

Delong Zhang

List of Publications by Year in descending order

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37
papers

2,021
citations

304743

22
h-index

434195

31
g-index

39
all docs

39
docs citations

39
times ranked

1924
citing authors

#	ARTICLE	IF	CITATIONS
1	Background-free stimulated Raman scattering imaging by manipulating photons in the spectral domain. , 2022, , 137-146.		2
2	Stimulated Raman voltage imaging for quantitative mapping of membrane potential. , 2022, , 487-499.		0
3	Single-shot Recognition of 3D Phase Images With Deep Learning. Laser and Photonics Reviews, 2022, 16, .	8.7	7
4	Second Harmonic Imaging Enhanced by Deep Learning Decipher. ACS Photonics, 2021, 8, 1562-1568.	6.6	2
5	Coherent Anti-Stokes Raman Scattering Microspectroscopy: An Emerging Technique for Non-Invasive Optical Assessment of a Local Bio-Nano-Environment. IEEE Journal of Selected Topics in Quantum Electronics, 2021, 27, 1-6.	2.9	3
6	Ultrafast chemical imaging by widefield photothermal sensing of infrared absorption. Science Advances, 2019, 5, eaav7127.	10.3	89
7	Fingerprinting a Living Cell by Raman Integrated Mid-Infrared Photothermal Microscopy. Analytical Chemistry, 2019, 91, 10750-10756.	6.5	55
8	Bond-selective transient phase imaging via sensing of the infrared photothermal effect. Light: Science and Applications, 2019, 8, 116.	16.6	62
9	Chemical imaging of fresh vascular smooth muscle cell response by epi-detected stimulated Raman scattering. Journal of Biophotonics, 2018, 11, e201700005.	2.3	5
10	Label-Free Vibrational Spectroscopic Imaging of Neuronal Membrane Potential. Journal of Physical Chemistry Letters, 2017, 8, 1932-1936.	4.6	48
11	Mid-Infrared Photothermal Imaging of Active Pharmaceutical Ingredients at Submicrometer Spatial Resolution. Analytical Chemistry, 2017, 89, 4863-4867.	6.5	68
12	Bond-Selective Imaging of Cells by Mid-Infrared Photothermal Microscopy in High Wavenumber Region. Journal of Physical Chemistry B, 2017, 121, 10249-10255.	2.6	49
13	Beating the diffraction limit in IR microscopy through detecting the thermal effect. , 2017, , .		0
14	Depth-Resolved Mid-Infrared Photothermal Imaging of Living Cells and Organisms at Sub-Micron Resolution. , 2017, , .		1
15	Depth-resolved mid-infrared photothermal imaging of living cells and organisms with submicrometer spatial resolution. Science Advances, 2016, 2, e1600521.	10.3	229
16	Coherent Raman Scattering Microscopy in Biology and Medicine. Annual Review of Biomedical Engineering, 2015, 17, 415-445.	12.3	153
17	Assessing Cholesterol Storage in Live Cells and C. elegans by Stimulated Raman Scattering Imaging of Phenyl-Diyne Cholesterol. Scientific Reports, 2015, 5, 7930.	3.3	122
18	Label-free spectroscopic detection of membrane potential using stimulated Raman scattering. Applied Physics Letters, 2015, 106, .	3.3	44

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19	Label-Free Imaging of Single Neuron Activities by Stimulated Raman Scattering. , 2015, , .		0
20	Vibrational Fingerprint Mapping Reveals Spatial Distribution of Functional Groups of Lignin in Plant Cell Wall. Analytical Chemistry, 2015, 87, 9436-9442.	6.5	32
21	Denoising Stimulated Raman Spectroscopic Images by Total Variation Minimization. Journal of Physical Chemistry C, 2015, 119, 19397-19403.	3.1	34
22	Label-free real-time imaging of myelination in the <i>Xenopus laevis</i> tadpole by <i>in vivo</i> stimulated Raman scattering microscopy. Journal of Biomedical Optics, 2014, 19, 086005.	2.6	23
23	Imaging Lipid Metabolism in Live <i>Caenorhabditis elegans</i> Using Fingerprint Vibrations. Angewandte Chemie - International Edition, 2014, 53, 11787-11792.	13.8	78
24	Fast Vibrational Imaging of Single Cells and Tissues by Stimulated Raman Scattering Microscopy. Accounts of Chemical Research, 2014, 47, 2282-2290.	15.6	134
25	Quantitative Vibrational Imaging by Hyperspectral Stimulated Raman Scattering Microscopy and Multivariate Curve Resolution Analysis. Analytical Chemistry, 2013, 85, 98-106.	6.5	198
26	Spectrally modulated stimulated Raman scattering imaging with an angle-to-wavelength pulse shaper. Optics Express, 2013, 21, 13864.	3.4	98
27	Label-Free Quantitative Imaging of Cholesterol in Intact Tissues by Hyperspectral Stimulated Raman Scattering Microscopy. Angewandte Chemie - International Edition, 2013, 52, 13042-13046.	13.8	91
28	Time-lens based hyperspectral stimulated Raman scattering imaging and quantitative spectral analysis. Journal of Biophotonics, 2013, 6, 815-820.	2.3	18
29	Spectroscopic SRS imaging with a time-lens source synchronized to a femtosecond pulse shaper. , 2013, , .		1
30	Label-Free Imaging of Lipid-Droplet Intracellular Motion in Early Drosophila Embryos Using Femtosecond-Stimulated Raman Loss Microscopy. Biophysical Journal, 2012, 102, 1666-1675.	0.5	52
31	Heterodyne detected nonlinear optical imaging in a lock-in free manner. Journal of Biophotonics, 2012, 5, 801-807.	2.3	63
32	Highly Sensitive Vibrational Imaging by Femtosecond Pulse Stimulated Raman Loss. Journal of Physical Chemistry Letters, 2011, 2, 1248-1253.	4.6	142
33	Longitudinal <i>in vivo</i> coherent anti-Stokes Raman scattering imaging of demyelination and remyelination in injured spinal cord. Journal of Biomedical Optics, 2011, 16, 1.	2.6	54
34	A femtosecond stimulated Raman loss (fSRL) microscope for highly sensitive bond-selective imaging. Proceedings of SPIE, 2011, , .	0.8	1
35	Multimodal coherent anti-Stokes Raman spectroscopic imaging with a fiber optical parametric oscillator. Applied Physics Letters, 2011, 98, 191106.	3.3	31
36	Fiber OPO for Multimodal CARS Imaging. , 2010, , .		0

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37	Enhanced Chemical Sensing with Multiorder Coherent Raman Scattering Spectroscopic Dephasing. Analytical Chemistry, 0, , .	6.5	3