

Jun Tatebayashi

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

102
papers

2,014
citations

25
h-index

40
g-index

137
ext. papers

2,287
ext. citations

3
avg, IF

4.46
L-index

#	Paper	IF	Citations
102	Modeling defect mediated color-tunability in LEDs with Eu-doped GaN-based active layers. <i>Journal of Applied Physics</i> , 2022 , 131, 045701	2.5	1
101	Elucidation of the excitation mechanism of Tb ions doped in Al _x Ga _{1-x} N grown by OMVPE toward a wavelength-stable green emitter. <i>Journal of Applied Physics</i> , 2022 , 131, 073102	2.5	1
100	Droop-free amplified red emission from Eu ions in GaN. <i>Japanese Journal of Applied Physics</i> , 2021 , 60, 120905	1.4	2
99	Enhanced Red Emission of Eu,O-Codoped GaN Embedded in a Photonic Crystal Nanocavity with Hexagonal Air Holes. <i>Physical Review Applied</i> , 2021 , 15,	4.3	3
98	Formation and optical characteristics of ZnO:Eu/ZnO nanowires grown by sputtering-assisted metalorganic chemical vapor deposition. <i>Japanese Journal of Applied Physics</i> , 2021 , 60, SCCE05	1.4	1
97	Eu-doped GaN and InGaN monolithically stacked full-color LEDs with a wide color gamut. <i>Applied Physics Express</i> , 2021 , 14, 031008	2.4	15
96	Enhancement of Er luminescence in microdisk resonators made of Er,O-codoped GaAs. <i>Journal of Applied Physics</i> , 2020 , 127, 233101	2.5	
95	Room-temperature operation of near-infrared light-emitting diode based on Tm-doped GaN with ultra-stable emission wavelength. <i>Journal of Applied Physics</i> , 2020 , 127, 113103	2.5	5
94	Excitation Efficiency and Limitations of the Luminescence of Eu ³⁺ Ions in GaN. <i>Physical Review Applied</i> , 2020 , 13,	4.3	13
93	GaN:Eu,O-Based Resonant-Cavity Light Emitting Diodes with Conductive AlInN/GaN Distributed Bragg Reflectors. <i>ACS Applied Electronic Materials</i> , 2020 , 2, 732-738	4	9
92	Purcell-Effect-Enhanced Radiative Rate of Eu ³⁺ Ions in GaN Microdisks. <i>Physical Review Applied</i> , 2020 , 14,	4.3	6
91	Investigation on Suitable Structure for Laser Oscillation in Eu-doped GaN with Two-Dimensional Photonic Crystal Nanocavities. <i>Zairyo/Journal of the Society of Materials Science, Japan</i> , 2020 , 69, 721-726	0.1	0
90	Perspective of Semiconductor Technologies Contributed to the IoT Society. <i>Zairyo/Journal of the Society of Materials Science, Japan</i> , 2020 , 69, 762-766	0.1	
89	Enhanced Photoluminescence in High-Q Photonic Crystal Nanocavities with Er,O-Codoped GaAs. <i>Zairyo/Journal of the Society of Materials Science, Japan</i> , 2020 , 69, 823-828	0.1	
88	Quantitative evaluation of enhanced Er luminescence in GaAs-based two-dimensional photonic crystal nanocavities. <i>Applied Physics Letters</i> , 2020 , 116, 181102	3.4	1
87	Direct detection of rare earth ion distributions in gallium nitride and its influence on growth morphology. <i>Journal of Applied Physics</i> , 2020 , 127, 013102	2.5	4
86	47-3: Invited Paper: High Brightness and RGB Integration of Eu-doped GaN-based Red LEDs for Ultrahigh-resolution Micro-LED Display. <i>Digest of Technical Papers SID International Symposium</i> , 2020 , 51, 691-694	0.5	

85	16.3: Invited Paper: New development in Red Light-emitting Diodes (LEDs) using Eu-doped GaN for Monolithic Micro-LED Displays. <i>Digest of Technical Papers SID International Symposium</i> , 2019 , 50, 167-167 ^{0.5}		
84	Enhanced luminescence efficiency of GaN:Eu-based light-emitting diodes by localized surface plasmons utilizing gold nanoparticles. <i>Japanese Journal of Applied Physics</i> , 2019 , 58, SCCC09	1.4	1
83	Color-Tunability in GaN LEDs Based on Atomic Emission Manipulation under Current Injection. <i>ACS Photonics</i> , 2019 , 6, 1153-1161	6.3	9
82	Localized-surface-plasmon-enhanced GaN:Eu-based red light-emitting diodes utilizing silver nanoparticles. <i>Applied Physics Express</i> , 2019 , 12, 095003	2.4	4
81	Picosecond time-resolved dynamics of energy transfer between GaN and the various excited states of Eu ³⁺ ions. <i>Physical Review B</i> , 2019 , 100,	3.3	3
80	Growth and optical characteristics of Tm-doped AlGaIn layer grown by organometallic vapor phase epitaxy. <i>Journal of Applied Physics</i> , 2018 , 123, 161406	2.5	3
79	Quantitative study of energy-transfer mechanism in Eu,O-codoped GaN by time-resolved photoluminescence spectroscopy. <i>Journal of Applied Physics</i> , 2018 , 123, 161419	2.5	4
78	Control of the energy transfer between Tm ³⁺ and Yb ³⁺ ions in Tm,Yb-codoped ZnO grown by sputtering-assisted metalorganic chemical vapor deposition. <i>Journal of Applied Physics</i> , 2018 , 123, 161409 ^{2.5}		5
77	Formation and optical properties of Tm,Yb-codoped ZnO nanowires grown by sputtering-assisted metalorganic chemical vapor deposition. <i>Journal of Crystal Growth</i> , 2018 , 503, 13-19	1.6	5
76	Nanowire-quantum-dot lasers on flexible membranes. <i>Applied Physics Express</i> , 2018 , 11, 065002	2.4	3
75	Growth of InGaAs/GaAs nanowire-quantum dots on AlGaAs/GaAs distributed Bragg reflectors for laser applications. <i>Journal of Crystal Growth</i> , 2017 , 468, 144-148	1.6	10
74	Circularly polarized vacuum field in three-dimensional chiral photonic crystals probed by quantum dot emission. <i>Physical Review B</i> , 2017 , 96,	3.3	7
73	A Nanowire-Based Plasmonic Quantum Dot Laser. <i>Nano Letters</i> , 2016 , 16, 2845-50	11.5	53
72	Room-temperature lasing in a single nanowire with quantum dots. <i>Nature Photonics</i> , 2015 , 9, 501-505	33.9	132
71	Room-temperature lasing in GaAs nanowires embedding multi-stacked InGaAs/GaAs quantum dots 2015 ,		1
70	Demonstration of a three-dimensional photonic crystal nanocavity in a <110>-layered diamond structure. <i>Applied Physics Letters</i> , 2015 , 107, 071102	3.4	8
69	Low-Threshold near-Infrared GaAs/AlGaAs Core/Shell Nanowire Plasmon Laser. <i>ACS Photonics</i> , 2015 , 2, 165-171	6.3	75
68	Circular dichroism in a three-dimensional semiconductor chiral photonic crystal. <i>Applied Physics Letters</i> , 2014 , 105, 051107	3.4	22

67	Highly uniform, multi-stacked InGaAs/GaAs quantum dots embedded in a GaAs nanowire. <i>Applied Physics Letters</i> , 2014 , 105, 103104	3.4	20
66	Formation and optical properties of multi-stack InGaAs quantum dots embedded in GaAs nanowires by selective metalorganic chemical vapor deposition. <i>Journal of Crystal Growth</i> , 2013 , 370, 299-302	1.6	4
65	Giant optical rotation in a three-dimensional semiconductor chiral photonic crystal. <i>Optics Express</i> , 2013 , 21, 29905-13	3.3	17
64	Formation of a single In(Ga)As/GaAs quantum dot embedded in a site-controlled GaAs nanowire by metalorganic chemical vapor deposition for application to single photon sources. <i>Materials Research Society Symposia Proceedings</i> , 2012 , 1439, 115-119		
63	Site-controlled formation of InAs/GaAs quantum-dot-in-nanowires for single photon emitters. <i>Applied Physics Letters</i> , 2012 , 100, 263101	3.4	40
62	Coulomb-induced emission dynamics and self-consistent calculations of type-II Sb-containing quantum dot systems. <i>Physical Review B</i> , 2012 , 85,	3.3	26
61	Optical Properties of Site-Controlled InGaAs Quantum Dots Embedded in GaAs Nanowires by Selective Metalorganic Chemical Vapor Deposition. <i>Japanese Journal of Applied Physics</i> , 2012 , 51, 11PE13	1.4	2
60	Lateral interdot carrier transfer in an InAs quantum dot cluster grown on a pyramidal GaAs surface. <i>Nanotechnology</i> , 2011 , 22, 055706	3.4	20
59	Visible light emission from self-catalyzed GaInP/GaP core-shell double heterostructure nanowires on silicon. <i>Journal of Applied Physics</i> , 2010 , 108, 034315	2.5	17
58	1.52 Ee photoluminescence emissions from InAs quantum dots grown on nanopatterned GaAs buffers. <i>Applied Physics Letters</i> , 2010 , 97, 143111	3.4	4
57	Optical characteristics of GaInP/GaP double-heterostructure core-shell nanowires embedded in polydimethylsiloxane membranes. <i>Applied Physics Letters</i> , 2010 , 96, 253101	3.4	9
56	Controlled Formation and Dynamic Wulff Simulation of Equilibrium Crystal Shapes of GaAs Pyramidal Structures on Nanopatterned Substrates. <i>Crystal Growth and Design</i> , 2010 , 10, 2509-2514	3.5	8
55	Complex emission dynamics of type-II GaSb/GaAs quantum dots. <i>Applied Physics Letters</i> , 2009 , 95, 061103	3.4	33
54	GaSb/GaAs type-II quantum dots grown by droplet epitaxy. <i>Nanotechnology</i> , 2009 , 20, 455604	3.4	34
53	Fabrication and characteristics of broad-area light-emitting diode based on nanopatterned quantum dots. <i>Nanotechnology</i> , 2009 , 20, 035302	3.4	13
52	Continuous-Wave, Room-Temperature Operation of 2- μ m Sb-Based Optically-Pumped Vertical-External-Cavity Surface-Emitting Laser Monolithically Grown on GaAs Substrates. <i>Applied Physics Express</i> , 2009 , 2, 112102	2.4	8
51	Monolithically Integrated III-Sb-Based Laser Diodes Grown on Miscut Si Substrates. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2009 , 15, 716-723	3.8	19
50	Coulomb effects in type-II Ga(As)Sb quantum dots. <i>Physica Status Solidi (B): Basic Research</i> , 2009 , 246, 752-755	1.3	19

49	Optical transition pathways in type-II Ga(As)Sb quantum dots. <i>Journal of Luminescence</i> , 2009 , 129, 456-460	14
48	Formation and Optical Characteristics of Type-II Strain-Relieved GaSb/GaAs Quantum Dots by Using an Interfacial Misfit Growth Mode. <i>IEEE Nanotechnology Magazine</i> , 2009 , 8, 269-274	2.6 7
47	Strain compensation technique in self-assembled InAs/GaAs quantum dots for applications to photonic devices. <i>Journal Physics D: Applied Physics</i> , 2009 , 42, 073002	3 35
46	Time-resolved photoluminescence of type-II Ga(As)Sb/GaAs quantum dots embedded in an InGaAs quantum well. <i>Nanotechnology</i> , 2008 , 19, 295704	3.4 21
45	Improved photoluminescence efficiency of patterned quantum dots incorporating a dots-in-the-well structure. <i>Nanotechnology</i> , 2008 , 19, 435710	3.4 16
44	Electric field modulation of exciton recombination in InAs/GaAs quantum dots emitting at 1.3 μ m. <i>Journal of Applied Physics</i> , 2008 , 104, 013504	2.5 3
43	Device Characteristics of GaInSb/AlGaSb Quantum Well Lasers Monolithically Grown on GaAs Substrates by Using an Interfacial Misfit Array. <i>Journal of Electronic Materials</i> , 2008 , 37, 1758-1763	1.9 3
42	Effects of accumulated strain on the surface and optical properties of stacked 1.3 μ m InAs/GaAs quantum dot structures. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008 , 40, 2182-2184	3 9
41	Effects of rapid thermal annealing on the emission properties of highly uniform self-assembled InAs/GaAs quantum dots emitting at 1.3 μ m. <i>Applied Physics Letters</i> , 2007 , 90, 111912	3.4 21
40	Room-Temperature Operation of Buffer-Free GaSb/AlGaSb Quantum-Well Diode Lasers Grown on a GaAs Platform Emitting at 1.65 μ m. <i>IEEE Photonics Technology Letters</i> , 2007 , 19, 1628-1630	2.2 23
39	Measurement of electro-optic coefficients of 1.3 [μ m] self-assembled InAs/GaAs quantum dots. <i>Electronics Letters</i> , 2007 , 43, 410	1.1 3
38	1.54 [μ m] GaSb/AlGaSb multi-quantum-well monolithic laser at 77 K grown on miscut Si substrate using interfacial misfit arrays. <i>Electronics Letters</i> , 2007 , 43, 1198	1.1 26
37	Localized strain reduction in strain-compensated InAs/GaAs stacked quantum dot structures. <i>Applied Physics Letters</i> , 2007 , 90, 163121	3.4 18
36	Optical properties of patterned InAs quantum dot ensembles grown on GaAs nanopyramids. <i>Applied Physics Letters</i> , 2007 , 91, 243106	3.4 16
35	Single dot spectroscopy of site-controlled InAs quantum dots nucleated on GaAs nanopyramids. <i>Applied Physics Letters</i> , 2007 , 91, 133104	3.4 25
34	Room-temperature lasing at 1.82 μ m of GaInSb/AlGaSb quantum wells grown on GaAs substrates using an interfacial misfit array. <i>Applied Physics Letters</i> , 2007 , 91, 141102	3.4 18
33	Lasing characteristics of GaSb/GaAs self-assembled quantum dots embedded in an InGaAs quantum well. <i>Applied Physics Letters</i> , 2007 , 90, 261115	3.4 45
32	Controlled InAs quantum dot nucleation on faceted nanopatterned pyramids. <i>Applied Physics Letters</i> , 2007 , 90, 183103	3.4 43

31	Development of Electrically Driven Single-Quantum-Dot Device at Optical Fiber Bands. <i>Japanese Journal of Applied Physics</i> , 2006 , 45, 3621-3624	1.4	12
30	Formation and optical characteristics of strain-relieved and densely stacked GaSb/GaAs quantum dots. <i>Applied Physics Letters</i> , 2006 , 89, 203116	3.4	49
29	Improved surface morphology of stacked 1.3 μm InAs/GaAs quantum dot active regions by introducing annealing processes. <i>Applied Physics Letters</i> , 2006 , 89, 081902	3.4	10
28	Ground-state lasing of stacked InAs/GaAs quantum dots with GaP strain-compensation layers grown by metal organic chemical vapor deposition. <i>Applied Physics Letters</i> , 2006 , 88, 221107	3.4	18
27	III/V ratio based selectivity between strained Stranski-Krastanov and strain-free GaSb quantum dots on GaAs. <i>Applied Physics Letters</i> , 2006 , 89, 161104	3.4	80
26	Room temperature continuous wave lasing in InAs quantum-dot microdisks with air cladding. <i>Optics Express</i> , 2005 , 13, 1615-20	3.3	35
25	1.28 μm lasing from stacked InAs/GaAs quantum dots with low-temperature-grown AlGaAs cladding layer by metalorganic chemical vapor deposition. <i>Applied Physics Letters</i> , 2005 , 86, 053107	3.4	48
24	Tuning of g-factor in self-assembled In(Ga)As quantum dots through strain engineering. <i>Physical Review B</i> , 2005 , 71,	3.3	45
23	Highly uniform self-assembled InAs/GaAs quantum dots emitting at 1.3 μm by metalorganic chemical vapor deposition. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2005 , 26, 77-80	3	2
22	InAs/AlAs quantum dots with InGaAs insertion layer: dependence of the indium composition and the thickness. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2005 , 26, 138-142	3	3
21	Lasing at 1.28 μm of InAs-GaAs quantum dots with AlGaAs cladding layer grown by metal-organic chemical vapor deposition. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2005 , 11, 1027-1034	3.8	15
20	Observation of 1.55 μm Light Emission from InAs Quantum Dots in Photonic Crystal Microcavity. <i>Japanese Journal of Applied Physics</i> , 2005 , 44, 2579-2583	1.4	8
19	Narrow photoluminescence linewidth (. <i>Applied Physics Letters</i> , 2004 , 84, 2817-2819	3.4	51
18	Lasing characteristics of InAs quantum-dot microdisk from 3K to room temperature. <i>Applied Physics Letters</i> , 2004 , 85, 1326-1328	3.4	26
17	Improvement of the uniformity of self-assembled InAs quantum dots grown on InGaAs/GaAs by low-pressure metalorganic chemical vapor deposition. <i>Applied Physics Letters</i> , 2004 , 85, 2753-2755	3.4	18
16	Carrier relaxation in closely stacked InAs quantum dots. <i>Journal of Applied Physics</i> , 2004 , 96, 150-154	2.5	16
15	Enhanced Optical Properties of High-Density (>10 ¹¹ /cm ²) InAs/AlAs Quantum Dots by Hydrogen Passivation. <i>Japanese Journal of Applied Physics</i> , 2004 , 43, 2118-2121	1.4	4
14	Numerical analysis of DFB lasing action in photonic crystals with quantum dots. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2004 , 21, 814-819	3	2

13	Structural and optical properties of high-density ($>10^{11}/\text{cm}^2$) InAs QDs with varying Al(Ga)As matrix layer thickness. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2004 , 21, 279-284	3	6
12	Spectroscopy on single columns of vertically aligned InAs quantum dots. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2004 , 21, 409-413	3	3
11	Formation of ultrahigh-density InAs/AlAs quantum dots by metalorganic chemical vapor deposition. <i>Applied Physics Letters</i> , 2004 , 84, 1877-1879	3-4	19
10	Size, shape, and strain dependence of the g factor in self-assembled In(Ga)As quantum dots. <i>Physical Review B</i> , 2004 , 70,	3-3	95
9	Control of optical polarization anisotropy in edge emitting luminescence of InAs/GaAs self-assembled quantum dots. <i>Applied Physics Letters</i> , 2004 , 84, 1820-1822	3-4	48
8	InAs/AlAs self-assembled quantum-dot lasers grown by metalorganic chemical vapor deposition. Effects of postgrowth annealing on stacked InAs quantum dots. <i>Applied Physics Letters</i> , 2004 , 85, 1024-1026	3-4	41
7	Optical Characteristics of Two-Dimensional Photonic Crystal Slab Nanocavities with Self-Assembled InAs Quantum Dots for 1.3 μm Light Emission. <i>Japanese Journal of Applied Physics</i> , 2003 , 42, 2391-2394	1-4	4
6	Low threshold current operation of self-assembled InAs/AlAs quantum dot lasers by metal organic chemical vapour deposition. <i>Electronics Letters</i> , 2003 , 39, 1130	1-1	35
5	Luminescence in excess of 1.5 μm at room-temperature of InAs quantum dots capped by a thin InGaAs strain-reducing layer. <i>Journal of Crystal Growth</i> , 2002 , 237-239, 1296-1300	1-6	21
4	Growth area control of InAs quantum dots for photonic-crystal-based optical devices by selective MOCVD 2001 ,		2
3	Over 1.5 μm light emission from InAs quantum dots embedded in InGaAs strain-reducing layer grown by metalorganic chemical vapor deposition. <i>Applied Physics Letters</i> , 2001 , 78, 3469-3471	3-4	209
2	Area-Controlled Growth of InAs Quantum Dots by Selective MOCVD. <i>Japanese Journal of Applied Physics</i> , 2000 , 39, 2344-2346	1-4	4
1	Area-controlled growth of InAs quantum dots and improvement of density and size distribution. <i>Applied Physics Letters</i> , 2000 , 77, 3382-3384	3-4	36