

Yusuke Ogura

List of Publications by Year in descending order

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79
papers

552
citations

758635

12
h-index

676716

22
g-index

85
all docs

85
docs citations

85
times ranked

496
citing authors

#	ARTICLE	IF	CITATIONS
1	Single-shot phase imaging with a coded aperture. <i>Optics Letters</i> , 2014, 39, 6466.	1.7	87
2	Three-Dimensional Information Acquisition Using a Compound Imaging System. <i>Optical Review</i> , 2007, 14, 347-350.	1.2	61
3	Wavelength-multiplexing diffractive phase elements: design, fabrication, and performance evaluation. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2001, 18, 1082.	0.8	41
4	Optical manipulation of microscopic objects by means of vertical-cavity surface-emitting laser array sources. <i>Applied Optics</i> , 2001, 40, 5430.	2.1	37
5	Fluorescence resonance energy transfer-based molecular logic circuit using a DNA scaffold. <i>Applied Physics Letters</i> , 2012, 101, 233703.	1.5	36
6	Resolution enhancement in nonlinear interferenceless COACH with point response of subdiffraction limit patterns. <i>Optics Express</i> , 2019, 27, 391.	1.7	29
7	Design and demonstration of fan-out elements generating an array of subdiffraction spots. <i>Optics Express</i> , 2014, 22, 25196.	1.7	26
8	Self-Contained Photonically-Controlled DNA Tweezers. <i>Applied Physics Express</i> , 2009, 2, 025004.	1.1	17
9	Optical levitation and translation of a microscopic particle by use of multiple beams generated by vertical-cavity surface-emitting laser array sources. <i>Applied Optics</i> , 2002, 41, 5645.	2.1	13
10	Stacking and translation of microscopic particles by means of 2 λ –2 beams emitted from a vertical-cavity surface-emitting laser array. <i>Applied Physics Letters</i> , 2003, 82, 2969-2971.	1.5	13
11	Photothermal fabrication of microscale patterned DNA hydrogels. <i>Royal Society Open Science</i> , 2018, 5, 171779.	1.1	13
12	An Active Intraoral Shape Measurement Scheme Using a Compact Compound-Eye Camera with Integrated Pattern Projectors. <i>Japanese Journal of Applied Physics</i> , 2009, 48, 09LB04.	0.8	12
13	A Nanoscale Set-Reset Flip-Flop in Fluorescence Resonance Energy Transfer-Based Circuits. <i>Applied Physics Express</i> , 2013, 6, 015201.	1.1	11
14	Discrete correlation processor as a building core of a digital optical computing system: architecture and optoelectronic embodiment. <i>Applied Optics</i> , 1999, 38, 7276.	2.1	9
15	3D information acquisition using a compound imaging system. , 2007, , .		9
16	Three-dimensional dynamic optical manipulation by combining a diffractive optical element and a spatial light modulator. <i>Optical Review</i> , 2008, 15, 105-109.	1.2	9
17	Biomolecule-to-fluorescent-color encoder: modulation of fluorescence emission via DNA structural changes. <i>Biomedical Optics Express</i> , 2014, 5, 2082.	1.5	9
18	Optically controllable molecular logic circuits. <i>Applied Physics Letters</i> , 2015, 107, .	1.5	9

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19	Nanoscale energy-route selector consisting of multiple photo-switchable fluorescence-resonance-energy-transfer structures on DNA. <i>Optical Review</i> , 2015, 22, 316-321.	1.2	9
20	Diffraction fan-out elements for wavelength-multiplexing subdiffraction-limit spot generation in three dimensions. <i>Applied Optics</i> , 2016, 55, 6371.	2.1	8
21	Optofluidic DNA computation based on optically manipulated microdroplets. <i>Microfluidics and Nanofluidics</i> , 2012, 13, 1-7.	1.0	7
22	Prototype Demonstration of Discrete Correlation Processor-2 Based on High-Speed Optical Image Steering for Large-Fan-Out Reconfigurable Optical Interconnections. <i>Optical Review</i> , 2001, 8, 18-25.	1.2	5
23	Toward photonic DNA computing: developing optical techniques for parallel manipulation of DNA. , 2005, , .		5
24	Spatially parallel control of DNA reactions in optically manipulated microdroplets. <i>Journal of Nanophotonics</i> , 2011, 5, 051702.	0.4	5
25	A photonic DNA processor: concept and implementation. , 2011, , .		5
26	Spectral and temporal optical signal generation using randomly distributed quantum dots. <i>Optical Review</i> , 2020, 27, 264-269.	1.2	5
27	Wavelength-Multiplexing Diffractive Phase Element with Quantized Phase Structure. <i>Optical Review</i> , 2001, 8, 245-248.	1.2	4
28	Implementation of a Nanoscale Automaton Using DNA Conformation Controlled by Optical Signals. <i>Japanese Journal of Applied Physics</i> , 2009, 48, 09LA01.	0.8	4
29	Large-area manipulation of microdroplets by holographic optical tweezers based on a hybrid diffractive system. <i>Applied Optics</i> , 2011, 50, H36.	2.1	4
30	Optically controlled release of DNA based on nonradiative relaxation process of quenchers. <i>Biomedical Optics Express</i> , 2016, 7, 2142.	1.5	4
31	Translation of DNA molecules based on optical control of DNA reactions for photonic DNA computing. , 2005, , .		3
32	Reusable molecular sensor based on photonic activation control of DNA probes. <i>Biomedical Optics Express</i> , 2012, 3, 920.	1.5	3
33	Nanoscale Optical Logic Circuits by Single-Step FRET. <i>IEEE Photonics Journal</i> , 2020, 12, 1-12.	1.0	3
34	Control of DNA Molecules on a Microscopic Bead Using Optical Techniques for Photonic DNA Memory. <i>Lecture Notes in Computer Science</i> , 2006, , 213-223.	1.0	3
35	Spatial phase shaping of ultrashort laser pulses to overcome the diffraction limit. <i>OSA Continuum</i> , 2019, 2, 3240.	1.8	3
36	Optoelectronic parallel-matching architecture: architecture description, performance estimation, and prototype demonstration. <i>Applied Optics</i> , 2001, 40, 283.	2.1	2

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37	Manipulation of DNA molecules using optical techniques for optically assisted DNA computing. , 2004, , .		2
38	Fabrication of three-dimensional microscopic structure by VCSEL array trapping. , 2004, , .		2
39	Photonic DNA computing: concept and implementation. , 2006, , .		2
40	Biologically inspired object selection technique based on attractor selection. , 2006, 6310, 148.		2
41	State-transition of DNA nanomachines based on photonic control. , 2008, , .		2
42	Nanoscale logic operation in optically manipulated micro-droplets. Proceedings of SPIE, 2010, , .	0.8	2
43	Amplification and encoding of biomolecular signals with designed reactions of DNA. , 2013, , .		2
44	Multiplexed fluorescence readout using time responses of color coded signals for biomolecular detection. Biomedical Optics Express, 2016, 7, 5284.	1.5	2
45	Fluorescence encoded super resolution imaging based on a location estimation algorithm for high-density fluorescence probes. Optical Review, 2017, 24, 212-218.	1.2	2
46	Methods for Manipulating DNA Molecules in a Micrometer Scale Using Optical Techniques. Lecture Notes in Computer Science, 2005, , 258-267.	1.0	1
47	Microscale optical cryptography using a subdiffraction-limit optical key. Japanese Journal of Applied Physics, 2018, 57, 040309.	0.8	1
48	Evaluation of Fundamental Characteristics of Information Systems Based on Photonic DNA Computing. Lecture Notes in Computer Science, 2006, , 192-205.	1.0	1
49	Photonic Information Techniques Based on Compound-Eye Imaging. Lecture Notes in Computer Science, 2006, , 252-264.	1.0	1
50	Diffraction phase element for shrinking focal spot diameter: Design, fabrication, and application to laser beam lithography. Optical Review, 2001, 8, 416.	1.2	0
51	Observation of a stacking process of microparticles with multiple beams. Applied Optics, 2005, 44, 3271.	2.1	0
52	Photonic translation of DNAs between microscopic beads and a substrate for a photonic DNA memory. , 2006, , .		0
53	Local Area Manipulation of DNA Molecules for Photonic DNA Memory. Lecture Notes in Computer Science, 2006, , 374-380.	1.0	0
54	Parallel Translation of Microscopic Objects in Three-Dimensional Traps by Sequential Change of Emitting Vertical-Cavity Surface-Emitting Lasers. Japanese Journal of Applied Physics, 2006, 45, 2603-2605.	0.8	0

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55	Implementation of Molecular Addressing Technique Based on Photoinduced Cleavage Reaction. , 2007, , .		0
56	Parallel optical tweezers with combining a diffractive optical element and a spatial light modulator for photonic DNA memory. , 2007, , .		0
57	Photonic Implementation of Quantum Computation Algorithm Based on Spatial Coding. Optical Review, 2007, 14, 260-265.	1.2	0
58	A nanoscale ruler by use of fluorescence resonance energy transfer and DNA nano-structure. , 2009, , .		0
59	Enhancing the performance of photonic DNA nanomachines for implementing photonic nanoscale automaton. Proceedings of SPIE, 2009, , .	0.8	0
60	2P345 Photoregulating activation of functionality in molecular recognition of DNA(The 48th Annual) Tj ETQq0 0 0 ggBT /Overlock 10 Tf	0.0	0
61	3J1346 Bio-molecular sensing by use of DNA that can be activated and reset via photonic signals(Bioengineering2,The 49th Annual Meeting of the Biophysical Society of Japan). Seibutsu Butsuru, 2011, 51, S142.	0.0	0
62	Fluorescence amplification based on DNA structural changes for enzyme-free detection of microRNA. , 2014, , .		0
63	Amplification and modulation of fluorescent signals by using hybridization chain reactions for multiplexed sensing of biomolecules in a one-pot. Proceedings of SPIE, 2014, , .	0.8	0
64	Generation of multiple sub-diffraction-limit spots in 3D space with propagating light. , 2015, , .		0
65	Diffractive optical elements for multi-dimensional subdiffraction-limit spot generation: design, demonstration, and characterization. Proceedings of SPIE, 2016, , .	0.8	0
66	Bayesian based fluorescence coded imaging using quantum dots. , 2017, , .		0
67	Proximity amplitude and phase control for beam reduction using computer-generated hologram. , 2017, , .		0
68	Experimental assessment and analysis of super-resolution in fluorescence microscopy based on multiple-point spread function fitting of spectrally demultiplexed images. Optical Review, 2018, 25, 384-390.	1.2	0
69	Generation of a subdiffraction-limit light sheet with micrometer-order thickness using a computer-generated hologram. Optical Review, 2019, 26, 452-459.	1.2	0
70	Optical decomposition of DNA gel and modification of object mobility on micrometre scale. Scientific Reports, 2019, 9, 19858.	1.6	0
71	Photonic DNA computing. The Review of Laser Engineering, 2005, 33, 239-240.	0.0	0
72	Photonic Switching of DNA's Position That Represents the Internal State in Photonic DNA Automaton. Proceedings in Information and Communications Technology, 2010, , 276-289.	0.2	0

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73	Optical Manipulation of Liquid-based Microreactors in Optofluidic DNA Computation. , 2013, , .		0
74	Computer Generated Holograms Generating Subdiffraction Limit Optical Patterns. , 2017, , .		0
75	Photonically driven DNA nanomachine with hybrid functions towards cell measurement. , 2018, , .		0
76	A molecular-sized optical logic circuit for digital modulation of a fluorescence signal. , 2018, , .		0
77	Lateral spatial resolution improvement in laser scanning fluorescence microscopy using a subdiffraction limit optical spot. , 2018, , .		0
78	Holographic femtosecond laser processing with sub-diffraction-limit focusing. , 2019, , .		0
79	Improvement of signal-to-noise ratio in super resolution imaging using subdiffraction limited spots by additional digital signal processing. , 2020, , .		0