd) ₃ and Zr(thd) ₄ . <i>Journal of Crystal Growth</i> , 2004 , 264, 192-200	1.6	22
94	Vapour pressure measurement of metal organic precursors used for MOVPE. <i>Journal of Chemical Thermodynamics</i> , 2006 , 38, 312-322	2.9	20
93	Photovoltage spectroscopy of InAs/GaAs quantum dot structures. <i>Journal of Applied Physics</i> , 2002 , 91, 10103	2.5	20
92	Graded GaAsSb strain reducing layers covering InAs/GaAs quantum dots. <i>Journal of Crystal Growth</i> , 2013 , 370, 303-306	1.6	16
91	InGaAs and GaAsSb strain reducing layers covering InAs/GaAs quantum dots. <i>Journal of Crystal Growth</i> , 2010 , 312, 1383-1387	1.6	16
90	Growth and properties of InAs/In _x Ga _{1-x} As/GaAs quantum dot structures. <i>Journal of Crystal Growth</i> , 2008 , 310, 2229-2233	1.6	15
89	Advancement toward ultra-thick and bright InGaN/GaN structures with a high number of QWs. <i>CrystEngComm</i> , 2019 , 21, 356-362	3.3	14
88	Growth of InAs/GaAs quantum dots covered by GaAsSb in multiple structures studied by reflectance anisotropy spectroscopy. <i>Journal of Crystal Growth</i> , 2015 , 414, 156-160	1.6	14
87	Optical characterisation of MOVPE grown vertically correlated InAs/GaAs quantum dots. <i>Microelectronics Journal</i> , 2008 , 39, 1070-1074	1.8	14
86	Influence of growth rate on charge transport in GaSb homojunctions prepared by metalorganic vapor phase epitaxy. <i>Journal of Applied Physics</i> , 2004 , 95, 1811-1815	2.5	14

85	Measurement of vapour pressure of In-based metalorganics for MOVPE. <i>Journal of Crystal Growth</i> , 2004 , 272, 42-46	1.6	14
84	Vapor pressure of germanium precursors. <i>Journal of Crystal Growth</i> , 2008 , 310, 4720-4723	1.6	13
83	Study of InAs quantum dots in GaAs prepared on misoriented substrates. <i>Thin Solid Films</i> , 1998 , 336, 80-83	2.2	12
82	Photoluminescence and magnetophotoluminescence of vertically stacked InAs/GaAs quantum dot structures. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2007 , 36, 106-113	3	12
81	Influence of capping layer thickness on electronic states in self assembled MOVPE grown InAs quantum dots in GaAs. <i>Superlattices and Microstructures</i> , 2009 , 46, 324-327	2.8	11
80	Influence of strain reducing layers on electroluminescence and photoluminescence of InAs/GaAs QD structures. <i>Journal of Crystal Growth</i> , 2011 , 315, 110-113	1.6	11
79	Vapor Pressure of Di-tert-butylsilane. <i>Journal of Chemical & Engineering Data</i> , 2005 , 50, 1613-1615	2.8	11
78	Improvement of luminescence properties of GaN buffer layer for fast nitride scintillator structures. <i>Journal of Crystal Growth</i> , 2017 , 464, 221-225	1.6	10
77	Effect of the lower and upper interfaces on the quality of InAs/GaAs quantum dots. <i>Applied Surface Science</i> , 2014 , 301, 173-177	6.7	10
76	Superlinear electroluminescence due to impact ionization in GaSb-based heterostructures with deep Al(As)Sb/InAsSb/Al(As)Sb quantum wells. <i>Journal of Applied Physics</i> , 2012 , 112, 023108	2.5	10
75	Simultaneous characterization of defect states in CVD diamond by PDS, EPR, Raman and photocurrent spectroscopies. <i>Diamond and Related Materials</i> , 1998 , 7, 1048-1053	3.5	10
74	Broken-gap heterojunction in the p-GaSb-n-InAs _{1-x} Sb _x (0.0-0.18) system. <i>Technical Physics Letters</i> , 2001 , 27, 964-966	0.7	10
73	The luminescence behaviour of porous silicon layers. <i>Solid State Communications</i> , 1993 , 85, 347-350	1.6	10
72	Epitaxial growth on porous GaAs substrates. <i>Comptes Rendus Chimie</i> , 2013 , 16, 59-64	2.7	9
71	Growth and properties of AlInBV QD structures for intermediate band solar cells. <i>Journal of Crystal Growth</i> , 2015 , 414, 172-176	1.6	9
70	Lateral shape of InAs/GaAs quantum dots in vertically correlated structures. <i>Journal of Crystal Growth</i> , 2007 , 298, 570-573	1.6	9
69	GaSb based lasers operating near 2.3 microm for high resolution absorption spectroscopy. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2005 , 61, 3066-9	4.4	9
68	GaSb/InAs/(In)GaAs type II quantum dots for solar cell applications. <i>Journal of Crystal Growth</i> , 2017 , 464, 64-68	1.6	8

67	MOVPE prepared InAs/GaAs quantum dots covered by GaAsSb layer with long wavelength emission at 1.8 μm . <i>Journal of Crystal Growth</i> , 2015 , 414, 167-171	1.6	8
66	Combined vertically correlated InAs and GaAsSb quantum dots separated by triangular GaAsSb barrier. <i>Journal of Applied Physics</i> , 2013 , 114, 174305	2.5	8
65	1.3 μm emission from InAs/GaAs quantum dots. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2006 , 3, 3811-3814		8
64	Polarization anisotropy of photoluminescence from multilayer InAs/GaAs quantum dots. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2002 , 13, 229-232	3	8
63	On the correlations between the excitonic luminescence efficiency and the QW numbers in multiple InGaN/GaN QW structure. <i>Journal of Applied Physics</i> , 2017 , 121, 214505	2.5	8
62	Misfit dislocation reduction in InGaAs epilayers grown on porous GaAs substrates. <i>Applied Surface Science</i> , 2014 , 306, 89-93	6.7	7
61	InAs/GaAs quantum dot structures covered by InGaAs strain reducing layer characterized by photomodulated reflectance. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2008 , 147, 175-178	3.1	7
60	Out-of-Plane Weak Localization in Two-Dimensional Electron Structures. <i>Physical Review Letters</i> , 1998 , 80, 4020-4023	7.4	7
59	Electroluminescence and photoelectric properties of type II broken-gap n-In(Ga)As(Sb)/N-GaSb heterostructures. <i>Journal of Applied Physics</i> , 1999 , 86, 6264-6268	2.5	7
58	Influence of Si doping of GaN layers surrounding InGaN quantum wells on structure photoluminescence properties. <i>Journal of Crystal Growth</i> , 2019 , 506, 8-13	1.6	7
57	Size and nitrogen inhomogeneity in detonation and laser synthesized primary nanodiamond particles revealed via salt-assisted deaggregation. <i>Carbon</i> , 2021 , 171, 230-239	10.4	7
56	Self-assembled InAs/GaAs quantum dots covered by different strain reducing layers exhibiting strong photo- and electroluminescence in 1.3 and 1.55 microm bands. <i>Journal of Nanoscience and Nanotechnology</i> , 2011 , 11, 6804-9	1.3	6
55	Electroluminescence in p-InAs/AlSb/InAsSb/AlSb/p(n)-GaSb type II heterostructures with deep quantum wells at the interface. <i>Semiconductors</i> , 2010 , 44, 66-71	0.7	6
54	Influence of capping layer on the properties of MOVPE-grown InAs/GaAs quantum dots. <i>Journal of Crystal Growth</i> , 2008 , 310, 5081-5084	1.6	6
53	Room-temperature diode laser photoacoustic spectroscopy near 2.3 μm . <i>Applied Physics B: Lasers and Optics</i> , 2005 , 81, 857-861	1.9	6
52	InAs/GaAs multiple quantum dot structures grown by LP-MOVPE. <i>Thin Solid Films</i> , 2000 , 380, 101-104	2.2	6
51	Comparison of MOVPE grown GaAs, InGaAs and GaAsSb covering layers for different InAs/GaAs quantum dot applications. <i>Journal of Crystal Growth</i> , 2017 , 464, 59-63	1.6	5
50	Intense interface luminescence in type II narrow-gap InAs-based heterostructures at room temperature. <i>Physics Procedia</i> , 2010 , 3, 1189-1193		5

49	Ballistic electron emission spectroscopy/microscopy of self-assembled InAs quantum dots of different sizes embedded in GaAs/AlGaAs heterostructure. <i>Applied Physics Letters</i> , 2008 , 92, 012101	3.4	5
48	Room-temperature electroluminescence of AlSb/InAsSb single quantum wells grown by metal organic vapor phase epitaxy. <i>Applied Physics Letters</i> , 2006 , 88, 132102	3.4	5
47	InAs/GaAs lasers with very thin active layer. <i>Thin Solid Films</i> , 2000 , 380, 233-236	2.2	5
46	Temperature behaviour of luminescence of free-standing porous silicon. <i>Solid State Communications</i> , 1994 , 89, 297-300	1.6	5
45	Influence of GaN buffer layer under InGaN/GaN MQWs on luminescent properties. <i>Journal of Crystal Growth</i> , 2019 , 507, 246-250	1.6	5
44	InAs/GaSb/AlSb composite quantum well structure preparation with help of reflectance anisotropy spectroscopy. <i>Journal of Crystal Growth</i> , 2017 , 464, 206-210	1.6	4
43	InGaN/GaN Structures: Effect of the Quantum Well Number on the Cathodoluminescent Properties. <i>Physica Status Solidi (B): Basic Research</i> , 2018 , 255, 1700464	1.3	4
42	Vapor pressures of dimethylcadmium, trimethylbismuth, and tris(dimethylamino)antimony. <i>Fluid Phase Equilibria</i> , 2013 , 360, 106-110	2.5	4
41	Vapor Pressure of Trimethylantimony and tert-Butyldimethylantimony. <i>Journal of Chemical & Engineering Data</i> , 2010 , 55, 362-365	2.8	4
40	Vapor Pressure of Tetrakis(dimethylamino)germanium. <i>Journal of Chemical & Engineering Data</i> , 2010 , 55, 4095-4097	2.8	4
39	Photovoltaic detector based on type II p-InAs/AlSb/InAsSb/AlSb/p-GaSb heterostructures with a single quantum well for mid-infrared spectral range 2008 ,		4
38	Transport-controlling deep defects in MOVPE grown GaSb. <i>Semiconductor Science and Technology</i> , 2006 , 21, 180-183	1.8	4
37	Study of InAs quantum dots in AlGaAs/GaAs heterostructure by ballistic electron emission microscopy/spectroscopy. <i>Applied Physics Letters</i> , 2007 , 91, 042110	3.4	4
36	InAs layer structures in GaAs grown by MOVPE and characterised by luminescence and photocurrent spectroscopy. <i>Journal of Crystal Growth</i> , 2003 , 248, 328-332	1.6	4
35	Current-voltage characteristics of GaSb homojunctions prepared by MOVPE. <i>Solid-State Electronics</i> , 2003 , 47, 1471-1478	1.7	4
34	Charge transport study and spectral response of GaSb/GaAs heterojunctions prepared by MOVPE. <i>Solar Energy Materials and Solar Cells</i> , 2003 , 76, 135-145	6.4	4
33	Growth and properties of the MOVPE GaAs/InAs/GaAsSb quantum dot structures. <i>Physica B: Condensed Matter</i> , 2016 , 480, 14-22	2.8	3
32	Magneto-photoluminescence study of electronic transitions in InAs/GaAs quantum dot layers. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2002 , 88, 247-251	3.1	3

31	Lasers with InAs layers in GaAs. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2002 , 88, 312-316	3.1	3
30	Origin of recombination transitions at the lattice-matched GaInAsSb-GaSb n-N type-II heterojunctions. <i>Journal of Applied Physics</i> , 1994 , 75, 4189-4193	2.5	3
29	Complexes of divalent platinum with diphenylphosphineacetic acid. <i>Collection of Czechoslovak Chemical Communications</i> , 1981 , 46, 1222-1228		3
28	Photoelectric and luminescence properties of GaSb-Based nanoheterostructures with a deep Al(As)Sb/InAsSb/Al(As)Sb quantum well grown by metalorganic vapor-phase epitaxy. <i>Semiconductors</i> , 2013 , 47, 1041-1045	0.7	2
27	Integral and local density of states of InAs quantum dots in GaAs/AlGaAs heterostructure observed by ballistic electron emission spectroscopy near one-electron ground state. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2013 , 48, 61-65	3	2
26	Two-band superlinear electroluminescence in GaSb based nanoheterostructures with AlSb/InAs _{1-x} Sb _x /AlSb deep quantum well. <i>Journal of Applied Physics</i> , 2014 , 115, 223102	2.5	2
25	Performance study of radiation detectors based on semi-insulating GaAs with P+ homo- and heterojunction blocking electrode. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2006 , 563, 159-162	1.2	2
24	Ultrathin InAs and modulated InGaAs layers in GaAs grown by MOVPE studied by photomodulated reflectance spectroscopy. <i>Applied Surface Science</i> , 2006 , 253, 85-89	6.7	2
23	Ga _{1-x} In _x Sb - MOVPE growth and thermodynamic model. <i>Semiconductor Science and Technology</i> , 2001 , 16, 759-762	1.8	2
22	Strong suppression of In desorption from InGaN QW by improved technology of upper InGaN/GaN QW interface. <i>Journal of Crystal Growth</i> , 2019 , 507, 310-315	1.6	2
21	Vertical transport in type-II heterojunctions with InAs/GaSb/AlSb composite quantum wells in a high magnetic field. <i>Semiconductors</i> , 2017 , 51, 1343-1349	0.7	1
20	Microwave radiation absorption and Shubnikov-de Haas oscillations in semi-metal InAs/GaSb/AlSb composite quantum wells 2016 ,		1
19	InAs/GaAs quantum dot capping in kinetically limited MOVPE growth regime. <i>Journal of Crystal Growth</i> , 2011 , 317, 39-42	1.6	1
18	InAs/GaAs quantum dot structures emitting in the 1.55 μ m band. <i>IOP Conference Series: Materials Science and Engineering</i> , 2009 , 6, 012007	0.4	1
17	Preliminary comparison of ballistic electron emission spectroscopy measurements on InAs quantum dots in a GaAs/AlGaAs heterostructure grown by MBE and MOVPE. <i>Microelectronics Journal</i> , 2009 , 40, 496-498	1.8	1
16	Thermal conversion and epitaxial overgrowth of nanopores etched in InP and GaAs. <i>International Journal of Nanotechnology</i> , 2012 , 9, 732	1.5	1
15	Influence of photon recycling on photovoltage spectra of GaSb diodes. <i>Journal of Applied Physics</i> , 2004 , 95, 5104-5110	2.5	1
14	Electroluminescence in a semimetal channel at a single type II broken-gap heterointerface. <i>Semiconductors</i> , 2003 , 37, 1185-1189	0.7	1

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| 13 | Electroluminescence of type II broken-gap p-Ga _{0.84} In _{0.16} As _{0.22} Sb _{0.78} β-InAs heterostructures with a high-mobility electron channel at the interface. <i>Journal of Applied Physics</i> , 2005 , 98, 083512 | 2.5 | 1 |
| 12 | Microwave radiation absorption and Shubnikov-de Haas oscillations in semimetal InAs/GaSb/AlSb composite quantum wells. <i>Journal of Nanophotonics</i> , 2016 , 10, 046013 | 1.1 | 1 |
| 11 | Luminescence redshift of thick InGaN/GaN heterostructures induced by the migration of surface adsorbed atoms. <i>Journal of Crystal Growth</i> , 2021 , 565, 126151 | 1.6 | 1 |
| 10 | GaAsSb-capped InAs QD type-II solar cell structures Improvement by composition profiling of layers surrounding QD. <i>Materials Research Express</i> , 2017 , 4, 025502 | 1.7 | |
| 9 | Structural and photoluminescent properties of low temperature InAs buffer layer grown by MOVPE on GaAs substrates. <i>Journal of Crystal Growth</i> , 2014 , 396, 54-60 | 1.6 | |
| 8 | Vapor Pressures of (3-(Dimethylamino)propyl)dimethylindium, (tert-Butylimino)bis(diethylamino)cyclopentadienyltantalum, and (tert-Butylimino)tris(ethylmethylamino)tantalum. <i>Journal of Chemical & Engineering Data</i> , 2014 , 59, 1178-1183 | 2.8 | |
| 7 | Light emitting diodes with InAs/GaSb self-assembled quantum dot layer embedded in GaAs. <i>Thin Solid Films</i> , 2013 , 543, 83-87 | 2.2 | |
| 6 | Electro- and photoluminescence of InAs/GaAs quantum dot structures. <i>Journal of Physics: Conference Series</i> , 2010 , 245, 012080 | 0.3 | |
| 5 | Quantum confinement in MOVPE-grown structures with self-assembled InAs/GaAs quantum dots. <i>Journal of Physics: Conference Series</i> , 2010 , 245, 012079 | 0.3 | |
| 4 | Optical characterization of MOVPE grown InAs layers in GaAs. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2005 , 2, 1319-1324 | | |
| 3 | Strained In _x Ga _{1-x} As/GaAs multiple quantum wells grown by MOVPE. <i>European Physical Journal D</i> , 1999 , 49, 805-811 | | |
| 2 | Optical constants of electrochemically grown oxides on Ga-V semiconductor surfaces in the VUV region. <i>Physica Scripta</i> , 1990 , 41, 154-156 | 2.6 | |
| 1 | Microwave radiation absorption by 2D-electrons in the type II composite InAs/GaSb/AlSb quantum wells in a magnetic field. <i>Journal of Physics: Conference Series</i> , 2016 , 769, 012075 | 0.3 | |