

Katsumasa Fujita

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

130
papers

4,015
citations

33
h-index

60
g-index

157
ext. papers

4,838
ext. citations

5.5
avg, IF

5.33
L-index

#	Paper	IF	Citations
130	Spontaneous Raman and SERS microscopy for Raman tag imaging 2022 , 275-287		
129	Spectral focusing in picosecond pulsed stimulated Raman scattering microscopy.. <i>Biomedical Optics Express</i> , 2022 , 13, 995-1004	3.5	1
128	Saturated-excitation image scanning microscopy.. <i>Optics Express</i> , 2022 , 30, 13825-13838	3.3	
127	Bessel-beam illumination Raman microscopy. <i>Biomedical Optics Express</i> , 2022 , 13, 3161	3.5	0
126	Deep Tissue High-resolution and Background-free Imaging with Plasmonic SAX Microscopy. <i>Lecture Notes in Nanoscale Science and Technology</i> , 2022 , 419-435	0.3	
125	Hyperspectral two-photon excitation microscopy using visible wavelength. <i>Optics Letters</i> , 2021 , 46, 37-40		2
124	Super-resolved Raman microscopy using random structured light illumination: Concept and feasibility. <i>Journal of Chemical Physics</i> , 2021 , 155, 144202	3.9	1
123	Label-free monitoring of crystalline chitin hydrolysis by chitinase based on Raman spectroscopy. <i>Analyst, The</i> , 2021 , 146, 4087-4094	5	0
122	Detecting nitrile-containing small molecules by infrared photothermal microscopy. <i>Analyst, The</i> , 2021 , 146, 2307-2312	5	0
121	Multiwell Raman plate reader for high-throughput biochemical screening. <i>Scientific Reports</i> , 2021 , 11, 15742	4.9	0
120	Visible-Wavelength Multiphoton Activation Confocal Microscopy. <i>ACS Photonics</i> , 2021 , 8, 2666-2673	6.3	
119	Hot Carrier Generation in Two-Dimensional Silver Nanoparticle Arrays at Different Excitation Wavelengths under On-Resonant Conditions. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 13936-13941	3.8	2
118	Direct visualization of an antidepressant analog using surface-enhanced Raman scattering in the brain. <i>JCI Insight</i> , 2020 , 5,	9.9	8
117	Multiphoton-Excited Deep-Ultraviolet Photolithography for 3D Nanofabrication. <i>ACS Applied Nano Materials</i> , 2020 , 3, 11434-11441	5.6	6
116	Quantitative Drug Dynamics Visualized by Alkyne-Tagged Plasmonic-Enhanced Raman Microscopy. <i>ACS Nano</i> , 2020 , 14, 15032-15041	16.7	9
115	Dynamic pH measurements of intracellular pathways using nano-plasmonic assemblies. <i>Analyst, The</i> , 2020 , 145, 5768-5775	5	9
114	Nonlinear Scattering of Near-Infrared Light for Imaging Plasmonic Nanoparticles in Deep Tissue. <i>ACS Photonics</i> , 2020 , 7, 2139-2146	6.3	5

113	Surface Plasmon Localization-Based Super-resolved Raman Microscopy. <i>Nano Letters</i> , 2020 , 20, 8951-8958.5	6
112	Giant photothermal nonlinearity in a single silicon nanostructure. <i>Nature Communications</i> , 2020 , 11, 41017.4	15
111	Wavefront-sensorless adaptive optics with a laser-free spinning disk confocal microscope. <i>Journal of Microscopy</i> , 2020 ,	1.9 7
110	Quantitative Evaluation of Surface-Enhanced Raman Scattering Nanoparticles for Intracellular pH Sensing at a Single Particle Level. <i>Analytical Chemistry</i> , 2019 , 91, 3254-3262	7.8 41
109	High-Resolution Raman Microscopic Detection of Follicular Thyroid Cancer Cells with Unsupervised Machine Learning. <i>Journal of Physical Chemistry B</i> , 2019 , 123, 4358-4372	3.4 11
108	High-Throughput Cell Imaging and Classification by Narrowband and Low-Spectral-Resolution Raman Microscopy. <i>Journal of Physical Chemistry B</i> , 2019 , 123, 2654-2661	3.4 8
107	Raman spectroscopic histology using machine learning for nonalcoholic fatty liver disease. <i>FEBS Letters</i> , 2019 , 593, 2535-2544	3.8 8
106	Adaptive printing using VO ₂ optical antennas with subwavelength resolution. <i>Applied Physics Letters</i> , 2019 , 115, 161105	3.4 4
105	Visible-wavelength two-photon excitation microscopy with multifocus scanning for volumetric live-cell imaging. <i>Journal of Biomedical Optics</i> , 2019 , 25, 1-5	3.5 3
104	Super-Resolution Imaging in Raman Microscopy 2019 , 195-211	2
103	Using redox-sensitive mitochondrial cytochrome Raman bands for label-free detection of mitochondrial dysfunction. <i>Analyst, The</i> , 2019 , 144, 2531-2540	5 20
102	Visualizing Bioactive Small Molecules by Alkyne Tagging and Slit-Scanning Raman Microscopy. <i>Methods in Molecular Biology</i> , 2019 , 1888, 99-114	1.4
101	Micro-Raman Spectroscopy 2018 , 375-379	
100	Resolution enhancement in deep-tissue nanoparticle imaging based on plasmonic saturated excitation microscopy. <i>APL Photonics</i> , 2018 , 3, 031301	5.2 10
99	High-resolution imaging in two-photon excitation microscopy using estimations of the point spread function. <i>Biomedical Optics Express</i> , 2018 , 9, 202-213	3.5 17
98	Cell type discrimination based on image features of molecular component distribution. <i>Scientific Reports</i> , 2018 , 8, 11726	4.9 5
97	Raman Microscopy 2018 ,	1
96	Saturated excitation microscopy using differential excitation for efficient detection of nonlinear fluorescence signals. <i>APL Photonics</i> , 2018 , 3, 080805	5.2 10

95	Protein expression guided chemical profiling of living cells by the simultaneous observation of Raman scattering and anti-Stokes fluorescence emission. <i>Scientific Reports</i> , 2017 , 7, 43569	4.9	10
94	High-Speed and Scalable Whole-Brain Imaging in Rodents and Primates. <i>Neuron</i> , 2017 , 94, 1085-1100.e613.9	13.9	65
93	Au-Protected Ag Core/Satellite Nanoassemblies for Excellent Extra-/Intracellular Surface-Enhanced Raman Scattering Activity. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 44027-44037	9.5	13
92	Nonlinear plasmonic imaging techniques and their biological applications. <i>Nanophotonics</i> , 2017 , 6, 31-496.3	6.3	20
91	Saturated two-photon excitation fluorescence microscopy with core-ring illumination. <i>Optics Letters</i> , 2017 , 42, 571-574	3	17
90	Ultrasmall all-optical plasmonic switch and its application to superresolution imaging. <i>Scientific Reports</i> , 2016 , 6, 24293	4.9	34
89	Measurement of Scattering Nonlinearities from a Single Plasmonic Nanoparticle. <i>Journal of Visualized Experiments</i> , 2016 ,	1.6	2
88	High-speed Raman imaging of cellular processes. <i>Current Opinion in Chemical Biology</i> , 2016 , 33, 16-24	9.7	32
87	Deep-UV biological imaging by lanthanide ion molecular protection. <i>Biomedical Optics Express</i> , 2016 , 7, 158-70	3.5	23
86	Structured Illumination Raman Microscopy for High-Resolution Label-Free Imaging. <i>The Review of Laser Engineering</i> , 2016 , 44, 648	0	
85	Follow-up review: recent progress in the development of super-resolution optical microscopy. <i>Microscopy (Oxford, England)</i> , 2016 , 65, 275-81	1.3	6
84	Non-label immune cell state prediction using Raman spectroscopy. <i>Scientific Reports</i> , 2016 , 6, 37562	4.9	31
83	Alkyne-Tag SERS Screening and Identification of Small-Molecule-Binding Sites in Protein. <i>Journal of the American Chemical Society</i> , 2016 , 138, 13901-13910	16.4	52
82	Study of Nonlinear Plasmonic Scattering in Metallic Nanoparticles. <i>ACS Photonics</i> , 2016 , 3, 1432-1439	6.3	19
81	A sensitive and specific Raman probe based on bisarylbutadiyne for live cell imaging of mitochondria. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2015 , 25, 664-7	2.9	29
80	Time-lapse Raman imaging of osteoblast differentiation. <i>Scientific Reports</i> , 2015 , 5, 12529	4.9	31
79	An enzyme-responsive metal-enhanced near-infrared fluorescence sensor based on functionalized gold nanoparticles. <i>Chemical Science</i> , 2015 , 6, 4934-4939	9.4	16
78	Label-free Raman imaging of the macrophage response to the malaria pigment hemozoin. <i>Analyst, The</i> , 2015 , 140, 2350-9	5	14

77	A fast- and positively photoswitchable fluorescent protein for ultralow-laser-power RESOLFT nanoscopy. <i>Nature Methods</i> , 2015 , 12, 515-8	21.6	58
76	Sphingomyelin distribution in lipid rafts of artificial monolayer membranes visualized by Raman microscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 4558-63	11.5	85
75	Visible-wavelength two-photon excitation microscopy for fluorescent protein imaging. <i>Journal of Biomedical Optics</i> , 2015 , 20, 101202	3.5	16
74	Super-Spatial- and -Spectral-Resolution in Vibrational Imaging via Saturated Coherent Anti-Stokes Raman Scattering. <i>Physical Review Applied</i> , 2015 , 4,	4.3	20
73	Structured line illumination Raman microscopy. <i>Nature Communications</i> , 2015 , 6, 10095	17.4	62
72	Nonlinear fluorescence imaging by photoinduced charge separation. <i>Japanese Journal of Applied Physics</i> , 2015 , 54, 042403	1.4	7
71	Visualizing the appearance and disappearance of the attractor of differentiation using Raman spectral imaging. <i>Scientific Reports</i> , 2015 , 5, 11358	4.9	13
70	Analysis of dynamic SERS spectra measured with a nanoparticle during intracellular transportation in 3D. <i>Journal of Optics (United Kingdom)</i> , 2015 , 17, 114023	1.7	18
69	Dual-polarization Raman spectral imaging to extract overlapping molecular fingerprints of living cells. <i>Journal of Biophotonics</i> , 2015 , 8, 546-54	3.1	14
68	Raman microscopy: Chemical and analytical imaging of biomolecules 2015 ,		1
67	Measurement of a saturated emission of optical radiation from gold nanoparticles: application to an ultrahigh resolution microscope. <i>Physical Review Letters</i> , 2014 , 112, 017402	7.4	71
66	In situ Raman imaging of osteoblastic mineralization. <i>Journal of Raman Spectroscopy</i> , 2014 , 45, 157-161	2.3	11
65	Simultaneous imaging of protonated and deprotonated carbonyl cyanide p-trifluoromethoxyphenylhydrazone in live cells by Raman microscopy. <i>Chemical Communications</i> , 2014 , 50, 1341-3	5.8	33
64	Laser-targeted photofabrication of gold nanoparticles inside cells. <i>Nature Communications</i> , 2014 , 5, 5144	7.4	11
63	Saturation and Reverse Saturation of Scattering in a Single Plasmonic Nanoparticle. <i>ACS Photonics</i> , 2014 , 1, 32-37	6.3	39
62	Introduction to super-resolution microscopy. <i>Microscopy (Oxford, England)</i> , 2014 , 63, 177-92	1.3	75
61	3D SERS (surface enhanced Raman scattering) imaging of intracellular pathways. <i>Methods</i> , 2014 , 68, 348-53	4.5	34
60	Visualizing cell state transition using Raman spectroscopy. <i>PLoS ONE</i> , 2014 , 9, e84478	3.7	63

59	Multimodal label-free microscopy. <i>Journal of Innovative Optical Health Sciences</i> , 2014 , 07, 1330009	1.2	15
58	Point spread function analysis with saturable and reverse saturable scattering. <i>Optics Express</i> , 2014 , 22, 26016-22	3.3	15
57	Saturated excitation microscopy with optimized excitation modulation. <i>ChemPhysChem</i> , 2014 , 15, 743-9	3.2	10
56	Metal nanoparticles for nano-imaging and nano-analysis. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 13713-22	3.6	43
55	Molecular imaging of live cells by Raman microscopy. <i>Current Opinion in Chemical Biology</i> , 2013 , 17, 708-15	3.7	126
54	Feature-based recognition of surface-enhanced Raman spectra for biological targets. <i>Journal of Biophotonics</i> , 2013 , 6, 587-97	3.1	16
53	Raman and SERS microscopy for molecular imaging of live cells. <i>Nature Protocols</i> , 2013 , 8, 677-92	18.8	238
52	Improving spinning disk confocal microscopy by preventing pinhole cross-talk for intravital imaging. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 3399-404	11.5	61
51	Saturated excitation microscopy for sub-diffraction-limited imaging of cell clusters. <i>Journal of Biomedical Optics</i> , 2013 , 18, 126002	3.5	18
50	Saturated excitation of fluorescent proteins for subdiffraction-limited imaging of living cells in three dimensions. <i>Interface Focus</i> , 2013 , 3, 20130007	3.9	8
49	High-Resolution Fluorescence Imaging by Saturated Excitation (SAX): Its Principle and Imaging Properties in Biology. <i>The Review of Laser Engineering</i> , 2013 , 41, 113	0	
48	Metallic nanoparticles as SERS agents for biomolecular imaging. <i>Current Pharmaceutical Biotechnology</i> , 2013 , 14, 141-9	2.6	5
47	Alkyne-tag Raman imaging for visualization of mobile small molecules in live cells. <i>Journal of the American Chemical Society</i> , 2012 , 134, 20681-9	16.4	267
46	CARS Microscopy: Implementation of Nonlinear Vibrational Spectroscopy for Far-Field and Near-Field Imaging. <i>Springer Series in Optical Sciences</i> , 2012 , 317-346	0.5	
45	Imaging Small Molecules in Living Cells with a Tiny Tag and Raman Microscopy. <i>Seibutsu Butsuri</i> , 2012 , 52, 034-035	0	
44	Label-free Raman observation of cytochrome c dynamics during apoptosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 28-32	11.5	306
43	The molecular chaperone Hsp47 is essential for cartilage and endochondral bone formation. <i>Journal of Cell Science</i> , 2012 , 125, 1118-28	5.3	38
42	3PS037 Raman microscopy distinguishes the status of differentiating cell(The 50th Annual Meeting of the Biophysical Society of Japan). <i>Seibutsu Butsuri</i> , 2012 , 52, S152	0	

41	Dynamic SERS imaging of cellular transport pathways with endocytosed gold nanoparticles. <i>Nano Letters</i> , 2011 , 11, 5344-8	11.5	185
40	Imaging of EdU, an alkyne-tagged cell proliferation probe, by Raman microscopy. <i>Journal of the American Chemical Society</i> , 2011 , 133, 6102-5	16.4	238
39	Two-Photon Excited Fluorescence and Second-Harmonic Generation of the DAST Organic Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 8988-8993	3.8	36
38	SAX microscopy with fluorescent nanodiamond probes for high-resolution fluorescence imaging. <i>Biomedical Optics Express</i> , 2011 , 2, 1946-54	3.5	26
37	Nanoscale heating of laser irradiated single gold nanoparticles in liquid. <i>Optics Express</i> , 2011 , 19, 12375-83	3.3	63
36	1N1312 Time-resolved Raman imaging of malarial hemozoin (Bioimaging 1, The 49th Annual Meeting of the Biophysical Society of Japan). <i>Seibutsu Butsuri</i> , 2011 , 51, S66	0	2
35	Determination of the Expanded Optical Transfer Function in Saturated Excitation Imaging and High Harmonic Demodulation. <i>Applied Physics Express</i> , 2011 , 4, 042401	2.4	11
34	Comparison of staining selectivity for subcellular structures by carbazole-based cyanine probes in nonlinear optical microscopy. <i>ChemBioChem</i> , 2011 , 12, 52-5	3.8	24
33	Dendrimer adjusted nanocrystals of DAST: organic crystal with enhanced nonlinear optical properties. <i>Nanoscale</i> , 2010 , 2, 913-6	7.7	15
32	Metallic Nanoparticles for Enhanced Raman Imaging of Living Cells. <i>The Review of Laser Engineering</i> , 2010 , 38, 427-432	0	
31	Recent Developments in Super Resolution Fluorescence Microscopy. <i>Seibutsu Butsuri</i> , 2010 , 50, 174-179	0	1
30	Photogeneration of membrane potential hyperpolarization and depolarization in non-excitable cells. <i>European Biophysics Journal</i> , 2009 , 38, 255-62	1.9	25
29	On fluorescence blinking of single molecules in polymers. <i>Chemical Physics Letters</i> , 2009 , 468, 234-238	2.5	14
28	Time-resolved observation of surface-enhanced Raman scattering from gold nanoparticles during transport through a living cell. <i>Journal of Biomedical Optics</i> , 2009 , 14, 024038	3.5	62
27	Label-free biochemical imaging of heart tissue with high-speed spontaneous Raman microscopy. <i>Biochemical and Biophysical Research Communications</i> , 2009 , 382, 370-4	3.4	71
26	Multi-focus excitation coherent anti-Stokes Raman scattering (CARS) microscopy and its applications for real-time imaging. <i>Optics Express</i> , 2009 , 17, 9526-36	3.3	44
25	Beyond the diffraction-limit biological imaging by saturated excitation microscopy. <i>Journal of Biomedical Optics</i> , 2008 , 13, 050507	3.5	28
24	Raman microscopy for dynamic molecular imaging of living cells. <i>Journal of Biomedical Optics</i> , 2008 , 13, 044027	3.5	191

23	Optical trapping and surgery of living yeast cells using a single laser. <i>Review of Scientific Instruments</i> , 2008 , 79, 103705	1.7	37
22	1P-335 An optical pacemaker for heart muscle cells(The 46th Annual Meeting of the Biophysical Society of Japan). <i>Seibutsu Butsuri</i> , 2008 , 48, S74	○	
21	1P-340 An optical pacemaker for heart muscle cells : the laser irradiation power, phase, frequency dependencies(The 46th Annual Meeting of the Biophysical Society of Japan). <i>Seibutsu Butsuri</i> , 2008 , 48, S74-S75	○	
20	2P-325 Formation of gold nanoparticles in living cells by reduction of gold ion solution(The 46th Annual Meeting of the Biophysical Society of Japan). <i>Seibutsu Butsuri</i> , 2008 , 48, S125	○	
19	Label-free molecular imaging of living cells. <i>Molecules and Cells</i> , 2008 , 26, 530-5	3.5	29
18	High-resolution confocal microscopy by saturated excitation of fluorescence. <i>Physical Review Letters</i> , 2007 , 99, 228105	7.4	148
17	3P304 Surface enhanced Raman spectroscopy of living cells with gold nanoparticles(Bioimaging. The genesis of life, and biological evolution,Oral Presentations). <i>Seibutsu Butsuri</i> , 2007 , 47, S279	○	
16	Location-dependent photogeneration of calcium waves in HeLa cells. <i>Cell Biochemistry and Biophysics</i> , 2006 , 45, 167-76	3.2	32
15	New Development in Nonlinear Optical Microscopy. <i>The Review of Laser Engineering</i> , 2006 , 34, 818-821	○	
14	Multiphoton excitation-evoked chromophore-assisted laser inactivation using green fluorescent protein. <i>Nature Methods</i> , 2005 , 2, 503-5	21.6	59
13	Time-gated imaging for multifocus second-harmonic generation microscopy. <i>Review of Scientific Instruments</i> , 2005 , 76, 073704	1.7	4
12	Single-pulse cell stimulation with a near-infrared picosecond laser. <i>Applied Physics Letters</i> , 2005 , 87, 243901	3.01	5
11	In situ visualization of the intracellular Ca ²⁺ dynamics at the border of the acute myocardial infarct. <i>Molecular and Cellular Biochemistry</i> , 2003 , 248, 135-9	4.2	17
10	Realtime Nonlinear-Optical Microscopy for Observing Biological Cells. <i>The Review of Laser Engineering</i> , 2003 , 31, 370-374	○	
9	Second-harmonic-generation microscope with a microlens array scanner. <i>Optics Letters</i> , 2002 , 27, 1324-63		67
8	Real-Time Two-Photon Microscopy and Its Application for In Situ Imaging.. <i>Acta Histochemica Et Cytochemica</i> , 2001 , 34, 399-403	1.9	10
7	Generation of calcium waves in living cells by pulsed-laser-induced photodisruption. <i>Applied Physics Letters</i> , 2001 , 79, 1208-1210	3.4	66
6	Three-dimensional subsurface microprocessing of collagen by ultrashort laser pulses. <i>Applied Physics Letters</i> , 2001 , 78, 999-1001	3.4	23

5	Confocal multipoint multiphoton excitation microscope with microlens and pinhole arrays. <i>Optics Communications</i> , 2000 , 174, 7-12	2	37
4	Temporal coherence behavior of a semiconductor laser under strong optical feedback. <i>Optics Communications</i> , 1999 , 161, 123-131	2	11
3	Double-Pass Confocal Absorption Microscope with a Phase Conjugation Mirror. <i>Japanese Journal of Applied Physics</i> , 1996 , 35, L852-L853	1.4	4
2	Laser Feedback Microscopy Controlling the Laser Oscillation of Semiconductor Laser by Reentered Light.. <i>The Review of Laser Engineering</i> , 1996 , 24, 1084-1090	0	1
1	Mie-enhanced photothermal/thermo-optical nonlinearity and applications on all-optical switch and super-resolution imaging. <i>Optical Materials Express</i> ,	2.6	2