Koichi Okamoto

List of Publications by Year
in descending order

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124 papers	4,245 citations	172207 29 h-index	114278 63 g-index
128 all docs	128 docs citations	128 times ranked	4453 citing authors

#	Article	IF	Citations
1	Transient Nascent Adhesion at the Initial Stage of Cell Adhesion Visualized on a Plasmonic Metasurface. Advanced NanoBiomed Research, 2022, 2, 2100100.	1.7	1
2	Unraveling the reasons behind lead phthalocyanine acting as a good absorber for near-infrared sensitive devices. Scientific Reports, 2022, 12, .	1.6	3
3	Deep-ultraviolet localized surface plasmon resonance using Ga nanoparticles. Optical Materials Express, 2022, 12, 2444.	1.6	4
4	Layer Number-Dependent Enhanced Photoluminescence from a Quantum Dot Metamaterial Optical Resonator. ACS Applied Electronic Materials, 2021, 3, 468-475.	2.0	4
5	Metallic nanovoid and nano hemisphere structures fabricated via simple methods to control localized surface plasmon resonances in UV and near IR wavelength regions. Applied Physics Express, 2021, 14, 042007.	1.1	6
6	Localized surface plasmon resonance in deep ultraviolet region below 200Ânm using a nanohemisphere on mirror structure. Scientific Reports, 2021, 11, 5169.	1.6	11
7	Effect of chemically induced permittivity changes on the plasmonic properties of metal nanoparticles. Communications Materials, 2021, 2, .	2.9	5
8	Photopolymerization effects on the external quantum efficiency of fullerene/zinc phthalocyanine heterojunction solar cells. AIP Advances, 2021, 11, .	0.6	3
9	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
10	Mico-photoluminescence of surface plasmon enhanced emissions from semi-polar InGaN/GaN quantum wells. , 2021, , .		0
11	High Axial and Lateral Resolutions on Self-Assembled Gold Nanoparticle Metasurfaces for Live-Cell Imaging. ACS Applied Nano Materials, 2020, 3, 11135-11142.	2.4	5
12	Morphological and optical properties of Î±- and Î²-phase zinc (âˆ¥) phthalocyanine thin films for application to organic photovoltaic cells. Journal of Chemical Physics, 2020, 153, 144704.	1.2	12
13	Câ^'F Arylation of Polyfluorophenols by Means of Sigmatropic Dearomatization/Defluorination Sequence. Chemistry - A European Journal, 2020, 26, 5615-5618.	1.7	13
14	Finite-difference time-domain simulations of inverted cone-shaped plasmonic nanopore structures. Journal of Applied Physics, 2020, 127, .	1.1	3
15	Regioselective Difunctionalization of 2,6-Difluorophenols Triggered by Sigmatropic Dearomatization. Organic Letters, 2020, 22, 5540-5544.	2.4	9
16	Tuning the Emission Colors of Self-Assembled Quantum Dot Monolayers via One-Step Heat Treatment for Display Applications. ACS Applied Nano Materials, 2020, 3, 3214-3222.	2.4	7
17	Metal-free synthesis of biaryls from aryl sulfoxides and sulfonanilides via sigmatropic rearrangement. Tetrahedron, 2020, 76, 131232.	1.0	7
18	Flexibly tunable surface plasmon resonance by strong mode coupling using a random metal nanohemisphere on mirror. Nanophotonics, 2020, 9, 3409-3418.	2.9	21

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19	Micro-photoluminescence mapping of surface plasmon-coupled emission from InGaN/GaN quantum wells. Japanese Journal of Applied Physics, 2019, 58, SCCB31.	0.8	7
20	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
21	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
22	Micro-photoluminescence mapping of light emissions from aluminum-coated InGaN/GaN quantum wells. Applied Physics Express, 2019, 12, 052016.	1.1	1
23	How to make microscale pores on a self-assembled Ag nanoparticle monolayer. Colloids and Interface Science Communications, 2019, 30, 100175.	2.0	4
24	Improvement of External Quantum Efficiency of C60/ZnPc Organic Photovoltaic Cells by Polymerization between C60 molecules. , 2019, , .		0
25	Stochastic approach to simulation of evaporation-triggered multiple self-assembly of mixed metal nanoparticles and their variable superradiance. Applied Physics Letters, 2018, 112, .	1.5	4
26	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
27	Comparison of LSPR-mediated enhanced fluorescence excited by S- and P-polarized light on a two-dimensionally assembled silver nanoparticle sheet. Applied Physics Letters, 2018, 113, .	1.5	4
28	Sigmatropic Dearomatization/Defluorination Strategy for Câ^'F Transformation: Synthesis of Fluorinated Benzofurans from Polyfluorophenols. Angewandte Chemie, 2018, 130, 14426-14430.	1.6	14
29	Sigmatropic Dearomatization/Defluorination Strategy for Câ^'F Transformation: Synthesis of Fluorinated Benzofurans from Polyfluorophenols. Angewandte Chemie - International Edition, 2018, 57, 14230-14234.	7.2	42
30	A rare case of perivascular epithelioid cell tumor (PEComa) of the greater omentum. World Journal of Surgical Oncology, 2018, 16, 113.	0.8	10
31	Surface plasmon resonance effect of silver nanoparticles on the enhanced efficiency of inverted hybrid organicâ€“inorganic solar cell. Journal of Nonlinear Optical Physics and Materials, 2018, 27, 1850017.	1.1	6
32	Tunable plasmonic resonance in wide wavelength range for smart photonic and optoelectronic applications. , 2018, , .		0
33	Plasmonics toward high-efficiency LEDs from the visible to the deep-UV region. , 2017, , .		2
34	Fabrication and evaluation of plasmonic light-emitting diodes with thin p-type layer and localized Ag particles embedded by ITO. Journal of Applied Physics, 2017, 121, .	1.1	19
35	High-efficiency light emission by means of excitonâ€“surface-plasmon coupling. Journal of Photochemistry and Photobiology C: Photochemistry Reviews, 2017, 32, 58-77.	5.6	48
36	Enhancement of light emission and internal quantum efficiency in orange and red regions for regularly arrayed InGaN/GaN nanocolumns due to surface plasmon coupling. Applied Physics Letters, 2017, 111, .	1.5	9

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37	Large patternable metal nanoparticle sheets by photo/e-beam lithography. Nanotechnology, 2017, 28, 435705.	1.3	6
38	High-resolution imaging of a cell-attached nanointerface using a gold-nanoparticle two-dimensional sheet. Scientific Reports, 2017, 7, 3720.	1.6	31
39	Micro-photoluminescence mapping of surface plasmon enhanced light emissions from InGaN/GaN quantum wells. Applied Physics Letters, 2017, 111, .	1.5	14
40	LSPR-mediated high axial-resolution fluorescence imaging on a silver nanoparticle sheet. PLoS ONE, 2017, 12, e0189708.	1.1	6
41	Tuning of the Surface Plasmon Resonance in the UV-IR Range for Wider Applications. ACS Symposium Series, 2016, , 247-259.	0.5	1
42	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. Langmuir, 2016, 32, 12504-12510.	1.6	4
43	Colorimetric Detection of an Airborne Remote Photocatalytic Reaction Using a Stratified Ag Nanoparticle Sheet. Langmuir, 2016, 32, 8154-8162.	1.6	6
44	Electromagnetically induced transparency of a plasmonic metamaterial light absorber based on multilayered metallic nanoparticle sheets. Scientific Reports, 2016, 6, 36165.	1.6	19
45	Excitonâ€“Plasmon Coupling and Electromagnetically Induced Transparency in Monolayer Semiconductors Hybridized with Ag Nanoparticles. Advanced Materials, 2016, 28, 2709-2715.	11.1	115
46	Silver nanoparticles with tunable work functions. Applied Physics Letters, 2015, 107, .	1.5	21
47	Colorimetric plasmon sensors with multilayered metallic nanoparticle sheets. Physical Chemistry Chemical Physics, 2015, 17, 18606-18612.	1.3	26
48	Highly enhanced green emission from InGaN quantum wells due to surface plasmon resonance on aluminum films. Applied Physics Letters, 2015, 106, .	1.5	35
49	Quantification of the internal quantum efficiency in GaN via analysis of the heat generated by non-radiative recombination processes. Journal of Applied Physics, 2015, 117, .	1.1	8
50	Characteristics of localized surface plasmons excited on mixed monolayers composed of self-assembled Ag and Au nanoparticles. Nanoscale, 2015, 7, 15310-15320.	2.8	15
51	Highly confined, enhanced surface fluorescence imaging with two-dimensional silver nanoparticle sheets. Applied Physics Letters, 2014, 104, .	1.5	30
52	High-sensitivity surface plasmon resonance sensors utilizing high-refractive-index silver nanoparticle sheets. Japanese Journal of Applied Physics, 2014, 53, 01AF01.	0.8	12
53	Tuning the Work Functions of 2D Silver Nanoparticle Sheets Using Local Oxidation Nanolithography. Advanced Materials Interfaces, 2014, 1, 1400268.	1.9	6
54	Tuning Colors of Silver Nanoparticle Sheets by Multilayered Crystalline Structures on Metal Substrates. Plasmonics, 2013, 8, 581-590.	1.8	35

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55	Grain size dependence of surface plasmon enhanced photoluminescence. Optics Express, 2013, 21, 3145.	1.7	22
56	Perfect blackbody radiation from a graphene nanostructure with application to high-temperature spectral emissivity measurements. Optics Express, 2013, 21, 30964.	1.7	41
57	New Functional Property of Self-Assembled Nanomaterials. The Review of Laser Engineering, 2013, 41, 185.	0.0	0
58	Spectroscopic Properties of Multilayered Gold Nanoparticle 2D Sheets. Langmuir, 2012, 28, 17153-17158.	1.6	19
59	Interference of the surface plasmon polaritons with an Ag waveguide probed by dual-probe scanning near-field optical microscopy. Applied Surface Science, 2012, 258, 7372-7376.	3.1	13
60	Plasmonics for Green Technologies: Toward High-Efficiency LEDs and Solar Cells. , 2012, , .		0
61	Fabrication and Application of Plasmonic Silver Nanosheet. International Journal of Behavioral and Consultation Therapy, 2012, , 139-157.	0.4	1
62	Single mode emission and non-stochastic laser system based on disordered point-sized structures: toward a tuneable random laser. Optics Express, 2011, 19, 9262.	1.7	9
63	Collective plasmon modes excited on a silver nanoparticle 2D crystalline sheet. Physical Chemistry Chemical Physics, 2011, 13, 7459.	1.3	62
64	ãƒ—ãƒ©ã‚ºãƒ¢ãƒ‹ã‚¯ã‚¹ã«ã‚ˆã‚‹é«˜åŠ¹çŽ‡ç™ºå…‰. Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan, 2010, 61, 617-623	0.1	1
65	Enhancements of emission rates and efficiencies by surface plasmon coupling. Physica Status Solidi C: Current Topics in Solid State Physics, 2010, 7, 2582-2585.	0.8	14
66	Optical properties of InGaN/GaN nanopillars fabricated by postgrowth chemically assisted ion beam etching. Journal of Applied Physics, 2010, 107, .	1.1	88
67	Surface Plasmon Enhanced Solid-State Light-Emitting Devices. , 2010, , 27-46.		16
68	High-Efficiency InGaN/GaN Light Emitters Based on Nanophotonics and Plasmonics. IEEE Journal of Selected Topics in Quantum Electronics, 2009, 15, 1199-1209.	1.9	80
69	Diffusion of gold ions and gold particles during photoreduction processes probed by the transient grating method. Journal of Colloid and Interface Science, 2009, 332, 373-381.	5.0	26
70	Surface plasmon enhanced light emission from semiconductor materials. Physica Status Solidi C: Current Topics in Solid State Physics, 2008, 5, 2822-2824.	0.8	26
71	Highly efficient light emission based on plasmonics. , 2008, , .		0
72	Super Bright Light-Emitting Devices using Surface Plasmon Coupling. Hyomen Kagaku, 2008, 29, 344-349.	0.0	0

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73	Enhanced Light Emission by Exciton-Surface Plasmon Coupling. Materials Research Society Symposia Proceedings, 2007, 1055, 3.	0.1	0
74	Surface plasmon enhanced bright light emission from InGaN/GaN. Physica Status Solidi (A) Applications and Materials Science, 2007, 204, 2103-2107.	0.8	42
75	Diffusion of Platinum Ions and Platinum Nanoparticles during Photoreduction Processes Using the Transient Grating Method. Langmuir, 2006, 22, 9142-9149.	1.6	42
76	Surface-plasmon enhanced bright emission from CdSe quantum-dot nanocrystals. Journal of the Optical Society of America B: Optical Physics, 2006, 23, 1674.	0.9	146
77	Cu2O Nanowires in an Alumina Template: Electrochemical Conditions for the Synthesis and Photoluminescence Characteristics. ChemPhysChem, 2006, 7, 1505-1509.	1.0	55
78	Ultralow threshold on-chip microcavity nanocrystal quantum dot lasers. Applied Physics Letters, 2006, 89, 191124.	1.5	84
79	Time resolved photoluminescence spectroscopy of surface-plasmon-enhanced light emission from conjugate polymers. Applied Physics Letters, 2006, 89, 221106.	1.5	34
80	Enhanced light emission from dye doped polymer layers using surface plasmons. , 2006, , .		0
81	Ultralow threshold on-chip toroidal microcavity nanocrystal quantum dot lasers. , 2006, , .		0
82	Surface plasmon enhanced light emission from CdSe quantum dot nanocrystals. , 2006, , .		0
83	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
84	Surface plasmon enhanced super bright InGaN light emitter. Physica Status Solidi C: Current Topics in Solid State Physics, 2005, 2, 2841-2844.	0.8	14
85	Surface plasmon enhanced InGaN light emitter. , 2005, , .		5
86	Near-field scanning optical microscopic transient lens for carrier dynamics study in InGaNâˆ•GaN. Applied Physics Letters, 2005, 87, 161104.	1.5	37
87	Surface plasmon enhanced emission from dye doped polymer layers. Optics Express, 2005, 13, 5522.	1.7	122
88	Confocal microphotoluminescence of InGaN-based light-emitting diodes. Journal of Applied Physics, 2005, 98, 064503.	1.1	66
89	Surface plasmon enhanced spontaneous emission rate of InGaNâˆ•GaN quantum wells probed by time-resolved photoluminescence spectroscopy. Applied Physics Letters, 2005, 87, 071102.	1.5	341
90	Temporal and spatial-resolved nonlinear spectroscopy of InGaN/GaN. , 2004, , FMN4.		0

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91	Mask pattern transferred transient grating technique for molecular-dynamics study in solutions. Applied Physics Letters, 2004, 85, 4842-4844.	1.5	6
92	Submicron-Scale Photoluminescence of InGaN/GaN Probed by Confocal Scanning Laser Microscopy. Japanese Journal of Applied Physics, 2004, 43, 839-840.	0.8	20
93	Surface-plasmon-enhanced light emitters based on InGaN quantum wells. Nature Materials, 2004, 3, 601-605.	13.3	1,395
94	Photothermal molecular sensing by using metal thin-film nanograting for chemical and biomedical applications. Thin Solid Films, 2004, 469-470, 420-424.	0.8	8
95	Photonic crystal nanocavities with quantum well or quantum dot active material. , 2004, , .		2
96	Contribution of hydrogen bonding to the slow diffusion of transient radicals. Chemical Physics Letters, 2003, 372, 419-422.	1.2	3
97	Sub-microscopic transient lens spectroscopy of InGaN/GaN quantum wells. Physica Status Solidi (B): Basic Research, 2003, 240, 368-371.	0.7	6
98	Recombination dynamics in low-dimensional nitride semiconductors. Physica Status Solidi (B): Basic Research, 2003, 240, 337-343.	0.7	22
99	Near-field scanning optical microscopy of photonic crystal nanocavities. Applied Physics Letters, 2003, 82, 1676-1678.	1.5	41
100	Recombination mechanism in low-dimensional nitride semiconductors. , 2003, , .		0
101	Nonradiative recombination processes of carriers in InGaN/GaN probed by the microscopic transient lens spectroscopy. Review of Scientific Instruments, 2003, 74, 575-577.	0.6	11
102	Spatial and temporal luminescence dynamics in an InxGa1â^'xN single quantum well probed by near-field optical microscopy. Applied Physics Letters, 2002, 81, 4353-4355.	1.5	81
103	Translational Diffusion of Ion Radicals Created by Electron Transfer in Charged Micellar Solutions Probed by the Transient Grating Method and the Taylor Dispersion Method. Journal of Physical Chemistry A, 2001, 105, 6586-6593.	1.1	13
104	Microscopic Patterning on the Polysilane Films by the Laser Induced Grating Technique. Molecular Crystals and Liquid Crystals, 2001, 370, 379-382.	0.3	3
105	<title>Dynamics of spontaneous and stimulated emissions in GaN-based semiconductors</title>. , 2001, , .		6
106	<title>Time-resolved fluorescence spectroscopy of dopamine in single cells</title>. , 2001, , .		8
107	Direct observation of the nonradiative recombination processes in InGaN-based LEDs probed by the third-order nonlinear spectroscopy. , 2001, , .		5
108	Spatial Inhomogeneity of Photoluminescence in InGaN Single Quantum Well Structures. Physica Status Solidi (B): Basic Research, 2001, 228, 153-156.	0.7	4

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109	Radiative and Nonradiative Recombination Processes in GaN-Based Semiconductors. Physica Status Solidi A, 2001, 183, 41-50.	1.7	59
110	Spatial Inhomogeneity of Photoluminescence in an InGaN-Based Light-Emitting Diode Structure Probed by Near-Field optical Microscopy Under Illumination-Collection Mode. Japanese Journal of Applied Physics, 2001, 40, 110-111.	0.8	29
111	In inhomogeneity and emission characteristics of InGaN. Journal of Physics Condensed Matter, 2001, 13, 6993-7010.	0.7	30
112	Time-space-resolved photoluminescence from (Zn,Cd)Se-based quantum structures. Journal of Crystal Growth, 2000, 214-215, 639-645.	0.7	5
113	Time-resolved photoluminescence spectroscopy in GaN-based semiconductors with micron spatial resolution. Journal of Luminescence, 2000, 87-89, 1196-1198.	1.5	31
114	Diffusion of electrically neutral radicals and anion radicals created by photochemical reactions. Journal of the Chemical Society, Faraday Transactions, 1998, 94, 185-194.	1.7	17
115	Diffusion of Photochemically Generated Intermediate Radicals in Waterâ"Ethanol Mixed Solvents. Journal of Physical Chemistry A, 1998, 102, 3447-3454.	1.1	16
116	Comments on â€œDiffusion of Free Radicals in Solution. TEMPO, Diphenylpicrylhydrazyl, and Nitrosodisulfonateâ€• Journal of Physical Chemistry A, 1997, 101, 5380-5381.	1.1	19
117	Diffusion Process of the Benzyl Radical Created by Photodissociation Probed by the Transient Grating Method. Journal of Physical Chemistry A, 1997, 101, 5269-5277.	1.1	29
118	Translational diffusion of transient radicals studied by the transient grating method. Studies in Physical and Theoretical Chemistry, 1995, 83, 401-404.	0.0	0
119	Translational diffusion of transient radicals studied by the transient grating method. Journal of Molecular Liquids, 1995, 65-66, 401-404.	2.3	3
120	Temperature dependence of diffusion of radical intermediates probed by the transient grating method. Journal of Chemical Physics, 1995, 103, 10445-10452.	1.2	46
121	Translational diffusion of transient radicals created by the photoinduced hydrogen abstraction reaction in solution: Anomalous size dependence in the radical diffusion. Journal of Chemical Physics, 1995, 102, 2506-2515.	1.2	98
122	Molecular Dynamics in Solution Probed by the Transient Grating Method With a Nanosecond Pulsed Laser. Laser Chemistry, 1994, 13, 169-185.	0.5	14
123	Transient radical diffusion in photoinduced hydrogen abstraction reactions of benzophenone probed by the transient grating method. The Journal of Physical Chemistry, 1993, 97, 13387-13393.	2.9	76
124	Diffusion process of methyl red in organic solvents studied by the transient grating method. The Journal of Physical Chemistry, 1993, 97, 5188-5192.	2.9	53