

Takuya Iida

List of Publications by Year in descending order

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Version: 2024-02-01

43
papers

810
citations

516710

16
h-index

501196

28
g-index

43
all docs

43
docs citations

43
times ranked

577
citing authors

#	ARTICLE	IF	CITATIONS
1	Theoretical Study of the Optical Manipulation of Semiconductor Nanoparticles under an Excitonic Resonance Condition. <i>Physical Review Letters</i> , 2003, 90, 057403.	7.8	125
2	Theory of resonant radiation force exerted on nanostructures by optical excitation of their quantum states: From microscopic to macroscopic descriptions. <i>Physical Review B</i> , 2008, 77, .	3.2	79
3	Control of Plasmonic Superradiance in Metallic Nanoparticle Assembly by Light-Induced Force and Fluctuations. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 332-336.	4.6	55
4	Control of Submillimeter Phase Transition by Collective Photothermal Effect. <i>Journal of Physical Chemistry C</i> , 2014, 118, 18799-18804.	3.1	55
5	Selective Optical Assembly of Highly Uniform Nanoparticles by Doughnut-Shaped Beams. <i>Scientific Reports</i> , 2013, 3, 3047.	3.3	47
6	Force Control between Quantum Dots by Light in Polaritonic Molecule States. <i>Physical Review Letters</i> , 2006, 97, 117402.	7.8	38
7	Light-induced assembly of living bacteria with honeycomb substrate. <i>Science Advances</i> , 2020, 6, eaaz5757.	10.3	36
8	Design of Photosensitive Gold Nanoparticles for Biomedical Applications Based on Self-Consistent Optical Response Theory. <i>Journal of Physical Chemistry C</i> , 2011, 115, 19091-19095.	3.1	34
9	Development of a rapid bacterial counting method based on photothermal assembling. <i>Optical Materials Express</i> , 2016, 6, 1280.	3.0	30
10	Submillimetre Network Formation by Light-induced Hybridization of Zeptomole-level DNA. <i>Scientific Reports</i> , 2016, 6, 37768.	3.3	29
11	Unconventional control of excited states of a dimer molecule by a localized light field between metal nanostructures. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2009, 206, 980-984.	1.8	26
12	Surfactant-Controlled Photothermal Assembly of Nanoparticles and Microparticles for Rapid Concentration Measurement of Microbes. <i>ACS Applied Bio Materials</i> , 2019, 2, 1561-1568.	4.6	26
13	Review: Novel sensing strategies for bacterial detection based on active and passive methods driven by external field. <i>Analytica Chimica Acta</i> , 2017, 988, 1-16.	5.4	21
14	Mesoscopic Motion of Optically Trapped Particle Synchronized with Photochromic Reactions of Diarylethene Derivatives. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 2659-2664.	4.6	19
15	Multiple Resonances Induced by Plasmonic Coupling between Gold Nanoparticle Trimers and Hexagonal Assembly of Gold-Coated Polystyrene Microspheres. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 3652-3658.	4.6	18
16	Interparticle-Interaction-Mediated Anomalous Acceleration of Nanoparticles under Light-Field with Coupled Orbital and Spin Angular Momentum. <i>Nano Letters</i> , 2019, 19, 4873-4878.	9.1	18
17	Damage-free light-induced assembly of intestinal bacteria with a bubble-mimetic substrate. <i>Communications Biology</i> , 2021, 4, 385.	4.4	18
18	Multipole Superradiance from Densely Assembled Metallic Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2013, 117, 15247-15252.	3.1	17

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19	Optical Trap-Mediated High-Sensitivity Nanohole Array Biosensors with Random Nanospikes. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 370-374.	4.6	17
20	Fluctuation-Mediated Optical Screening of Nanoparticles. <i>Nano Letters</i> , 2012, 12, 5337-5341.	9.1	14
21	Microflow-mediated optical assembly of nanoparticles with femtogram protein via shrinkage of light-induced bubbles. <i>APL Photonics</i> , 2019, 4, 010802.	5.7	13
22	Macroscopically Anisotropic Structures Produced by Light-induced Solvothermal Assembly of Porphyrin Dimers. <i>Scientific Reports</i> , 2018, 8, 11108.	3.3	10
23	Optically induced force between nano-particles irradiated by electronic resonant light. <i>Journal of Luminescence</i> , 2005, 112, 151-155.	3.1	8
24	Mechanism in External Field-mediated Trapping of Bacteria Sensitive to Nanoscale Surface Chemical Structure. <i>Scientific Reports</i> , 2017, 7, 16651.	3.3	8
25	DNA-Mediated Anomalous Optical Coupling of Heterogeneous Metallic Nanostructures. <i>Journal of Physical Chemistry C</i> , 2014, 118, 7235-7241.	3.1	6
26	Near-field transmission and reflection spectroscopy for revealing absorption and scattering characteristics of single silver nanoplates. <i>Journal of Chemical Physics</i> , 2020, 153, 144703.	3.0	6
27	Enhanced modulation of scattered light from phase-change nanoparticles by tailored plasmonic mirror image. <i>Applied Physics Letters</i> , 2013, 103, 041108.	3.3	5
28	Development of bowl-shaped plasmonic substrate for optical assembly based on template of self-assembled microspheres. <i>Japanese Journal of Applied Physics</i> , 2019, 58, SDDK08.	1.5	5
29	Dynamic control of polarization-inverted modes in three-dimensionally trapped multiple nanogaps. <i>Applied Physics Letters</i> , 2015, 107, 261105.	3.3	4
30	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, .	3.3	4
31	Optical Trapping of Nanocrystals at Oil/Water Interfaces: Implications for Photocatalysis. <i>ACS Applied Nano Materials</i> , 2021, 4, 11743-11752.	5.0	4
32	Radiation force mediated by exciton of a carbon nanotube. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2009, 6, 65-68.	0.8	3
33	Theory for optical assembling of anisotropic nanoparticles by tailored light fields under thermal fluctuations. <i>Research on Chemical Intermediates</i> , 2014, 40, 2303-2313.	2.7	3
34	Nanotraffic Lights: Rayleigh Scattering Microspectroscopy of Optically Trapped Octahedral Gold Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2019, 123, 23096-23102.	3.1	3
35	Electrical detection of DNA via nanoparticles under light-induced assembly. <i>Japanese Journal of Applied Physics</i> , 2019, 58, SDDK09.	1.5	2
36	Dynamics analysis of nanoparticles optically driven by a Laguerre-Gaussian beam with optical spin. <i>Journal of Physics: Conference Series</i> , 2019, 1220, 012008.	0.4	2

#	ARTICLE	IF	CITATIONS
37	Collective effects in radiation force on movable quantum dots. Physica Status Solidi (B): Basic Research, 2006, 243, 3946-3951.	1.5	1
38	Theory of light-induced force microscopy to observe collective excited states in quantum-dot-array. Physica Status Solidi C: Current Topics in Solid State Physics, 2009, 6, 898-901.	0.8	1
39	MICROSCOPIC CALCULATION OF THE RADIATION FORCE EXERTED ON NANO-PARTICLES CONFINING EXCITONS. Nonlinear Optics, Quantum Optics, 2002, 29, 629-634.	0.2	0
40	Force control between nanostructures by coupling of spatially separated polaritons. Physica Status Solidi C: Current Topics in Solid State Physics, 2006, 3, 3543-3546.	0.8	0
41	Theory of nano optical manipulation by designed light fields under excitonic resonance conditions. Physica Status Solidi C: Current Topics in Solid State Physics, 2009, 6, 69-72.	0.8	0
42	Three-dimensional nano-optical assembly of antenna structures with collective near-field coupling. Applied Physics A: Materials Science and Processing, 2015, 121, 1369-1375.	2.3	0
43	Optical properties of nano-hole array with randomly designed surface. , 2018, , .		0