

Yukihiro Harada

List of Publications by Year in descending order

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times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	One-dimensional miniband formation in closely stacked InAs/GaAs quantum dots. <i>Physical Review B</i> , 2013, 87, .	3.2	47
2	Experimental and atomistic theoretical study of degree of polarization from multilayer InAs/GaAs quantum dot stacks. <i>Physical Review B</i> , 2011, 84, .	3.2	45
3	Multidirectional Observation of Photoluminescence Polarization Anisotropy in Closely Stacked InAs/GaAs Quantum Dots. <i>Applied Physics Express</i> , 2011, 4, 062001.	2.4	39
4	Two-step photon absorption in InAs/GaAs quantum-dot superlattice solar cells. <i>Physical Review B</i> , 2015, 91, .	3.2	35
5	Effect of internal electric field on InAs/GaAs quantum dot solar cells. <i>Journal of Applied Physics</i> , 2014, 115, 083510.	2.5	31
6	Carrier dynamics of the intermediate state in InAs/GaAs quantum dots coupled in a photonic cavity under two-photon excitation. <i>Physical Review B</i> , 2012, 86, .	3.2	30
7	Assessing the Nature of the Distribution of Localised States in Bulk GaAsBi. <i>Scientific Reports</i> , 2018, 8, 6457.	3.3	28
8	Intraband carrier dynamics in InAs/GaAs quantum dots stimulated by bound-to-continuum excitation. <i>Journal of Applied Physics</i> , 2013, 113, .	2.5	25
9	Fine structure splitting of isoelectronic bound excitons in nitrogen-doped GaAs. <i>Physical Review B</i> , 2008, 77, .	3.2	20
10	Nanosecond-scale hot-carrier cooling dynamics in one-dimensional quantum dot superlattices. <i>Physical Review B</i> , 2016, 93, .	3.2	19
11	Anisotropic magneto-optical effects in one-dimensional diluted magnetic semiconductors. <i>Physical Review B</i> , 2006, 74, .	3.2	17
12	Hot-carrier solar cells using low-dimensional quantum structures. <i>Applied Physics Letters</i> , 2014, 105, 171904.	3.3	17
13	Efficient two-step photocarrier generation in bias-controlled InAs/GaAs quantum dot superlattice intermediate-band solar cells. <i>Scientific Reports</i> , 2017, 7, 5865.	3.3	17
14	Polarization-insensitive optical gain characteristics of highly stacked InAs/GaAs quantum dots. <i>Journal of Applied Physics</i> , 2014, 115, .	2.5	15
15	Epitaxial two-dimensional nitrogen atomic sheet in GaAs. <i>Applied Physics Letters</i> , 2014, 104, .	3.3	15
16	Increasing conversion efficiency of two-step photon up-conversion solar cell with a voltage booster hetero-interface. <i>Scientific Reports</i> , 2018, 8, 872.	3.3	15
17	Hot-carrier generation and extraction in InAs/GaAs quantum dot superlattice solar cells. <i>Semiconductor Science and Technology</i> , 2019, 34, 094003.	2.0	13
18	Intermediate band photovoltaics based on interband and intraband transitions using $\text{In}_{0.53}\text{Ga}_{0.47}\text{As/InP}$ superlattice. <i>Progress in Photovoltaics: Research and Applications</i> , 2013, 21, 472-480.	8.1	12

#	ARTICLE	IF	CITATIONS
19	Thermal annealing effects on ultra-violet luminescence properties of Gd doped AlN. Journal of Applied Physics, 2015, 117, 163105.	2.5	12
20	Extremely uniform bound exciton states in nitrogen δ -doped GaAs studied by photoluminescence spectroscopy in external magnetic fields. Journal of Applied Physics, 2011, 110, 083522.	2.5	10
21	Energy Conversion Efficiency of Solar Cells. Green Energy and Technology, 2019, , .	0.6	10
22	Two-step photocurrent generation enhanced by miniband formation in InAs/GaAs quantum dot superlattice intermediate-band solar cells. Applied Physics Letters, 2017, 110, .	3.3	8
23	Spatially resolved electronic structure of an isovalent nitrogen center in GaAs. Physical Review B, 2017, 96, .	3.2	8
24	Bound biexciton luminescence in nitrogen δ -doped GaAs. Physica Status Solidi (B): Basic Research, 2011, 248, 464-467.	1.5	7
25	Photocurrent transport dynamics in InAs/GaAs quantum dot superlattice solar cells using time-of-flight spectroscopy. Physical Review B, 2016, 94, .	3.2	7
26	Improving laser cooling efficiencies of Yb-doped yttrium aluminum garnet by utilizing non-resonant anti-Stokes emission at high temperatures. Optics Express, 2019, 27, 34961.	3.4	7
27	Control of stacking direction and optical anisotropy in InAs/GaAs quantum dots by In flux. Journal of Applied Physics, 2013, 114, .	2.5	6
28	Hot-carrier generation in a solar cell containing InAs/GaAs quantum-dot superlattices as a light absorber. Applied Physics Express, 2018, 11, 082303.	2.4	5
29	Effects of rapid thermal annealing on two-dimensional delocalized electronic states of the epitaxial N δ -doped layer in GaAs. Applied Physics Letters, 2016, 108, 111905.	3.3	4
30	Anisotropic exchange interaction caused by hole-spin reorientation in (CdTe) _{0.5} (Cd _{0.75} Mn _{0.25} Te) _{0.5} tilted superlattices grown on Cd _{0.74} Mg _{0.26} Te(001) vicinal surface. Journal of Crystal Growth, 2005, 275, e2221-e2224.	1.5	3
31	Anisotropic magneto-optical effects in CdTe/Cd _{0.75} Mn _{0.25} Te quantum wire structures. Physical Review B, 2008, 78, .	3.2	3
32	Polarization characteristics of electroluminescence and net modal gain in highly stacked InAs/GaAs quantum-dot laser devices. Journal of Applied Physics, 2016, 120, .	2.5	3
33	Bandwidth enhancement in an InGaN/GaN three-section superluminescent diode for optical coherence tomography. Applied Physics Letters, 2020, 117, .	3.3	3
34	An energy transfer accompanied by phonon absorption in ytterbium-doped yttrium aluminum perovskite for optical refrigeration. Applied Physics Letters, 2020, 117, .	3.3	3
35	Polarization controlled emission from closely stacked InAs/GaAs quantum dots. Physica Status Solidi C: Current Topics in Solid State Physics, 2013, 10, 1492-1495.	0.8	2
36	Resonant indirect excitation of Gd ³⁺ in AlN thin films. Journal of Applied Physics, 2014, 115, 173508.	2.5	2

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37	Bound-to-continuum intraband transition properties in InAs/GaAs quantum dot superlattice solar cells. Applied Physics Express, 2019, 12, 125008.	2.4	2
38	Valence-band mixing induced by s-p exchange interaction in CdMnTe quantum wires. Physica Status Solidi C: Current Topics in Solid State Physics, 2006, 3, 667-670.	0.8	1
39	Statistical fluctuation of magnetization in Mn-composition modulated Cd _{1-x} Mn _x Te quantum wires. Journal of Applied Physics, 2010, 107, 043521.	2.5	1
40	Interaction between conduction band edge and nitrogen-related localized levels in nitrogen-doped GaAs. Physica Status Solidi C: Current Topics in Solid State Physics, 2011, 8, 365-367.	0.8	1
41	High-resolution optical coherence tomography using broadband light source with strain-controlled InAs/GaAs quantum dots. Physica Status Solidi C: Current Topics in Solid State Physics, 2012, 9, 2473-2476.	0.8	1
42	Hot-Carrier Extraction in InAs/GaAs Quantum Dot Superlattice Solar Cells. , 2019, , .		1
43	Enhancement of laser cooling efficiency in rare-earth-doped oxide at elevated high temperature. , 2020, , .		1
44	Properties of Anti-Stokes Photoluminescence and Ideal Laser Cooling Performance in Yb-Doped Yttrium Aluminum Garnet Thin Film. Zairyo/Journal of the Society of Materials Science, Japan, 2020, 69, 727-732.	0.2	1
45	Yb-doped Y ₂ Al ₂ O ₇ thin films with a self-organized columnar structure and their anti-Stokes photoluminescence properties. AIP Advances, 2022, 12, .	1.3	1
46	Hole-spin reorientation in (CdTe) _{0.5} (Cd _{0.75} Mn _{0.25} Te) _{0.5} tilted superlattices grown on Cd _{0.74} Mg _{0.26} Te(001) vicinal surface. AIP Conference Proceedings, 2005, , .	0.4	0
47	Anisotropic Magnetic-Field Evolution of Valence-Band States in One-Dimensional Diluted Magnetic Semiconductors. AIP Conference Proceedings, 2007, , .	0.4	0
48	Exciton fine structure of nitrogen isoelectronic centers in GaAs. , 2008, , .		0
49	Anisotropic linear-polarization luminescence in CdTe/CdMnTe quantum wires. Journal of Luminescence, 2009, 129, 1448-1453.	3.1	0
50	Magneto-Photoluminescence Spectroscopy of Exciton Fine Structure in Nitrogen-Doped GaAs. AIP Conference Proceedings, 2011, , .	0.4	0
51	Two-photons transition in intermediate band solar cells. , 2011, , .		0
52	Carrier dynamics in intermediate states of InAs/GaAs quantum dots embedded in photonic cavity structure. , 2012, , .		0
53	Near-field photoluminescence spectroscopy of CdTe/Cd _{0.75} Mn _{0.25} Te tilted superlattices. Physica Status Solidi C: Current Topics in Solid State Physics, 2012, 9, 262-265.	0.8	0
54	Carrier dynamics in intermediate states of InAs/GaAs quantum dots embedded in photonic cavity structure. , 2013, , .		0

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55	Carrier dynamics in intermediate states of InAs/GaAs quantum dots embedded in photonic cavity structure. , 2013, , .		0
56	Intraband carrier dynamics in InAs/GaAs quantum dots studied by two-color excitation spectroscopy. , 2013, , .		0
57	Two-step photocarrier generation in InAs/GaAs quantum dot superlattice intermediate band solar cell. , 2015, , .		0
58	Polarization anisotropy of electroluminescence and net-modal gain in highly stacked InAs/GaAs quantum-dot laser devices. , 2016, , .		0
59	Two-dimensional energy dispersion in thermally annealed epitaxial nitrogen atomic sheet in GaAs. , 2016, , .		0
60	Fundamental Device Characteristics of Hot Carrier Solar Cell Using InAs/GaAs Quantum Dot Superlattices.. Zairyo/Journal of the Society of Materials Science, Japan, 2017, 66, 629-633.	0.2	0
61	Actual Calculation of Solar Cell Efficiencies. Green Energy and Technology, 2019, , 81-137.	0.6	0
62	Ideal Laser Cooling Efficiency Utilizing Anti-Stokes Luminescence in Yb-Doped Yttrium Aluminum Garnet Powder Crystals. Zairyo/Journal of the Society of Materials Science, Japan, 2019, 68, 762-766.	0.2	0
63	Yb-doped yttrium aluminum perovskite for radiation balanced laser application. , 2021, , .		0
64	Analysis of Optical Waveguide Mode in Closely-Stacked InAs/GaAs Quantum Dot Semiconductor Optical Amplifiers. Zairyo/Journal of the Society of Materials Science, Japan, 2015, 64, 685-689.	0.2	0