Wei Min

List of Publications by Year
in descending order

81 papers	8,995 citations	81743 39 h-index	66788 78 g-index
87 all docs	87 docs citations	87 times ranked	8051 citing authors

#	Article	IF	Citations
1	Highly-multiplexed volumetric mapping with Raman dye imaging and tissue clearing. Nature Biotechnology, 2022, 40, 364-373.	9.4	43
2	Applications of stimulated Raman scattering (SRS) microscopy in materials science. , 2022, , 515-527.		2
3	Stimulated Raman excited fluorescence (SREF) microscopy: Combining the best of two worlds. , 2022, , 179-188.		0
4	Supermultiplexed vibrational imaging: From probe development to biomedical applications. , 2022, , 311-328.		2
5	Super-multiplexed vibrational probes: Being colorful makes a difference. Current Opinion in Chemical Biology, 2022, 67, 102115.	2.8	7
6	Towards Mapping Mouse Metabolic Tissue Atlas by Midâ€Infrared Imaging with Heavy Water Labeling. Advanced Science, 2022, 9, e2105437.	5.6	6
7	Highly-Multiplexed Tissue Imaging with Raman Dyes. Journal of Visualized Experiments, 2022, , .	0.2	1
8	Superâ€Resolution Vibrational Imaging Using Expansion Stimulated Raman Scattering Microscopy. Advanced Science, 2022, 9, e2200315.	5.6	25
9	Ultra-bright Raman dots for multiplexed optical imaging. Nature Communications, 2021, 12, 1305.	5.8	34
10	Super-resolution vibrational microscopy by stimulated Raman excited fluorescence. Light: Science and Applications, 2021, 10, 87.	7.7	30
11	Emerging applications of stimulated Raman scattering microscopy in materials science. Matter, 2021, 4, 1460-1483.	5.0	25
12	Multiplexed live-cell profiling with Raman probes. Nature Communications, 2021, 12, 3405.	5.8	42
13	9-Cyanopyronin probe palette for super-multiplexed vibrational imaging. Nature Communications, 2021, 12, 4518.	5.8	30
14	Super-multiplex imaging of cellular dynamics and heterogeneity by integrated stimulated Raman and fluorescence microscopy. IScience, 2021, 24, 102832.	1.9	27
15	Understanding the Correlation between Lithium Dendrite Growth and Local Material Properties by Machine Learning. Journal of the Electrochemical Society, 2021, 168, 090523.	1.3	3
16	Combining the best of two worlds: Stimulated Raman excited fluorescence. Journal of Chemical Physics, 2020, 153, 210901.	1.2	12
17	Strong Concentration Enhancement of Molecules at the Interface of Aqueous Microdroplets. Journal of Physical Chemistry B, 2020, 124, 9938-9944.	1.2	35
18	Strong Electric Field Observed at the Interface of Aqueous Microdroplets. Journal of Physical Chemistry Letters, 2020, 11, 7423-7428.	2.1	177

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19	Metabolic Activity Phenotyping of Single Cells with Multiplexed Vibrational Probes. Analytical Chemistry, 2020, 92, 9603-9612.	3.2	20
20	Mid-infrared metabolic imaging with vibrational probes. Nature Methods, 2020, 17, 844-851.	9.0	69
21	Background-free imaging of chemical bonds by a simple and robust frequency-modulated stimulated Raman scattering microscopy. Optics Express, 2020, 28, 15663.	1.7	24
22	Structureâ€"activityâ€"distribution relationship study of anti-cancer antimycin-type depsipeptides. Chemical Communications, 2019, 55, 9379-9382.	2.2	38
23	Optical mapping of biological water in single live cells by stimulated Raman excited fluorescence microscopy. Nature Communications, 2019, 10, 4764.	5.8	35
24	Biological imaging of chemical bonds by stimulated Raman scattering microscopy. Nature Methods, 2019, 16, 830-842.	9.0	231
25	Stimulated Raman Excited Fluorescence Spectroscopy of Visible Dyes. Journal of Physical Chemistry Letters, 2019, 10, 3563-3570.	2.1	25
26	Spectral tracing of deuterium for imaging glucose metabolism. Nature Biomedical Engineering, 2019, 3, 402-413.	11.6	116
27	Raman Imaging of Small Biomolecules. Annual Review of Biophysics, 2019, 48, 347-369.	4.5	93
28	CHP1 Regulates Compartmentalized Glycerolipid Synthesis by Activating GPAT4. Molecular Cell, 2019, 74, 45-58.e7.	4.5	83
29	Probe design for super-multiplexed vibrational imaging. Physical Biology, 2019, 16, 041003.	0.8	22
30	Volumetric chemical imaging by clearing-enhanced stimulated Raman scattering microscopy. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 6608-6617.	3.3	92
31	Stimulated Raman excited fluorescence spectroscopy and imaging. Nature Photonics, 2019, 13, 412-417.	15.6	71
32	Squalene accumulation in cholesterol auxotrophic lymphomas prevents oxidative cell death. Nature, 2019, 567, 118-122.	13.7	262
33	Phenazine production promotes antibiotic tolerance and metabolic heterogeneity in Pseudomonas aeruginosa biofilms. Nature Communications, 2019, 10, 762.	5.8	176
34	Porous insulating matrix for lithium metal anode with long cycling stability and high power. Energy Storage Materials, 2019, 17, 31-37.	9.5	36
35	Determination of the Subcellular Localization and Mechanism of Action of Ferrostatins in Suppressing Ferroptosis. ACS Chemical Biology, 2018, 13, 1013-1020.	1.6	229
36	Supermultiplexed optical imaging and barcoding with engineered polyynes. Nature Methods, 2018, 15, 194-200.	9.0	268

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37	Two-color vibrational imaging of glucose metabolism using stimulated Raman scattering. Chemical Communications, 2018, 54, 152-155.	2.2	63
38	Electronic Resonant Stimulated Raman Scattering Micro-Spectroscopy. Journal of Physical Chemistry B, 2018, 122, 9218-9224.	1.2	30
39	A ratiometric Raman probe for live-cell imaging of hydrogen sulfide in mitochondria by stimulated Raman scattering. Analyst, The, 2018, 143, 4844-4848.	1.7	45
40	Operando and three-dimensional visualization of anion depletion and lithium growth by stimulated Raman scattering microscopy. Nature Communications, 2018, 9, 2942.	5.8	138
41	Invited Article: Visualizing protein synthesis in mice within vivolabeling of deuterated amino acids using vibrational imaging. APL Photonics, 2018, 3, 092401.	3.0	16
42	Optical imaging of metabolic dynamics in animals. Nature Communications, 2018, 9, 2995.	5.8	164
43	Electronic Preresonance Stimulated Raman Scattering Microscopy. Journal of Physical Chemistry Letters, 2018, 9, 4294-4301.	2.1	81
44	Super-multiplex vibrational imaging. Nature, 2017, 544, 465-470.	13.7	374
45	Stimulated Raman scattering of polymer nanoparticles for multiplexed live-cell imaging. Chemical Communications, 2017, 53, 6187-6190.	2.2	40
46	Applications of vibrational tags in biological imaging by Raman microscopy. Analyst, The, 2017, 142, 4018-4029.	1.7	82
47	Metabolic activity induces membrane phase separation in endoplasmic reticulum. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 13394-13399.	3.3	118
48	Bioorthogonal chemical imaging of metabolic changes during epithelialâ€“mesenchymal transition of cancer cells by stimulated Raman scattering microscopy. Journal of Biomedical Optics, 2017, 22, 1.	1.4	29
49	Macrosteres: The Deltic GuanidinÂłum Ion. European Journal of Organic Chemistry, 2016, 2016, 1655-1659.	1.2	19
50	Bioorthogonal chemical imaging of metabolic activities in live mammalian hippocampal tissues with stimulated Raman scattering. Scientific Reports, 2016, 6, 39660.	1.6	60
51	Live-Cell Bioorthogonal Chemical Imaging: Stimulated Raman Scattering Microscopy of Vibrational Probes. Accounts of Chemical Research, 2016, 49, 1494-1502.	7.6	150
52	Vibrational Imaging of Glucose Uptake Activity in Live Cells and Tissues by Stimulated Raman Scattering. Angewandte Chemie - International Edition, 2015, 54, 9821-9825.	7.2	131
53	Imaging Complex Protein Metabolism in Live Organisms by Stimulated Raman Scattering Microscopy with Isotope Labeling. ACS Chemical Biology, 2015, 10, 901-908.	1.6	106
54	Liveâ€Cell Quantitative Imaging of Proteome Degradation by Stimulated Raman Scattering. Angewandte Chemie - International Edition, 2014, 53, 5596-5599.	7.2	70

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55	Live-cell imaging of alkyne-tagged small biomolecules by stimulated Raman scattering. Nature Methods, 2014, 11, 410-412.	9.0	404
56	Live-cell vibrational imaging of choline metabolites by stimulated Raman scattering coupled with isotope-based metabolic labeling. Analyst, The, 2014, 139, 2312-2317.	1.7	71
57	Multicolor Live-Cell Chemical Imaging by Isotopically Edited Alkyne Vibrational Palette. Journal of the American Chemical Society, 2014, 136, 8027-8033.	6.6	137
58	The Covalent Trimethoprim Chemical Tag Facilitates Single Molecule Imaging with Organic Fluorophores. Biophysical Journal, 2014, 106, 272-278.	0.2	14
59	Liveâ€Cell Quantitative Imaging of Proteome Degradation by Stimulated Raman Scattering. Angewandte Chemie, 2014, 126, 5702-5705.	1.6	10
60	Vibrational imaging of newly synthesized proteins in live cells by stimulated Raman scattering microscopy. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 11226-11231.	3.3	193
61	Bioluminescence Assisted Switching and Fluorescence Imaging (BASFI). Journal of Physical Chemistry Letters, 2013, 4, 3897-3902.	2.1	13
62	Chemical tags: inspiration for advanced imaging techniques. Current Opinion in Chemical Biology, 2013, 17, 637-643.	2.8	31
63	Molecular-Switch-Mediated Multiphoton Fluorescence Microscopy with High-Order Nonlinearity. Journal of Physical Chemistry Letters, 2012, 3, 2082-2086.	2.1	9
64	Observation of Frequency-Domain Fluorescence Anomalous Phase Advance Due to Dark-State Hysteresis. Journal of Physical Chemistry Letters, 2011, 2, 461-466.	2.1	13
65	Coherent Nonlinear Optical Imaging: Beyond Fluorescence Microscopy. Annual Review of Physical Chemistry, 2011, 62, 507-530.	4.8	517
66	RNAi screening for fat regulatory genes with SRS microscopy. Nature Methods, 2011, 8, 135-138.	9.0	175
67	Label-free optical imaging of nonfluorescent molecules by stimulated radiation. Current Opinion in Chemical Biology, 2011, 15, 831-837.	2.8	12
68	Complex Kinetics of Fluctuating Enzymes: Phase Diagram Characterization of a Minimal Kinetic Scheme. Chemistry - an Asian Journal, 2010, 5, 1129-1138.	1.7	9
69	Label-free imaging of heme proteins with two-photon excited photothermal lens microscopy. Applied Physics Letters, 2010, 96, .	1.5	76
70	Ground-State Depletion Microscopy: Detection Sensitivity of Single-Molecule Optical Absorption at Room Temperature. Journal of Physical Chemistry Letters, 2010, 1, 3316-3322.	2.1	132
71	Role of conformational dynamics in kinetics of an enzymatic cycle in a nonequilibrium steady state. Journal of Chemical Physics, 2009, 131, 065104.	1.2	36
72	Tripleâ€Resonance Coherent Antiâ€Stokes Raman Scattering Microspectroscopy. ChemPhysChem, 2009, 10, 344-347.	1.0	25

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73	Imaging chromophores with undetectable fluorescence by stimulated emission microscopy. Nature, 2009, 461, 1105-1109.	13.7	255
74	Near-Degenerate Four-Wave-Mixing Microscopy. Nano Letters, 2009, 9, 2423-2426.	4.5	32
75	Two-Dimensional Reaction Free Energy Surfaces of Catalytic Reaction:â€‰ Effects of Protein Conformational Dynamics on Enzyme Catalysis. Journal of Physical Chemistry B, 2008, 112, 454-466.	1.2	66
76	Label-Free Biomedical Imaging with High Sensitivity by Stimulated Raman Scattering Microscopy. Science, 2008, 322, 1857-1861.	6.0	1,850
77	Kramers model with a power-law friction kernel: Dispersed kinetics and dynamic disorder of biochemical reactions. Physical Review E, 2006, 73, 010902.	0.8	40
78	Observation of a Power-Law Memory Kernel for Fluctuations within a Single Protein Molecule. Physical Review Letters, 2005, 94, 198302.	2.9	355
79	Nonequilibrium Steady State of a Nanometric Biochemical System:Â Determining the Thermodynamic Driving Force from Single Enzyme Turnover Time Traces. Nano Letters, 2005, 5, 2373-2378.	4.5	50
80	Fluctuating Enzymes:Â Lessons from Single-Molecule Studies. Accounts of Chemical Research, 2005, 38, 923-931.	7.6	344
81	Chemical Imaging by Stimulated Raman Scattering Microscopy. ACS Symposium Series, 0, , 225-253.	0.5	0