

Yasuyuki Ozeki

List of Publications by Year in descending order

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108
papers

3,508
citations

201674

27
h-index

144013

57
g-index

110
all docs

110
docs citations

110
times ranked

3143
citing authors

#	ARTICLE	IF	CITATIONS
1	Engineered Mutants of a Marine Photosynthetic Purple Nonsulfur Bacterium with Increased Volumetric Productivity of Polyhydroxyalkanoate Bioplastics. ACS Synthetic Biology, 2022, 11, 909-920.	3.8	5
2	Multicolor SRS imaging with wavelength-tunable/switchable lasers. , 2022, , 115-125.		0
3	Sensitivity and noise in SRS microscopy. , 2022, , 21-40.		0
4	Phase locking of squeezed vacuum generated by a single-pass optical parametric amplifier. Optics Express, 2022, 30, 8002.	3.4	6
5	Probing Methionine Uptake in Live Cells by Deuterium Labeling and Stimulated Raman Scattering. Journal of Physical Chemistry B, 2022, 126, 1633-1639.	2.6	8
6	Direct visualization of general anesthetic propofol on neurons by stimulated Raman scattering microscopy. IScience, 2022, 25, 103936.	4.1	10
7	Precise amplitude and phase matching by integrating spatial light modulation and digital holography for pulsed squeezing. , 2022, , .		1
8	Photoswitchable stimulated Raman scattering spectroscopy and microscopy. , 2022, , .		0
9	Multicolor stimulated Raman scattering microscopy and its applications. , 2022, , .		0
10	Phase locking scheme for squeezed vacuum generated by single-pass optical parametric amplifier. , 2022, , .		0
11	Numerical analysis of the effects of higher-order modes and loss in waveguide optical parametric amplifiers. , 2022, , .		0
12	High-speed multicolor stimulated Raman imaging. , 2022, , .		0
13	Stimulated Raman scattering spectroscopy with quantum-enhanced balanced detection. Optics Express, 2022, 30, 18589.	3.4	12
14	Multicolour chemical imaging of plant tissues with hyperspectral stimulated Raman scattering microscopy. Analyst, The, 2021, 146, 1234-1238.	3.5	15
15	Sensitive detection of alkyne-terminated hydrophobic drug by surface-enhanced stimulated Raman scattering in cetyltrimethylammonium bromide-coated gold nanorod suspensions. Applied Physics Express, 2021, 14, 032003.	2.4	5
16	Low-loss microscope optics with an axicon-based beam shaper. Applied Optics, 2021, 60, 2252.	1.8	4
17	Reduction of excess intensity noise of picosecond Yb soliton fiber lasers in a >10-mW power regime. Optics Express, 2021, 29, 11702.	3.4	8
18	Photoswitchable stimulated Raman scattering spectroscopy and microscopy. Optics Letters, 2021, 46, 2176.	3.3	27

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19	Alkyne-Tagged Dopamines as Versatile Analogue Probes for Dopaminergic System Analysis. <i>Analytical Chemistry</i> , 2021, 93, 9345-9355.	6.5	7
20	Super-multiplex imaging of cellular dynamics and heterogeneity by integrated stimulated Raman and fluorescence microscopy. <i>IScience</i> , 2021, 24, 102832.	4.1	27
21	Low-intensity-noise wavelength-tunable picosecond Yb fiber laser. <i>Japanese Journal of Applied Physics</i> , 2021, 60, 080902.	1.5	1
22	Probing the Biogenesis of Polysaccharide Granules in Algal Cells at Sub-Organellar Resolution via Raman Microscopy with Stable Isotope Labeling. <i>Analytical Chemistry</i> , 2021, 93, 16796-16803.	6.5	3
23	Raman image-activated cell sorting. <i>Nature Communications</i> , 2020, 11, 3452.	12.8	116
24	Multicolor Activatable Raman Probes for Simultaneous Detection of Plural Enzyme Activities. <i>Journal of the American Chemical Society</i> , 2020, 142, 20701-20707.	13.7	64
25	Cellular internalization mechanism of novel Raman probes designed for plant cells. <i>RSC Chemical Biology</i> , 2020, 1, 204-208.	4.1	5
26	Double modulation SRS and SREF microscopy: signal contributions under pre-resonance conditions. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 21421-21427.	2.8	10
27	Intelligent image-activated cell sorting 2.0. <i>Lab on A Chip</i> , 2020, 20, 2263-2273.	6.0	93
28	Virtual-freezing fluorescence imaging flow cytometry. <i>Nature Communications</i> , 2020, 11, 1162.	12.8	93
29	Molecular Vibrational Imaging by Coherent Raman Scattering. , 2020, , 37-74.		3
30	Quantum-enhanced balanced detection for ultrasensitive transmission measurement. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2020, 37, 3288.	2.1	21
31	Intelligent frequency-shifted optofluidic time-stretch quantitative phase imaging. <i>Optics Express</i> , 2020, 28, 519.	3.4	21
32	Molecular vibrational imaging by stimulated Raman scattering microscopy: principles and applications [Invited]. <i>Chinese Optics Letters</i> , 2020, 18, 121702.	2.9	13
33	Time-domain analysis on the pulsed squeezed vacuum detected with picosecond pulses. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2020, 37, 1535.	2.1	7
34	An Yb Fiber Laser Generating Multi-Milliwatt Picosecond Pulses with Nearly Shot-Noise-Limited Intensity Noise. , 2020, , .		0
35	Realization of ultra-low-loss microscopic optics for quantum-enhanced imaging. , 2020, , .		0
36	Isolating Single <i>Euglena gracilis</i> Cells by Glass Microfluidics for Raman Analysis of Paramylon Biogenesis. <i>Analytical Chemistry</i> , 2019, 91, 9631-9639.	6.5	27

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37	High-speed microparticle isolation unlimited by Poisson statistics. <i>Lab on A Chip</i> , 2019, 19, 2669-2677.	6.0	23
38	Label-free chemical imaging flow cytometry by high-speed multicolor stimulated Raman scattering. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 15842-15848.	7.1	130
39	A practical guide to intelligent image-activated cell sorting. <i>Nature Protocols</i> , 2019, 14, 2370-2415.	12.0	71
40	Imaging of cellular uptake of boron cluster compound by stimulated Raman scattering microscopy. <i>Applied Physics Express</i> , 2019, 12, 112004.	2.4	10
41	Label-free stimulated Raman scattering microscopy visualizes changes in intracellular morphology during human epidermal keratinocyte differentiation. <i>Scientific Reports</i> , 2019, 9, 12601.	3.3	18
42	Multicolor Stimulated Raman Scattering Microscopy With Fast Wavelength-Tunable Yb Fiber Laser. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2019, 25, 1-11.	2.9	75
43	Axicon-based beam shaping for low-loss nonlinear microscopic optics. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2019, 36, 1342.	2.1	9
44	Ghost imaging using a large-scale silicon photonic phased array chip. <i>Optics Express</i> , 2019, 27, 3817.	3.4	55
45	Synchronized subharmonic modulation in stimulated emission microscopy. <i>Optics Express</i> , 2019, 27, 27159.	3.4	5
46	Simple, stable, compact implementation of frequency-division-multiplexed microscopy by inline interferometry. <i>Optics Letters</i> , 2019, 44, 467.	3.3	6
47	Beam Shaping with Axicons for Low Loss Microscopy Optics. , 2019, , .		0
48	Functional Pulsed Fiber Lasers for Multicolor Stimulated Raman Scattering Microscopy. , 2019, , .		0
49	Comment on "Ghost cytometry" <i>Science</i> , 2019, 364, .	12.6	6
50	Optofluidic time-stretch microscopy: recent advances. <i>Optical Review</i> , 2018, 25, 464-472.	2.0	8
51	Octave Spanning Coherent Supercontinuum Comb Generation Based on Er-Doped Fiber Lasers and Their Characterization. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2018, 24, 1-9.	2.9	19
52	Optofluidic time-stretch quantitative phase microscopy. <i>Methods</i> , 2018, 136, 116-125.	3.8	35
53	Guest Editorial: Special Topic on Coherent Raman Spectroscopy and Imaging. <i>APL Photonics</i> , 2018, 3, 090401.	5.7	0
54	An Er fiber laser generating multi-milliwatt picosecond pulses with ultralow intensity noise. <i>Japanese Journal of Applied Physics</i> , 2018, 57, 108001.	1.5	6

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55	High-throughput imaging flow cytometry by optofluidic time-stretch microscopy. <i>Nature Protocols</i> , 2018, 13, 1603-1631.	12.0	112
56	Ultrafast confocal fluorescence microscopy beyond the fluorescence lifetime limit. <i>Optica</i> , 2018, 5, 117.	9.3	93
57	On-chip light-sheet fluorescence imaging flow cytometry at a high flow speed of 1 m/s. <i>Biomedical Optics Express</i> , 2018, 9, 3424.	2.9	35
58	High-Speed Imaging Meets Single-Cell Analysis. <i>CheM</i> , 2018, 4, 2278-2300.	11.7	37
59	Dual-polarization hyperspectral stimulated Raman scattering microscopy. <i>Applied Physics Letters</i> , 2018, 113, .	3.3	16
60	Intelligent Image-Activated Cell Sorting. <i>Cell</i> , 2018, 175, 266-276.e13.	28.9	395
61	Dual-polarization hyperspectral stimulated Raman scattering microscopy. , 2018, , .		0
62	Chemically-activatable alkyne-tagged probe for imaging microdomains in lipid bilayer membranes. <i>Scientific Reports</i> , 2017, 7, 41007.	3.3	26
63	High-throughput, label-free, single-cell, microalgal lipid screening by machine-learning-equipped optofluidic time-stretch quantitative phase microscopy. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2017, 91, 494-502.	1.5	60
64	Label-free detection of aggregated platelets in blood by machine-learning-aided optofluidic time-stretch microscopy. <i>Lab on A Chip</i> , 2017, 17, 2426-2434.	6.0	65
65	Label-free detection of cellular drug responses by high-throughput bright-field imaging and machine learning. <i>Scientific Reports</i> , 2017, 7, 12454.	3.3	78
66	Monitoring Photosynthetic Activity in Microalgal Cells by Raman Spectroscopy with Deuterium Oxide as a Tracking Probe. <i>ChemBioChem</i> , 2017, 18, 2063-2068.	2.6	9
67	GHz Optical Time-Stretch Microscopy by Compressive Sensing. <i>IEEE Photonics Journal</i> , 2017, 9, 1-8.	2.0	12
68	High-throughput, label-free, multivariate cell analysis with optofluidic time-stretch microscopy. , 2017, , .		2
69	High-Speed Label-Free Spectroscopic Biological Imaging Based on Stimulated Raman Scattering MicroscopyHigh-Speed Label-Free Spectroscopic Biological Imaging Based on Stimulated Raman Scattering MicroscopyHigh-Speed Label-Free Spectroscopic Biological Imaging Based on Stimulated Raman Scattering Microscopy. <i>The Review of Laser Engineering</i> , 2017, 45, 328.	0.0	0
70	Non-staining imaging of keratinocyte differentiation with stimulated Raman scattering microscopy. <i>Journal of Dermatological Science</i> , 2016, 84, e134-e135.	1.9	0
71	Generation of synchronized picosecond pulses by a 106-Åµm gain-switched laser diode for stimulated Raman scattering microscopy. <i>Optics Express</i> , 2016, 24, 9617.	3.4	7
72	High-throughput label-free image cytometry and image-based classification of live <i>Euglena gracilis</i> . <i>Biomedical Optics Express</i> , 2016, 7, 2703.	2.9	34

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73	In situ visualization of intracellular morphology of epidermal cells using stimulated Raman scattering microscopy. <i>Journal of Biomedical Optics</i> , 2016, 21, 1.	2.6	17
74	Probing the metabolic heterogeneity of live <i>Euglena gracilis</i> with stimulated Raman scattering microscopy. <i>Nature Microbiology</i> , 2016, 1, 16124.	13.3	105
75	High-Throughput Accurate Single-Cell Screening of <i>Euglena gracilis</i> with Fluorescence-Assisted Optofluidic Time-Stretch Microscopy. <i>PLoS ONE</i> , 2016, 11, e0166214.	2.5	23
76	High-throughput optofluidic particle profiling with morphological and chemical specificity. <i>Optics Letters</i> , 2015, 40, 4803.	3.3	28
77	Fast wavelength-tunable picosecond pulses from a passively mode-locked Er fiber laser using a galvanometer-driven intracavity filter. <i>Optics Express</i> , 2015, 23, 15186.	3.4	21
78	On-line visualization of multicolor chemical images with stimulated Raman scattering spectral microscopy. <i>Analyst</i> , 2015, 140, 2984-2987.	3.5	13
79	Label-free visualization of acetaminophen-induced liver injury by high-speed stimulated Raman scattering spectral microscopy and multivariate image analysis. <i>Pathology International</i> , 2014, 64, 518-526.	1.3	25
80	Stimulated Raman spectral microscope using synchronized Er- and Yb-fiber lasers. <i>Japanese Journal of Applied Physics</i> , 2014, 53, 052401.	1.5	17
81	RF spectral modulation caused by delayed interference and photodetection of optical noise. <i>Optical Review</i> , 2014, 21, 425-428.	2.0	0
82	Label-free medical imaging with high-speed stimulated Raman spectral microscopy. , 2013, , .		0
83	Femtosecond Laser Direct Joining of Copper with Polyethylene Terephthalate. <i>Materials Transactions</i> , 2013, 54, 926-930.	1.2	6
84	Sensitivity enhancement of fiber-laser-based stimulated Raman scattering microscopy by collinear balanced detection technique. <i>Optics Express</i> , 2012, 20, 13958.	3.4	74
85	Stimulated Raman hyperspectral imaging based on spectral filtering of broadband fiber laser pulses. <i>Optics Letters</i> , 2012, 37, 431.	3.3	73
86	High-speed molecular spectral imaging of tissue with stimulated Raman scattering. <i>Nature Photonics</i> , 2012, 6, 845-851.	31.4	421
87	Coherent raman fast spectral microscopy. , 2012, , .		0
88	<i>In situ</i> Micro-Raman Investigation of Spatio-Temporal Evolution of Heat in Ultrafast Laser Microprocessing of Glass. <i>Japanese Journal of Applied Physics</i> , 2012, 51, 102403.	1.5	16
89	Label-Free Biological Imaging Based on Stimulated Raman Scattering Microscopy. <i>The Review of Laser Engineering</i> , 2011, 39, 887-892.	0.0	0
90	Molecular discrimination imaging. <i>Nature Photonics</i> , 2011, 5, 71-72.	31.4	1

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91	Stimulated Raman scattering microscope with shot noise limited sensitivity using subharmonically synchronized laser pulses. <i>Optics Express</i> , 2010, 18, 13708.	3.4	109
92	Lateral Polarity Control in GaN Based on Selective Growth Procedure Using Carbon Mask Layers. <i>Applied Physics Express</i> , 2009, 2, 101001.	2.4	10
93	Depth-resolved observation of photoelastic effect by four-wave mixing microscopy. <i>Optical Review</i> , 2009, 16, 167-169.	2.0	3
94	Fabrication of diffractive optical elements inside polymers by femtosecond laser irradiation. <i>Thin Solid Films</i> , 2009, 518, 714-718.	1.8	10
95	Analysis and experimental assessment of the sensitivity of stimulated Raman scattering microscopy. <i>Optics Express</i> , 2009, 17, 3651.	3.4	275
96	Increasing diffraction efficiency by heating phase gratings formed by femtosecond laser irradiation in poly(methyl methacrylate). <i>Applied Physics Letters</i> , 2009, 94, .	3.3	21
97	Selective growth of GaN on sapphire substrates treated with focused femtosecond laser pulses. <i>Journal of Crystal Growth</i> , 2008, 310, 5278-5281.	1.5	3
98	Density characterization of femtosecond laser modification in polymers. <i>Applied Physics Letters</i> , 2008, 92, .	3.3	27
99	Broadband group delay dispersion compensation for a microscope objective lens with a specially-designed mechanical deformable mirror. <i>Optics Express</i> , 2008, 16, 2778.	3.4	4
100	Highly Sensitive Signal Detection in Stimulated Parametric Emission Microscopy Based on Two-Beam Interferometry. <i>Japanese Journal of Applied Physics</i> , 2008, 47, 8820-8824.	1.5	6
101	Characterization of bending-induced density change inside an optical fiber by use of four-wave mixing microscopy. , 2008, , .		0
102	Estimation of refractive index distribution inside transparent materials by use of four-wave mixing process. , 2007, , .		0
103	Estimation of refractive index distribution inside transparent materials by use of four-wave mixing process. , 2007, , .		0
104	External Synchronization of 160-GHz Optical Beat Signal by Optical Phase-Locked Loop Technique. <i>IEEE Photonics Technology Letters</i> , 2006, 18, 2457-2459.	2.5	14
105	Stationary rescaled pulse in dispersion-decreasing fiber for pedestal-free pulse compression. <i>Optics Letters</i> , 2006, 31, 1606.	3.3	37
106	Highly sensitive spectral interferometric four-wave mixing microscopy near the shot noise limit and its combination with two-photon excited fluorescence microscopy. <i>Optics Express</i> , 2006, 14, 11204.	3.4	17
107	Modulational Instability and Parametric Amplification Induced by Loss Dispersion in Optical Fibers. <i>Physical Review Letters</i> , 2004, 93, 163902.	7.8	61
108	Pictorial interpretation of quantum-enhanced measurements with wave functions. <i>Journal of the Optical Society of America B: Optical Physics</i> , 0, , .	2.1	2