

Takeo Minamikawa

List of Publications by Year in descending order

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146
papers

1,189
citations

331259

21
h-index

414034

32
g-index

150
all docs

150
docs citations

150
times ranked

1220
citing authors

#	ARTICLE	IF	CITATIONS
1	Scan-less confocal phase imaging based on dual-comb microscopy. <i>Optica</i> , 2018, 5, 634.	4.8	70
2	Dual-comb spectroscopic ellipsometry. <i>Nature Communications</i> , 2017, 8, 610.	5.8	64
3	Quantitative evaluation of SARS-CoV-2 inactivation using a deep ultraviolet light-emitting diode. <i>Scientific Reports</i> , 2021, 11, 5070.	1.6	56
4	Multi-focus excitation coherent anti-Stokes Raman scattering (CARS) microscopy and its applications for real-time imaging. <i>Optics Express</i> , 2009, 17, 9526.	1.7	52
5	Measurement of absolute frequency of continuous-wave terahertz radiation in real time using a free-running, dual-wavelength mode-locked, erbium-doped fibre laser. <i>Scientific Reports</i> , 2017, 7, 42082.	1.6	50
6	Dynamic terahertz spectroscopy of gas molecules mixed with unwanted aerosol under atmospheric pressure using fibre-based asynchronous-optical-sampling terahertz time-domain spectroscopy. <i>Scientific Reports</i> , 2016, 6, 28114.	1.6	49
7	Scan-less hyperspectral dual-comb single-pixel-imaging in both amplitude and phase. <i>Optics Express</i> , 2017, 25, 21947.	1.7	46
8	Recent advances in photodynamic diagnosis of gastric cancer using 5-aminolevulinic acid. <i>World Journal of Gastroenterology</i> , 2016, 22, 1289.	1.4	45
9	Dual terahertz comb spectroscopy with a single free-running fibre laser. <i>Scientific Reports</i> , 2018, 8, 11155.	1.6	39
10	Adaptive-sampling near-Doppler-limited terahertz dual-comb spectroscopy with a free-running single-cavity fiber laser. <i>Advanced Photonics</i> , 2020, 2, 1.	6.2	38
11	Ex vivo peripheral nerve detection of rats by spontaneous Raman spectroscopy. <i>Scientific Reports</i> , 2015, 5, 17165.	1.6	35
12	A new method of lectin histochemistry for the study of brain angiogenesis. <i>Histochemistry</i> , 1987, 87, 317-320.	1.9	33
13	Label-free detection of peripheral nerve tissues against adjacent tissues by spontaneous Raman microspectroscopy. <i>Histochemistry and Cell Biology</i> , 2013, 139, 181-193.	0.8	33
14	Label-free Evaluation of Myocardial Infarct in Surgically Excised Ventricular Myocardium by Raman Spectroscopy. <i>Scientific Reports</i> , 2018, 8, 14671.	1.6	33
15	Refractive-index-sensing optical comb based on photonic radio-frequency conversion with intracavity multi-mode interference fiber sensor. <i>Optics Express</i> , 2018, 26, 19694.	1.7	30
16	Jitter reduction of two synchronized picosecond mode-locked lasers using balanced cross-correlator with two-photon detectors. <i>Applied Physics Letters</i> , 2006, 89, 191101.	1.5	29
17	Label-Free Evaluation of Myocardial Infarction and Its Repair by Spontaneous Raman Spectroscopy. <i>Analytical Chemistry</i> , 2014, 86, 6903-6910.	3.2	28
18	Differences in features of calcium transients between the nucleus and the cytosol in cultured heart muscle cells: analyzed by confocal microscopy. <i>Cell Calcium</i> , 1995, 17, 165-176.	1.1	26

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19	Photoacoustic microscopy using ultrashort pulses with two different pulse durations. <i>Optics Express</i> , 2014, 22, 17063.	1.7	24
20	Molecular imaging analysis of microvesicular and macrovesicular lipid droplets in non-alcoholic fatty liver disease by Raman microscopy. <i>Scientific Reports</i> , 2020, 10, 18548.	1.6	24
21	Detection of Lymph Node Metastases in Human Colorectal Cancer by Using 5-Aminolevulinic Acid-Induced Protoporphyrin IX Fluorescence with Spectral Unmixing. <i>International Journal of Molecular Sciences</i> , 2013, 14, 23140-23152.	1.8	23
22	Label-free detection of myocardial ischaemia in the perfused rat heart by spontaneous Raman spectroscopy. <i>Scientific Reports</i> , 2017, 7, 42401.	1.6	22
23	Real-Time Amplitude and Phase Imaging of Optically Opaque Objects by Combining Full-Field Off-Axis Terahertz Digital Holography with Angular Spectrum Reconstruction. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2018, 39, 561-572.	1.2	22
24	Strain sensing based on strain to radio-frequency conversion of optical frequency comb. <i>Optics Express</i> , 2018, 26, 9484.	1.7	20
25	Fast spectral coherent anti-Stokes Raman scattering microscopy with high-speed tunable picosecond laser. <i>Journal of Biomedical Optics</i> , 2013, 18, 1.	1.4	19
26	Refractive index sensing with temperature compensation by a multimode-interference fiber-based optical frequency comb sensing cavity. <i>Optics Express</i> , 2019, 27, 21463.	1.7	19
27	Terahertz Frequency-Domain Spectroscopy of Low-Pressure Acetonitrile Gas by a Photomixing Terahertz Synthesizer Referenced to Dual Optical Frequency Combs. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2016, 37, 903-915.	1.2	16
28	Multicascade-linked synthetic wavelength digital holography using an optical-comb-referenced frequency synthesizer. <i>Optics Express</i> , 2018, 26, 26292.	1.7	16
29	Simplified and optimized multispectral imaging for 5-ALA-based fluorescence diagnosis of malignant lesions. <i>Scientific Reports</i> , 2016, 6, 25530.	1.6	15
30	Full-field fluorescence lifetime dual-comb microscopy using spectral mapping and frequency multiplexing of dual-comb optical beats. <i>Science Advances</i> , 2021, 7, .	4.7	14
31	Highly sensitive fluorescence detection of metastatic lymph nodes of gastric cancer with photo-oxidation of protoporphyrin IX. <i>European Journal of Surgical Oncology</i> , 2016, 42, 1236-1246.	0.5	12
32	Photo-Induced Cell Damage Analysis for Single- and Multifocus Coherent Anti-Stokes Raman Scattering Microscopy. <i>Journal of Spectroscopy</i> , 2017, 2017, 1-8.	0.6	10
33	Improvement of dynamic range and repeatability in a refractive-index-sensing optical comb by combining saturable-absorber-mirror mode-locking with an intracavity multimode interference fiber sensor. <i>Japanese Journal of Applied Physics</i> , 2019, 58, 060912.	0.8	10
34	Evaluation of the histological and mechanical features of tendon healing in a rabbit model with the use of second-harmonic-generation imaging and tensile testing. <i>Bone and Joint Research</i> , 2016, 5, 577-585.	1.3	9
35	In situ time-series monitoring of collagen fibers produced by standing-cultured osteoblasts using a second-harmonic-generation microscope. <i>Applied Optics</i> , 2016, 55, 3261.	0.9	9
36	Analytical imaging of colour pigments used in Japanese woodblock prints using Raman microspectroscopy. <i>Journal of Raman Spectroscopy</i> , 2017, 48, 1887-1895.	1.2	8

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37	Inactivation of SARS-CoV-2 by deep ultraviolet light emitting diode: A review. Japanese Journal of Applied Physics, 2021, 60, 090501.	0.8	8
38	Visualization of internal structure and internal stress in visibly opaque objects using full-field phase-shifting terahertz digital holography. Optics Express, 2019, 27, 33854.	1.7	8
39	Real-time imaging of laser-induced membrane disruption of a living cell observed with multifocus coherent anti-Stokes Raman scattering microscopy. Journal of Biomedical Optics, 2011, 16, 1.	1.4	7
40	Spectral Fingerprinting of Individual Cells Visualized by Cavity-Reflection-Enhanced Light-Absorption Microscopy. PLoS ONE, 2015, 10, e0125733.	1.1	7
41	Computationally image-corrected dual-comb microscopy with a free-running single-cavity dual-comb fiber laser. Optics Express, 2021, 29, 5018.	1.7	7
42	Optical image amplification in dual-comb microscopy. Scientific Reports, 2020, 10, 8338.	1.6	6
43	Ultrasonic wave sensing using an optical-frequency-comb sensing cavity for photoacoustic imaging. OSA Continuum, 2019, 2, 439.	1.8	6
44	Optical-frequency-comb based ultrasound sensor. , 2017, , .		5
45	Two- and three-photon excitable quaternized imidazo[1,2-a]pyridines as mitochondrial imaging and potent cancer therapy agents. Organic and Biomolecular Chemistry, 2020, 18, 7571-7576.	1.5	5
46	Two-photon excitable boron complex based on tridentate imidazo[1,5-a]pyridine ligand for heavy-atom-free mitochondria-targeted photodynamic therapy. RSC Advances, 2021, 11, 26403-26407.	1.7	5
47	Accumulation of Uroporphyrin I in Necrotic Tissues of Squamous Cell Carcinoma after Administration of 5-Aminolevulinic Acid. International Journal of Molecular Sciences, 2021, 22, 10121.	1.8	5
48	Quantitative in situ time-series evaluation of osteoblastic collagen synthesis under cyclic strain using second-harmonic-generation microscopy. Journal of Biomedical Optics, 2019, 24, 1.	1.4	5
49	Lock-in-detection dual-comb spectroscopy. OSA Continuum, 2019, 2, 1998.	1.8	5
50	Ultralow-frequency ultranarrow-bandwidth coherent terahertz imaging for nondestructive testing of mortar material. Optics Express, 2022, 30, 4392.	1.7	5
51	Photonic-Crystal-Fiber-Coupled, Hand-Held, Polarization-Resolved Second-Harmonic-Generation Microscope for <i>In Vivo</i> Visualization of Dermal Collagen Fibers in Human Skin. IEEE Journal of Selected Topics in Quantum Electronics, 2019, 25, 1-7.	1.9	4
52	Preparation of Hierarchically Assembled Silver Nanostructures based on the Morphologies of Crystalline Peptide-Silver(I) Complexes. ChemPlusChem, 2019, 84, 295-301.	1.3	4
53	Molecular Orientation Imaging of Liquid Crystals by Tunable-Polarization-Mode Coherent Anti-Stokes Raman Scattering Microscopy. Applied Physics Express, 2013, 6, 072401.	1.1	3
54	Real-time absolute frequency measurement of continuous-wave terahertz radiation using a free-running, dual-wavelength, dual-comb mode-locked fiber laser. , 2016, , .		3

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55	Assessment of Ultra-Early-Stage Liver Fibrosis in Human Non-Alcoholic Fatty Liver Disease by Second-Harmonic Generation Microscopy. International Journal of Molecular Sciences, 2022, 23, 3357.	1.8	3
56	Multi-focus CARS microscopy using microlens array scanner for realtime molecular spectral imaging. , 2009, , .		2
57	Photo-induced cell damage analysis for multi-focus CARS microscopy. , 2011, , .		2
58	Real-Time Determination of Absolute Frequency in Continuous-Wave Terahertz Radiation with a Photocarrier Terahertz Frequency Comb Induced by an Unstabilized Femtosecond Laser. Journal of Infrared, Millimeter, and Terahertz Waves, 2016, 37, 473-485.	1.2	2
59	Scan-less, line-field confocal microscopy by combination of wavelength/space conversion with dual optical comb. , 2016, , .		2
60	Multicascade-linked synthetic-wavelength digital holography using a line-by-line spectral-shaped optical frequency comb. Optics Express, 2021, 29, 15772.	1.7	2
61	Quantitative Evaluation of Both Histological and Mechanical Recovery in Injured Tendons Using Fourier-Transform Second-Harmonic-Generation Microscopy. IEEE Journal of Selected Topics in Quantum Electronics, 2021, 27, 1-8.	1.9	2
62	Terahertz dual-comb spectroscopy with a free-running, dual-wavelength-comb fiber laser. , 2017, , .		2
63	Strain Sensing with a Disturbance/RF-Converting Fiber Comb Cavity. , 2016, , .		2
64	Dynamic characterization of polarization property in liquid-crystal-on-silicon spatial light modulator using dual-comb spectroscopic polarimetry. Optics Express, 2020, 28, 23584.	1.7	2
65	Beam-angle-scanning surface plasmon resonance sensor for rapid, high-precision sensing of refractive index and bio-molecules. , 2022, 1, 565.		2
66	Multifocus CARS microscopy for realtime vibrational imaging. Proceedings of SPIE, 2009, , .	0.8	1
67	High-speed CARS spectral imaging using acousto optic tunable filter. , 2010, , .		1
68	Real-time molecular imaging of organelles in living cell by multifocus excitation CARS microscope. Proceedings of SPIE, 2010, , .	0.8	1
69	Development of polarization-mode controllable CARS microscope. Proceedings of SPIE, 2011, , .	0.8	1
70	Raman microspectroscopy for visualization of peripheral nerves. Proceedings of SPIE, 2013, , .	0.8	1
71	Coherent Anti-Stokes Raman Scattering Microscopy for High Speed Non- Staining Biomolecular Imaging. Current Pharmaceutical Biotechnology, 2013, 14, 150-158.	0.9	1
72	Scanless confocal phase imaging with dual comb microscopy. , 2017, , .		1

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73	Efficient fluorescence detection of protoporphyrin IX in metastatic lymph nodes of murine colorectal cancer stained with indigo carmine. <i>Photodiagnosis and Photodynamic Therapy</i> , 2017, 19, 175-180.	1.3	1
74	In situ monitoring of collagen fibers in human skin using a photonic-crystal-fiber-coupled, hand-held, second-harmonic-generation microscope. <i>Proceedings of SPIE</i> , 2017, , .	0.8	1
75	Application of Scan-less Two-Dimensional Confocal Microscopy Based on a Combination of Confocal Slit With Wavelength/Space Conversion. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2019, 25, 1-7.	1.9	1
76	Scan-Less, Kilo-Pixel, Line-Field Confocal Phase Imaging with Spectrally Encoded Dual-Comb Microscopy. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2019, 25, 1-8.	1.9	1
77	Synthesis and Optical Properties of Quadrupolar Pyridinium Salt and Its Application as Bioimaging Agent. <i>Chemistry Letters</i> , 2020, 49, 1487-1489.	0.7	1
78	Application of Refractive-index-sensing Optical Frequency Comb for Biosensing of Antigen-antibody Reaction. , 2021, , .		1
79	Hybrid optical imaging with near-infrared, mid-infrared, and terahertz wavelengths for nondestructive inspection [Invited]. <i>Applied Optics</i> , 2021, 60, B100.	0.9	1
80	Adaptive Sampling Terahertz Dual-Comb Spectroscopy Based on a Free-Running Single-Cavity Dual-Comb Fiber Laser. , 2019, , .		1
81	Digital holography using multiple synthesized wavelengths cascaded by optical frequency synthesizer. , 2017, , .		1
82	Rapid and accurate peripheral nerve detection using multipoint Raman imaging (Conference) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 382		1
83	Coherent anti-stokes Raman scattering microscopy for high speed non- staining biomolecular imaging. <i>Current Pharmaceutical Biotechnology</i> , 2013, 14, 150-8.	0.9	1
84	Lipids distribution imaging of lipid vesicles by multi-focus excitation CARS microscope. <i>Proceedings of SPIE</i> , 2009, , .	0.8	0
85	C6-P-07Spectral fingerprinting of individual cells visualized by cavity-reflection-enhanced light-absorption microscopy. <i>Microscopy (Oxford, England)</i> , 2015, 64, i143.2-i143.	0.7	0
86	Off-axis THz digital holography by use of THz quantum cascade laser and uncooled micro-bolometer array detector. , 2016, , .		0
87	Real-time absolute frequency measurement of CW-THz radiation using dual THz combs induced by a free-running, dual-wavelength, mode-locked fiber laser. , 2016, , .		0
88	Observation of tendon repair in animal model using second-harmonic-generation microscopy. , 2016, , .		0
89	Development of molecular distribution analysis method of color pigments on Japanese woodblock prints by Raman spectral-imagin. <i>Journal of the Japan Society of Information and Knowledge</i> , 2016, 26, 1-10.	0.0	0
90	In situ quantitative evaluation of osteoblastic collagen synthesis under cyclic strain by using second-harmonic-generation microscope. , 2016, , .		0

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91	One shot confocal microscopy based on wavelength/space conversion by use of multichannel spectrometer. , 2016, , .		0
92	Hyperspectral single-pixel imaging with dual optical combs. Proceedings of SPIE, 2017, , .	0.8	0
93	Orientation analysis of collagen fibers in healing tendon by using second-harmonic-generation microscopy. , 2017, , .		0
94	Raman spectroscopic detection of peripheral nerves towards nerve-sparing surgery. , 2017, , .		0
95	Amplitude and phase imaging of visibly opaque object by THz digital holography. , 2017, , .		0
96	Asynchronous-Optical-Sampling THz time-domain spectroscopy with a free-running, dual-wavelength mode-locked fiber laser. , 2017, , .		0
97	Shape measurement by cascade link multi-wavelength digital holography using optical frequency comb referenced synthesizer. , 2017, , .		0
98	Real-time multi-wavelength digital holography using line-by-line spectral shaping of optical frequency comb. , 2018, , .		0
99	Photo-acoustic sensing with fiber-based optical frequency comb cavity. , 2018, , .		0
100	Combination of Adaptive Sampling Terahertz Dual-Comb Spectroscopy with a Free-Running Single-Cavity Dual-Comb Fiber Laser. , 2019, , .		0
101	Raman Spectroscopic Evaluation of Human Myocardial Infarction. , 2019, , .		0
102	Laser-Scanning Optical-Frequency-Comb Spectromicroscopy. , 2019, , .		0
103	Synthesis of Dâ€™Ë‰A type benzothiazoleâ€™ pyridinium salt composite and its application as photo-degradation agent for amyloid fibrils. Bioorganic and Medicinal Chemistry Letters, 2021, 50, 128324.	1.0	0
104	602 Label-free, high-speed imaging with real-time CARS microscope. The Proceedings of Conference of Kansai Branch, 2008, 2008.83, _6-2_.	0.0	0
105	B201 Label-free and real-time CARS imaging of living cell reactions in laser-induced ablation. The Proceedings of the JSME Conference on Frontiers in Bioengineering, 2009, 2009.20, 93-94.	0.0	0
106	7D31 Development of CARS microscopy using picosecond high speed wavelength scanning laser. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2012, 2012.24, _7D31-1_-_7D31-2_.	0.0	0
107	Photodynamic Detection of Lymph Node Metastases in Gastrointestinal Cancer by Using 5-Aminolevulinic Acid. , 2015, , 267-278.		0
108	Scan-less, Line-field, Confocal Microscopy Based on Dimensional-Conversion Optical Frequency Comb. , 2016, , .		0

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109	Multiple-synthesized-wavelengths digital holography using optical frequency synthesizer. , 2016, , .		0
110	Dual-Optical-Comb Spectroscopic Ellipsometry. , 2016, , .		0
111	Video-rate volume imaging confocal microscope based on wavelength / space conversion by use of multichannel spectrometer. , 2016, , .		0
112	Off-axis digital holography in THz region. , 2017, , .		0
113	Development of confocal laser scanning microscopy by use of optical frequency comb. , 2017, , .		0
114	Dual-comb single-pixel imaging for scan-less hyperspectral imaging. , 2017, , .		0
115	Simple and optimum background-free estimation method of PPIX fluorescence for 5-ALA-based fluorescence diagnosis of malignant lesions. , 2017, , .		0
116	Analysis of collagen fiber orientation using rapidly-polarization-modulated second-harmonic-generation microscopy. , 2018, , .		0
117	Fourier transform spectroscopic optical microscopy using dual-comb spectroscopic technique. , 2018, , .		0
118	Use of Lock-in Detection in Dual-Comb Spectroscopy. , 2018, , .		0
119	Static and dynamic strain sensing over 3.5 kHz with fiber-based optical frequency comb cavity. , 2018, , .		0
120	Refractive-index-sensing RF comb using intra-cavity multi-mode interference fiber sensor. , 2018, , .		0
121	Refractive index measurement based on disturbance to RF conversion function in a fiber OFC cavity. , 2018, , .		0
122	Dual-Comb Microscopy for Scanless Confocal Phase Imaging. , 2018, , .		0
123	Dual-comb single-pixel imaging in both amplitude and phase. , 2018, , .		0
124	Multi-dynamic range compressional wave detection using optical-frequency-comb. , 2018, , .		0
125	Video-rate confocal phase imaging by use of scan-less dual comb microscopy. , 2018, , .		0
126	Refractive-index-sensing fiber comb using intracavity multi-mode interference fiber sensor. , 2018, , .		0

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127	Quantitative in situ time-series evaluation of osteoblastic collagen synthesis under cyclic strain using second-harmonic-generation microscopy. , 2018, , .		0
128	In vivo visualization of dermal collagen fibers in human skin using a photonic-crystal-fiber-coupled, hand-held second-harmonic-generation microscope. , 2018, , .		0
129	Quantitative evaluation of healing degree in injured tendons based on orientation analysis of collagen fibers by using Fourier-transform second-harmonic-generation microscopy and its relationship to mechanical property. , 2018, , .		0
130	Scan-less, line-filed, confocal phase imaging with dual-comb microscopy. , 2018, , .		0
131	Analysis of collagen fiber orientation in biological tissues using polarization-resolved second-harmonic-generation microscopy. , 2018, , .		0
132	Application of scan-less two-dimensional confocal microscopy achieved by a combination of confocal slit with wavelength/space conversion. , 2018, , .		0
133	Improvement of Image Quality in Dual-Comb Microscopy by Post-Amplification of Dual Comb Lights. , 2019, , .		0
134	Post-optical-amplification of Confocal Amplitude and Phase Images in Scan-less Confocal Dual-Comb Microscopy. , 2019, , .		0
135	Cascade-Linked Multi-Synthetic-Wavelength Digital Holography Using Line-by-Line Spectral Shaping Optical Frequency Comb. , 2019, , .		0
136	Combination of Lock-in Detection with Dual-Comb Spectroscopy. , 2019, , .		0
137	Simultaneous measurement of concentration and temperature in liquid sample using multi-mode interference fiber comb. , 2019, , .		0
138	Lens-less fiber coupling of a 1550-nm mode-locked fiber laser light on a low-temperature-grown GaAs photoconductive antenna. OSA Continuum, 2019, 2, 1310.	1.8	0
139	Wide axial dynamic range digital holography using multicascade-linked synthetic wavelengths and optical wavelength. , 2019, , .		0
140	Scan-less confocal phase imaging of biological samples using dual-comb microscopy. , 2019, , .		0
141	Combination of lock-in detection with dual-comb spectroscopy. , 2019, , .		0
142	Refractive index sensor based on a combination of optical frequency comb with intracavity multi-mode interference fiber sensor. , 2019, , .		0
143	Intra-cavity biosensing in refractive-index-sensing optical comb. , 2020, , .		0
144	Scan-less Full-field Fluorescence Lifetime Imaging by 2D Spectral Encoding and Dual-Comb Heterodyne-Beating. , 2020, , .		0

#	ARTICLE	IF	CITATIONS
145	Refractive-index-sensing Optical Comb Using Intra-cavity Multi-mode-interference Fiber Sensor and Its Application for Bio-Sensing. , 2020, , .		0
146	Establishment of an Epicutaneously Sensitized Murine Model of Shellfish Allergy and Evaluation of Skin Condition by Raman Microscopy. Applied Sciences (Switzerland), 2022, 12, 3566.	1.3	0