Yasuyuki Ozeki

List of Publications by Year
in descending order

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	High-speed molecular spectral imaging of tissue with stimulated Raman scattering. Nature Photonics, 2012, 6, 845-851.	31.4	421
2	Intelligent Image-Activated Cell Sorting. Cell, 2018, 175, 266-276.e13.	28.9	395
3	Analysis and experimental assessment of the sensitivity of stimulated Raman scattering microscopy. Optics Express, 2009, 17, 3651.	3.4	275
4	Label-free chemical imaging flow cytometry by high-speed multicolor stimulated Raman scattering. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 15842-15848.	7.1	130
5	Raman image-activated cell sorting. Nature Communications, 2020, 11, 3452.	12.8	116
6	High-throughput imaging flow cytometry by optofluidic time-stretch microscopy. Nature Protocols, 2018, 13, 1603-1631.	12.0	112
7	Stimulated Raman scattering microscope with shot noise limited sensitivity using subharmonically synchronized laser pulses. Optics Express, 2010, 18, 13708.	3.4	109
8	Probing the metabolic heterogeneity of live Euglena gracilis with stimulated Raman scattering microscopy. Nature Microbiology, 2016, 1, 16124.	13.3	105
9	Ultrafast confocal fluorescence microscopy beyond the fluorescence lifetime limit. Optica, 2018, 5, 117.	9.3	93
10	Intelligent image-activated cell sorting 2.0. Lab on A Chip, 2020, 20, 2263-2273.	6.0	93
11	Virtual-freezing fluorescence imaging flow cytometry. Nature Communications, 2020, 11, 1162.	12.8	93
12	Label-free detection of cellular drug responses by high-throughput bright-field imaging and machine learning. Scientific Reports, 2017, 7, 12454.	3.3	78
13	Multicolor Stimulated Raman Scattering Microscopy With Fast Wavelength-Tunable Yb Fiber Laser. IEEE Journal of Selected Topics in Quantum Electronics, 2019, 25, 1-11.	2.9	75
14	Sensitivity enhancement of fiber-laser-based stimulated Raman scattering microscopy by collinear balanced detection technique. Optics Express, 2012, 20, 13958.	3.4	74
15	Stimulated Raman hyperspectral imaging based on spectral filtering of broadband fiber laser pulses. Optics Letters, 2012, 37, 431.	3.3	73
16	A practical guide to intelligent image-activated cell sorting. Nature Protocols, 2019, 14, 2370-2415.	12.0	71
17	Label-free detection of aggregated platelets in blood by machine-learning-aided optofluidic time-stretch microscopy. Lab on A Chip, 2017, 17, 2426-2434.	6.0	65
18	Multicolor Activatable Raman Probes for Simultaneous Detection of Plural Enzyme Activities. Journal of the American Chemical Society, 2020, 142, 20701-20707.	13.7	64

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19	Modulational Instability and Parametric Amplification Induced by Loss Dispersion in Optical Fibers. Physical Review Letters, 2004, 93, 163902.	7.8	61
20	Highâ€throughput, labelâ€free, singleâ€cell, microalgal lipid screening by machineâ€learningâ€equipped optofluidic timeâ€stretch quantitative phase microscopy. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2017, 91, 494-502.	1.5	60
21	Ghost imaging using a large-scale silicon photonic phased array chip. Optics Express, 2019, 27, 3817.	3.4	55
22	Stationary rescaled pulse in dispersion-decreasing fiber for pedestal-free pulse compression. Optics Letters, 2006, 31, 1606.	3.3	37
23	High-Speed Imaging Meets Single-Cell Analysis. CheM, 2018, 4, 2278-2300.	11.7	37
24	Optofluidic time-stretch quantitative phase microscopy. Methods, 2018, 136, 116-125.	3.8	35
25	On-chip light-sheet fluorescence imaging flow cytometry at a high flow speed of 1 m/s. Biomedical Optics Express, 2018, 9, 3424.	2.9	35
26	High-throughput label-free image cytometry and image-based classification of live Euglena gracilis. Biomedical Optics Express, 2016, 7, 2703.	2.9	34
27	High-throughput optofluidic particle profiling with morphological and chemical specificity. Optics Letters, 2015, 40, 4803.	3.3	28
28	Density characterization of femtosecond laser modification in polymers. Applied Physics Letters, 2008, 92, .	3.3	27
29	Isolating Single <i>Euglena gracilis</i> Cells by Glass Microfluidics for Raman Analysis of Paramylon Biogenesis. Analytical Chemistry, 2019, 91, 9631-9639.	6.5	27
30	Photoswitchable stimulated Raman scattering spectroscopy and microscopy. Optics Letters, 2021, 46, 2176.	3.3	27
31	Super-multiplex imaging of cellular dynamics and heterogeneity by integrated stimulated Raman and fluorescence microscopy. IScience, 2021, 24, 102832.	4.1	27
32	Chemically-activatable alkyne-tagged probe for imaging microdomains in lipid bilayer membranes. Scientific Reports, 2017, 7, 41007.	3.3	26
33	Labelâ€free visualization of acetaminophenâ€induced liver injury by highâ€speed stimulated <scp>R</scp>aman scattering spectral microscopy and multivariate image analysis. Pathology International, 2014, 64, 518-526.	1.3	25
34	High-speed microparticle isolation unlimited by Poisson statistics. Lab on A Chip, 2019, 19, 2669-2677.	6.0	23
35	High-Throughput Accurate Single-Cell Screening of Euglena gracilis with Fluorescence-Assisted Optofluidic Time-Stretch Microscopy. PLoS ONE, 2016, 11, e0166214.	2.5	23
36	Increasing diffraction efficiency by heating phase gratings formed by femtosecond laser irradiation in poly(methyl methacrylate). Applied Physics Letters, 2009, 94, .	3.3	21

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37	Fast wavelength-tunable picosecond pulses from a passively mode-locked Er fiber laser using a galvanometer-driven intracavity filter. Optics Express, 2015, 23, 15186.	3.4	21
38	Quantum-enhanced balanced detection for ultrasensitive transmission measurement. Journal of the Optical Society of America B: Optical Physics, 2020, 37, 3288.	2.1	21
39	Intelligent frequency-shifted optofluidic time-stretch quantitative phase imaging. Optics Express, 2020, 28, 519.	3.4	21
40	Octave Spanning Coherent Supercontinuum Comb Generation Based on Er-Doped Fiber Lasers and Their Characterization. IEEE Journal of Selected Topics in Quantum Electronics, 2018, 24, 1-9.	2.9	19
41	Label-free stimulated Raman scattering microscopy visualizes changes in intracellular morphology during human epidermal keratinocyte differentiation. Scientific Reports, 2019, 9, 12601.	3.3	18
42	Highly sensitive spectral interferometric four-wave mixing microscopy near the shot noise limit and its combination with two-photon excited fluorescence microscopy. Optics Express, 2006, 14, 11204.	3.4	17
43	Stimulated Raman spectral microscope using synchronized Er- and Yb-fiber lasers. Japanese Journal of Applied Physics, 2014, 53, 052401.	1.5	17
44	In situ visualization of intracellular morphology of epidermal cells using stimulated Raman scattering microscopy. Journal of Biomedical Optics, 2016, 21, 1.	2.6	17
45	Dual-polarization hyperspectral stimulated Raman scattering microscopy. Applied Physics Letters, 2018, 113, .	3.3	16
46	<i>In situ</i>Micro-Raman Investigation of Spatio-Temporal Evolution of Heat in Ultrafast Laser Microprocessing of Glass. Japanese Journal of Applied Physics, 2012, 51, 102403.	1.5	16
47	Multicolour chemical imaging of plant tissues with hyperspectral stimulated Raman scattering microscopy. Analyst, The, 2021, 146, 1234-1238.	3.5	15
48	External Synchronization of 160-GHz Optical Beat Signal by Optical Phase-Locked Loop Technique. IEEE Photonics Technology Letters, 2006, 18, 2457-2459.	2.5	14
49	On-line visualization of multicolor chemical images with stimulated Raman scattering spectral microscopy. Analyst, The, 2015, 140, 2984-2987.	3.5	13
50	Molecular vibrational imaging by stimulated Raman scattering microscopy: principles and applications [Invited]. Chinese Optics Letters, 2020, 18, 121702.	2.9	13
51	GHz Optical Time-Stretch Microscopy by Compressive Sensing. IEEE Photonics Journal, 2017, 9, 1-8.	2.0	12
52	Stimulated Raman scattering spectroscopy with quantum-enhanced balanced detection. Optics Express, 2022, 30, 18589.	3.4	12
53	Lateral Polarity Control in GaN Based on Selective Growth Procedure Using Carbon Mask Layers. Applied Physics Express, 2009, 2, 101001.	2.4	10
54	Fabrication of diffractive optical elements inside polymers by femtosecond laser irradiation. Thin Solid Films, 2009, 518, 714-718.	1.8	10

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55	Imaging of cellular uptake of boron cluster compound by stimulated Raman scattering microscopy. Applied Physics Express, 2019, 12, 112004.	2.4	10
56	Double modulation SRS and SREF microscopy: signal contributions under pre-resonance conditions. Physical Chemistry Chemical Physics, 2020, 22, 21421-21427.	2.8	10
57	Direct visualization of general anesthetic propofol on neurons by stimulated Raman scattering microscopy. IScience, 2022, 25, 103936.	4.1	10
58	Monitoring Photosynthetic Activity in Microalgal Cells by Raman Spectroscopy with Deuterium Oxide as a Tracking Probe. ChemBioChem, 2017, 18, 2063-2068.	2.6	9
59	Axicon-based beam shaping for low-loss nonlinear microscopic optics. Journal of the Optical Society of America B: Optical Physics, 2019, 36, 1342.	2.1	9
60	Optofluidic time-stretch microscopy: recent advances. Optical Review, 2018, 25, 464-472.	2.0	8
61	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
62	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
63	Generation of synchronized picosecond pulses by a 106-Âµm gain-switched laser diode for stimulated Raman scattering microscopy. Optics Express, 2016, 24, 9617.	3.4	7
64	Alkyne-Tagged Dopamines as Versatile Analogue Probes for Dopaminergic System Analysis. Analytical Chemistry, 2021, 93, 9345-9355.	6.5	7
65	Time-domain analysis on the pulsed squeezed vacuum detected with picosecond pulses. Journal of the Optical Society of America B: Optical Physics, 2020, 37, 1535.	2.1	7
66	Highly Sensitive Signal Detection in Stimulated Parametric Emission Microscopy Based on Two-Beam Interferometry. Japanese Journal of Applied Physics, 2008, 47, 8820-8824.	1.5	6
67	Femtosecond Laser Direct Joining of Copper with Polyethylene Terephthalate. Materials Transactions, 2013, 54, 926-930.	1.2	6
68	An Er fiber laser generating multi-milliwatt picosecond pulses with ultralow intensity noise. Japanese Journal of Applied Physics, 2018, 57, 108001.	1.5	6
69	Simple, stable, compact implementation of frequency-division-multiplexed microscopy by inline interferometry. Optics Letters, 2019, 44, 467.	3.3	6
70	Comment on â€œGhost cytometryâ€. Science, 2019, 364, .	12.6	6
71	Phase locking of squeezed vacuum generated by a single-pass optical parametric amplifier. Optics Express, 2022, 30, 8002.	3.4	6
72	Cellular internalization mechanism of novel Raman probes designed for plant cells. RSC Chemical Biology, 2020, 1, 204-208.	4.1	5

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73	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
74	Synchronized subharmonic modulation in stimulated emission microscopy. Optics Express, 2019, 27, 27159.	3.4	5
75	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
76	Broadband group delay dispersion compensation for a microscope objective lens with a specially-designed mechanical deformable mirror. Optics Express, 2008, 16, 2778.	3.4	4
77	Low-loss microscope optics with an axicon-based beam shaper. Applied Optics, 2021, 60, 2252.	1.8	4
78	Selective growth of GaN on sapphire substrates treated with focused femtosecond laser pulses. Journal of Crystal Growth, 2008, 310, 5278-5281.	1.5	3
79	Depth-resolved observation of photoelastic effect by four-wave mixing microscopy. Optical Review, 2009, 16, 167-169.	2.0	3
80	Molecular Vibrational Imaging by Coherent Raman Scattering. , 2020, , 37-74.		3
81	Probing the Biogenesis of Polysaccharide Granules in Algal Cells at Sub-Organellar Resolution via Raman Microscopy with Stable Isotope Labeling. Analytical Chemistry, 2021, 93, 16796-16803.	6.5	3
82	High-throughput, label-free, multivariate cell analysis with optofluidic time-stretch microscopy. , 2017, , .		2
83	Pictorial interpretation of quantum-enhanced measurements with wave functions. Journal of the Optical Society of America B: Optical Physics, 0, , .	2.1	2
84	Molecular discrimination imaging. Nature Photonics, 2011, 5, 71-72.	31.4	1
85	Low-intensity-noise wavelength-tunable picosecond Yb fiber laser. Japanese Journal of Applied Physics, 2021, 60, 080902.	1.5	1
86	Precise amplitude and phase matching by integrating spatial light modulation and digital holography for pulsed squeezing. , 2022, , .		1
87	Estimation of refractive index distribution inside transparent materials by use of four-wave mixing process. , 2007, , .		0
88	Estimation of refractive index distribution inside transparent materials by use of four-wave mixing process. , 2007, , .		0
89	Characterization of bending-induced density change inside an optical fiber by use of four-wave mixing microscopy. , 2008, , .		0
90	Label-Free Biological Imaging Based on Stimulated Raman Scattering Microscopy. The Review of Laser Engineering, 2011, 39, 887-892.	0.0	0

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91	Coherent raman fast spectral microscopy. , 2012, , .		0
92	Label-free medical imaging with high-speed stimulated Raman spectral microscopy. , 2013, , .		0
93	RF spectral modulation caused by delayed interference and photodetection of optical noise. Optical Review, 2014, 21, 425-428.	2.0	0
94	Non-staining imaging of keratinocyte differentiation with stimulated Raman scattering microscopy. Journal of Dermatological Science, 2016, 84, e134-e135.	1.9	0
95	Guest Editorial: Special Topic on Coherent Raman Spectroscopy and Imaging. APL Photonics, 2018, 3, 090401.	5.7	0
96	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. The Review of Laser Engineering, 2017, 45, 328.	0.0	0
97	Dual-polarization hyperspectral stimulated Raman scattering microscopy. , 2018, , .		0
98	Beam Shaping with Axicons for Low Loss Microscopy Optics. , 2019, , .		0
99	Functional Pulsed Fiber Lasers for Multicolor Stimulated Raman Scattering Microscopy. , 2019, , .		0
100	An Yb Fiber Laser Generating Multi-Milliwatt Picosecond Pulses with Nearly Shot-Noise-Limited Intensity Noise. , 2020, , .		0
101	Realization of ultra-low-loss microscopic optics for quantum-enhanced imaging. , 2020, , .		0
102	Multicolor SRS imaging with wavelength-tunable/switchable lasers. , 2022, , 115-125.		0
103	Sensitivity and noise in SRS microscopy. , 2022, , 21-40.		0
104	Photoswitchable stimulated Raman scattering spectroscopy and microscopy. , 2022, , .		0
105	Multicolor stimulated Raman scattering microscopy and its applications. , 2022, , .		0
106	Phase locking scheme for squeezed vacuum generated by single-pass optical parametric amplifier. , 2022, , .		0
107	Numerical analysis of the effects of higher-order modes and loss in waveguide optical parametric amplifiers. , 2022, , .		0
108	High-speed multicolor stimulated Raman imaging. , 2022, , .		0