

Makoto Okano

List of Publications by Year in descending order

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59
papers

597
citations

566801

15
h-index

713013

21
g-index

60
all docs

60
docs citations

60
times ranked

904
citing authors

#	ARTICLE	IF	CITATIONS
1	Photocarrier localization and recombination dynamics in Cu ₂ ZnSnS ₄ single crystals. Applied Physics Letters, 2013, 103, .	1.5	34
2	Anisotropic optical response of optically opaque elastomers with conductive fillers as revealed by terahertz polarization spectroscopy. Scientific Reports, 2016, 6, 39079.	1.6	32
3	Degradation mechanism of perovskite CH ₃ NH ₃ PbI ₃ diode devices studied by electroluminescence and photoluminescence imaging spectroscopy. Applied Physics Express, 2015, 8, 102302.	1.1	31
4	Trion formation and recombination dynamics in hole-doped single-walled carbon nanotubes. Applied Physics Letters, 2013, 103, .	1.5	25
5	Evaluation of Crystallinity and Hydrogen Bond Formation in Stereocomplex Poly(lactic acid) Films by Terahertz Time-Domain Spectroscopy. Macromolecules, 2020, 53, 7171-7177.	2.2	24
6	Temperature-dependent photocarrier recombination dynamics in Cu ₂ ZnSnS ₄ single crystals. Applied Physics Letters, 2014, 104, 081907.	1.5	23
7	Light-stimulated carrier dynamics of CuInS ₂ /CdS heterotetrapod nanocrystals. Nanoscale, 2016, 8, 9517-9520.	2.8	22
8	Slow intraband relaxation and localization of photogenerated carriers in CuIn _{1-x} Ga _x S ₂ nanocrystals. Physical Review B, 2015, 92, .	1.1	21
9	Fast Dissociation and Reduced Auger Recombination of Multiple Excitons in Closely Packed PbS Nanocrystal Thin Films. Journal of Physical Chemistry Letters, 2015, 6, 1327-1332.	2.1	21
10	Controlled Terahertz Birefringence in Stretched Poly(lactic acid) Films Investigated by Terahertz Time-Domain Spectroscopy and Wide-Angle X-ray Scattering. Journal of Physical Chemistry B, 2017, 121, 6951-6957.	1.2	20
11	Assessment of Hot-Carrier Effects on Charge Separation in Type-II CdS/CdTe Heterostructured Nanorods. Journal of Physical Chemistry Letters, 2014, 5, 2951-2956.	2.1	19
12	Free-carrier dynamics and band tails in Cu ₂ ZnSn(S _x Se _{1-x}) ₄ : Evaluation of factors determining solar cell efficiency. Physical Review B, 2015, 92, .	1.1	19
13	Photoinduced Carrier Dynamics of Nearly Stoichiometric Oleylamine-Protected Copper Indium Sulfide Nanoparticles and Nanodisks. Journal of Physical Chemistry C, 2015, 119, 11100-11105.	1.5	18
14	Internal triaxial strain imaging of visibly opaque black rubbers with terahertz polarization spectroscopy. APL Photonics, 2017, 2, .	3.0	17
15	Internal Status of Visibly Opaque Black Rubbers Investigated by Terahertz Polarization Spectroscopy: Fundamentals and Applications. Polymers, 2019, 11, 9.	2.0	17
16	Photocarrier dynamics in CIGS, CZTS, and related materials revealed by ultrafast optical spectroscopy. Physica Status Solidi (B): Basic Research, 2015, 252, 1219-1224.	0.7	15
17	Polarization-sensitive dual-comb spectroscopy. Journal of the Optical Society of America B: Optical Physics, 2017, 34, 154.	0.9	15
18	Observation of high Rydberg states of one-dimensional excitons in GaAs quantum wires by magnetophotoluminescence excitation spectroscopy. Physical Review B, 2012, 86, .	1.1	14

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19	Photocarrier dynamics in undoped and Na-doped Cu ₂ ZnSnS ₄ single crystals revealed by ultrafast time-resolved terahertz spectroscopy. <i>Applied Physics Express</i> , 2015, 8, 062303.	1.1	14
20	Polarization-sensitive electro-optic detection of terahertz wave using three different types of crystal symmetry: Toward broadband polarization spectroscopy. <i>Applied Physics Letters</i> , 2016, 108, .	1.5	14
21	Raman study on the interlayer interactions and the band structure of bilayer graphene synthesized by alcohol chemical vapor deposition. <i>Applied Physics Letters</i> , 2011, 99, 151916.	1.5	13
22	Anisotropic percolation conduction in elastomer-carbon black composites investigated by polarization-sensitive terahertz time-domain spectroscopy. <i>Applied Physics Letters</i> , 2017, 111, 221902.	1.5	13
23	Inspection of internal filler alignment in visibly opaque carbon-black“rubber composites by terahertz polarization spectroscopy in reflection mode. <i>Polymer Testing</i> , 2018, 72, 196-201.	2.3	13
24	Blue 6-ps short-pulse generation in gain-switched InGaN vertical-cavity surface-emitting lasers via impulsive optical pumping. <i>Applied Physics Letters</i> , 2012, 101, .	1.5	12
25	Observation of excited-state excitons and band-gap renormalization in hole-doped carbon nanotubes using photoluminescence excitation spectroscopy. <i>Physical Review B</i> , 2013, 87, .	1.1	12
26	Investigation on photo-induced charge separation in CdS/CdTe nanopencils. <i>Chemical Science</i> , 2014, 5, 3831-3835.	3.7	12
27	Review“Light Emission from Thin Film Solar Cell Materials: An Emerging Infrared and Visible Light Emitter. <i>ECS Journal of Solid State Science and Technology</i> , 2018, 7, R3102-R3110.	0.9	12
28	Ultrafast control of coherent spin precession in ferromagnetic thin films via thermal spin excitation processes induced by two-pulse laser excitation. <i>Physical Review B</i> , 2018, 97, .	1.1	10
29	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.	1.5	9
30	Real-Time Monitoring of Structural Changes in Poly(lactic acid) during Thermal Treatment by High-Speed Terahertz Time-Domain Spectroscopy for Nondestructive Inspection. <i>ACS Applied Polymer Materials</i> , 2019, 1, 3008-3016.	2.0	8
31	Robust Carrier-Induced Suppression of Peak Gain Inherent to Quantum-Wire Lasers. <i>Journal of the Physical Society of Japan</i> , 2011, 80, 114716.	0.7	6
32	Quantitative absorption spectra of quantum wires measured by analysis of attenuated internal emissions. <i>Applied Physics Letters</i> , 2012, 100, 112101.	1.5	6
33	Retrieving the undistorted terahertz time-domain electric-field vector from the electro-optic effect. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2017, 34, 1946.	0.9	6
34	Polarization-sensitive dual-comb spectroscopy with an electro-optic modulator for determination of anisotropic optical responses of materials. <i>Optics Express</i> , 2019, 27, 35141.	1.7	6
35	Dynamics of the Lowest-Energy Excitons in Single-Walled Carbon Nanotubes under Resonant and Nonresonant Optical Excitation. <i>Journal of Physical Chemistry C</i> , 2015, 119, 28654-28659.	1.5	5
36	Individual identification of free hole and electron dynamics in CuIn _{1-x} Ga _x Se ₂ thin films by simultaneous monitoring of two optical transitions. <i>Applied Physics Letters</i> , 2015, 106, .	1.5	4

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37	Interferogram-based determination of the absolute mode numbers of optical frequency combs in dual-comb spectroscopy. <i>Optics Express</i> , 2021, 29, 22214.	1.7	4
38	Carrier-density-dependent increase and suppression of optical gain in T-shaped quantum-wire lasers. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2008, 5, 2841-2843.	0.8	3
39	Exciton-biexciton-plasma crossover and formation of optical gain in quantum wires. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008, 40, 1726-1728.	1.3	3
40	Coulomb-modulated gain spectra in current-injection T-shaped quantum-wire lasers. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2011, 8, 20-23.	0.8	3
41	Low-Threshold Current-Injection Single-Mode Lasing in T-shaped GaAs/AlGaAs Quantum Wires. <i>Japanese Journal of Applied Physics</i> , 2007, 46, L330-L332.	0.8	2
42	Current-injection T-shaped quantum wire lasers with perpendicular doping layers operating at 100K. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008, 40, 1947-1949.	1.3	2
43	Measurements of Cavity-Length-Dependent Internal Differential Quantum Efficiency and Internal Optical Loss in Laser Diodes. <i>Japanese Journal of Applied Physics</i> , 2008, 47, 2288.	0.8	2
44	Quantized exciton-exciton recombination in undoped and hole-doped single-walled carbon nanotubes. <i>Japanese Journal of Applied Physics</i> , 2014, 53, 02BD10.	0.8	2
45	Spatio-temporal imaging of terahertz electric-field vectors: observation of polarization-dependent knife-edge diffraction. <i>Applied Physics Express</i> , 2019, 12, 052010.	1.1	2
46	Ultrafast coherent control of higher-order spin waves in a NiFe thin film by double-pulse excitation. <i>Applied Physics Letters</i> , 2020, 117, .	1.5	2
47	Electronic structure and efficient carrier injection in low-threshold T-shaped quantum-wire lasers with parallel p- and n-doping layers. <i>Journal of Applied Physics</i> , 2007, 102, 043108.	1.1	1
48	Dynamics of excitons and trions in semiconducting carbon nanotubes. , 2013, , .		1
49	Chemical doping-induced changes in optical properties of single-walled carbon nanotubes. <i>Japanese Journal of Applied Physics</i> , 2014, 53, 05FD02.	0.8	1
50	Carrier injection and recombination processes in perovskite $\text{CH}_3\text{NH}_3\text{PbI}_3$ solar cells studied by electroluminescence spectroscopy. <i>Proceedings of SPIE</i> , 2016, , .	0.8	1
51	Magneto-optic Kerr effect CCD imaging with polarization modulation technique. <i>AIP Advances</i> , 2017, 7, 056802.	0.6	1
52	Review-Photophysics of Trions in Single-Walled Carbon Nanotubes. <i>ECS Journal of Solid State Science and Technology</i> , 2017, 6, M3062-M3064.	0.9	1
53	Polarization-Sensitive Electro-Optic Sampling of Elliptically-Polarized Terahertz Pulses: Theoretical Description and Experimental Demonstration. <i>Particles</i> , 2019, 2, 70-89.	0.5	1
54	Ultra-precise determination of thicknesses and refractive indices of optically thick dispersive materials by dual-comb spectroscopy. <i>Optics Express</i> , 2022, 30, 2734.	1.7	1

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55	Strain-induced irreversible change of the conductive network in a rubber/carbon-black composite revealed by polarization-resolved terahertz dielectric spectroscopy. Applied Physics Letters, 2022, 121, .	1.5	1
56	Optical Waveguide-Transmission Spectroscopy of One-Dimensional Excitons in T-shaped Quantum Wires. , 2011, , .		0
57	Introducing new optical functions to semiconducting carbon nanotubes. SPIE Newsroom, 0, , .	0.1	0
58	Terahertz Sensing of Anisotropy in Polymeric Materials. The Review of Laser Engineering, 2019, 47, 21.	0.0	0
59	Coherent Control of Higher-Order Spin Precession Modes in Ferromagnetic Permalloy Thin Films by Double Pulse Excitation. , 2020, , .		0