

Takashi Okamoto

List of Publications by Year in descending order

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61
papers

346
citations

933447

10
h-index

940533

16
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61
all docs

61
docs citations

61
times ranked

250
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultraviolet-cured polymer microlens arrays. <i>Applied Optics</i> , 1999, 38, 2991.	2.1	49
2	III: The Statistics of Dynamic Speckles. <i>Progress in Optics</i> , 1995, 34, 183-248.	0.6	25
3	Enhanced backscattering of partially coherent light. <i>Optics Letters</i> , 1996, 21, 369.	3.3	23
4	Velocity Measurements of Two Moving Diffusers Using a Temporal Correlation Length of Doubly-scattered Speckle. <i>Journal of Modern Optics</i> , 1990, 37, 389-408.	1.3	18
5	Random lasing in dye-doped polymer random media with a bubble structure. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2017, 34, 1497.	2.1	17
6	Light amplification from Cantor and asymmetric multilayer resonators. <i>Optics Express</i> , 2005, 13, 8122.	3.4	15
7	Shift-multiplexed self-referential holographic data storage. <i>Applied Optics</i> , 2014, 53, 4375.	1.8	15
8	Effect of particle size and shape on nonresonant random laser action of dye-doped polymer random media. <i>Optical Review</i> , 2010, 17, 300-304.	2.0	14
9	Velocity dependence of image speckles produced by a moving diffuser under dynamic speckle illumination. <i>Optics Communications</i> , 1990, 77, 113-120.	2.1	12
10	Monte Carlo simulation of light reflection from cosmetic powder particles near the human skin surface. <i>Journal of Biomedical Optics</i> , 2013, 18, 061232.	2.6	10
11	Semi-analytic modelling of AGNs: autocorrelation function and halo occupation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 497, 1-18.	4.4	10
12	A Phase-space View of Cold-gas Properties of Virgo Cluster Galaxies: Multiple Quenching Processes at Work?. <i>Astrophysical Journal</i> , 2021, 914, 145.	4.5	10
13	A digital speckle correlation interferometer using an image fibre. <i>Measurement Science and Technology</i> , 1993, 4, 746-753.	2.6	9
14	Ultraviolet-Cured Polymer Micro-Optical Elements. <i>Optical Review</i> , 1997, 4, 516-520.	2.0	9
15	Detection of the Object Velocity Using Doubly-scattered Dynamic Speckles Under Gaussian Beam Illumination. <i>Journal of Modern Optics</i> , 1991, 38, 1821-1839.	1.3	8
16	Liquid crystal television applied to a speckle correlation method: real time measurement of the object displacement. <i>Optics Communications</i> , 1992, 88, 17-21.	2.1	8
17	Recording procedures for high-quality signal readout in self-referential holographic data storage. <i>Applied Optics</i> , 2015, 54, 5167.	2.1	8
18	Detection properties of an optical fiber probe for laser speckle velocimetry. <i>Optics Communications</i> , 1985, 55, 393-398.	2.1	7

#	ARTICLE	IF	CITATIONS
19	Power spectra of speckle signals detected by optical-fiber probe. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1987, 4, 1366.	1.5	7
20	Random Laser Action in Dye-Doped Polymer Media with Inhomogeneously Distributed Particles and Gain. Applied Sciences (Switzerland), 2019, 9, 3499.	2.5	7
21	Effects of imaging properties on dynamic speckles produced by a set of moving phase screens. Waves in Random and Complex Media, 1992, 2, 49-65.	1.5	7
22	Statistical properties of three-dimensional speckle distributions produced by crossed scattered waves. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2008, 25, 3030.	1.5	6
23	Differences in star formation activity between tidally triggered and isolated bars: a case study of NGC 4303 and NGC 3627. Monthly Notices of the Royal Astronomical Society, 2022, 510, 3899-3916.	4.4	6
24	Assessment of laser speckle flowgraphy: Development of novel cutaneous blood flow measurement technique. , 2015, , .		5
25	Inverse design of two-dimensional disordered structures for spectral optimization of random lasers. Optics Communications, 2022, 508, 127775.	2.1	5
26	A puzzling non-detection of [O III] and [C II] from a $z \approx 7.7$ galaxy observed with ALMA. Astronomy and Astrophysics, 2021, 646, A26.	3.1	4
27	Testing the effect of resolution on gravitational fragmentation with Lagrangian hydrodynamic schemes. Monthly Notices of the Royal Astronomical Society, 2021, 504, 3986-3995.	4.4	4
28	Spacetime correlation functions of dynamic speckles produced by a series of moving phase screens. Waves in Random and Complex Media, 1991, 1, 391-408.	1.5	3
29	Speckle correlation method for the real time measurement of motion paths using liquid crystal television. Optical Engineering, 1993, 32, 10.	1.0	3
30	Anomalous correlation of intensity fluctuations in strong-scattering media. Journal of Modern Optics, 1998, 45, 117-132.	1.3	3
31	Numerical simulations on the focus-shift multiplexing technique for self-referential holographic data storage. Optical Review, 2016, 23, 987-996.	2.0	3
32	Depolarization measurements of light propagating through an image fiber. Journal of Optics, 1994, 25, 139-142.	0.3	2
33	Effect of a surface profile on spectral correlation properties of dynamic doubly scattered dichromatic speckles. Journal of Optics, 1996, 5, 975-983.	0.5	2
34	Intensity correlations of coherent light reflected from dense powders. Optics Communications, 2003, 227, 15-23.	2.1	2
35	<title>Statistical properties of superposed fractal speckle fields</title>. , 2007, , .		2
36	Development of laser speckle blood flowmeter for evaluating the physiological function of skin. Biomedical Physics and Engineering Express, 2019, 5, 055012.	1.2	2

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37	Optical Fiber Probe For Blood Flow Monitoring. , 1986, 0576, 76.		1
38	Spectral decorrelation of dynamic speckles from concentrated colloidal suspensions in a uniform flow. Optics Communications, 1993, 103, 355-360.	2.1	1
39	Effect of absorption on surface speckles in random media. Waves in Random and Complex Media, 1999, 9, 27-36.	1.5	1
40	Correlation properties of light multiply scattered from powders. , 2001, , .		1
41	Numerical simulations on 3D shift multiplexed self-referential holographic data storage: Shift multiplexing properties along z-axis. , 2015, , .		1
42	Numerical simulations on inter-page crosstalk characteristics in three-dimensional shift multiplexed self-referential holographic data storage. Japanese Journal of Applied Physics, 2016, 55, 08RD01.	1.5	1
43	Velocity dependence of doubly scattered speckles produced by a cascade of two moving diffusers. , 1990, 1319, 536.		0
44	<title>Detection of the object velocity using the time-varying scattered speckles</title>. , 1991, , .		0
45	Multiple light scattering from a moving layer of Brownian particles: comparison with a rigid phase screen. Waves in Random and Complex Media, 1993, 3, 211-219.	1.5	0
46	Cross-correlation properties of multiply-scattered dichromatic light from flowing colloidal particles. Optical Review, 1994, 1, 139-142.	2.0	0
47	Enhanced Intensity Fluctuations of Multiply Scattered Light in Nonlinear Absorbing Media. Optical Review, 1999, 6, 104-109.	2.0	0
48	<title>Angular correlation properties of multiply scattered light in random media with buried objects</title>. , 1999, , .		0
49	<title>Influence of objects buried in highly dense media on angular correlations of the scattered intensity</title>. , 1999, 3749, 679.		0
50	<title>Light amplification by multilayers with fractal gain structures</title>. , 1999, , .		0
51	Spatial properties of light scattering fields produced by crossed random waves. , 2003, , .		0
52	Correlation properties of three-dimensional superposed fractal speckle distributions. , 2006, , .		0
53	<title>Intensity correlation of orthogonally crossed speckle waves</title>. , 2006, 6254, 23.		0
54	Light scattering properties of random media with a structure of laser speckle. Proceedings of SPIE, 2008, , .	0.8	0

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55	Optimal sampling and quantization of dynamic speckles for object identification. Proceedings of SPIE, 2010, , .	0.8	0
56	Monte Carlo simulation of light reflection from cosmetic powders on the skin. , 2011, , .		0
57	Emission properties of random laser media with a bubble structure. , 2013, , .		0
58	Effects of inhomogeneity in distribution of scatterers on random laser emission. , 2017, , .		0
59	Structure of dark matter haloes of Milky Way satellite galaxies in SIDM universes. Proceedings of the International Astronomical Union, 2018, 14, 498-501.	0.0	0
60	Enhanced backscattering of light by disordered media: effects of spatial coherence. , 1996, , .		0
61	Treatment of Light Phenomena in the Context of Wave and Electromagnetic Optics. Journal of the Japan Society of Colour Material, 2016, 89, 93-97.	0.1	0