

# 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	Smart Shape-memory Polymeric String for the Contraction of Blood Vessels in Fetal Surgery of Sacrococcygeal Teratoma. <i>Advanced Healthcare Materials</i> , 2022, , 2200050.	3.9	3
2	High-Sensitivity High-Throughput Detection of Nucleic Acid Targets on Metasurface Fluorescence Biosensors. <i>Biosensors</i> , 2021, 11, 33.	2.3	23
3	Highly sensitive wide-range target fluorescence biosensors of high-emittance metasurfaces. <i>Biosensors and Bioelectronics</i> , 2021, 190, 113423.	5.3	11
4	All-Dielectric Metasurface Fluorescence Biosensors for High-Sensitivity Antibody/Antigen Detection. <i>ACS Nano</i> , 2020, 14, 17458-17467.	7.3	51
5	Non-Empirical Large-Scale Search for Optical Metasurfaces. <i>Nanomaterials</i> , 2020, 10, 1739.	1.9	3
6	An Etching-free Approach Toward Large-scale Light-emitting Metasurfaces. <i>Advanced Optical Materials</i> , 2019, 7, 1801271.	3.6	37
7	Nonlinear optical response of embedded-semiconductor quantum dots covered by plasmonic metasurfaces. <i>Applied Physics A: Materials Science and Processing</i> , 2018, 124, 1.	1.1	2
8	Superlinear Photoluminescence Dynamics in Plasmon-Quantum-Dot Coupling Systems. <i>ACS Photonics</i> , 2018, 5, 897-906.	3.2	6
9	Enhanced High Performance of a Metasurface Polarizer Through Numerical Analysis of the Degradation Characteristics. <i>Nanoscale Research Letters</i> , 2018, 13, 225.	3.1	2
10	Mie-Resonance-Enhancing Electric-Dipole Emissions on All-Dielectric Metasurfaces. , 2018, , .		0
11	All-Dielectric Metasurfaces with High-Fluorescence-Enhancing Capability. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 1328.	1.3	17
12	Strongly polarized emissions from selectively controlled electric- and magnetic-dipole transitions in $\text{Er}^{3+}$ ions. <i>Japanese Journal of Applied Physics</i> , 2018, 57, 118002.	0.8	0
13	Recent progress in emittance-controlled optical metasurfaces. <i>Journal of Physics: Conference Series</i> , 2018, 1092, 012053.	0.3	1
14	Optical-signal-enhancing metasurface platforms for fluorescent molecules at water-transparent near-infrared wavelengths. <i>RSC Advances</i> , 2017, 7, 37076-37085.	1.7	5
15	High-performance metasurface polarizers with extinction ratios exceeding 12000. <i>Optics Express</i> , 2017, 25, 4446.	1.7	40
16	Perfect Light Absorbers Made of Tungsten-Ceramic Membranes. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 458.	1.3	9
17	Large-area metasurfaces produced with nm precision by UV nanoimprint lithography. , 2016, , .		1
18	The artificial control of enhanced optical processes in fluorescent molecules on high-emittance metasurfaces. <i>Nanoscale</i> , 2016, 8, 11099-11107.	2.8	21

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19	Selective Plasmonic Enhancement of Electric- and Magnetic-Dipole Radiations of Er Ions. Nano Letters, 2016, 16, 5191-5196.	4.5	50
20	Configuration Interaction on Plasmo-Photonic Metasurfaces Controlling Optical Transitions. , 2016, , .		0
21	Fabrication and Application of Light-Emitting Optical Metasurfaces. The Review of Laser Engineering, 2016, 44, 10.	0.0	1
22	Large-Area Resonance-Tuned Metasurfaces for On-Demand Enhanced Spectroscopy. Journal of Nanomaterials, 2015, 2015, 1-7.	1.5	14
23	Toward Super-Resolution Imaging at Green Wavelengths Employing Stratified Metal-Insulator Metamaterials. Photonics, 2015, 2, 468-482.	0.9	6
24	Heteroplasmon Hybridization in Stacked Complementary Plasmo-Photonic Crystals. Nano Letters, 2015, 15, 1904-1910.	4.5	25
25	Overcoming metal-induced fluorescence quenching on plasmo-photonic metasurfaces coated by a self-assembled monolayer. Chemical Communications, 2015, 51, 11470-11473.	2.2	35
26	Ultraviolet-nanoimprinted packaged metasurface thermal emitters for infrared CO <sub>2</sub> sensing. Science and Technology of Advanced Materials, 2015, 16, 035005.	2.8	27
27	Dual-band infrared metasurface thermal emitter for CO <sub>2</sub> sensing. Applied Physics Letters, 2014, 105, .	1.5	110
28	Subnanomolar fluorescent-molecule sensing by guided resonances on nanoimprinted silicon-on-insulator substrates. Applied Physics Letters, 2014, 105, 201106.	1.5	14
29	Hyperlens-array-implemented optical microscopy. Applied Physics Letters, 2014, 105, 053112.	1.5	14
30	Emission-enhanced plasmonic substrates fabricated by nano-imprint lithography. , 2014, , .		1
31	Photoluminescence-enhanced plasmonic substrates fabricated by nanoimprint lithography. Journal of Micro/ Nanolithography, MEMS, and MOEMS, 2014, 13, 023007.	1.0	22
32	Near-infrared light-responsive shape-memory poly( $\epsilon$ -caprolactone) films that actuate in physiological temperature range. Polymer Journal, 2014, 46, 492-498.	1.3	45
33	Revisit of fishnet metamaterials: From viewpoint of dimensionality, symmetry, and designs of unit cell. , 2013, , .		0
34	Photonic metamaterials: a new class of materials for manipulating light waves. Science and Technology of Advanced Materials, 2012, 13, 053002.	2.8	44
35	FIRST-PRINCIPLE ANALYSIS FOR ELECTROMAGNETIC EIGEN MODES IN AN OPTICAL METAMATERIAL SLAB. Progress in Electromagnetics Research, 2012, 132, 129-148.	1.6	7
36	Enhancement of local electromagnetic fields in plasmonic crystals of coaxial metallic nanostructures. Physical Review B, 2012, 85, .	1.1	7

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37	In-plane plasmonic modes of negative group velocity in perforated waveguides. <i>Optics Letters</i> , 2011, 36, 2504.	1.7	15
38	Polarization-selective transmission in stacked two-dimensional complementary plasmonic crystal slabs. <i>Applied Physics Letters</i> , 2010, 96, .	1.5	17
39	Second harmonic generation in periodically polarity-inverted zinc oxide. <i>Optics Express</i> , 2010, 18, 7851.	1.7	16
40	Subwavelength electromagnetic dynamics in stacked complementary plasmonic crystal slabs. <i>Optics Express</i> , 2010, 18, 15389.	1.7	22
41	Subwavelength orthogonal polarization rotator. <i>Optics Letters</i> , 2010, 35, 109.	1.7	10
42	Electromagnetic eigenmodes in a stacked complementary plasmonic crystal slab. <i>Physical Review B</i> , 2010, 82, .	1.1	20
43	Diversity of optical indices in stratified metal dielectric metamaterials. <i>Proceedings of SPIE</i> , 2009, , .	0.8	2
44	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
45	Emergence of optical magnetism in stratified metal-dielectric metamaterials. <i>Physica Status Solidi (B): Basic Research</i> , 2008, 245, 2684-2687.	0.7	2
46	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
47	Optical rectification effect in 1D metallic photonic crystal slabs with asymmetric unit cell. <i>Optics Express</i> , 2008, 16, 8236.	1.7	39
48	Ultracompact waveplates: Approach from metamaterials. <i>Applied Physics Letters</i> , 2008, 92, .	1.5	19
49	Effective optical constants in stratified metal-dielectric metamaterial. <i>Optics Letters</i> , 2007, 32, 1314.	1.7	20
50	Reciprocal transmittances and reflectances: An elementary proof. <i>American Journal of Physics</i> , 2007, 75, 899-902.	0.3	19
51	Photoacoustic wave propagating from normal into superconductive phases in Pb single crystals. <i>Physical Review B</i> , 2005, 72, .	1.1	2
52	Photoacoustic detection of phase transitions at low temperatures in CsPbCl <sub>3</sub> crystals. <i>Phase Transitions</i> , 2005, 78, 377-385.	0.6	5
53	Exciton-relaxation dynamics in lead halides. <i>Journal of Luminescence</i> , 2003, 102-103, 663-668.	1.5	19
54	Self-trapped electrons and holes in PbBr <sub>2</sub> crystals. <i>Physical Review B</i> , 2002, 65, .	1.1	36

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55	Self-trapped states and related luminescence in PbCl <sub>2</sub> crystals. Physical Review B, 2002, 66, .	1.1	29
56	Exciton dynamics related with phase transitions in CsPbCl <sub>3</sub> single crystals. Journal of Luminescence, 2001, 94-95, 255-259.	1.5	21
57	RELAXATION OF EXCITONS INTO CHARGE-SEPARATED PAIRS IN PbBr <sub>2</sub> AND PbCl <sub>2</sub> CRYSTALS. International Journal of Modern Physics B, 2001, 15, 3677-3680.	1.0	5
58	Intrinsic luminescence in PbBr <sub>2</sub> crystals under one- and two-photon excitation. Journal of Luminescence, 2000, 87-89, 287-289.	1.5	8
59	Charge separation of excitons and the radiative recombination process in PbBr <sub>2</sub> crystals. Physical Review B, 2000, 62, 10766-10773.	1.1	36
60	In-Plane Second Harmonic Generations in Photonic Crystal Slabs of LiNbO <sub>3</sub> . Applied Physics Express, 0, 1, 082101.	1.1	4