

Shunsuke Murai

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91
papers

1,487
citations

18
h-index

35
g-index

96
ext. papers

1,792
ext. citations

4.2
avg. IF

4.73
L-index

#	Paper	IF	Citations
91	Plasmonics for solid-state lighting: enhanced excitation and directional emission of highly efficient light sources. <i>Light: Science and Applications</i> , 2013 , 2, e66-e66	16.7	292
90	Random lasers with coherent feedback from highly transparent polymer films embedded with silver nanoparticles. <i>Applied Physics Letters</i> , 2008 , 92, 201112	3.4	112
89	Plasmonically controlled lasing resonance with metallic-dielectric core-shell nanoparticles. <i>Nano Letters</i> , 2011 , 11, 1374-8	11.5	97
88	Coherent random lasers in weakly scattering polymer films containing silver nanoparticles. <i>Physical Review A</i> , 2009 , 79,	2.6	88
87	Accelerated discovery of cathode materials with prolonged cycle life for lithium-ion battery. <i>Nature Communications</i> , 2014 , 5, 4553	17.4	86
86	Ferroelectric Sr ₃ Zr ₂ O ₇ : Competition between Hybrid Improper Ferroelectric and Antiferroelectric Mechanisms. <i>Advanced Functional Materials</i> , 2018 , 28, 1801856	15.6	57
85	High-quality antiferromagnetic EuTiO ₃ epitaxial thin films on SrTiO ₃ prepared by pulsed laser deposition and postannealing. <i>Applied Physics Letters</i> , 2009 , 94, 062512	3.4	47
84	Hybrid Improper Ferroelectricity in (Sr,Ca)SnO and Beyond: Universal Relationship between Ferroelectric Transition Temperature and Tolerance Factor in n = 2 Ruddlesden-Popper Phases. <i>Journal of the American Chemical Society</i> , 2018 , 140, 15690-15700	16.4	45
83	Plasmonic arrays of titanium nitride nanoparticles fabricated from epitaxial thin films. <i>Optics Express</i> , 2016 , 24, 1143-53	3.3	34
82	Magneto-optical properties of transparent divalent iron phosphate glasses. <i>Applied Physics Letters</i> , 2008 , 92, 251908	3.4	32
81	Enhanced absorption and emission of Y ₃ Al ₅ O ₁₂ :Ce ³⁺ thin layers prepared by epoxide-catalyzed sol-gel method. <i>Optical Materials Express</i> , 2012 , 2, 1111	2.6	29
80	Scattering-Based Hole Burning in Y ₃ Al ₅ O ₁₂ :Ce ³⁺ Monoliths with Hierarchical Porous Structures Prepared via the Sol-Gel Route. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 17676-17681	3.8	28
79	Plasmonic-Photonic Hybrid Modes Excited on a Titanium Nitride Nanoparticle Array in the Visible Region. <i>ACS Photonics</i> , 2017 , 4, 815-822	6.3	23
78	Enhanced Light Emission by Magnetic and Electric Resonances in Dielectric Metasurfaces. <i>Advanced Optical Materials</i> , 2020 , 8, 1902024	8.1	23
77	Random lasing from localized modes in strongly scattering systems consisting of macroporous titania monoliths infiltrated with dye solution. <i>Applied Physics Letters</i> , 2010 , 97, 031118	3.4	21
76	Bound States in the Continuum in the Visible Emerging from out-of-Plane Magnetic Dipoles. <i>ACS Photonics</i> , 2020 , 7, 2204-2210	6.3	20
75	Phase-Selective Distribution of Eu ²⁺ and Eu ³⁺ in Oxide and Fluoride Crystals in Glass-Ceramics for Warm White-Light-Emitting Diodes. <i>ACS Applied Electronic Materials</i> , 2019 , 1, 961-971	4	19

74	Enhanced Delayed Fluorescence in Tetracene Crystals by Strong Light-Matter Coupling. <i>Advanced Functional Materials</i> , 2019 , 29, 1901317	15.6	18
73	Enhanced photoluminescence and directional white-light generation by plasmonic array. <i>Journal of Applied Physics</i> , 2018 , 124, 213105	2.5	18
72	Demonstration of temperature-plateau superheated liquid by photothermal conversion of plasmonic titanium nitride nanostructures. <i>Nanoscale</i> , 2018 , 10, 18451-18456	7.7	18
71	Optical properties of macroporous Y ₃ Al ₅ O ₁₂ crystals doped with rare earth ions synthesized via sol-gel process from ionic precursors. <i>Optical Materials</i> , 2010 , 33, 123-127	3.3	17
70	Exciton-Polaritons with Magnetic and Electric Character in All-Dielectric Metasurfaces. <i>ACS Photonics</i> , 2020 , 7, 1226-1234	6.3	13
69	Mechanical milling-induced room-temperature ferromagnetic phase in MnO ₂ /ZnO system. <i>Applied Physics Letters</i> , 2006 , 89, 052501	3.4	13
68	Faraday effect of bismuth iron garnet thin film prepared by mist CVD method. <i>Japanese Journal of Applied Physics</i> , 2015 , 54, 063001	1.4	12
67	Modified Faraday rotation in a three-dimensional magnetophotonic opal crystal consisting of maghemite/silica composite spheres. <i>Applied Physics Letters</i> , 2012 , 101, 151121	3.4	12
66	Ferromagnetism induced by lattice volume expansion and amorphization in EuTiO ₃ thin films. <i>Journal of Materials Research</i> , 2013 , 28, 1031-1041	2.5	12
65	Intense blue emission from tantalum-doped silicate glass. <i>Applied Physics Letters</i> , 2006 , 89, 061914	3.4	12
64	Intense greenish emission from d ⁰ transition metal ion Ti ⁴⁺ in oxide glass. <i>Applied Physics Letters</i> , 2007 , 90, 051917	3.4	12
63	Enhancing upconversion photoluminescence by plasmonic-photonic hybrid mode. <i>Optics Express</i> , 2020 , 28, 886-897	3.3	12
62	Collective plasmonic modes excited in Al nanocylinder arrays in the UV spectral region. <i>Optics Express</i> , 2018 , 26, 5970-5982	3.3	11
61	High-density excitation effect on photoluminescence in ZnO nanoparticles. <i>Journal of Applied Physics</i> , 2010 , 107, 124311	2.5	11
60	Aluminum for Near Infrared Plasmonics: Amplified Up-Conversion Photoluminescence from Core-Shell Nanoparticles on Periodic Lattices. <i>Advanced Optical Materials</i> , 2021 , 9, 2001040	8.1	11
59	Enhanced Photoluminescence from Organic Dyes Coupled to Periodic Array of Zirconium Nitride Nanoparticles. <i>ACS Photonics</i> , 2018 , 5, 3057-3063	6.3	10
58	Enhancement of optical birefringence in tellurite glasses containing silver nanoparticles induced via thermal poling. <i>Journal of Non-Crystalline Solids</i> , 2011 , 357, 2259-2263	3.9	9
57	Optical Birefringence in Tellurite Glass Containing Silver Nanoparticles Precipitated through Thermal Process. <i>Applied Physics Express</i> , 2009 , 2, 102001	2.4	9

56	Photoluminescence decay rate of an emitter layer on an Al nanocylinder array: effect of layer thickness. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2019 , 36, E1	1.7	9
55	Surface-Enhanced Infrared Absorption for the Periodic Array of Indium Tin Oxide and Gold Microdiscs: Effect of in-Plane Light Diffraction. <i>ACS Photonics</i> , 2018 , 5, 2602-2608	6.3	8
54	Fabrication of cerium-doped yttrium aluminum garnet thin films by a mist CVD method. <i>Journal of Luminescence</i> , 2016 , 170, 808-811	3.8	8
53	Coherent random lasers from weakly scattering polymer films embedded with superfine silver nanoparticles. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2009 , 6, S102-S105		8
52	Epitaxial Growth of Room-Temperature Ferrimagnetic Semiconductor Thin Films Based on Fe ₃ O ₄ -Fe ₂ TiO ₄ Solid Solution. <i>Materials Transactions</i> , 2009 , 50, 1076-1080	1.3	8
51	Temperature-tunable scattering strength based on the phase transition of liquid crystal infiltrated in well-defined macroporous random media. <i>Optical Materials</i> , 2007 , 29, 949-954	3.3	8
50	Visible and near-infrared photoluminescence enhanced by Ag nanoparticles in Sm ³⁺ -doped aluminoborate glass. <i>Optical Materials</i> , 2018 , 86, 611-616	3.3	8
49	Preparation of yttrium iron garnet thin films by mist chemical vapor deposition method and their magneto-optical properties. <i>Japanese Journal of Applied Physics</i> , 2014 , 53, 05FB17	1.4	7
48	Atomically smooth and single crystalline indium tin oxide thin film with low optical loss. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2012 , 9, 2533-2536		7
47	Intense visible emissions from d ⁰ ions-doped silicate glasses. <i>Journal of the Ceramic Society of Japan</i> , 2008 , 116, 1147-1149	1	7
46	Collective Mie Exciton-Polaritons in an Atomically Thin Semiconductor. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 19196-19203	3.8	7
45	Comparison of directionally outcoupled photoluminescences from luminous layers on Si and Al nanocylinder arrays. <i>Journal of Applied Physics</i> , 2019 , 125, 133101	2.5	6
44	Ferromagnetic properties with reentrant spin-glass behavior in amorphous EuZrO ₃ thin film. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2011 , 8, 3051-3054		6
43	Structural and Magnetic Properties of CdFe_2O_4 Thin Films Fabricated via Sputtering Method. <i>IEEE Transactions on Magnetics</i> , 2008 , 44, 2796-2799	2	6
42	Temperature sensing of a plasmonic nanocylinder array by a polymer film containing chameleon complex. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2019 , 36, E15	1.7	6
41	Layered Double Hydroxide Nanosheets on Plasmonic Arrays of Al Nanocylinders for Optical Sensing. <i>ACS Applied Nano Materials</i> , 2020 , 3, 5838-5845	5.6	5
40	Plasmonic mesostructures with aligned hotspots on highly oriented mesoporous silica films. <i>Optical Materials Express</i> , 2016 , 6, 2824	2.6	5
39	Mesoporous silica layer on plasmonic array: light trapping in a layer with a variable index of refraction. <i>Optical Materials Express</i> , 2016 , 6, 2736	2.6	5

38	Faraday effect of polycrystalline bismuth iron garnet thin film prepared by mist chemical vapor deposition method. <i>Journal of Magnetism and Magnetic Materials</i> , 2017 , 422, 100-104	2.8	5
37	Ferromagnetic amorphous oxides in the EuO-TiO ₂ system studied by the Faraday effect in the visible region and the x-ray magnetic circular dichroism at the Eu M _{4,5} and L _{2,3} edges. <i>Physical Review B</i> , 2013 , 88,	3.3	5
36	Enhanced absorption and photoluminescence from dye-containing thin polymer film on plasmonic array. <i>Optics Express</i> , 2019 , 27, 5083-5096	3.3	5
35	Improving the Plasmonic Response of Silver Nanoparticle Arrays via Atomic Layer Deposition Coating and Annealing above the Melting Point. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 27687-27693	3.8	5
34	Local Structure of Amorphous EuO-TiO ₂ Thin Films Probed by X-Ray Absorption Fine Structure. <i>Journal of the American Ceramic Society</i> , 2012 , 95, 716-720	3.8	4
33	Enhanced form birefringence of metal nanoparticles with anisotropic shell mediated by localized surface plasmon resonance. <i>Optics Express</i> , 2011 , 19, 23581-9	3.3	4
32	Scattering-based hole burning through volume speckles in a random medium with tunable diffusion constant. <i>Applied Physics Letters</i> , 2008 , 93, 151912	3.4	4
31	Broadband scattering by an aluminum nanoparticle array as a white pixel in commercial color printing applications. <i>Optics Express</i> , 2020 , 28, 25989-25997	3.3	4
30	Confinement of ultraviolet light using lattice modes in Al and Si nanocylinder arrays. <i>Optical Materials Express</i> , 2019 , 9, 3310	2.6	4
29	Thermal oxidation of TiN nanocylinder arrays: effects of insulator coatings by atomic layer deposition. <i>Optical Materials Express</i> , 2019 , 9, 4751	2.6	4
28	Random Lasing via Plasmon-Induced Cavitation of Microbubbles. <i>Nano Letters</i> , 2021 , 21, 6064-6070	11.5	4
27	Stick-and-play metasurfaces for directional light outcoupling. <i>Applied Physics Letters</i> , 2021 , 118, 021110	3.4	4
26	Extreme thermal anisotropy in high-aspect-ratio titanium nitride nanostructures for efficient photothermal heating. <i>Nanophotonics</i> , 2021 , 10, 1487-1494	6.3	3
25	Photoluminescence from an emitter layer sandwiched between the stack of metasurfaces. <i>Journal of Applied Physics</i> , 2021 , 129, 183101	2.5	3
24	Optical Responses of Localized and Extended Modes in a Mesoporous Layer on Plasmonic Array to Isopropanol Vapor. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 5772-5779	3.8	2
23	Strong Light-Matter Coupling: Enhanced Delayed Fluorescence in Tetracene Crystals by Strong Light-Matter Coupling (Adv. Funct. Mater. 36/2019). <i>Advanced Functional Materials</i> , 2019 , 29, 1970249	15.6	2
22	Random Lasing Actions Induced by Silver Nanoprisms. <i>Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy</i> , 2009 , 56, 645-650	0.2	2
21	Evolutionary optimization of light-matter coupling in open plasmonic cavities. <i>Journal of Chemical Physics</i> , 2021 , 154, 134110	3.9	2

20	Oxidation pathway to the titanium dioxide metasurface for harnessing photoluminescence. <i>Journal of Applied Physics</i> , 2021 , 129, 163101	2.5	2
19	Effect of Cylinder Height on Directional Photoluminescence from Highly Luminous Thin Films on Periodic Plasmonic Arrays. <i>MRS Advances</i> , 2017 , 2, 173-178	0.7	1
18	Spectral and spatial tailoring of the luminescence by metallic nanoparticles. <i>Journal of the Ceramic Society of Japan</i> , 2014 , 122, 852-857	1	1
17	Effect of Substrate Strain and Interface on Magnetic Properties of EuTiO ₃ Thin Film. <i>Materials Research Society Symposia Proceedings</i> , 2012 , 1454, 149-159		1
16	Scattering-based hole burning mediated by localized surface plasmon resonance in photoreactive random media containing Ag nanoparticles. <i>Applied Physics Letters</i> , 2011 , 98, 121917	3.4	1
15	Plasmonic Enhancement of Upconversion Photoluminescence from CaF ₂ : Er ³⁺ , Yb ³⁺ Nanoparticles on TiN Nanoantennas. <i>Funtai Oyobi Fumatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy</i> , 2020 , 67, 140-145	0.2	1
14	Microstructure and Faraday effect of Tb ₂ O ₃ -Al ₂ O ₃ -SiO ₂ -B ₂ O ₃ glasses for fiber-based magneto-optical applications. <i>Journal of the American Ceramic Society</i> , 2022 , 105, 1198	3.8	1
13	Up-conversion Luminescence Enhanced by the Plasmonic Lattice Resonating at the Transparent Window of Water. <i>ACS Applied Energy Materials</i> , 2021 , 4, 2999-3007	6.1	1
12	Durable BaO ₂ /nO ₂ B ₂ O ₅ glass with small stress-induced birefringence for lead-free polarization light-controlling devices. <i>International Journal of Applied Glass Science</i> , 2020 , 11, 27-34	1.8	1
11	Electric tuning and switching of the resonant response of nanoparticle arrays with liquid crystals. <i>Journal of Applied Physics</i> , 2022 , 131, 083101	2.5	1
10	Enhanced Faraday Effect in Porous Iron Oxide Thin Films Coupled to Localized Surface Plasmon Resonances. <i>Funtai Oyobi Fumatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy</i> , 2015 , 62, 18-26	0.2	0
9	Evidence of the retardation effect on the plasmonic resonances of aluminum nanodisks in the symmetric/asymmetric environment. <i>Optics Express</i> , 2021 , 29, 14799-14814	3.3	0
8	Loss Control with Annealing and Lattice Kerker Effect in Silicon Metasurfaces. <i>Advanced Photonics Research</i> , 2022 , 3, 2100235	1.9	0
7	Errata:Enhanced Faraday Effect in Porous Iron Oxide Thin Films Coupled to Localized Surface Plasmon Resonances. <i>Funtai Oyobi Fumatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy</i> , 2015 , 62, 216_2	0.2	
6	Anisotropic growth of zinc oxide pillars on silver nanoparticles by oblique angle deposition. <i>Journal of the Ceramic Society of Japan</i> , 2013 , 121, 710-713	1	
5	Synthesis of Gold-Silica Core-Shell Nanoparticles with Tunable Shell Thickness. <i>Funtai Oyobi Fumatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy</i> , 2013 , 60, 49-54	0.2	
4	OPTICAL RESPONSE OF MESOPOROUS SILICA LAYER ON PLASMONIC ARRAY TO ISOPROPANOL VAPOR. <i>Ceramic Engineering and Science Proceedings</i> , 59-68	0.1	
3	Random Laser Oscillation with Low Threshold and Optical Microresonator Based on Nanostructured Metals. <i>The Review of Laser Engineering</i> , 2016 , 44, 527	0	

- 2 Fabrication of Flexible Sticker of Si Metasurfaces by a Transfer Process. *Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy*, **2022**, 69, 87-90 0.2
- 1 Improving Metasurface Performance by Nano Metallurgy Process. *Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy*, **2022**, 69, 63-67 0.2