

Koichi Okamoto

List of Publications by Year in descending order

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124
papers

4,245
citations

172207

29
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114278

63
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128
all docs

128
docs citations

128
times ranked

4453
citing authors

#	ARTICLE	IF	CITATIONS
1	Surface-plasmon-enhanced light emitters based on InGa _N quantum wells. <i>Nature Materials</i> , 2004, 3, 601-605.	13.3	1,395
2	Surface plasmon enhanced spontaneous emission rate of InGa _N /Ga _N quantum wells probed by time-resolved photoluminescence spectroscopy. <i>Applied Physics Letters</i> , 2005, 87, 071102.	1.5	341
3	Surface-plasmon enhanced bright emission from CdSe quantum-dot nanocrystals. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2006, 23, 1674.	0.9	146
4	Surface plasmon enhanced emission from dye doped polymer layers. <i>Optics Express</i> , 2005, 13, 5522.	1.7	122
5	Exciton-Plasmon Coupling and Electromagnetically Induced Transparency in Monolayer Semiconductors Hybridized with Ag Nanoparticles. <i>Advanced Materials</i> , 2016, 28, 2709-2715.	11.1	115
6	Translational diffusion of transient radicals created by the photoinduced hydrogen abstraction reaction in solution: Anomalous size dependence in the radical diffusion. <i>Journal of Chemical Physics</i> , 1995, 102, 2506-2515.	1.2	98
7	Optical properties of InGa _N /Ga _N nanopillars fabricated by postgrowth chemically assisted ion beam etching. <i>Journal of Applied Physics</i> , 2010, 107, .	1.1	88
8	Ultralow threshold on-chip microcavity nanocrystal quantum dot lasers. <i>Applied Physics Letters</i> , 2006, 89, 191124.	1.5	84
9	Spatial and temporal luminescence dynamics in an In _x Ga _{1-x} N single quantum well probed by near-field optical microscopy. <i>Applied Physics Letters</i> , 2002, 81, 4353-4355.	1.5	81
10	High-Efficiency InGa _N /Ga _N Light Emitters Based on Nanophotonics and Plasmonics. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2009, 15, 1199-1209.	1.9	80
11	Transient radical diffusion in photoinduced hydrogen abstraction reactions of benzophenone probed by the transient grating method. <i>The Journal of Physical Chemistry</i> , 1993, 97, 13387-13393.	2.9	76
12	Confocal microphotoluminescence of InGa _N -based light-emitting diodes. <i>Journal of Applied Physics</i> , 2005, 98, 064503.	1.1	66
13	Collective plasmon modes excited on a silver nanoparticle 2D crystalline sheet. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 7459.	1.3	62
14	Radiative and Nonradiative Recombination Processes in Ga _N -Based Semiconductors. <i>Physica Status Solidi A</i> , 2001, 183, 41-50.	1.7	59
15	Cu ₂ O Nanowires in an Alumina Template: Electrochemical Conditions for the Synthesis and Photoluminescence Characteristics. <i>ChemPhysChem</i> , 2006, 7, 1505-1509.	1.0	55
16	Diffusion process of methyl red in organic solvents studied by the transient grating method. <i>The Journal of Physical Chemistry</i> , 1993, 97, 5188-5192.	2.9	53
17	High-efficiency light emission by means of exciton-surface-plasmon coupling. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2017, 32, 58-77.	5.6	48
18	Temperature dependence of diffusion of radical intermediates probed by the transient grating method. <i>Journal of Chemical Physics</i> , 1995, 103, 10445-10452.	1.2	46

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19	Diffusion of Platinum Ions and Platinum Nanoparticles during Photoreduction Processes Using the Transient Grating Method. <i>Langmuir</i> , 2006, 22, 9142-9149.	1.6	42
20	Surface plasmon enhanced bright light emission from InGaN/GaN. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2007, 204, 2103-2107.	0.8	42
21	Sigmatropic Dearomatization/Defluorination Strategy for C~F Transformation: Synthesis of Fluorinated Benzofurans from Polyfluorophenols. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 14230-14234.	7.2	42
22	Near-field scanning optical microscopy of photonic crystal nanocavities. <i>Applied Physics Letters</i> , 2003, 82, 1676-1678.	1.5	41
23	Perfect blackbody radiation from a graphene nanostructure with application to high-temperature spectral emissivity measurements. <i>Optics Express</i> , 2013, 21, 30964.	1.7	41
24	Near-field scanning optical microscopic transient lens for carrier dynamics study in InGaN~GaN. <i>Applied Physics Letters</i> , 2005, 87, 161104.	1.5	37
25	Tuning Colors of Silver Nanoparticle Sheets by Multilayered Crystalline Structures on Metal Substrates. <i>Plasmonics</i> , 2013, 8, 581-590.	1.8	35
26	Highly enhanced green emission from InGaN quantum wells due to surface plasmon resonance on aluminum films. <i>Applied Physics Letters</i> , 2015, 106, .	1.5	35
27	Time resolved photoluminescence spectroscopy of surface-plasmon-enhanced light emission from conjugate polymers. <i>Applied Physics Letters</i> , 2006, 89, 221106.	1.5	34
28	Time-resolved photoluminescence spectroscopy in GaN-based semiconductors with micron spatial resolution. <i>Journal of Luminescence</i> , 2000, 87-89, 1196-1198.	1.5	31
29	High-resolution imaging of a cell-attached nanointerface using a gold-nanoparticle two-dimensional sheet. <i>Scientific Reports</i> , 2017, 7, 3720.	1.6	31
30	In inhomogeneity and emission characteristics of InGaN. <i>Journal of Physics Condensed Matter</i> , 2001, 13, 6993-7010.	0.7	30
31	Highly confined, enhanced surface fluorescence imaging with two-dimensional silver nanoparticle sheets. <i>Applied Physics Letters</i> , 2014, 104, .	1.5	30
32	Diffusion Process of the Benzyl Radical Created by Photodissociation Probed by the Transient Grating Method. <i>Journal of Physical Chemistry A</i> , 1997, 101, 5269-5277.	1.1	29
33	Spatial Inhomogeneity of Photoluminescence in an InGaN-Based Light-Emitting Diode Structure Probed by Near-Field optical Microscopy Under Illumination-Collection Mode. <i>Japanese Journal of Applied Physics</i> , 2001, 40, 110-111.	0.8	29
34	Surface plasmon enhanced light emission from semiconductor materials. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2008, 5, 2822-2824.	0.8	26
35	Diffusion of gold ions and gold particles during photoreduction processes probed by the transient grating method. <i>Journal of Colloid and Interface Science</i> , 2009, 332, 373-381.	5.0	26
36	Colorimetric plasmon sensors with multilayered metallic nanoparticle sheets. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 18606-18612.	1.3	26

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37	Recombination dynamics in low-dimensional nitride semiconductors. <i>Physica Status Solidi (B): Basic Research</i> , 2003, 240, 337-343.	0.7	22
38	Grain size dependence of surface plasmon enhanced photoluminescence. <i>Optics Express</i> , 2013, 21, 3145.	1.7	22
39	Silver nanoparticles with tunable work functions. <i>Applied Physics Letters</i> , 2015, 107, .	1.5	21
40	Flexibly tunable surface plasmon resonance by strong mode coupling using a random metal nanohemisphere on mirror. <i>Nanophotonics</i> , 2020, 9, 3409-3418.	2.9	21
41	Submicron-Scale Photoluminescence of InGaN/GaN Probed by Confocal Scanning Laser Microscopy. <i>Japanese Journal of Applied Physics</i> , 2004, 43, 839-840.	0.8	20
42	Comments on "Diffusion of Free Radicals in Solution. TEMPO, Diphenylpicrylhydrazyl, and Nitrosodisulfonate". <i>Journal of Physical Chemistry A</i> , 1997, 101, 5380-5381.	1.1	19
43	Spectroscopic Properties of Multilayered Gold Nanoparticle 2D Sheets. <i>Langmuir</i> , 2012, 28, 17153-17158.	1.6	19
44	Electromagnetically induced transparency of a plasmonic metamaterial light absorber based on multilayered metallic nanoparticle sheets. <i>Scientific Reports</i> , 2016, 6, 36165.	1.6	19
45	Fabrication and evaluation of plasmonic light-emitting diodes with thin p-type layer and localized Ag particles embedded by ITO. <i>Journal of Applied Physics</i> , 2017, 121, .	1.1	19
46	Diffusion of electrically neutral radicals and anion radicals created by photochemical reactions. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1998, 94, 185-194.	1.7	17
47	Diffusion of Photochemically Generated Intermediate Radicals in Water/Ethanol Mixed Solvents. <i>Journal of Physical Chemistry A</i> , 1998, 102, 3447-3454.	1.1	16
48	Surface Plasmon Enhanced Solid-State Light-Emitting Devices. , 2010, , 27-46.		16
49	Characteristics of localized surface plasmons excited on mixed monolayers composed of self-assembled Ag and Au nanoparticles. <i>Nanoscale</i> , 2015, 7, 15310-15320.	2.8	15
50	Molecular Dynamics in Solution Probed by the Transient Grating Method With a Nanosecond Pulsed Laser. <i>Laser Chemistry</i> , 1994, 13, 169-185.	0.5	14
51	Surface plasmon enhanced super bright InGaN light emitter. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2005, 2, 2841-2844.	0.8	14
52	Enhancements of emission rates and efficiencies by surface plasmon coupling. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2010, 7, 2582-2585.	0.8	14
53	Sigmatropic Dearomatization/Defluorination Strategy for C-F Transformation: Synthesis of Fluorinated Benzofurans from Polyfluorophenols. <i>Angewandte Chemie</i> , 2018, 130, 14426-14430.	1.6	14
54	Micro-photoluminescence mapping of surface plasmon enhanced light emissions from InGaN/GaN quantum wells. <i>Applied Physics Letters</i> , 2017, 111, .	1.5	14

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55	Translational Diffusion of Ion Radicals Created by Electron Transfer in Charged Micellar Solutions Probed by the Transient Grating Method and the Taylor Dispersion Method. <i>Journal of Physical Chemistry A</i> , 2001, 105, 6586-6593.	1.1	13
56	Interference of the surface plasmon polaritons with an Ag waveguide probed by dual-probe scanning near-field optical microscopy. <i>Applied Surface Science</i> , 2012, 258, 7372-7376.	3.1	13
57	C ⁶ F Arylation of Polyfluorophenols by Means of Sigmatropic Dearomatization/Defluorination Sequence. <i>Chemistry - A European Journal</i> , 2020, 26, 5615-5618.	1.7	13
58	High-sensitivity surface plasmon resonance sensors utilizing high-refractive-index silver nanoparticle sheets. <i>Japanese Journal of Applied Physics</i> , 2014, 53, 01AF01.	0.8	12
59	Morphological and optical properties of Γ_6 - and Γ_2 -phase zinc (II) phthalocyanine thin films for application to organic photovoltaic cells. <i>Journal of Chemical Physics</i> , 2020, 153, 144704.	1.2	12
60	Nonradiative recombination processes of carriers in InGaN/GaN probed by the microscopic transient lens spectroscopy. <i>Review of Scientific Instruments</i> , 2003, 74, 575-577.	0.6	11
61	Localized surface plasmon resonance in deep ultraviolet region below 200 nm using a nanohemisphere on mirror structure. <i>Scientific Reports</i> , 2021, 11, 5169.	1.6	11
62	A rare case of perivascular epithelioid cell tumor (PEComa) of the greater omentum. <i>World Journal of Surgical Oncology</i> , 2018, 16, 113.	0.8	10
63	Single mode emission and non-stochastic laser system based on disordered point-sized structures: toward a tuneable random laser. <i>Optics Express</i> , 2011, 19, 9262.	1.7	9
64	Enhancement of light emission and internal quantum efficiency in orange and red regions for regularly arrayed InGaN/GaN nanocolumns due to surface plasmon coupling. <i>Applied Physics Letters</i> , 2017, 111, .	1.5	9
65	Regioselective Difunctionalization of 2,6-Difluorophenols Triggered by Sigmatropic Dearomatization. <i>Organic Letters</i> , 2020, 22, 5540-5544.	2.4	9
66	<title>Time-resolved fluorescence spectroscopy of dopamine in single cells</title>. , 2001, , .		8
67	Photothermal molecular sensing by using metal thin-film nanograting for chemical and biomedical applications. <i>Thin Solid Films</i> , 2004, 469-470, 420-424.	0.8	8
68	Quantification of the internal quantum efficiency in GaN via analysis of the heat generated by non-radiative recombination processes. <i>Journal of Applied Physics</i> , 2015, 117, .	1.1	8
69	Micro-photoluminescence mapping of surface plasmon-coupled emission from InGaN/GaN quantum wells. <i>Japanese Journal of Applied Physics</i> , 2019, 58, SCCB31.	0.8	7
70	Tuning the Emission Colors of Self-Assembled Quantum Dot Monolayers via One-Step Heat Treatment for Display Applications. <i>ACS Applied Nano Materials</i> , 2020, 3, 3214-3222.	2.4	7
71	Metal-free synthesis of biaryls from aryl sulfoxides and sulfonanilides via sigmatropic rearrangement. <i>Tetrahedron</i> , 2020, 76, 131232.	1.0	7
72	<title>Dynamics of spontaneous and stimulated emissions in GaN-based semiconductors</title>. , 2001, , .		6

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73	Sub-microscopic transient lens spectroscopy of InGaN/GaN quantum wells. <i>Physica Status Solidi (B): Basic Research</i> , 2003, 240, 368-371.	0.7	6
74	Mask pattern transferred transient grating technique for molecular-dynamics study in solutions. <i>Applied Physics Letters</i> , 2004, 85, 4842-4844.	1.5	6
75	Tuning the Work Functions of 2D Silver Nanoparticle Sheets Using Local Oxidation Nanolithography. <i>Advanced Materials Interfaces</i> , 2014, 1, 1400268.	1.9	6
76	Colorimetric Detection of an Airborne Remote Photocatalytic Reaction Using a Stratified Ag Nanoparticle Sheet. <i>Langmuir</i> , 2016, 32, 8154-8162.	1.6	6
77	Large patternable metal nanoparticle sheets by photo/e-beam lithography. <i>Nanotechnology</i> , 2017, 28, 435705.	1.3	6
78	Surface plasmon resonance effect of silver nanoparticles on the enhanced efficiency of inverted hybrid organic-inorganic solar cell. <i>Journal of Nonlinear Optical Physics and Materials</i> , 2018, 27, 1850017.	1.1	6
79	Metallic nanovoid and nano hemisphere structures fabricated via simple methods to control localized surface plasmon resonances in UV and near IR wavelength regions. <i>Applied Physics Express</i> , 2021, 14, 042007.	1.1	6
80	LSPR-mediated high axial-resolution fluorescence imaging on a silver nanoparticle sheet. <i>PLoS ONE</i> , 2017, 12, e0189708.	1.1	6
81	Time-space-resolved photoluminescence from (Zn,Cd)Se-based quantum structures. <i>Journal of Crystal Growth</i> , 2000, 214-215, 639-645.	0.7	5
82	Direct observation of the nonradiative recombination processes in InGaN-based LEDs probed by the third-order nonlinear spectroscopy. , 2001, , .		5
83	Surface plasmon enhanced InGaN light emitter. , 2005, , .		5
84	High Axial and Lateral Resolutions on Self-Assembled Gold Nanoparticle Metasurfaces for Live-Cell Imaging. <i>ACS Applied Nano Materials</i> , 2020, 3, 11135-11142.	2.4	5
85	Effect of chemically induced permittivity changes on the plasmonic properties of metal nanoparticles. <i>Communications Materials</i> , 2021, 2, .	2.9	5
86	Spatial Inhomogeneity of Photoluminescence in InGaN Single Quantum Well Structures. <i>Physica Status Solidi (B): Basic Research</i> , 2001, 228, 153-156.	0.7	4
87	Fabrication and Unique Optical Properties of Two-Dimensional Silver Nanorod Arrays with Nanometer Gaps on a Silicon Substrate from a Self-Assembled Template of Diblock Copolymer. <i>Langmuir</i> , 2016, 32, 12504-12510.	1.6	4
88	Stochastic approach to simulation of evaporation-triggered multiple self-assembly of mixed metal nanoparticles and their variable superradiance. <i>Applied Physics Letters</i> , 2018, 112, .	1.5	4
89	Comparison of LSPR-mediated enhanced fluorescence excited by S- and P-polarized light on a two-dimensionally assembled silver nanoparticle sheet. <i>Applied Physics Letters</i> , 2018, 113, .	1.5	4
90	How to make microscale pores on a self-assembled Ag nanoparticle monolayer. <i>Colloids and Interface Science Communications</i> , 2019, 30, 100175.	2.0	4

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91	Layer Number-Dependent Enhanced Photoluminescence from a Quantum Dot Metamaterial Optical Resonator. ACS Applied Electronic Materials, 2021, 3, 468-475.	2.0	4
92	Deep-ultraviolet localized surface plasmon resonance using Ga nanoparticles. Optical Materials Express, 2022, 12, 2444.	1.6	4
93	Translational diffusion of transient radicals studied by the transient grating method. Journal of Molecular Liquids, 1995, 65-66, 401-404.	2.3	3
94	Microscopic Patterning on the Polysilane Films by the Laser Induced Grating Technique. Molecular Crystals and Liquid Crystals, 2001, 370, 379-382.	0.3	3
95	Contribution of hydrogen bonding to the slow diffusion of transient radicals. Chemical Physics Letters, 2003, 372, 419-422.	1.2	3
96	Finite-difference time-domain simulations of inverted cone-shaped plasmonic nanopore structures. Journal of Applied Physics, 2020, 127, .	1.1	3
97	Photopolymerization effects on the external quantum efficiency of fullerene/zinc phthalocyanine heterojunction solar cells. AIP Advances, 2021, 11, .	0.6	3
98	Unraveling the reasons behind lead phthalocyanine acting as a good absorber for near-infrared sensitive devices. Scientific Reports, 2022, 12, .	1.6	3
99	Photonic crystal nanocavities with quantum well or quantum dot active material. , 2004, , .		2
100	Molecular dynamics study of photochromic molecules probed by the mask pattern transferred transient grating technique. Chemical Physics Letters, 2005, 414, 155-160.	1.2	2
101	Plasmonics toward high-efficiency LEDs from the visible to the deep-UV region. , 2017, , .		2
102	The removal method of the influence of heartbeat in the ultrasonic velocity-change method. Japanese Journal of Applied Physics, 2019, 58, SGGE17.	0.8	2
103	Tuning of the Surface Plasmon Resonance in the UV-IR Range for Wider Applications. ACS Symposium Series, 2016, , 247-259.	0.5	1
104	Micro-photoluminescence mapping of light emissions from aluminum-coated InGaN/GaN quantum wells. Applied Physics Express, 2019, 12, 052016.	1.1	1
105	Comparison of surface plasmon polariton characteristics of Ag- and Au-based InGaN/GaN nanocolumn plasmonic crystals. Applied Physics Express, 2021, 14, 105002.	1.1	1
106	Fabrication and Application of Plasmonic Silver Nanosheet. International Journal of Behavioral and Consultation Therapy, 2012, , 139-157.	0.4	1
107	Transient Nascent Adhesion at the Initial Stage of Cell Adhesion Visualized on a Plasmonic Metasurface. Advanced NanoBiomed Research, 2022, 2, 2100100.	1.7	1
108	Translational diffusion of transient radicals studied by the transient grating method. Studies in Physical and Theoretical Chemistry, 1995, 83, 401-404.	0.0	0

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109	Recombination mechanism in low-dimensional nitride semiconductors. , 2003, , .		0
110	Temporal and spatial-resolved nonlinear spectroscopy of InGaN/GaN. , 2004, , FMN4.		0
111	Enhanced light emission from dye doped polymer layers using surface plasmons. , 2006, , .		0
112	Ultralow threshold on-chip toroidal microcavity nanocrystal quantum dot lasers. , 2006, , .		0
113	Surface plasmon enhanced light emission from CdSe quantum dot nanocrystals. , 2006, , .		0
114	Enhanced Light Emission by Exciton-Surface Plasmon Coupling. Materials Research Society Symposia Proceedings, 2007, 1055, 3.	0.1	0
115	Highly efficient light emission based on plasmonics. , 2008, , .		0
116	Super Bright Light-Emitting Devices using Surface Plasmon Coupling. Hyomen Kagaku, 2008, 29, 344-349.	0.0	0
117	ãf—ãf ©ã,ãf çãf çã,ã,1ã«ã,ã,é«ãŠ1çŽç™ã...%. Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan, 2010, 61, 617-6		0
118	Plasmonics for Green Technologies: Toward High-Efficiency LEDs and Solar Cells. , 2012, , .		0
119	Durability improvements of two-dimensional metal nanoparticle sheets by molecular cross-linked structures between nanoparticles. Japanese Journal of Applied Physics, 2018, 57, 03EG10.	0.8	0
120	Comparison of the mechanical strength of a monolayer of silver nanoparticles both in the freestanding state and on a soft substrate. Journal of Applied Physics, 2019, 125, 134301.	1.1	0
121	Improvement of External Quantum Efficiency of C60/ZnPc Organic Photovoltaic Cells by Polymerization between C60 molecules. , 2019, , .		0
122	New Functional Property of Self-Assembled Nanomaterials. The Review of Laser Engineering, 2013, 41, 185.	0.0	0
123	Tunable plasmonic resonance in wide wavelength range for smart photonic and optoelectronic applications. , 2018, , .		0
124	Mico-photoluminescence of surface plasmon enhanced emissions from semi-polar InGaN/GaN quantum wells. , 2021, , .		0