Takeo Minamikawa

List of Publications by Year
in descending order

146	1,189	331259	414034
papers	citations	21 h-index	32 g-index

150	150	150	1220
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Ultralow-frequency ultranarrow-bandwidth coherent terahertz imaging for nondestructive testing of mortar material. Optics Express, 2022, 30, 4392.	1.7	5
2	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
3	Beam-angle-scanning surface plasmon resonance sensor for rapid, high-precision sensing of refractive index and bio-molecules. , 2022, 1, 565.		2
4	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
5	Full-field fluorescence lifetime dual-comb microscopy using spectral mapping and frequency multiplexing of dual-comb optical beats. Science Advances, 2021, 7, .	4.7	14
6	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
7	Application of Refractive-index-sensing Optical Frequency Comb for Biosensing of Antigen-antibody Reaction. , 2021, , .		1
8	Computationally image-corrected dual-comb microscopy with a free-running single-cavity dual-comb fiber laser. Optics Express, 2021, 29, 5018.	1.7	7
9	Hybrid optical imaging with near-infrared, mid-infrared, and terahertz wavelengths for nondestructive inspection [Invited]. Applied Optics, 2021, 60, B100.	0.9	1
10	Quantitative evaluation of SARS-CoV-2 inactivation using a deep ultraviolet light-emitting diode. Scientific Reports, 2021, 11, 5070.	1.6	56
11	Multicascade-linked synthetic-wavelength digital holography using a line-by-line spectral-shaped optical frequency comb. Optics Express, 2021, 29, 15772.	1.7	2
12	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
13	Inactivation of SARS-CoV-2 by deep ultraviolet light emitting diode: A review. Japanese Journal of Applied Physics, 2021, 60, 090501.	0.8	8
14	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
15	Synthesis of Dâ€“Ï€â€“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
16	Synthesis and Optical Properties of Quadrupolar Pyridinium Salt and Its Application as Bioimaging Agent. Chemistry Letters, 2020, 49, 1487-1489.	0.7	1
17	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
18	Molecular imaging analysis of microvesicular and macrovesicular lipid droplets in non-alcoholic fatty liver disease by Raman microscopy. Scientific Reports, 2020, 10, 18548.	1.6	24

#	Article	IF	Citations
19	Optical image amplification in dual-comb microscopy. Scientific Reports, 2020, 10, 8338.	1.6	6
20	Adaptive-sampling near-Doppler-limited terahertz dual-comb spectroscopy with a free-running single-cavity fiber laser. Advanced Photonics, 2020, 2, 1.	6.2	38
21	Intra-cavity biosensing in refractive-index-sensing optical comb. , 2020, , .		0
22	Scan-less Full-field Fluorescence Lifetime Imaging by 2D Spectral Encoding and Dual-Comb Heterodyne-Beating. , 2020, , .		0
23	Refractive-index-sensing Optical Comb Using Intra-cavity Multi-mode-interference Fiber Sensor and Its Application for Bio-Sensing. , 2020, , .		0
24	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
25	Photonic-Crystal-Fiber-Coupled, Hand-Held, Polarization-Resolved Second-Harmonic-Generation Microscope for <italic>In Vivo</italic> Visualization of Dermal Collagen Fibers in Human Skin. IEEE Journal of Selected Topics in Quantum Electronics, 2019, 25, 1-7.	1.9	4
26	Combination of Adaptive Sampling Terahertz Dual-Comb Spectroscopy with a Free-Running Single-Cavity Dual-Comb Fiber Laser. , 2019, , .		0
27	Raman Spectroscopic Evaluation of Human Myocardial Infarction. , 2019, , .		0
28	Application of Scan-less Two-Dimensional Confocal Microscopy Based on a Combination of Confocal Slit With Wavelength/Space Conversion. IEEE Journal of Selected Topics in Quantum Electronics, 2019, 25, 1-7.	1.9	1
29	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. Japanese Journal of Applied Physics, 2019, 58, 060912.	0.8	10
30	Preparation of Hierarchically Assembled Silver Nanostructures based on the Morphologies of Crystalline Peptideâ€Silver(I) Complexes. ChemPlusChem, 2019, 84, 295-301.	1.3	4
31	Laser-Scanning Optical-Frequency-Comb Spectromicroscopy. , 2019, , .		0
32	Scan-Less, Kilo-Pixel, Line-Field Confocal Phase Imaging with Spectrally Encoded Dual-Comb Microscopy. IEEE Journal of Selected Topics in Quantum Electronics, 2019, 25, 1-8.	1.9	1
33	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
34	Adaptive Sampling Terahertz Dual-Comb Spectroscopy Based on a Free-Running Single-Cavity Dual-Comb Fiber Laser. , 2019, , .		1
35	Refractive index sensing with temperature compensation by a multimode-interference fiber-based optical frequency comb sensing cavity. Optics Express, 2019, 27, 21463.	1.7	19
36	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

#	Article	IF	Citations
37	Ultrasonic wave sensing using an optical-frequency-comb sensing cavity for photoacoustic imaging. OSA Continuum, 2019, 2, 439.	1.8	6
38	Lock-in-detection dual-comb spectroscopy. OSA Continuum, 2019, 2, 1998.	1.8	5
39	Improvement of Image Quality in Dual-Comb Microscopy by Post-Amplification of Dual Comb Lights. , 2019, , .		0
40	Post-optical-amplification of Confocal Amplitude and Phase Images in Scan-less Confocal Dual-Comb Microscopy. , 2019, , .		0
41	Cascade-Linked Multi-Synthetic-Wavelength Digital Holography Using Line-by-Line Spectral Shaping Optical Frequency Comb. , 2019, , .		0
42	Combination of Lock-in Detection with Dual-Comb Spectroscopy. , 2019, , .		0
43	Simultaneous measurement of concentration and temperature in liquid sample using multi-mode interference fiber comb. , 2019, , .		0
44	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
45	Wide axial dynamic range digital holography using multicascade-linked synthetic wavelengths and optical wavelength. , 2019, , .		0
46	Scan-less confocal phase imaging of biological samples using dual-comb microscopy. , 2019, , .		0
47	Combination of lock-in detection with dual-comb spectroscopy. , 2019, , .		0
48	Refractive index sensor based on a combination of optical frequency comb with intracavity multi-mode interference fiber sensor. , 2019, , .		0
49	Real-Time Amplitude and Phase Imaging of Optically Opaque Objects by Combining Full-Field Off-Axis Terahertz Digital Holography with Angular Spectrum Reconstruction. Journal of Infrared, Millimeter, and Terahertz Waves, 2018, 39, 561-572.	1.2	22
50	Label-free Evaluation of Myocardial Infarct in Surgically Excised Ventricular Myocardium by Raman Spectroscopy. Scientific Reports, 2018, 8, 14671.	1.6	33
51	Strain sensing based on strain to radio-frequency conversion of optical frequency comb. Optics Express, 2018, 26, 9484.	1.7	20
52	Scan-less confocal phase imaging based on dual-comb microscopy. Optica, 2018, 5, 634.	4.8	70
53	Refractive-index-sensing optical comb based on photonic radio-frequency conversion with intracavity multi-mode interference fiber sensor. Optics Express, 2018, 26, 19694.	1.7	30
54	Real-time multi-wavelength digital holography using line-by-line spectral shaping of optical frequency comb. , 2018, , .		0

#	Article	IF	Citations
55	Dual terahertz comb spectroscopy with a single free-running fibre laser. Scientific Reports, 2018, 8, 11155.	1.6	39
56	Photo-acoustic sensing with fiber-based optical frequency comb cavity. , 2018, , .		0
57	Multicascade-linked synthetic wavelength digital holography using an optical-comb-referenced frequency synthesizer. Optics Express, 2018, 26, 26292.	1.7	16
58	Analysis of collagen fiber orientation using rapidly-polarization-modulated second-harmonic-generation microscopy. , 2018, , .		0
59	Fourier transform spectroscopic optical microscopy using dual-comb spectroscopic technique. , 2018, , .		0
60	Use of Lock-in Detection in Dual-Comb Spectroscopy. , 2018, , .		0
61	Static and dynamic strain sensing over 3.5 kHz with fiber-based optical frequency comb cavity. , 2018, , .		0
62	Refractive-index-sensing RF comb using intra-cavity multi-mode interference fiber sensor. , 2018, , .		0
63	Refractive index measurement based on disturbance to RF conversion function in a fiber OFC cavity. , 2018, , .		0
64	Dual-Comb Microscopy for Scanless Confocal Phase Imaging. , 2018, , .		0
65	Dual-comb single-pixel imaging in both amplitude and phase. , 2018, , .		0
66	Multi-dynamic range compressional wave detection using optical-frequency-comb. , 2018, , .		0
67	Video-rate confocal phase imaging by use of scan-less dual comb microscopy. , 2018, , .		0
68	Refractive-index-sensing fiber comb using intracavity multi-mode interference fiber sensor. , 2018, , .		0
69	Quantitative in situ time-series evaluation of osteoblastic collagen synthesis under cyclic strain using second-harmonic-generation microscopy. , 2018, , .		0
70	In vivo visualization of dermal collagen fibers in human skin using a photonic-crystal-fiber-coupled, hand-held second-harmonic-generation microscope. , 2018, , .		0
71	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
72	Scan-less, line-filed, confocal phase imaging with dual-comb microscopy. , 2018, , .		0

#	Article	IF	Citations
73	Analysis of collagen fiber orientation in biological tissues using polarization-resolved second-harmonic-generation microscopy. , 2018, , .		0
74	Application of scan-less two-dimensional confocal microscopy achieved by a combination of confocal slit with wavelength/space conversion. , 2018, , .		0
75	Optical-frequency-comb based ultrasound sensor. , 2017, , .		5
76	Scanless confocal phase imaging with dual comb microscopy. , 2017, , .		1
77	Hyperspectral single-pixel imaging with dual optical combs. Proceedings of SPIE, 2017, , .	0.8	0
78	Measurement of absolute frequency of continuous-wave terahertz radiation in real time using a free-running, dual-wavelength mode-locked, erbium-doped fibre laser. Scientific Reports, 2017, 7, 42082.	1.6	50
79	Orientation analysis of collagen fibers in healing tendon by using second-harmonic-generation microscopy. , 2017, , .		0
80	Raman spectroscopic detection of peripheral nerves towards nerve-sparing surgery. , 2017, , .		0
81	Efficient fluorescence detection of protoporphyrin IX in metastatic lymph nodes of murine colorectal cancer stained with indigo carmine. Photodiagnosis and Photodynamic Therapy, 2017, 19, 175-180.	1.3	1
82	In situ monitoring of collagen fibers in human skin using a photonic-crystal-fiber-coupled, hand-held, second-harmonic-generation microscope. Proceedings of SPIE, 2017, , .	0.8	1
83	Label-free detection of myocardial ischaemia in the perfused rat heart by spontaneous Raman spectroscopy. Scientific Reports, 2017, 7, 42401.	1.6	22
84	Analytical imaging of colour pigments used in <scp>J</scp>apanese woodblock prints using <scp>R</scp>aman microspectroscopy. Journal of Raman Spectroscopy, 2017, 48, 1887-1895.	1.2	8
85	Amplitude and phase imaging of visibly opaque object by THz digital holography. , 2017, , .		0
86	Dual-comb spectroscopic ellipsometry. Nature Communications, 2017, 8, 610.	5.8	64
87	Asynchronous-Optical-Sampling THz time-domain spectroscopy with a free-running, dual-wavelength mode-locked fiber laser. , 2017, , .		0
88	Shape measurement by cascade link multi-wavelength digital holography using optical frequency comb referenced synthesizer. , 2017, , .		0
89	Scan-less hyperspectral dual-comb single-pixel-imaging in both amplitude and phase. Optics Express, 2017, 25, 21947.	1.7	46
90	Photo-Induced Cell Damage Analysis for Single- and Multifocus Coherent Anti-Stokes Raman Scattering Microscopy. Journal of Spectroscopy, 2017, 2017, 1-8.	0.6	10

#	Article	IF	Citations
91	Terahertz dual-comb spectroscopy with a free-running, dual-wavelength-comb fiber laser. , 2017, , .		2
92	Digital holography using multiple synthesized wavelengths cascaded by optical frequency synthesizer. , 2017, , .		1
93	Off-axis digital holography in THz region. , 2017, , .		0
94	Development of confocal laser scanning microscopy by use of optical frequency comb. , 2017, , .		0
95	Dual-comb single-pixel imaging for scan-less hyperspectral imaging. , 2017, , .		0
96	Simple and optimum background-free estimation method of PPIX fluorescence for 5-ALA-based fluorescence diagnosis of malignant lesions. , 2017, , .		0
97	Rapid and accurate peripheral nerve detection using multipoint Raman imaging (Conference) Tj ETQq1 1 0.784314 rgBT /Overlock 10		1
98	Off-axis THz digital holography by use of THz quantum cascade laser and uncooled micro-bolometer array detector. , 2016, , .		0
99	Simplified and optimized multispectral imaging for 5-ALA-based fluorescence diagnosis of malignant lesions. Scientific Reports, 2016, 6, 25530.	1.6	15
100	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. Bone and Joint Research, 2016, 5, 577-585.	1.3	9
101	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
102	Highly sensitive fluorescence detection of metastatic lymph nodes of gastric cancer with photo-oxidation of protoporphyrin IX. European Journal of Surgical Oncology, 2016, 42, 1236-1246.	0.5	12
103	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
104	In situ time-series monitoring of collagen fibers produced by standing-cultured osteoblasts using a second-harmonic-generation microscope. Applied Optics, 2016, 55, 3261.	0.9	9
105	Observation of tendon repair in animal model using second-harmonic-generation microscopy. , 2016, , .		0
106	Dynamic terahertz spectroscopy of gas molecules mixed with unwanted aerosol under atmospheric pressure using fibre-based asynchronous-optical-sampling terahertz time-domain spectroscopy. Scientific Reports, 2016, 6, 28114.	1.6	49
107	Development of molecular distribution analysis method of color pigments on Japanese woodblock prints by Raman spectral-imagin. Journal of the Japan Society of Information and Knowledge, 2016, 26, 1-10.	0.0	0
108	In situquantitative evaluation of osteoblastic collagen synthesis under cyclic strain by using second-harmonic-generation microscope. , 2016, , .		0

#	Article	IF	Citations
109	Terahertz Frequency-Domain Spectroscopy of Low-Pressure Acetonitrile Gas by a Photomixing Terahertz Synthesizer Referenced to Dual Optical Frequency Combs. Journal of Infrared, Millimeter, and Terahertz Waves, 2016, 37, 903-915.	1.2	16
110	One shot confocal microscopy based on wavelength/space conversion by use of multichannel spectrometer. , 2016, , .		0
111	Scan-less, line-field confocal microscopy by combination of wavelength/space conversion with dual optical comb. , 2016, , .		2
112	Real-time absolute frequency measurement of continuous-wave terahertz radiation using a free-running, dual-wavelength, dual-comb mode-locked fiber laser. , 2016, , .		3
113	Recent advances in photodynamic diagnosis of gastric cancer using 5-aminolevulinic acid. World Journal of Gastroenterology, 2016, 22, 1289.	1.4	45
114	Scan-less, Line-field, Confocal Microscopy Based on Dimensional-Conversion Optical Frequency Comb. , 2016, , .		0
115	Multiple-synthesized-wavelengths digital holography using optical frequency synthesizer. , 2016, , .		0
116	Dual-Optical-Comb Spectroscopic Ellipsometry. , 2016, , .		0
117	Strain Sensing with a Disturbance/RF-Converting Fiber Comb Cavity. , 2016, , .		2
118	Video-rate volume imaging confocal microscope based on wavelength / space conversion by use of multichannel spectrometer. , 2016, , .		0
119	Ex vivo peripheral nerve detection of rats by spontaneous Raman spectroscopy. Scientific Reports, 2015, 5, 17165.	1.6	35
120	Spectral Fingerprinting of Individual Cells Visualized by Cavity-Reflection-Enhanced Light-Absorption Microscopy. PLoS ONE, 2015, 10, e0125733.	1.1	7
121	C6-P-07Spectral fingerprinting of individual cells visualized by cavity-reflection-enhanced light-absorption microscopy. Microscopy (Oxford, England), 2015, 64, i143.2-i143.	0.7	0
122	Photodynamic Detection of Lymph Node Metastases in Gastrointestinal Cancer by Using 5-Aminolevulinic Acid. , 2015, , 267-278.		0
123	Photoacoustic microscopy using ultrashort pulses with two different pulse durations. Optics Express, 2014, 22, 17063.	1.7	24
124	Label-Free Evaluation of Myocardial Infarction and Its Repair by Spontaneous Raman Spectroscopy. Analytical Chemistry, 2014, 86, 6903-6910.	3.2	28
125	Label-free detection of peripheral nerve tissues against adjacent tissues by spontaneous Raman microspectroscopy. Histochemistry and Cell Biology, 2013, 139, 181-193.	0.8	33
126	Raman microspectroscopy for visualization of peripheral nerves. Proceedings of SPIE, 2013, , .	0.8	1

#	Article	IF	Citations
127	Detection of Lymph Node Metastases in Human Colorectal Cancer by Using 5-Aminolevulinic Acid-Induced Protoporphyrin IX Fluorescence with Spectral Unmixing. International Journal of Molecular Sciences, 2013, 14, 23140-23152.	1.8	23
128	Fast spectral coherent anti-Stokes Raman scattering microscopy with high-speed tunable picosecond laser. Journal of Biomedical Optics, 2013, 18, 1.	1.4	19
129	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
130	Coherent Anti-Stokes Raman Scattering Microscopy for High Speed Non- Staining Biomolecular Imaging. Current Pharmaceutical Biotechnology, 2013, 14, 150-158.	0.9	1
131	Coherent anti-stokes Raman scattering microscopy for high speed non- staining biomolecular imaging. Current Pharmaceutical Biotechnology, 2013, 14, 150-8.	0.9	1
132	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
133	Development of polarization-mode controllable CARS microscope. Proceedings of SPIE, 2011, , .	0.8	1
134	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
135	Photo-induced cell damage analysis for multi-focus CARS microscopy. , 2011, , .		2
136	High-speed CARS spectral imaging using acousto optic tunable filter. , 2010, , .		1
137	Real-time molecular imaging of organelles in living cell by multifocus excitation CARS microscope. Proceedings of SPIE, 2010, , .	0.8	1
138	Lipids distribution imaging of lipid vesicles by multi-focus excitation CARS microscope. Proceedings of SPIE, 2009, , .	0.8	0
139	Multi-focus CARS microscopy using microlens array scanner for realtime molecular spectral imaging. , 2009, , .		2
140	Multi-focus excitation coherent anti-Stokes Raman scattering (CARS) microscopy and its applications for real-time imaging. Optics Express, 2009, 17, 9526.	1.7	52
141	Multifocus CARS microscopy for realtime vibrational imaging. Proceedings of SPIE, 2009, , .	0.8	1
142	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
143	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
144	Jitter reduction of two synchronized picosecond mode-locked lasers using balanced cross-correlator with two-photon detectors. Applied Physics Letters, 2006, 89, 191101.	1.5	29

#	Article	IF	Citations
145	Differences in features of calcium transients between the nucleus and the cytosol in cultured heart muscle cells: analyzed by confocal microscopy. Cell Calcium, 1995, 17, 165-176.	1.1	26
146	A new method of lectin histochemistry for the study of brain angiogenesis. Histochemistry, 1987, 87, 317-320.	1.9	33