Lu Wei

List of Publications by Year
in descending order

39 papers	2,838 citations	279798 23 h-index	395702 33 g-index
42 all docs	42 docs citations	42 times ranked	2758 citing authors

#	Article	IF	Citations
1	Live-cell imaging of alkyne-tagged small biomolecules by stimulated Raman scattering. Nature Methods, 2014, 11, 410-412.	19.0	404
2	Super-multiplex vibrational imaging. Nature, 2017, 544, 465-470.	27.8	374
3	Supermultiplexed optical imaging and barcoding with engineered polyynes. Nature Methods, 2018, 15, 194-200.	19.0	268
4	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.	7.1	193
5	Live-Cell Bioorthogonal Chemical Imaging: Stimulated Raman Scattering Microscopy of Vibrational Probes. Accounts of Chemical Research, 2016, 49, 1494-1502.	15.6	150
6	Operando and three-dimensional visualization of anion depletion and lithium growth by stimulated Raman scattering microscopy. Nature Communications, 2018, 9, 2942.	12.8	138
7	Multicolor Live-Cell Chemical Imaging by Isotopically Edited Alkyne Vibrational Palette. Journal of the American Chemical Society, 2014, 136, 8027-8033.	13.7	137
8	Vibrational Imaging of Glucose Uptake Activity in Live Cells and Tissues by Stimulated Raman Scattering. Angewandte Chemie - International Edition, 2015, 54, 9821-9825.	13.8	131
9	Imaging Complex Protein Metabolism in Live Organisms by Stimulated Raman Scattering Microscopy with Isotope Labeling. ACS Chemical Biology, 2015, 10, 901-908.	3.4	106
10	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.	7.1	92
11	Raman-guided subcellular pharmaco-metabolomics for metastatic melanoma cells. Nature Communications, 2020, 11, 4830.	12.8	88
12	Electronic Preresonance Stimulated Raman Scattering Microscopy. Journal of Physical Chemistry Letters, 2018, 9, 4294-4301.	4.6	81
13	Live-cell vibrational imaging of choline metabolites by stimulated Raman scattering coupled with isotope-based metabolic labeling. Analyst, The, 2014, 139, 2312-2317.	3.5	71
14	Stimulated Raman excited fluorescence spectroscopy and imaging. Nature Photonics, 2019, 13, 412-417.	31.4	71
15	Liveâ€Cell Quantitative Imaging of Proteome Degradation by Stimulated Raman Scattering. Angewandte Chemie - International Edition, 2014, 53, 5596-5599.	13.8	70
16	Bioorthogonal chemical imaging of metabolic activities in live mammalian hippocampal tissues with stimulated Raman scattering. Scientific Reports, 2016, 6, 39660.	3.3	60
17	Mapping protein-specific micro-environments in live cells by fluorescence lifetime imaging of a hybrid genetic-chemical molecular rotor tag. Chemical Communications, 2012, 48, 8694.	4.1	51
18	Live-Cell Imaging and Quantification of PolyQ Aggregates by Stimulated Raman Scattering of Selective Deuterium Labeling. ACS Central Science, 2020, 6, 478-486.	11.3	50

#	Article	IF	Citations
19	Pump-probe optical microscopy for imaging nonfluorescent chromophores. Analytical and Bioanalytical Chemistry, 2012, 403, 2197-2202.	3.7	30
20	Electronic Resonant Stimulated Raman Scattering Micro-Spectroscopy. Journal of Physical Chemistry B, 2018, 122, 9218-9224.	2.6	30
21	Super-resolution label-free volumetric vibrational imaging. Nature Communications, 2021, 12, 3648.	12.8	29
22	Multicolor Photoactivatable Raman Probes for Subcellular Imaging and Tracking by Cyclopropenone Caging. Journal of the American Chemical Society, 2022, 144, 777-786.	13.7	29
23	Visualizing Subcellular Enrichment of Glycogen in Live Cancer Cells by Stimulated Raman Scattering. Analytical Chemistry, 2020, 92, 13182-13191.	6.5	28
24	Extending the fundamental imaging-depth limit of multi-photon microscopy by imaging with photo-activatable fluorophores. Optics Express, 2012, 20, 18525.	3.4	24
25	Stimulated emission reduced fluorescence microscopy: a concept for extending the fundamental depth limit of two-photon fluorescence imaging. Biomedical Optics Express, 2012, 3, 1465.	2.9	21
26	Toward photoswitchable electronic pre-resonance stimulated Raman probes. Journal of Chemical Physics, 2021, 154, 135102.	3.0	20
27	Alkyne-Tagged Raman Probes for Local Environmental Sensing by Hydrogenâ€“Deuterium Exchange. Journal of the American Chemical Society, 2022, 144, 8504-8514.	13.7	20
28	Bringing Vibrational Imaging to Chemical Biology with Molecular Probes. ACS Chemical Biology, 2022, 17, 1621-1637.	3.4	18
29	High spatial-resolution imaging of label-freein vivoprotein aggregates by VISTA. Analyst, The, 2021, 146, 4135-4145.	3.5	11
30	Frustrated FRET for high-contrast high-resolution two-photon imaging. Optics Express, 2013, 21, 14097.	3.4	10
31	Liveâ€Cell Quantitative Imaging of Proteome Degradation by Stimulated Raman Scattering. Angewandte Chemie, 2014, 126, 5702-5705.	2.0	10
32	Stimulated Raman scattering imaging with small vibrational probes. , 2022, , 289-310.		3
33	What can stimulated emission do for bioimaging?. Annals of the New York Academy of Sciences, 2013, 1293, 1-7.	3.8	1
34	Super-nonlinear fluorescence microscopy for high-contrast deep tissue imaging. Proceedings of SPIE, 2014, , .	0.8	0
35	Vibrational Imaging of Glucose Uptake in Live Cells and Tissues by Stimulated Raman Scattering Microscopy. Biophysical Journal, 2015, 108, 480a.	0.5	0
36	Bioorthogonal vibrational imaging of dynamic metabolism in living organisms. , 2015, , .		0

#	Article	IF	Citations
37	Optical Imaging of Vibrationally-Tagged Small molecules for Biomedicine. , 2016, , .		0
38	Chemical imaging for Biomedicine. , 2019, , .		0
39	Volumetric chemical imaging by clearing-enhanced stimulated Raman scattering microscopy. , 2022, , .		0