

Wei Min

List of Publications by Year in descending order

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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	Label-Free Biomedical Imaging with High Sensitivity by Stimulated Raman Scattering Microscopy. <i>Science</i> , 2008, 322, 1857-1861.	6.0	1,850
2	Coherent Nonlinear Optical Imaging: Beyond Fluorescence Microscopy. <i>Annual Review of Physical Chemistry</i> , 2011, 62, 507-530.	4.8	517
3	Live-cell imaging of alkyne-tagged small biomolecules by stimulated Raman scattering. <i>Nature Methods</i> , 2014, 11, 410-412.	9.0	404
4	Super-multiplex vibrational imaging. <i>Nature</i> , 2017, 544, 465-470.	13.7	374
5	Observation of a Power-Law Memory Kernel for Fluctuations within a Single Protein Molecule. <i>Physical Review Letters</i> , 2005, 94, 198302.	2.9	355
6	Fluctuating Enzymes: Lessons from Single-Molecule Studies. <i>Accounts of Chemical Research</i> , 2005, 38, 923-931.	7.6	344
7	Supermultiplexed optical imaging and barcoding with engineered polyynes. <i>Nature Methods</i> , 2018, 15, 194-200.	9.0	268
8	Squalene accumulation in cholesterol auxotrophic lymphomas prevents oxidative cell death. <i>Nature</i> , 2019, 567, 118-122.	13.7	262
9	Imaging chromophores with undetectable fluorescence by stimulated emission microscopy. <i>Nature</i> , 2009, 461, 1105-1109.	13.7	255
10	Biological imaging of chemical bonds by stimulated Raman scattering microscopy. <i>Nature Methods</i> , 2019, 16, 830-842.	9.0	231
11	Determination of the Subcellular Localization and Mechanism of Action of Ferrostatins in Suppressing Ferroptosis. <i>ACS Chemical Biology</i> , 2018, 13, 1013-1020.	1.6	229
12	Vibrational imaging of newly synthesized proteins in live cells by stimulated Raman scattering microscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 11226-11231.	3.3	193
13	Strong Electric Field Observed at the Interface of Aqueous Microdroplets. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 7423-7428.	2.1	177
14	Phenazine production promotes antibiotic tolerance and metabolic heterogeneity in <i>Pseudomonas aeruginosa</i> biofilms. <i>Nature Communications</i> , 2019, 10, 762.	5.8	176
15	RNAi screening for fat regulatory genes with SRS microscopy. <i>Nature Methods</i> , 2011, 8, 135-138.	9.0	175
16	Optical imaging of metabolic dynamics in animals. <i>Nature Communications</i> , 2018, 9, 2995.	5.8	164
17	Live-Cell Bioorthogonal Chemical Imaging: Stimulated Raman Scattering Microscopy of Vibrational Probes. <i>Accounts of Chemical Research</i> , 2016, 49, 1494-1502.	7.6	150
18	Operando and three-dimensional visualization of anion depletion and lithium growth by stimulated Raman scattering microscopy. <i>Nature Communications</i> , 2018, 9, 2942.	5.8	138

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19	Multicolor Live-Cell Chemical Imaging by Isotopically Edited Alkyne Vibrational Palette. <i>Journal of the American Chemical Society</i> , 2014, 136, 8027-8033.	6.6	137
20	Ground-State Depletion Microscopy: Detection Sensitivity of Single-Molecule Optical Absorption at Room Temperature. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 3316-3322.	2.1	132
21	Vibrational Imaging of Glucose Uptake Activity in Live Cells and Tissues by Stimulated Raman Scattering. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 9821-9825.	7.2	131
22	Metabolic activity induces membrane phase separation in endoplasmic reticulum. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 13394-13399.	3.3	118
23	Spectral tracing of deuterium for imaging glucose metabolism. <i>Nature Biomedical Engineering</i> , 2019, 3, 402-413.	11.6	116
24	Imaging Complex Protein Metabolism in Live Organisms by Stimulated Raman Scattering Microscopy with Isotope Labeling. <i>ACS Chemical Biology</i> , 2015, 10, 901-908.	1.6	106
25	Raman Imaging of Small Biomolecules. <i>Annual Review of Biophysics</i> , 2019, 48, 347-369.	4.5	93
26	Volumetric chemical imaging by clearing-enhanced stimulated Raman scattering microscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 6608-6617.	3.3	92
27	CHP1 Regulates Compartmentalized Glycerolipid Synthesis by Activating GPAT4. <i>Molecular Cell</i> , 2019, 74, 45-58.e7.	4.5	83
28	Applications of vibrational tags in biological imaging by Raman microscopy. <i>Analyst, The</i> , 2017, 142, 4018-4029.	1.7	82
29	Electronic Preresonance Stimulated Raman Scattering Microscopy. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 4294-4301.	2.1	81
30	Label-free imaging of heme proteins with two-photon excited photothermal lens microscopy. <i>Applied Physics Letters</i> , 2010, 96, .	1.5	76
31	Live-cell vibrational imaging of choline metabolites by stimulated Raman scattering coupled with isotope-based metabolic labeling. <i>Analyst, The</i> , 2014, 139, 2312-2317.	1.7	71
32	Stimulated Raman excited fluorescence spectroscopy and imaging. <i>Nature Photonics</i> , 2019, 13, 412-417.	15.6	71
33	Live-Cell Quantitative Imaging of Proteome Degradation by Stimulated Raman Scattering. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 5596-5599.	7.2	70
34	Mid-infrared metabolic imaging with vibrational probes. <i>Nature Methods</i> , 2020, 17, 844-851.	9.0	69
35	Two-Dimensional Reaction Free Energy Surfaces of Catalytic Reaction: Effects of Protein Conformational Dynamics on Enzyme Catalysis. <i>Journal of Physical Chemistry B</i> , 2008, 112, 454-466.	1.2	66
36	Two-color vibrational imaging of glucose metabolism using stimulated Raman scattering. <i>Chemical Communications</i> , 2018, 54, 152-155.	2.2	63

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37	Bioorthogonal chemical imaging of metabolic activities in live mammalian hippocampal tissues with stimulated Raman scattering. <i>Scientific Reports</i> , 2016, 6, 39660.	1.6	60
38	Nonequilibrium Steady State of a Nanometric Biochemical System: Determining the Thermodynamic Driving Force from Single Enzyme Turnover Time Traces. <i>Nano Letters</i> , 2005, 5, 2373-2378.	4.5	50
39	A ratiometric Raman probe for live-cell imaging of hydrogen sulfide in mitochondria by stimulated Raman scattering. <i>Analyst</i> , 2018, 143, 4844-4848.	1.7	45
40	Highly-multiplexed volumetric mapping with Raman dye imaging and tissue clearing. <i>Nature Biotechnology</i> , 2022, 40, 364-373.	9.4	43
41	Multiplexed live-cell profiling with Raman probes. <i>Nature Communications</i> , 2021, 12, 3405.	5.8	42
42	Kramers model with a power-law friction kernel: Dispersed kinetics and dynamic disorder of biochemical reactions. <i>Physical Review E</i> , 2006, 73, 010902.	0.8	40
43	Stimulated Raman scattering of polymer nanoparticles for multiplexed live-cell imaging. <i>Chemical Communications</i> , 2017, 53, 6187-6190.	2.2	40
44	Structure-activity distribution relationship study of anti-cancer antimycin-type depsipeptides. <i>Chemical Communications</i> , 2019, 55, 9379-9382.	2.2	38
45	Role of conformational dynamics in kinetics of an enzymatic cycle in a nonequilibrium steady state. <i>Journal of Chemical Physics</i> , 2009, 131, 065104.	1.2	36
46	Porous insulating matrix for lithium metal anode with long cycling stability and high power. <i>Energy Storage Materials</i> , 2019, 17, 31-37.	9.5	36
47	Optical mapping of biological water in single live cells by stimulated Raman excited fluorescence microscopy. <i>Nature Communications</i> , 2019, 10, 4764.	5.8	35
48	Strong Concentration Enhancement of Molecules at the Interface of Aqueous Microdroplets. <i>Journal of Physical Chemistry B</i> , 2020, 124, 9938-9944.	1.2	35
49	Ultra-bright Raman dots for multiplexed optical imaging. <i>Nature Communications</i> , 2021, 12, 1305.	5.8	34
50	Near-Degenerate Four-Wave-Mixing Microscopy. <i>Nano Letters</i> , 2009, 9, 2423-2426.	4.5	32
51	Chemical tags: inspiration for advanced imaging techniques. <i>Current Opinion in Chemical Biology</i> , 2013, 17, 637-643.	2.8	31
52	Electronic Resonant Stimulated Raman Scattering Micro-Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2018, 122, 9218-9224.	1.2	30
53	Super-resolution vibrational microscopy by stimulated Raman excited fluorescence. <i>Light: Science and Applications</i> , 2021, 10, 87.	7.7	30
54	9-Cyanopyronin probe palette for super-multiplexed vibrational imaging. <i>Nature Communications</i> , 2021, 12, 4518.	5.8	30

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55	Bioorthogonal chemical imaging of metabolic changes during epithelialâ€mesenchymal transition of cancer cells by stimulated Raman scattering microscopy. <i>Journal of Biomedical Optics</i> , 2017, 22, 1.	1.4	29
56	Super-multiplex imaging of cellular dynamics and heterogeneity by integrated stimulated Raman and fluorescence microscopy. <i>IScience</i> , 2021, 24, 102832.	1.9	27
57	Tripleâ€Resonance Coherent Antiâ€Stokes Raman Scattering Microspectroscopy. <i>ChemPhysChem</i> , 2009, 10, 344-347.	1.0	25
58	Stimulated Raman Excited Fluorescence Spectroscopy of Visible Dyes. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 3563-3570.	2.1	25
59	Emerging applications of stimulated Raman scattering microscopy in materials science. <i>Matter</i> , 2021, 4, 1460-1483.	5.0	25
60	Superâ€Resolution Vibrational Imaging Using Expansion Stimulated Raman Scattering Microscopy. <i>Advanced Science</i> , 2022, 9, e2200315.	5.6	25
61	Background-free imaging of chemical bonds by a simple and robust frequency-modulated stimulated Raman scattering microscopy. <i>Optics Express</i> , 2020, 28, 15663.	1.7	24
62	Probe design for super-multiplexed vibrational imaging. <i>Physical Biology</i> , 2019, 16, 041003.	0.8	22
63	Metabolic Activity Phenotyping of Single Cells with Multiplexed Vibrational Probes. <i>Analytical Chemistry</i> , 2020, 92, 9603-9612.	3.2	20
64	Macrosteres: The Deltic Guanidinium Ion. <i>European Journal of Organic Chemistry</i> , 2016, 2016, 1655-1659.	1.2	19
65	Invited Article: Visualizing protein synthesis in mice within vivo labeling of deuterated amino acids using vibrational imaging. <i>APL Photonics</i> , 2018, 3, 092401.	3.0	16
66	The Covalent Trimethoprim Chemical Tag Facilitates Single Molecule Imaging with Organic Fluorophores. <i>Biophysical Journal</i> , 2014, 106, 272-278.	0.2	14
67	Observation of Frequency-Domain Fluorescence Anomalous Phase Advance Due to Dark-State Hysteresis. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 461-466.	2.1	13
68	Bioluminescence Assisted Switching and Fluorescence Imaging (BASFI). <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 3897-3902.	2.1	13
69	Label-free optical imaging of nonfluorescent molecules by stimulated radiation. <i>Current Opinion in Chemical Biology</i> , 2011, 15, 831-837.	2.8	12
70	Combining the best of two worlds: Stimulated Raman excited fluorescence. <i>Journal of Chemical Physics</i> , 2020, 153, 210901.	1.2	12
71	Liveâ€Cell Quantitative Imaging of Proteome Degradation by Stimulated Raman Scattering. <i>Angewandte Chemie</i> , 2014, 126, 5702-5705.	1.6	10
72	Complex Kinetics of Fluctuating Enzymes: Phase Diagram Characterization of a Minimal Kinetic Scheme. <i>Chemistry - an Asian Journal</i> , 2010, 5, 1129-1138.	1.7	9

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73	Molecular-Switch-Mediated Multiphoton Fluorescence Microscopy with High-Order Nonlinearity. Journal of Physical Chemistry Letters, 2012, 3, 2082-2086.	2.1	9
74	Super-multiplexed vibrational probes: Being colorful makes a difference. Current Opinion in Chemical Biology, 2022, 67, 102115.	2.8	7
75	Towards Mapping Mouse Metabolic Tissue Atlas by Mid-Infrared Imaging with Heavy Water Labeling. Advanced Science, 2022, 9, e2105437.	5.6	6
76	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
77	Applications of stimulated Raman scattering (SRS) microscopy in materials science. , 2022, , 515-527.		2
78	Supermultiplexed vibrational imaging: From probe development to biomedical applications. , 2022, , 311-328.		2
79	Highly-Multiplexed Tissue Imaging with Raman Dyes. Journal of Visualized Experiments, 2022, , .	0.2	1
80	Stimulated Raman excited fluorescence (SREF) microscopy: Combining the best of two worlds. , 2022, , 179-188.		0
81	Chemical Imaging by Stimulated Raman Scattering Microscopy. ACS Symposium Series, 0, , 225-253.	0.5	0