

Ji-Xin Cheng

List of Publications by Year in descending order

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Version: 2024-02-01

281
papers

22,751
citations

8159

76
h-index

10127

140
g-index

304
all docs

304
docs citations

304
times ranked

21622
citing authors

#	ARTICLE	IF	CITATIONS
1	Converting hyperspectral SRS into chemical maps. , 2022, , 359-369.		0
2	Rapid determination of antimicrobial susceptibility by SRS single-cell metabolic imaging. , 2022, , 445-461.		0
3	Resolving molecular orientation by polarization-sensitive stimulated Raman scattering microscopy. , 2022, , 529-537.		0
4	Plasmon-enhanced stimulated Raman scattering microscopy. , 2022, , 343-356.		0
5	Miniaturized handheld stimulated Raman scattering microscope. , 2022, , 551-560.		0
6	Multiplex stimulated Raman scattering microscopy via a tuned amplifier. , 2022, , 91-98.		0
7	Photoinactivation of Catalase Sensitizes <i>Candida albicans</i> and <i>Candida auris</i> to ROS-Producing Agents and Immune Cells. <i>Advanced Science</i> , 2022, 9, e2104384.	5.6	12
8	Rapid Antimicrobial Susceptibility Testing by Stimulated Raman Scattering Imaging of Deuterium Incorporation in a Single Bacterium. <i>Journal of Visualized Experiments</i> , 2022, , .	0.2	1
9	Wide-Field Surface-Enhanced Coherent Anti-Stokes Raman Scattering Microscopy. <i>ACS Photonics</i> , 2022, 9, 1042-1049.	3.2	7
10	New "HOPE" laser for photoacoustic imaging of water. <i>Light: Science and Applications</i> , 2022, 11, 107.	7.7	1
11	High-precision neural stimulation through optoacoustic emitters. <i>Neurophotonics</i> , 2022, 9, 032207.	1.7	5
12	Photoinactivation of catalase sensitizes a wide range of bacteria to ROS-producing agents and immune cells. <i>JCI Insight</i> , 2022, 7, .	2.3	10
13	SRS-FISH: A high-throughput platform linking microbiome metabolism to identity at the single-cell level. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	3.3	17
14	Deep Brain Optoacoustic Stimulation Enabled by a Multifunctional Fiber-based Optoacoustic Emitter. , 2022, , .		0
15	Frizzled-7 Identifies Platinum-Tolerant Ovarian Cancer Cells Susceptible to Ferroptosis. <i>Cancer Research</i> , 2021, 81, 384-399.	0.4	113
16	Real-time imaging of surface chemical reactions by electrochemical photothermal reflectance microscopy. <i>Chemical Science</i> , 2021, 12, 1930-1936.	3.7	2
17	Polarization-sensitive stimulated Raman scattering imaging resolves amphotericin B orientation in <i>Candida</i> membrane. <i>Science Advances</i> , 2021, 7, .	4.7	27
18	Plasmon-enhanced coherent anti-stokes Raman scattering vs plasmon-enhanced stimulated Raman scattering: Comparison of line shape and enhancement factor. <i>Journal of Chemical Physics</i> , 2021, 154, 034201.	1.2	9

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19	Ambient Oxygen-Doped Conjugated Polymer for pH-Activatable Aggregation-Enhanced Photoacoustic Imaging in the Second Near-Infrared Window. <i>Analytical Chemistry</i> , 2021, 93, 3189-3195.	3.2	18
20	Neural Stimulation In Vitro and In Vivo by Photoacoustic Nanotransducers. <i>Matter</i> , 2021, 4, 654-674.	5.0	32
21	Granadaene Photobleaching Reduces the Virulence and Increases Antimicrobial Susceptibility of <i>Streptococcus agalactiae</i> . <i>Photochemistry and Photobiology</i> , 2021, 97, 816-825.	1.3	9
22	Vibrational Spectroscopic Detection of a Single Virus by Mid-Infrared Photothermal Microscopy. <i>Analytical Chemistry</i> , 2021, 93, 4100-4107.	3.2	37
23	Ultrasensitive Vibrational Imaging of Retinoids by Visible Preresonance Stimulated Raman Scattering Microscopy. <i>Advanced Science</i> , 2021, 8, 2003136.	5.6	21
24	Unveiling Cancer Metabolism through Spontaneous and Coherent Raman Spectroscopy and Stable Isotope Probing. <i>Cancers</i> , 2021, 13, 1718.	1.7	32
25	Microsecond fingerprint stimulated Raman spectroscopic imaging by ultrafast tuning and spatial-spectral learning. <i>Nature Communications</i> , 2021, 12, 3052.	5.8	58
26	Bond-selective imaging by optically sensing the mid-infrared photothermal effect. <i>Science Advances</i> , 2021, 7, .	4.7	61
27	Bond-selective interferometric scattering microscopy. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 364002.	1.3	6
28	Non-genetic photoacoustic stimulation of single neurons by a tapered fiber optoacoustic emitter. <i>Light: Science and Applications</i> , 2021, 10, 143.	7.7	27
29	Fluorescence-Detected Mid-Infrared Photothermal Microscopy. <i>Journal of the American Chemical Society</i> , 2021, 143, 11490-11499.	6.6	37
30	Interaction of tau with HNRNPA2B1 and N6-methyladenosine RNA mediates the progression of tauopathy. <i>Molecular Cell</i> , 2021, 81, 4209-4227.e12.	4.5	84
31	Coherent Raman scattering imaging with a near-infrared achromatic metalens. <i>APL Photonics</i> , 2021, 6, 096107.	3.0	8
32	Meta-optics achieves RGB-achromatic focusing for virtual reality. <i>Science Advances</i> , 2021, 7, .	4.7	142
33	Background-Suppressed High-Throughput Mid-Infrared Photothermal Microscopy via Pupil Engineering. <i>ACS Photonics</i> , 2021, 8, 3323-3336.	3.2	18
34	Multimodal Metabolic Imaging Reveals Pigment Reduction and Lipid Accumulation in Metastatic Melanoma. <i>BME Frontiers</i> , 2021, 2021, .	2.2	16
35	Multiwindow SRS Imaging Using a Rapid Widely Tunable Fiber Laser. <i>Analytical Chemistry</i> , 2021, 93, 15703-15711.	3.2	13
36	Raman microspectroscopy for microbiology. <i>Nature Reviews Methods Primers</i> , 2021, 1, .	11.8	57

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37	Investigating antibiotics in cells with pre-resonance stimulated Raman scattering hyperspectral microscopy. , 2021, , .		0
38	Nanosecond-resolution photothermal dynamic imaging via MHz digitization and match filtering. Nature Communications, 2021, 12, 7097.	5.8	27
39	Quinine Enhances Photo-Inactivation of Gram-Negative Bacteria. Journal of Infectious Diseases, 2020, 221, 618-626.	1.9	21
40	Room-Temperature Phosphorescence and Low-Energy Induced Direct Triplet Excitation of Alq ₃ Engineered Crystals. Journal of Physical Chemistry Letters, 2020, 11, 9364-9370.	2.1	4
41	Polymer Electrochromism Driven by Metabolic Activity Facilitates Rapid and Facile Bacterial Detection and Susceptibility Evaluation. Advanced Functional Materials, 2020, 30, 2005192.	7.8	17
42	A fiber optoacoustic emitter with controlled ultrasound frequency for cell membrane sonoporation at submillimeter spatial resolution. Photoacoustics, 2020, 20, 100208.	4.4	18
43	Highly sensitive lipid detection and localization in atherosclerotic plaque with a dual-frequency intravascular photoacoustic/ultrasound catheter. Translational Biophotonics, 2020, 2, e202000004.	1.4	9
44	Actionable Cytopathogenic Host Responses of Human Alveolar Type 2 Cells to SARS-CoV-2. Molecular Cell, 2020, 80, 1104-1122.e9.	4.5	94
45	Fingerprinting Bacterial Metabolic Response to Erythromycin by Raman-Integrated Mid-Infrared Photothermal Microscopy. Analytical Chemistry, 2020, 92, 14459-14465.	3.2	20
46	Tau Oligomers and Fibrils Exhibit Differential Patterns of Seeding and Association With RNA Binding Proteins. Frontiers in Neurology, 2020, 11, 579434.	1.1	21
47	Rapid Determination of Antimicrobial Susceptibility by Stimulated Raman Scattering Imaging of D ₂ O Metabolic Incorporation in a Single Bacterium. Advanced Science, 2020, 7, 2001452.	5.6	72
48	High-Speed Chemical Imaging by Dense-Net Learning of Femtosecond Stimulated Raman Scattering. Journal of Physical Chemistry Letters, 2020, 11, 8573-8578.	2.1	38
49	Antibiotic Resistance: Photo-Disassembly of Membrane Microdomains Revives Conventional Antibiotics against MRSA (Adv. Sci. 6/2020). Advanced Science, 2020, 7, 2070035.	5.6	0
50	Multiplex Stimulated Raman Scattering Imaging Cytometry Reveals Lipid-Rich Protrusions in Cancer Cells under Stress Condition. IScience, 2020, 23, 100953.	1.9	72
51	Imaging Chemical Kinetics of Radical Polymerization with an Ultrafast Coherent Raman Microscope. Advanced Science, 2020, 7, 1903644.	5.6	29
52	Optoacoustic brain stimulation at submillimeter spatial precision. Nature Communications, 2020, 11, 881.	5.8	47
53	Staphyloxanthin Photolysis Potentiates Low Concentration Silver Nanoparticles in Eradication of Methicillin-Resistant <i>Staphylococcus aureus</i> . Journal of Physical Chemistry C, 2020, 124, 5321-5330.	1.5	17
54	Photo-Disassembly of Membrane Microdomains Revives Conventional Antibiotics against MRSA. Advanced Science, 2020, 7, 1903117.	5.6	34

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55	Transient absorption microscopy: Technological innovations and applications in materials science and life science. <i>Journal of Chemical Physics</i> , 2020, 152, 020901.	1.2	41
56	Functionalized NIR-IR Semiconducting Polymer Nanoparticles for Single-Cell to Whole-Organ Imaging of PSMA-Positive Prostate Cancer. <i>Small</i> , 2020, 16, e2001215.	5.2	34
57	Dual-wavelength photo-killing of methicillin-resistant <i>Staphylococcus aureus</i> . <i>JCI Insight</i> , 2020, 5, .	2.3	22
58	Volumetric chemical imaging in vivo by a remote-focusing stimulated Raman scattering microscope. <i>Optics Express</i> , 2020, 28, 30210.	1.7	16
59	Stimulated Raman scattering signal generation in a scattering medium using self-reconstructing Bessel beams. <i>Photonics Research</i> , 2020, 8, 929.	3.4	7
60	Origin of dispersive line shapes in plasmon-enhanced stimulated Raman scattering microscopy. <i>Nanophotonics</i> , 2020, 10, 617-625.	2.9	6
61	Intravascular Photoacoustic Imaging of Lipid-Laden Plaques: From Fundamental Concept Toward Clinical Translation. , 2020, , 81-104.		4
62	40th Invited Paper: A Large RGB-Chromatic Metalens for Virtual/Augmented Reality Applications. <i>Digest of Technical Papers SID International Symposium</i> , 2020, 51, 575-578.	0.1	0
63	Ultrafast chemical imaging by widefield photothermal sensing of infrared absorption. <i>Science Advances</i> , 2019, 5, eaav7127.	4.7	89
64	Fingerprinting a Living Cell by Raman Integrated Mid-Infrared Photothermal Microscopy. <i>Analytical Chemistry</i> , 2019, 91, 10750-10756.	3.2	55
65	Electronic Preresonance Stimulated Raman Scattering Imaging of Red-Shifted Proteorhodopsins: Toward Quantitation of the Membrane Potential. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 4374-4381.	2.1	9
66	All-Glass, Large Metalens at Visible Wavelength Using Deep-Ultraviolet Projection Lithography. <i>Nano Letters</i> , 2019, 19, 8673-8682.	4.5	165
67	Label-free optical imaging of membrane potential. <i>Current Opinion in Biomedical Engineering</i> , 2019, 12, 118-125.	1.8	13
68	Label-Free Stimulated Raman Scattering Imaging of Neuronal Membrane Potential. , 2019, , 107-122.		3
69	Label-free quantitation of glycated hemoglobin in single red blood cells by transient absorption microscopy and phasor analysis. <i>Science Advances</i> , 2019, 5, eaav0561.	4.7	24
70	Photolysis of Staphyloxanthin in Methicillin-Resistant <i>Staphylococcus aureus</i> Potentiates Killing by Reactive Oxygen Species. <i>Advanced Science</i> , 2019, 6, 1900030.	5.6	59
71	Plasmon-enhanced stimulated Raman scattering microscopy with single-molecule detection sensitivity. <i>Nature Communications</i> , 2019, 10, 5318.	5.8	77
72	Bond-selective transient phase imaging via sensing of the infrared photothermal effect. <i>Light: Science and Applications</i> , 2019, 8, 116.	7.7	62

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73	siRNA Delivery Using Dithiocarbamate-Anchored Oligonucleotides on Gold Nanorods. <i>Bioconjugate Chemistry</i> , 2019, 30, 443-453.	1.8	20
74	Comparative Quantification of Arterial Lipid by Intravascular Photoacoustic-Ultrasound Imaging and Near-Infrared Spectroscopy-Intravascular Ultrasound. <i>Journal of Cardiovascular Translational Research</i> , 2019, 12, 211-220.	1.1	15
75	Quantitative imaging of intraerythrocytic hemozoin by transient absorption microscopy. <i>Journal of Biomedical Optics</i> , 2019, 25, 1.	1.4	9
76	Cylindrical illumination with angular coupling for whole-prostate photoacoustic tomography. <i>Biomedical Optics Express</i> , 2019, 10, 1405.	1.5	8
77	Volumetric stimulated Raman scattering imaging of cleared tissues towards three-dimensional chemical histopathology. <i>Biomedical Optics Express</i> , 2019, 10, 4329.	1.5	36
78	High-resolution photoacoustic endoscope through beam self-cleaning in a graded index fiber. <i>Optics Letters</i> , 2019, 44, 3841.	1.7	26
79	Absorption-Based Far-Field Label-Free Super-Resolution Microscopy. <i>Biological and Medical Physics Series</i> , 2019, , 137-169.	0.3	0
80	Pre-resonance stimulated Raman scattering spectroscopy and imaging of membrane potential using near-infrared rhodopsins. , 2019, , .		2
81	SRS image cytometry for high-content single cell analysis. , 2019, , .		0
82	Antibiotic Susceptibility Determination within One Cell Cycle at Single-Bacterium Level by Stimulated Raman Metabolic Imaging. <i>Analytical Chemistry</i> , 2018, 90, 3737-3743.	3.2	86
83	Nanoladders Facilitate Directional Axonal Outgrowth and Regeneration. <i>ACS Biomaterials Science and Engineering</i> , 2018, 4, 1037-1045.	2.6	6
84	Quantitative Assessment of Liver Steatosis and Affected Pathways with Molecular Imaging and Proteomic Profiling. <i>Scientific Reports</i> , 2018, 8, 3606.	1.6	31
85	Fast assessment of lipid content in arteries in vivo by intravascular photoacoustic tomography. <i>Scientific Reports</i> , 2018, 8, 2400.	1.6	52
86	Label-Free Imaging of Heme Dynamics in Living Organisms by Transient Absorption Microscopy. <i>Analytical Chemistry</i> , 2018, 90, 3395-3401.	3.2	31
87	High-Speed Spectroscopic Transient Absorption Imaging of Defects in Graphene. <i>Nano Letters</i> , 2018, 18, 1489-1497.	4.5	26
88	<i>In Vivo</i> and <i>In Situ</i> Spectroscopic Imaging by a Handheld Stimulated Raman Scattering Microscope. <i>ACS Photonics</i> , 2018, 5, 947-954.	3.2	58
89	In vitro exploration of ACAT contributions to lipid droplet formation during adipogenesis. <i>Journal of Lipid Research</i> , 2018, 59, 820-829.	2.0	29
90	Cholesterol Esterification Inhibition Suppresses Prostate Cancer Metastasis by Impairing the Wnt/ β -catenin Pathway. <i>Molecular Cancer Research</i> , 2018, 16, 974-985.	1.5	52

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91	Chemical imaging of fresh vascular smooth muscle cell response by epidectected stimulated Raman scattering. <i>Journal of Biophotonics</i> , 2018, 11, e201700005.	1.1	5
92	High-speed intraoperative assessment of breast tumour margins by multimodal ultrasound and photoacoustic tomography. <i>Medical Devices & Sensors</i> , 2018, 1, e10018.	2.7	12
93	Spectroscopic stimulated Raman scattering imaging of highly dynamic specimens through matrix completion. <i>Light: Science and Applications</i> , 2018, 7, 17179-17179.	7.7	51
94	A fiber optoacoustic guide with augmented reality for precision breast-conserving surgery. <i>Light: Science and Applications</i> , 2018, 7, 2.	7.7	28
95	Perspective: Coherent Raman scattering microscopy, the future is bright. <i>APL Photonics</i> , 2018, 3, .	3.0	69
96	Photoacoustic tomography of intact human prostates and vascular texture analysis identify prostate cancer biopsy targets. <i>Photoacoustics</i> , 2018, 11, 46-55.	4.4	22
97	Cholesterol esterification inhibition and gemcitabine synergistically suppress pancreatic ductal adenocarcinoma proliferation. <i>PLoS ONE</i> , 2018, 13, e0193318.	1.1	43
98	Fingerprint Stimulated Raman Scattering Imaging Reveals Retinoid Coupling Lipid Metabolism and Survival. <i>ChemPhysChem</i> , 2018, 19, 2500-2506.	1.0	25
99	Imaging of demineralized enamel in intact tooth by epidectected stimulated Raman scattering microscopy. <i>Journal of Biomedical Optics</i> , 2018, 23, 1.	1.4	5
100	Stimulated Raman spectroscopic imaging by microsecond delay-line tuning. , 2017, , .		0
101	Label-Free Vibrational Spectroscopic Imaging of Neuronal Membrane Potential. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 1932-1936.	2.1	48
102	Mid-Infrared Photothermal Imaging of Active Pharmaceutical Ingredients at Submicrometer Spatial Resolution. <i>Analytical Chemistry</i> , 2017, 89, 4863-4867.	3.2	68
103	Real-time intravascular photoacoustic-ultrasound imaging of lipid-laden plaque in human coronary artery at 16 frames per second. <i>Scientific Reports</i> , 2017, 7, 1417.	1.6	68
104	Real-time intravascular photoacoustic-ultrasound imaging of lipid-laden plaque at speed of video-rate level. <i>Proceedings of SPIE</i> , 2017, , .	0.8	1
105	Volumetric chemical imaging by stimulated Raman projection microscopy and tomography. <i>Nature Communications</i> , 2017, 8, 15117.	5.8	61
106	3,3'-diindolylmethane suppresses high-fat diet-induced obesity through inhibiting adipogenesis of preadipocytes by targeting USP2 activity. <i>Molecular Nutrition and Food Research</i> , 2017, 61, 1700119.	1.5	29
107	Spectral analysis assisted photoacoustic imaging for lipid composition differentiation. <i>Photoacoustics</i> , 2017, 7, 12-19.	4.4	28
108	Quantification of Lipid Metabolism in Living Cells through the Dynamics of Lipid Droplets Measured by Stimulated Raman Scattering Imaging. <i>Analytical Chemistry</i> , 2017, 89, 4502-4507.	3.2	63

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109	Lipid Desaturation Is a Metabolic Marker and Therapeutic Target of Ovarian Cancer Stem Cells. <i>Cell Stem Cell</i> , 2017, 20, 303-314.e5.	5.2	414
110	Bond-Selective Imaging of Cells by Mid-Infrared Photothermal Microscopy in High Wavenumber Region. <i>Journal of Physical Chemistry B</i> , 2017, 121, 10249-10255.	1.2	49
111	Semiconducting Polymer Nanoparticles for Centimeters-Deep Photoacoustic Imaging in the Second Near-Infrared Window. <i>Advanced Materials</i> , 2017, 29, 1703403.	11.1	136
112	Imaging chemistry inside living cells by stimulated Raman scattering microscopy. <i>Methods</i> , 2017, 128, 119-128.	1.9	39
113	Evolution of Membrane Fouling Revealed by Label-Free Vibrational Spectroscopic Imaging. <i>Environmental Science & Technology</i> , 2017, 51, 9580-9587.	4.6	36
114	Stimulated Raman Imaging Reveals Aberrant Lipogenesis as a Metabolic Marker for Azole-Resistant <i>Candida albicans</i> . <i>Analytical Chemistry</i> , 2017, 89, 9822-9829.	3.2	25
115	Nrg4 promotes fuel oxidation and a healthy adipokine profile to ameliorate diet-induced metabolic disorders. <i>Molecular Metabolism</i> , 2017, 6, 863-872.	3.0	97
116	Stimulated Raman scattering flow cytometry for label-free single-particle analysis. <i>Optica</i> , 2017, 4, 103.	4.8	86
117	Intermuscular Adipose Tissue Content and Intramyocellular Lipid Fatty Acid Saturation Are Associated with Glucose Homeostasis in Middle-Aged and Older Adults. <i>Endocrinology and Metabolism</i> , 2017, 32, 257.	1.3	17
118	High-speed stimulated hyperspectral Raman imaging using rapid acousto-optic delay lines. <i>Optics Letters</i> , 2017, 42, 1548.	1.7	53
119	Cholesterol esterification inhibition and imatinib treatment synergistically inhibit growth of BCR-ABL mutation-independent resistant chronic myelogenous leukemia. <i>PLoS ONE</i> , 2017, 12, e0179558.	1.1	41
120	Stimulated Raman spectroscopic imaging by microsecond delay-line tuning. <i>Optica</i> , 2016, 3, 1377.	4.8	73
121	Bond-selective photoacoustic imaging by converting molecular vibration into acoustic waves. <i>Photoacoustics</i> , 2016, 4, 11-21.	4.4	66
122	Coherent anti-Stokes Raman scattering imaging under ambient light. <i>Optics Letters</i> , 2016, 41, 3880.	1.7	6
123	In situ Detection of a Single Bacterium in Complex Environment by Hyperspectral CARS Imaging. <i>ChemistrySelect</i> , 2016, 1, 513-517.	0.7	19
124	Photochemical Tagging for Quantitation of Unsaturated Fatty Acids by Mass Spectrometry. <i>Analytical Chemistry</i> , 2016, 88, 8931-8935.	3.2	82
125	Depth-resolved mid-infrared photothermal imaging of living cells and organisms with submicrometer spatial resolution. <i>Science Advances</i> , 2016, 2, e1600521.	4.7	229
126	High-sensitivity intravascular photoacoustic imaging of lipid-laden plaque with a collinear catheter design. <i>Scientific Reports</i> , 2016, 6, 25236.	1.6	78

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127	Deciphering single cell metabolism by coherent Raman scattering microscopy. <i>Current Opinion in Chemical Biology</i> , 2016, 33, 46-57.	2.8	55
128	In Situ and In Vivo Molecular Analysis by Coherent Raman Scattering Microscopy. <i>Annual Review of Analytical Chemistry</i> , 2016, 9, 69-93.	2.8	35
129	Label-free <i>in vivo</i> imaging of peripheral nerve by multispectral photoacoustic tomography. <i>Journal of Biophotonics</i> , 2016, 9, 124-128.	1.1	29
130	Highly Sensitive Intravascular Photoacoustic Imaging with a Collinear Catheter Probe. , 2016, , .		0
131	High-speed intravascular photoacoustic imaging at 17 μ m with a KTP-based OPO. <i>Biomedical Optics Express</i> , 2015, 6, 4557.	1.5	41
132	Morphological and Biomechanical Differences in the Elastase and AngII α Rodent Models of Abdominal Aortic Aneurysms. <i>BioMed Research International</i> , 2015, 2015, 1-12.	0.9	38
133	Converting Molecular Vibration to Mechanical Wave for Bond-Selective Imaging of Deep Tissue. <i>Chinese Journal of Chemical Physics</i> , 2015, 28, 375-382.	0.6	2
134	Coherent Raman Scattering Microscopy in Biology and Medicine. <i>Annual Review of Biomedical Engineering</i> , 2015, 17, 415-445.	5.7	153
135	Avasimibe Encapsulated in Human Serum Albumin Blocks Cholesterol Esterification for Selective Cancer Treatment. <i>ACS Nano</i> , 2015, 9, 2420-2432.	7.3	68
136	Assessing Cholesterol Storage in Live Cells and <i>C. elegans</i> by Stimulated Raman Scattering Imaging of Phenyl-Diyne Cholesterol. <i>Scientific Reports</i> , 2015, 5, 7930.	1.6	122
137	Highly sensitive transient absorption imaging of graphene and graphene oxide in living cells and circulating blood. <i>Scientific Reports</i> , 2015, 5, 12394.	1.6	30
138	Assessing carotid atherosclerosis by fiber-optic multispectral photoacoustic tomography. <i>Proceedings of SPIE</i> , 2015, , .	0.8	2
139	Assessing breast tumor margin by multispectral photoacoustic tomography. <i>Biomedical Optics Express</i> , 2015, 6, 1273.	1.5	101
140	Spectrometer-free vibrational imaging by retrieving stimulated Raman signal from highly scattered photons. <i>Science Advances</i> , 2015, 1, e1500738.	4.7	88
141	Microsecond scale vibrational spectroscopic imaging by multiplex stimulated Raman scattering microscopy. <i>Light: Science and Applications</i> , 2015, 4, e265-e265.	7.7	172
142	Label-free spectroscopic detection of membrane potential using stimulated Raman scattering. <i>Applied Physics Letters</i> , 2015, 106, .	1.5	44
143	Vibrational Fingerprint Mapping Reveals Spatial Distribution of Functional Groups of Lignin in Plant Cell Wall. <i>Analytical Chemistry</i> , 2015, 87, 9436-9442.	3.2	32
144	Vibrational spectroscopic imaging of living systems: An emerging platform for biology and medicine. <i>Science</i> , 2015, 350, aaa8870.	6.0	599

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145	Denoising Stimulated Raman Spectroscopic Images by Total Variation Minimization. <i>Journal of Physical Chemistry C</i> , 2015, 119, 19397-19403.	1.5	34
146	Abstract 253: Vibrational Photoacoustic Imaging of Lipid in Murine Abdominal Aortic Aneurysms and Atherosclerosis. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2015, 35, .	1.1	1
147	Assessment of White Matter Loss Using Bond-Selective Photoacoustic Imaging in a Rat Model of Contusive Spinal Cord Injury. <i>Journal of Neurotrauma</i> , 2014, 31, 1998-2002.	1.7	23
148	Label-free real-time imaging of myelination in the <i>Xenopus laevis</i> tadpole by <i>in vivo</i> stimulated Raman scattering microscopy. <i>Journal of Biomedical Optics</i> , 2014, 19, 086005.	1.4	23
149	Neuroprotective ferulic acid (FA) glycol chitosan (GC) nanoparticles for functional restoration of traumatically injured spinal cord. <i>Biomaterials</i> , 2014, 35, 2355-2364.	5.7	105
150	Cholesteryl Ester Accumulation Induced by PTEN Loss and PI3K/AKT Activation Underlies Human Prostate Cancer Aggressiveness. <i>Cell Metabolism</i> , 2014, 19, 393-406.	7.2	671
151	Imaging Lipid Metabolism in Live <i>Caenorhabditis elegans</i> Using Fingerprint Vibrations. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 11787-11792.	7.2	78
152	Plk1 Inhibition Enhances the Efficacy of Androgen Signaling Blockade in Castration-Resistant Prostate Cancer. <i>Cancer Research</i> , 2014, 74, 6635-6647.	0.4	87
153	Fast Vibrational Imaging of Single Cells and Tissues by Stimulated Raman Scattering Microscopy. <i>Accounts of Chemical Research</i> , 2014, 47, 2282-2290.	7.6	134
154	High-speed Intravascular Photoacoustic Imaging of Lipid-laden Atherosclerotic Plaque Enabled by a 2-kHz Barium Nitrite Raman Laser. <i>Scientific Reports</i> , 2014, 4, 6889.	1.6	107
155	Direct Visualization of De novo Lipogenesis in Single Living Cells. <i>Scientific Reports</i> , 2014, 4, 6807.	1.6	139
156	Imaging Cytoplasmic Lipid Droplets in Enterocytes and Assessing Dietary Fat Absorption. <i>Methods in Cell Biology</i> , 2013, 116, 151-166.	0.5	11
157	FRET Imaging Reveals Different Cellular Entry Routes of Self-Assembled and Disulfide Bonded Polymeric Micelles. <i>Molecular Pharmaceutics</i> , 2013, 10, 3497-3506.	2.3	47
158	Nanomedicine for treating spinal cord injury. <i>Nanoscale</i> , 2013, 5, 8821.	2.8	63
159	Vibrational Photoacoustic Tomography: Chemical Imaging beyond the Ballistic Regime. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 3211-3215.	2.1	15
160	Quantitative Vibrational Imaging by Hyperspectral Stimulated Raman Scattering Microscopy and Multivariate Curve Resolution Analysis. <i>Analytical Chemistry</i> , 2013, 85, 98-106.	3.2	198
161	Triacylglycerol Synthesis Enzymes Mediate Lipid Droplet Growth by Relocalizing from the ER to Lipid Droplets. <i>Developmental Cell</i> , 2013, 24, 384-399.	3.1	623
162	Single Cell Optical Imaging and Spectroscopy. <i>Chemical Reviews</i> , 2013, 113, 2469-2527.	23.0	250

#	ARTICLE	IF	CITATIONS
163	Biaxial deformation of collagen and elastin fibers in coronary adventitia. <i>Journal of Applied Physiology</i> , 2013, 115, 1683-1693.	1.2	57
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