

Toshihiro Nakamura

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

71
papers

1,016
citations

19
h-index

26
g-index

76
ext. papers

1,106
ext. citations

3.3
avg, IF

4.66
L-index

#	Paper	IF	Citations
71	Material Processing for Colloidal Silicon Quantum Dot Formation 2022 , 161-185		
70	Gamma-ray induced photo emission from GaN single crystal wafer. <i>Applied Physics Letters</i> , 2021 , 118, 032106	3.4	1
69	High-yield green fabrication of colloidal silicon quantum dots by low-temperature thermal cracking of porous silicon. <i>APL Materials</i> , 2020 , 8, 081105	5.7	2
68	Spectral tuning of colloidal Si nanocrystal luminescence by post-laser irradiation in liquid.. <i>RSC Advances</i> , 2020 , 10, 32992-32998	3.7	0
67	Quantum-assisted photoelectric gain effects in perovskite solar cells. <i>NPG Asia Materials</i> , 2020 , 12,	10.3	9
66	Emerging Functions of Nanostructured Porous Silicon-With a Focus on the Emissive Properties of Photons, Electrons, and Ultrasound. <i>Frontiers in Chemistry</i> , 2019 , 7, 273	5	6
65	Unusual near-infrared luminescence from Ti-doped MgSiF ₆ ·6H ₂ O powder. <i>Journal of Luminescence</i> , 2019 , 211, 157-161	3.8	2
64	Facile Formation of Stable Water-Dispersed Luminescent Silicon Nanocrystals by Laser Processing in Liquid: Toward Fluorescent Labeling for Bio-Imaging. <i>ChemNanoMat</i> , 2019 , 5, 1137-1143	3.5	1
63	Dynamics of resonance energy transfer process from Tb ³⁺ to Eu ³⁺ in Ga ₂ O ₃ phosphor. <i>Journal of Luminescence</i> , 2019 , 215, 116616	3.8	6
62	Synthesis and properties of Rb ₂ GeF ₆ :Mn ⁴⁺ red-emitting phosphors. <i>Japanese Journal of Applied Physics</i> , 2018 , 57, 022601	1.4	31
61	Synthesis and properties of Tb ₃ Al ₅ O ₁₂ :Eu ³⁺ garnet phosphor. <i>Journal of Luminescence</i> , 2018 , 197, 242-247	3.47	11
60	Luminescence properties of Eu ³⁺ -activated TbAlO ₃ perovskite compound synthesized by metal organic decomposition. <i>Japanese Journal of Applied Physics</i> , 2018 , 57, 082601	1.4	1
59	Unique properties of ZnTiF ₆ ·6H ₂ O:Mn ⁴⁺ red-emitting hexahydrate phosphor. <i>Journal of Luminescence</i> , 2017 , 184, 160-168	3.8	13
58	Photoluminescence properties of Tb ₃ Al ₅ O ₁₂ :Ce ³⁺ garnet synthesized by the metal organic decomposition method. <i>Optical Materials</i> , 2017 , 64, 557-563	3.3	8
57	Double threshold behavior in a resonance-controlled ZnO random laser. <i>APL Photonics</i> , 2017 , 2, 036101	5.2	14
56	Improvement of Laser Processing for Colloidal Silicon Nanocrystal Formation in a Reactive Solvent. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 8623-8629	3.8	16
55	Luminescence color control and quantum-efficiency enhancement of colloidal Si nanocrystals by pulsed laser irradiation in liquid. <i>Nanoscale</i> , 2017 , 9, 1193-1200	7.7	15

54	Yellow-light emitting Tb ₃ Al ₅ O ₁₂ :Ce ³⁺ phosphor properties sensitized by Bi ³⁺ ions. <i>Journal of Luminescence</i> , 2017 , 192, 720-727	3.8	11
53	An Orange-Light Emitting Garnet Phosphor: Tb ₃ Ga ₅ O ₁₂ :Eu ³⁺ . <i>ECS Journal of Solid State Science and Technology</i> , 2017 , 6, R97-R104	2	8
52	Luminescence properties of Tb ₃ Al ₅ O ₁₂ garnet and related compounds synthesized by the metal organic decomposition method. <i>Journal of Luminescence</i> , 2017 , 183, 193-200	3.8	10
51	Synthesis and properties of Ca ₃ Ga ₂ Ge ₃ O ₁₂ :Tb ³⁺ garnet phosphor. <i>Ceramics International</i> , 2017 , 43, 14225-14232	5.1	10
50	EditorsTChoiceRb ₂ SiF ₆ :Mn ⁴⁺ and Rb ₂ TiF ₆ :Mn ⁴⁺ Red-Emitting Phosphors. <i>ECS Journal of Solid State Science and Technology</i> , 2016 , 5, R206-R210	2	41
49	Enhancement of Visible-Luminescence Saturation Intensity by Surface Plasmons in Ag/ZnO Films. <i>Physical Review Applied</i> , 2016 , 6,	4.3	7
48	Abnormal photoluminescence phenomena in (Tb ³⁺ , Eu ³⁺) codoped Ga ₂ O ₃ phosphor. <i>Journal of Alloys and Compounds</i> , 2016 , 678, 448-455	5.7	11
47	Synthesis and Photoluminescence Properties of BaSnF ₆ :Mn ⁴⁺ Red Phosphor. <i>ECS Journal of Solid State Science and Technology</i> , 2016 , 5, R37-R43	2	36
46	(Tb ³⁺ , Eu ³⁺)-Codoped Ga ₂ O ₃ Phosphors: Synthesis and Photoluminescence Properties. <i>ECS Journal of Solid State Science and Technology</i> , 2016 , 5, R67-R73	2	4
45	Synthesis and Unique Photoluminescence Properties of Eu ₂ Ti ₂ O ₇ and Eu ₂ TiO ₅ . <i>Journal of the American Ceramic Society</i> , 2016 , 99, 3039-3046	3.8	9
44	Resonant energy transfer in (Eu ³⁺ , Bi ³⁺)-codoped CaZrO ₃ red-emitting phosphor. <i>RSC Advances</i> , 2016 , 6, 66130-66139	3.7	22
43	Europium gallium garnet (Eu ₃ Ga ₅ O ₁₂) and Eu ₃ GaO ₆ : Synthesis and material properties. <i>Journal of Applied Physics</i> , 2016 , 120, 143102	2.5	10
42	Tb ³⁺ ion doping into Al ₂ O ₃ : Solubility limit and luminescence properties. <i>Japanese Journal of Applied Physics</i> , 2016 , 55, 112401	1.4	11
41	Bright and multicolor luminescent colloidal Si nanocrystals prepared by pulsed laser irradiation in liquid. <i>Applied Physics Letters</i> , 2016 , 108, 023105	3.4	18
40	Solubility limit and luminescence properties of Eu ³⁺ ions in Al ₂ O ₃ powder. <i>Journal of Luminescence</i> , 2016 , 176, 266-271	3.8	22
39	Structural change induced by thermal annealing of red-light-emitting ZnSnF ₆ ·6H ₂ O:Mn ⁴⁺ hexahydrate phosphor. <i>Japanese Journal of Applied Physics</i> , 2016 , 55, 052601	1.4	4
38	Discrete-mode ZnO microparticle random laser. <i>Optics Letters</i> , 2015 , 40, 2661-4	3	15
37	Size and dopant-concentration dependence of photoluminescence properties of ion-implanted phosphorus- and boron-codoped Si nanocrystals. <i>Physical Review B</i> , 2015 , 91,	3.3	16

36	Temperature dependence of lasing characteristics of irregular-shaped-microparticle ZnO laser. <i>Optics Express</i> , 2015 , 23, 28905-13	3.3	2
35	Plasmonic control of ZnO random lasing characteristics. <i>Laser Physics Letters</i> , 2014 , 11, 016004	1.5	8
34	High-yield preparation of blue-emitting colloidal Si nanocrystals by selective laser ablation of porous silicon in liquid. <i>Nanotechnology</i> , 2014 , 25, 275602	3.4	24
33	Micronization of red-emitting K ₂ SiF ₆ :Mn ⁴⁺ phosphor by pulsed laser irradiation in liquid. <i>Applied Surface Science</i> , 2014 , 320, 514-518	6.7	22
32	Origins of lasing emission in a resonance-controlled ZnO random laser. <i>New Journal of Physics</i> , 2014 , 16, 093054	2.9	15
31	Electron-hole plasma induced band gap renormalization in ZnO microlaser cavities. <i>Optics Express</i> , 2014 , 22, 28831-7	3.3	21
30	Emission decay rate of a light emitter on thin metal films. <i>Japanese Journal of Applied Physics</i> , 2014 , 53, 045201	1.4	
29	C211 Evaluation of Droplet Shape and Pressure Drop in the Gas Channel in a Polymer Electrolyte Fuel Cell. <i>The Proceedings of the National Symposium on Power and Energy Systems</i> , 2014 , 2014.19, 277-278		
28	Electron-hole plasma lasing in a ZnO random laser. <i>Physical Review B</i> , 2012 , 86,	3.3	28
27	Phosphorus and boron codoping of silicon nanocrystals by ion implantation: Photoluminescence properties. <i>Physical Review B</i> , 2012 , 85,	3.3	28
26	Photoluminescence decay dynamics of silver/porous-silicon nanocomposites formed by metal-assisted etching. <i>Journal of Luminescence</i> , 2012 , 132, 3019-3026	3.8	6
25	Improved lasing characteristics of ZnO/organic-dye random laser. <i>Applied Physics Letters</i> , 2012 , 100, 171101	3.4	16
24	Properties of magnetic nickel/porous-silicon composite powders. <i>AIP Advances</i> , 2012 , 2, 032167	1.5	15
23	Strongly modified spontaneous emission decay rate of silicon nanocrystals near semicontinuous gold films. <i>Optics Express</i> , 2012 , 20, 26548-58	3.3	8
22	Gold-nanoparticle-assisted random lasing from powdered GaN. <i>Optics Express</i> , 2011 , 19, 467-75	3.3	20
21	Surface-plasmon-enhanced band-edge emission from Au/GaN powders. <i>Applied Physics Letters</i> , 2011 , 98, 161906	3.4	
20	Control of random lasing in ZnO/Al ₂ O ₃ nanopowders. <i>Applied Physics Letters</i> , 2011 , 99, 231105	3.4	16
19	Direct Synthesis and Enhanced Catalytic Activities of Platinum and Porous-Silicon Composites by Metal-Assisted Chemical Etching. <i>Japanese Journal of Applied Physics</i> , 2011 , 50, 081301	1.4	8

18	Direct Synthesis and Enhanced Catalytic Activities of Platinum and Porous-Silicon Composites by Metal-Assisted Chemical Etching. <i>Japanese Journal of Applied Physics</i> , 2011 , 50, 081301	1.4	19
17	Temperature dependence of GaAs random laser characteristics. <i>Physical Review B</i> , 2010 , 81,	3.3	19
16	Properties of silver/porous-silicon nanocomposite powders prepared by metal assisted electroless chemical etching. <i>Journal of Applied Physics</i> , 2010 , 108, 104315	2.5	19
15	Effects of thermal oxidation on the photoluminescence properties of porous silicon. <i>Journal of Luminescence</i> , 2010 , 130, 682-687	3.8	24
14	Resonant energy transfer from silicon nanocrystals to iodine molecules. <i>Physical Review B</i> , 2009 , 79,	3.3	2
13	Blue-light-emitting ZnSe random laser. <i>Optics Letters</i> , 2009 , 34, 3923-5	3	31
12	Preparation of powdered porous silicon by stain etching method. <i>Hosokawa Powder Technology Foundation ANNUAL REPORT</i> , 2009 , 17, 103-109	0	
11	Highly luminescent mono- and multilayers of immobilized CdTe nanocrystals: controlling optical properties through post chemical surface modification. <i>Chemical Communications</i> , 2008 , 1641-3	5.8	10
10	Energy transfer from Si nanocrystals to Er ions near a metal layer. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2008 , 205, 47-51	1.6	1
9	Spontaneous Emission Rate of Si Nanocrystals on Thin Au Film. <i>Japanese Journal of Applied Physics</i> , 2007 , 46, 6498-6502	1.4	1
8	Enhancement of photoluminescence from excitons in silicon nanocrystals via coupling to surface plasmon polaritons. <i>Journal of Applied Physics</i> , 2007 , 102, 023506	2.5	22
7	Enhancement and suppression of energy transfer from Si nanocrystals to Er ions through a control of the photonic mode density. <i>Physical Review B</i> , 2006 , 74,	3.3	25
6	Surface plasmon polariton mediated photoluminescence from excitons in silicon nanocrystals. <i>Applied Physics Letters</i> , 2006 , 89, 101907	3.4	25
5	Size dependence of photoluminescence quantum efficiency of Si nanocrystals. <i>Physical Review B</i> , 2006 , 73,	3.3	64
4	Enhancement of photoluminescence from Yb and Er co-doped Al ₂ O ₃ films by an asymmetric metal cavity. <i>Applied Physics Letters</i> , 2006 , 88, 042101	3.4	11
3	Enhancement of Radiative Recombination Rate of Excitons in Si Nanocrystals on Au Film. <i>Japanese Journal of Applied Physics</i> , 2006 , 45, 6132-6136	1.4	7
2	Enhancement of Dye Fluorescence by Gold Nanoparticles: Analysis of Particle Size Dependence. <i>Japanese Journal of Applied Physics</i> , 2005 , 44, 6833-6837	1.4	71
1	Modification of energy transfer from Si nanocrystals to Er ³⁺ near a Au thin film. <i>Physical Review B</i> , 2005 , 72,	3.3	27

