Yihui Shen

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/11909092/publications.pdf

Version: 2024-02-01

24 papers	2,549 citations	331670 21 h-index	580821 25 g-index
26 all docs	26 docs citations	26 times ranked	2677 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	Squalene accumulation in cholesterol auxotrophic lymphomas prevents oxidative cell death. Nature, 2019, 567, 118-122.	27.8	262
3	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
4	Optical imaging of metabolic dynamics in animals. Nature Communications, 2018, 9, 2995.	12.8	164
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	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
7	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.	7.1	118
8	Spectral tracing of deuterium for imaging glucose metabolism. Nature Biomedical Engineering, 2019, 3, 402-413.	22.5	116
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	Raman Imaging of Small Biomolecules. Annual Review of Biophysics, 2019, 48, 347-369.	10.0	93
11	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
12	CHP1 Regulates Compartmentalized Glycerolipid Synthesis by Activating GPAT4. Molecular Cell, 2019, 74, 45-58.e7.	9.7	83
13	Applications of vibrational tags in biological imaging by Raman microscopy. Analyst, The, 2017, 142, 4018-4029.	3.5	82
14	The small intestine shields the liver from fructose-induced steatosis. Nature Metabolism, 2020, 2, 586-593.	11.9	81
15	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
16	Stimulated Raman excited fluorescence spectroscopy and imaging. Nature Photonics, 2019, 13, 412-417.	31.4	71
17	Liveâ€Cell Quantitative Imaging of Proteome Degradation by Stimulated Raman Scattering. Angewandte Chemie - International Edition, 2014, 53, 5596-5599.	13.8	70
18	Two-color vibrational imaging of glucose metabolism using stimulated Raman scattering. Chemical Communications, 2018, 54, 152-155.	4.1	63

#	Article	IF	Citations
19	A comprehensive genome-scale model for Rhodosporidium toruloides IFO0880 accounting for functional genomics and phenotypic data. Metabolic Engineering Communications, 2019, 9, e00101.	3.6	55
20	NAD+ flux is maintained in aged mice despite lower tissue concentrations. Cell Systems, 2021, 12, 1160-1172.e4.	6.2	51
21	Electronic Resonant Stimulated Raman Scattering Micro-Spectroscopy. Journal of Physical Chemistry B, 2018, 122, 9218-9224.	2.6	30
22	Genome-scale metabolic reconstruction of the non-model yeast Issatchenkia orientalis SD108 and its application to organic acids production. Metabolic Engineering Communications, 2020, 11, e00148.	3.6	20
23	Invited Article: Visualizing protein synthesis in mice within vivolabeling of deuterated amino acids using vibrational imaging. APL Photonics, 2018, 3, 092401.	5.7	16
24	Liveâ€€Cell Quantitative Imaging of Proteome Degradation by Stimulated Raman Scattering. Angewandte Chemie, 2014, 126, 5702-5705.	2.0	10