

# Toshihiro Nakamura

## List of Publications by Citations

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71  
papers

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76  
ext. papers

1,106  
ext. citations

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L-index

#	Paper	IF	Citations
71	Enhancement of Dye Fluorescence by Gold Nanoparticles: Analysis of Particle Size Dependence. <i>Japanese Journal of Applied Physics</i> , <b>2005</b> , 44, 6833-6837	1.4	71
70	Size dependence of photoluminescence quantum efficiency of Si nanocrystals. <i>Physical Review B</i> , <b>2006</b> , 73,	3.3	64
69	EditorsTChoiceRb <sub>2</sub> SiF <sub>6</sub> :Mn <sup>4+</sup> and Rb <sub>2</sub> TiF <sub>6</sub> :Mn <sup>4+</sup> Red-Emitting Phosphors. <i>ECS Journal of Solid State Science and Technology</i> , <b>2016</b> , 5, R206-R210	2	41
68	Synthesis and Photoluminescence Properties of BaSnF <sub>6</sub> :Mn <sup>4+</sup> +Red Phosphor. <i>ECS Journal of Solid State Science and Technology</i> , <b>2016</b> , 5, R37-R43	2	36
67	Synthesis and properties of Rb <sub>2</sub> GeF <sub>6</sub> :Mn <sup>4+</sup> red-emitting phosphors. <i>Japanese Journal of Applied Physics</i> , <b>2018</b> , 57, 022601	1.4	31
66	Blue-light-emitting ZnSe random laser. <i>Optics Letters</i> , <b>2009</b> , 34, 3923-5	3	31
65	Electron-hole plasma lasing in a ZnO random laser. <i>Physical Review B</i> , <b>2012</b> , 86,	3.3	28
64	Phosphorus and boron codoping of silicon nanocrystals by ion implantation: Photoluminescence properties. <i>Physical Review B</i> , <b>2012</b> , 85,	3.3	28
63	Modification of energy transfer from Si nanocrystals to Er <sup>3+</sup> near a Au thin film. <i>Physical Review B</i> , <b>2005</b> , 72,	3.3	27
62	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> , <b>2006</b> , 74,	3.3	25
61	Surface plasmon polariton mediated photoluminescence from excitons in silicon nanocrystals. <i>Applied Physics Letters</i> , <b>2006</b> , 89, 101907	3.4	25
60	High-yield preparation of blue-emitting colloidal Si nanocrystals by selective laser ablation of porous silicon in liquid. <i>Nanotechnology</i> , <b>2014</b> , 25, 275602	3.4	24
59	Effects of thermal oxidation on the photoluminescence properties of porous silicon. <i>Journal of Luminescence</i> , <b>2010</b> , 130, 682-687	3.8	24
58	Micronization of red-emitting K <sub>2</sub> SiF <sub>6</sub> :Mn <sup>4+</sup> phosphor by pulsed laser irradiation in liquid. <i>Applied Surface Science</i> , <b>2014</b> , 320, 514-518	6.7	22
57	Enhancement of photoluminescence from excitons in silicon nanocrystals via coupling to surface plasmon polaritons. <i>Journal of Applied Physics</i> , <b>2007</b> , 102, 023506	2.5	22
56	Resonant energy transfer in (Eu <sup>3+</sup> , Bi <sup>3+</sup> )-codoped CaZrO <sub>3</sub> red-emitting phosphor. <i>RSC Advances</i> , <b>2016</b> , 6, 66130-66139	3.7	22
55	Solubility limit and luminescence properties of Eu <sup>3+</sup> ions in Al <sub>2</sub> O <sub>3</sub> powder. <i>Journal of Luminescence</i> , <b>2016</b> , 176, 266-271	3.8	22

54	Electron-hole plasma induced band gap renormalization in ZnO microlaser cavities. <i>Optics Express</i> , <b>2014</b> , 22, 28831-7	3.3	21
53	Gold-nanoparticle-assisted random lasing from powdered GaN. <i>Optics Express</i> , <b>2011</b> , 19, 467-75	3.3	20
52	Temperature dependence of GaAs random laser characteristics. <i>Physical Review B</i> , <b>2010</b> , 81,	3.3	19
51	Properties of silver/porous-silicon nanocomposite powders prepared by metal assisted electroless chemical etching. <i>Journal of Applied Physics</i> , <b>2010</b> , 108, 104315	2.5	19
50	Direct Synthesis and Enhanced Catalytic Activities of Platinum and Porous-Silicon Composites by Metal-Assisted Chemical Etching. <i>Japanese Journal of Applied Physics</i> , <b>2011</b> , 50, 081301	1.4	19
49	Bright and multicolor luminescent colloidal Si nanocrystals prepared by pulsed laser irradiation in liquid. <i>Applied Physics Letters</i> , <b>2016</b> , 108, 023105	3.4	18
48	Improvement of Laser Processing for Colloidal Silicon Nanocrystal Formation in a Reactive Solvent. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 8623-8629	3.8	16
47	Size and dopant-concentration dependence of photoluminescence properties of ion-implanted phosphorus- and boron-codoped Si nanocrystals. <i>Physical Review B</i> , <b>2015</b> , 91,	3.3	16
46	Improved lasing characteristics of ZnO/organic-dye random laser. <i>Applied Physics Letters</i> , <b>2012</b> , 100, 171101	3.4	16
45	Control of random lasing in ZnO/Al <sub>2</sub> O <sub>3</sub> nanopowders. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 231105	3.4	16
44	Luminescence color control and quantum-efficiency enhancement of colloidal Si nanocrystals by pulsed laser irradiation in liquid. <i>Nanoscale</i> , <b>2017</b> , 9, 1193-1200	7.7	15
43	Discrete-mode ZnO microparticle random laser. <i>Optics Letters</i> , <b>2015</b> , 40, 2661-4	3	15
42	Origins of lasing emission in a resonance-controlled ZnO random laser. <i>New Journal of Physics</i> , <b>2014</b> , 16, 093054	2.9	15
41	Properties of magnetic nickel/porous-silicon composite powders. <i>AIP Advances</i> , <b>2012</b> , 2, 032167	1.5	15
40	Double threshold behavior in a resonance-controlled ZnO random laser. <i>APL Photonics</i> , <b>2017</b> , 2, 036101	5.2	14
39	Unique properties of ZnTiF <sub>6</sub> ·6H <sub>2</sub> O:Mn <sup>4+</sup> red-emitting hexahydrate phosphor. <i>Journal of Luminescence</i> , <b>2017</b> , 184, 160-168	3.8	13
38	Synthesis and properties of Tb <sub>3</sub> Al <sub>5</sub> O <sub>12</sub> :Eu <sup>3+</sup> garnet phosphor. <i>Journal of Luminescence</i> , <b>2018</b> , 197, 242-247	3.7	11
37	Abnormal photoluminescence phenomena in (Tb <sup>3+</sup> , Eu <sup>3+</sup> ) codoped Ga <sub>2</sub> O <sub>3</sub> phosphor. <i>Journal of Alloys and Compounds</i> , <b>2016</b> , 678, 448-455	5.7	11

36	Yellow-light emitting Tb <sub>3</sub> Al <sub>5</sub> O <sub>12</sub> :Ce <sup>3+</sup> phosphor properties sensitized by Bi <sup>3+</sup> ions. <i>Journal of Luminescence</i> , <b>2017</b> , 192, 720-727	3.8	11
35	Enhancement of photoluminescence from Yb and Er co-doped Al <sub>2</sub> O <sub>3</sub> films by an asymmetric metal cavity. <i>Applied Physics Letters</i> , <b>2006</b> , 88, 042101	3.4	11
34	Tb <sup>3+</sup> ion doping into Al <sub>2</sub> O <sub>3</sub> : Solubility limit and luminescence properties. <i>Japanese Journal of Applied Physics</i> , <b>2016</b> , 55, 112401	1.4	11
33	Luminescence properties of Tb <sub>3</sub> Al <sub>5</sub> O <sub>12</sub> garnet and related compounds synthesized by the metal organic decomposition method. <i>Journal of Luminescence</i> , <b>2017</b> , 183, 193-200	3.8	10
32	Highly luminescent mono- and multilayers of immobilized CdTe nanocrystals: controlling optical properties through post chemical surface modification. <i>Chemical Communications</i> , <b>2008</b> , 1641-3	5.8	10
31	Synthesis and properties of Ca <sub>3</sub> Ga <sub>2</sub> Ge <sub>3</sub> O <sub>12</sub> :Tb <sup>3+</sup> garnet phosphor. <i>Ceramics International</i> , <b>2017</b> , 43, 14225-14232	5.1	10
30	Europium gallium garnet (Eu <sub>3</sub> Ga <sub>5</sub> O <sub>12</sub> ) and Eu <sub>3</sub> GaO <sub>6</sub> : Synthesis and material properties. <i>Journal of Applied Physics</i> , <b>2016</b> , 120, 143102	2.5	10
29	Quantum-assisted photoelectric gain effects in perovskite solar cells. <i>NPG Asia Materials</i> , <b>2020</b> , 12,	10.3	9
28	Synthesis and Unique Photoluminescence Properties of Eu <sub>2</sub> Ti <sub>2</sub> O <sub>7</sub> and Eu <sub>2</sub> TiO <sub>5</sub> . <i>Journal of the American Ceramic Society</i> , <b>2016</b> , 99, 3039-3046	3.8	9
27	Photoluminescence properties of Tb <sub>3</sub> Al <sub>5</sub> O <sub>12</sub> :Ce <sup>3+</sup> garnet synthesized by the metal organic decomposition method. <i>Optical Materials</i> , <b>2017</b> , 64, 557-563	3.3	8
26	Plasmonic control of ZnO random lasing characteristics. <i>Laser Physics Letters</i> , <b>2014</b> , 11, 016004	1.5	8
25	An Orange-Light Emitting Garnet Phosphor: Tb <sub>3</sub> Ga <sub>5</sub> O <sub>12</sub> :Eu <sup>3+</sup> . <i>ECS Journal of Solid State Science and Technology</i> , <b>2017</b> , 6, R97-R104	2	8
24	Direct Synthesis and Enhanced Catalytic Activities of Platinum and Porous-Silicon Composites by Metal-Assisted Chemical Etching. <i>Japanese Journal of Applied Physics</i> , <b>2011</b> , 50, 081301	1.4	8
23	Strongly modified spontaneous emission decay rate of silicon nanocrystals near semicontinuous gold films. <i>Optics Express</i> , <b>2012</b> , 20, 26548-58	3.3	8
22	Enhancement of Visible-Luminescence Saturation Intensity by Surface Plasmons in Ag/ZnO Films. <i>Physical Review Applied</i> , <b>2016</b> , 6,	4.3	7
21	Enhancement of Radiative Recombination Rate of Excitons in Si Nanocrystals on Au Film. <i>Japanese Journal of Applied Physics</i> , <b>2006</b> , 45, 6132-6136	1.4	7
20	Emerging Functions of Nanostructured Porous Silicon-With a Focus on the Emissive Properties of Photons, Electrons, and Ultrasound. <i>Frontiers in Chemistry</i> , <b>2019</b> , 7, 273	5	6
19	Dynamics of resonance energy transfer process from Tb <sup>3+</sup> to Eu <sup>3+</sup> in Ga <sub>2</sub> O <sub>3</sub> phosphor. <i>Journal of Luminescence</i> , <b>2019</b> , 215, 116616	3.8	6

18	Photoluminescence decay dynamics of silver/porous-silicon nanocomposites formed by metal-assisted etching. <i>Journal of Luminescence</i> , <b>2012</b> , 132, 3019-3026	3.8	6
17	(Tb <sup>3+</sup> , Eu <sup>3+</sup> )-Codoped Ga <sub>2</sub> O <sub>3</sub> Phosphors: Synthesis and Photoluminescence Properties. <i>ECS Journal of Solid State Science and Technology</i> , <b>2016</b> , 5, R67-R73	2	4
16	Structural change induced by thermal annealing of red-light-emitting ZnSnF <sub>6</sub> ·6H <sub>2</sub> O:Mn <sup>4+</sup> hexahydrate phosphor. <i>Japanese Journal of Applied Physics</i> , <b>2016</b> , 55, 052601	1.4	4
15	Unusual near-infrared luminescence from Ti-doped MgSiF <sub>6</sub> ·6H <sub>2</sub> O powder. <i>Journal of Luminescence</i> , <b>2019</b> , 211, 157-161	3.8	2
14	Temperature dependence of lasing characteristics of irregular-shaped-microparticle ZnO laser. <i>Optics Express</i> , <b>2015</b> , 23, 28905-13	3.3	2
13	Resonant energy transfer from silicon nanocrystals to iodine molecules. <i>Physical Review B</i> , <b>2009</b> , 79,	3.3	2
12	High-yield green fabrication of colloidal silicon quantum dots by low-temperature thermal cracking of porous silicon. <i>APL Materials</i> , <b>2020</b> , 8, 081105	5.7	2
11	Luminescence properties of Eu <sup>3+</sup> -activated TbAlO <sub>3</sub> perovskite compound synthesized by metal organic decomposition. <i>Japanese Journal of Applied Physics</i> , <b>2018</b> , 57, 082601	1.4	1
10	Facile Formation of Stable Water-Dispersed Luminescent Silicon Nanocrystals by Laser Processing in Liquid: Toward Fluorescent Labeling for Bio-Imaging. <i>ChemNanoMat</i> , <b>2019</b> , 5, 1137-1143	3.5	1
9	Energy transfer from Si nanocrystals to Er ions near a metal layer. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2008</b> , 205, 47-51	1.6	1
8	Spontaneous Emission Rate of Si Nanocrystals on Thin Au Film. <i>Japanese Journal of Applied Physics</i> , <b>2007</b> , 46, 6498-6502	1.4	1
7	Gamma-ray induced photo emission from GaN single crystal wafer. <i>Applied Physics Letters</i> , <b>2021</b> , 118, 032106	3.4	1
6	Spectral tuning of colloidal Si nanocrystal luminescence by post-laser irradiation in liquid.. <i>RSC Advances</i> , <b>2020</b> , 10, 32992-32998	3.7	0
5	Emission decay rate of a light emitter on thin metal films. <i>Japanese Journal of Applied Physics</i> , <b>2014</b> , 53, 045201	1.4	
4	Surface-plasmon-enhanced band-edge emission from Au/GaN powders. <i>Applied Physics Letters</i> , <b>2011</b> , 98, 161906	3.4	
3	Material Processing for Colloidal Silicon Quantum Dot Formation <b>2022</b> , 161-185		
2	Preparation of powdered porous silicon by stain etching method. <i>Hosokawa Powder Technology Foundation ANNUAL REPORT</i> , <b>2009</b> , 17, 103-109	0	
1	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> , <b>2014</b> , 2014.19, 277-278	0	

