

Masanobu Iwanaga

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

1,059
citations

361045

20
h-index

454577

30
g-index

63
all docs

63
docs citations

63
times ranked

1261
citing authors

#	ARTICLE	IF	CITATIONS
1	Dual-band infrared metasurface thermal emitter for CO ₂ sensing. Applied Physics Letters, 2014, 105, .	1.5	110
2	All-Dielectric Metasurface Fluorescence Biosensors for High-Sensitivity Antibody/Antigen Detection. ACS Nano, 2020, 14, 17458-17467.	7.3	51
3	Selective Plasmonic Enhancement of Electric- and Magnetic-Dipole Radiations of Er Ions. Nano Letters, 2016, 16, 5191-5196.	4.5	50
4	Near-infrared light-responsive shape-memory poly(ϵ -caprolactone) films that actuate in physiological temperature range. Polymer Journal, 2014, 46, 492-498.	1.3	45
5	Photonic metamaterials: a new class of materials for manipulating light waves. Science and Technology of Advanced Materials, 2012, 13, 053002.	2.8	44
6	High-performance metasurface polarizers with extinction ratios exceeding 12000. Optics Express, 2017, 25, 4446.	1.7	40
7	Optical rectification effect in 1D metallic photonic crystal slabs with asymmetric unit cell. Optics Express, 2008, 16, 8236.	1.7	39
8	An Etching-Free Approach Toward Large-Scale Light-Emitting Metasurfaces. Advanced Optical Materials, 2019, 7, 1801271.	3.6	37
9	Charge separation of excitons and the radiative recombination process in PbBr ₂ crystals. Physical Review B, 2000, 62, 10766-10773.	1.1	36
10	Self-trapped electrons and holes in PbBr ₂ crystals. Physical Review B, 2002, 65, .	1.1	36
11	Overcoming metal-induced fluorescence quenching on plasmo-photonic metasurfaces coated by a self-assembled monolayer. Chemical Communications, 2015, 51, 11470-11473.	2.2	35
12	Self-trapped states and related luminescence in PbCl ₂ crystals. Physical Review B, 2002, 66, .	1.1	29
13	Ultraviolet-nanoimprinted packaged metasurface thermal emitters for infrared CO ₂ sensing. Science and Technology of Advanced Materials, 2015, 16, 035005.	2.8	27
14	Heteroplasmon Hybridization in Stacked Complementary Plasmo-Photonic Crystals. Nano Letters, 2015, 15, 1904-1910.	4.5	25
15	High-Sensitivity High-Throughput Detection of Nucleic Acid Targets on Metasurface Fluorescence Biosensors. Biosensors, 2021, 11, 33.	2.3	23
16	Subwavelength electromagnetic dynamics in stacked complementary plasmonic crystal slabs. Optics Express, 2010, 18, 15389.	1.7	22
17	Photoluminescence-enhanced plasmonic substrates fabricated by nanoimprint lithography. Journal of Micro/ Nanolithography, MEMS, and MOEMS, 2014, 13, 023007.	1.0	22
18	Exciton dynamics related with phase transitions in CsPbCl ₃ single crystals. Journal of Luminescence, 2001, 94-95, 255-259.	1.5	21

#	ARTICLE	IF	CITATIONS
19	The artificial control of enhanced optical processes in fluorescent molecules on high-emittance metasurfaces. <i>Nanoscale</i> , 2016, 8, 11099-11107.	2.8	21
20	Effective optical constants in stratified metal-dielectric metamaterial. <i>Optics Letters</i> , 2007, 32, 1314.	1.7	20
21	Electromagnetic eigenmodes in a stacked complementary plasmonic crystal slab. <i>Physical Review B</i> , 2010, 82, .	1.1	20
22	Exciton-relaxation dynamics in lead halides. <i>Journal of Luminescence</i> , 2003, 102-103, 663-668.	1.5	19
23	Reciprocal transmittances and reflectances: An elementary proof. <i>American Journal of Physics</i> , 2007, 75, 899-902.	0.3	19
24	Ultracompact waveplates: Approach from metamaterials. <i>Applied Physics Letters</i> , 2008, 92, .	1.5	19
25	Polarization-selective transmission in stacked two-dimensional complementary plasmonic crystal slabs. <i>Applied Physics Letters</i> , 2010, 96, .	1.5	17
26	All-Dielectric Metasurfaces with High-Fluorescence-Enhancing Capability. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 1328.	1.3	17
27	Second harmonic generation in periodically polarity-inverted zinc oxide. <i>Optics Express</i> , 2010, 18, 7851.	1.7	16
28	s-polarization Brewster's angle of stratified metal-dielectric metamaterial in optical regime. <i>Physica Status Solidi (B): Basic Research</i> , 2008, 245, 2696-2701.	0.7	15
29	In-plane plasmonic modes of negative group velocity in perforated waveguides. <i>Optics Letters</i> , 2011, 36, 2504.	1.7	15
30	Subnanomolar fluorescent-molecule sensing by guided resonances on nanoimprinted silicon-on-insulator substrates. <i>Applied Physics Letters</i> , 2014, 105, 201106.	1.5	14
31	Hyperlens-array-implemented optical microscopy. <i>Applied Physics Letters</i> , 2014, 105, 053112.	1.5	14
32	Large-Area Resonance-Tuned Metasurfaces for On-Demand Enhanced Spectroscopy. <i>Journal of Nanomaterials</i> , 2015, 2015, 1-7.	1.5	14
33	Highly sensitive wide-range target fluorescence biosensors of high-emittance metasurfaces. <i>Biosensors and Bioelectronics</i> , 2021, 190, 113423.	5.3	11
34	Subwavelength orthogonal polarization rotator. <i>Optics Letters</i> , 2010, 35, 109.	1.7	10
35	Optically deep asymmetric one-dimensional plasmonic crystal slabs: Genetic algorithm approach. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2009, 26, 1111.	0.9	9
36	Perfect Light Absorbers Made of Tungsten-Ceramic Membranes. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 458.	1.3	9

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37	Intrinsic luminescence in PbBr ₂ crystals under one- and two-photon excitation. Journal of Luminescence, 2000, 87-89, 287-289.	1.5	8
38	FIRST-PRINCIPLE ANALYSIS FOR ELECTROMAGNETIC EIGEN MODES IN AN OPTICAL METAMATERIAL SLAB. Progress in Electromagnetics Research, 2012, 132, 129-148.	1.6	7
39	Enhancement of local electromagnetic fields in plasmonic crystals of coaxial metallic nanostructures. Physical Review B, 2012, 85, .	1.1	7
40	Toward Super-Resolution Imaging at Green Wavelengths Employing Stratified Metal-Insulator Metamaterials. Photonics, 2015, 2, 468-482.	0.9	6
41	Superlinear Photoluminescence Dynamics in Plasmon-Quantum-Dot Coupling Systems. ACS Photonics, 2018, 5, 897-906.	3.2	6
42	RELAXATION OF EXCITONS INTO CHARGE-SEPARATED PAIRS IN PbBr ₂ AND PbCl ₂ CRYSTALS. International Journal of Modern Physics B, 2001, 15, 3677-3680.	1.0	5
43	Photoacoustic detection of phase transitions at low temperatures in CsPbCl ₃ crystals. Phase Transitions, 2005, 78, 377-385.	0.6	5
44	Optical-signal-enhancing metasurface platforms for fluorescent molecules at water-transparent near-infrared wavelengths. RSC Advances, 2017, 7, 37076-37085.	1.7	5
45	In-Plane Second Harmonic Generations in Photonic Crystal Slabs of LiNbO ₃ . Applied Physics Express, 0, 1, 082101.	1.1	4
46	Non-Empirical Large-Scale Search for Optical Metasurfaces. Nanomaterials, 2020, 10, 1739.	1.9	3
47	Smart Shape-Memory Polymeric String for the Contraction of Blood Vessels in Fetal Surgery of Sacrococcygeal Teratoma. Advanced Healthcare Materials, 2022, , 2200050.	3.9	3
48	Photoacoustic wave propagating from normal into superconductive phases in Pb single crystals. Physical Review B, 2005, 72, .	1.1	2
49	Emergence of optical magnetism in stratified metal-dielectric metamaterials. Physica Status Solidi (B): Basic Research, 2008, 245, 2684-2687.	0.7	2
50	Diversity of optical indices in stratified metal dielectric metamaterials. Proceedings of SPIE, 2009, , .	0.8	2
51	Nonlinear optical response of embedded-semiconductor quantum dots covered by plasmonic metasurfaces. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	1.1	2
52	Enhanced High Performance of a Metasurface Polarizer Through Numerical Analysis of the Degradation Characteristics. Nanoscale Research Letters, 2018, 13, 225.	3.1	2
53	Emission-enhanced plasmonic substrates fabricated by nano-imprint lithography. , 2014, , .		1
54	Large-area metasurfaces produced with nm precision by UV nanoimprint lithography. , 2016, , .		1

#	ARTICLE	IF	CITATIONS
55	Recent progress in emittance-controlled optical metasurfaces. Journal of Physics: Conference Series, 2018, 1092, 012053.	0.3	1
56	Fabrication and Application of Light-Emitting Optical Metasurfaces. The Review of Laser Engineering, 2016, 44, 10.	0.0	1
57	Revisit of fishnet metamaterials: From viewpoint of dimensionality, symmetry, and designs of unit cell. , 2013, , .		0
58	Mie-Resonance-Enhancing Electric-Dipole Emissions on All-Dielectric Metasurfaces. , 2018, , .		0
59	Strongly polarized emissions from selectively controlled electric- and magnetic-dipole transitions in Er^{3+} ions. Japanese Journal of Applied Physics, 2018, 57, 118002.	0.8	0
60	Configuration Interaction on Plasmo-Photonic Metasurfaces Controlling Optical Transitions. , 2016, , .		0