

# Ji-Xin Cheng

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

270 papers	17,612 citations	68 h-index	126 g-index
304 ext. papers	20,488 ext. citations	7.6 avg, IF	6.95 L-index

#	Paper	IF	Citations
270	Converting hyperspectral SRS into chemical maps <b>2022</b> , 359-369		
269	Rapid determination of antimicrobial susceptibility by SRS single-cell metabolic imaging <b>2022</b> , 445-461		
268	Resolving molecular orientation by polarization-sensitive stimulated Raman scattering microscopy <b>2022</b> , 529-537		
267	Plasmon-enhanced stimulated Raman scattering microscopy <b>2022</b> , 343-356		
266	Miniaturized handheld stimulated Raman scattering microscope <b>2022</b> , 551-560		
265	Multiplex stimulated Raman scattering microscopy via a tuned amplifier <b>2022</b> , 91-98		
264	Photoinactivation of Catalase Sensitizes <i>Candida albicans</i> and <i>Candida auris</i> to ROS-Producing Agents and Immune Cells.. <i>Advanced Science</i> , <b>2022</b> , e2104384	13.6	3
263	Wide-Field Surface-Enhanced Coherent Anti-Stokes Raman Scattering Microscopy. <i>ACS Photonics</i> , <b>2022</b> , 9, 1042-1049	6.3	0
262	New "HOPE" laser for photoacoustic imaging of water.. <i>Light: Science and Applications</i> , <b>2022</b> , 11, 107	16.7	0
261	High-precision neural stimulation through optoacoustic emitters.. <i>Neurophotonics</i> , <b>2022</b> , 9, 032207	3.9	0
260	Multiwindow SRS Imaging Using a Rapid Widely Tunable Fiber Laser. <i>Analytical Chemistry</i> , <b>2021</b> , 93, 15703-15711	15.1	1
259	Raman microspectroscopy for microbiology. <i>Nature Reviews Methods Primers</i> , <b>2021</b> , 1,		9
258	Multimodal Metabolic Imaging Reveals Pigment Reduction and Lipid Accumulation in Metastatic Melanoma. <i>BME Frontiers</i> , <b>2021</b> , 2021, 1-17	4.4	1
257	Unveiling Cancer Metabolism through Spontaneous and Coherent Raman Spectroscopy and Stable Isotope Probing. <i>Cancers</i> , <b>2021</b> , 13,	6.6	8
256	Microsecond fingerprint stimulated Raman spectroscopic imaging by ultrafast tuning and spatial-spectral learning. <i>Nature Communications</i> , <b>2021</b> , 12, 3052	17.4	15
255	Bond-selective imaging by optically sensing the mid-infrared photothermal effect. <i>Science Advances</i> , <b>2021</b> , 7,	14.3	12
254	Bond-selective interferometric scattering microscopy. <i>Journal Physics D: Applied Physics</i> , <b>2021</b> , 54, 364002		0

253	Frizzled-7 Identifies Platinum-Tolerant Ovarian Cancer Cells Susceptible to Ferroptosis. <i>Cancer Research</i> , <b>2021</b> , 81, 384-399	10.1	34
252	Polarization-sensitive stimulated Raman scattering imaging resolves amphotericin B orientation in membrane. <i>Science Advances</i> , <b>2021</b> , 7,	14.3	7
251	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> , <b>2021</b> , 154, 034201	3.9	6
250	Ambient Oxygen-Doped Conjugated Polymer for pH-Activatable Aggregation-Enhanced Photoacoustic Imaging in the Second Near-Infrared Window. <i>Analytical Chemistry</i> , <b>2021</b> , 93, 3189-3195	7.8	10
249	Neural Stimulation In Vitro and In Vivo by Photoacoustic Nanotransducers. <i>Matter</i> , <b>2021</b> , 4, 654-674	12.7	6
248	Granadaene Photobleaching Reduces the Virulence and Increases Antimicrobial Susceptibility of <i>Streptococcus agalactiae</i> . <i>Photochemistry and Photobiology</i> , <b>2021</b> , 97, 816-825	3.6	3
247	Vibrational Spectroscopic Detection of a Single Virus by Mid-Infrared Photothermal Microscopy. <i>Analytical Chemistry</i> , <b>2021</b> , 93, 4100-4107	7.8	13
246	Ultrasensitive Vibrational Imaging of Retinoids by Visible Preresonance Stimulated Raman Scattering Microscopy. <i>Advanced Science</i> , <b>2021</b> , 8, 2003136	13.6	4
245	Non-genetic photoacoustic stimulation of single neurons by a tapered fiber optoacoustic emitter. <i>Light: Science and Applications</i> , <b>2021</b> , 10, 143	16.7	4
244	Fluorescence-Detected Mid-Infrared Photothermal Microscopy. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 11490-11499	16.4	8
243	Interaction of tau with HNRNPA2B1 and N-methyladenosine RNA mediates the progression of tauopathy. <i>Molecular Cell</i> , <b>2021</b> , 81, 4209-4227.e12	17.6	11
242	Coherent Raman scattering imaging with a near-infrared achromatic metalens. <i>APL Photonics</i> , <b>2021</b> , 6, 096107	5.2	1
241	Meta-optics achieves RGB-achromatic focusing for virtual reality. <i>Science Advances</i> , <b>2021</b> , 7,	14.3	42
240	Nanosecond-resolution photothermal dynamic imaging via MHz digitization and match filtering. <i>Nature Communications</i> , <b>2021</b> , 12, 7097	17.4	1
239	Antibiotic Resistance: Photo-Disassembly of Membrane Microdomains Revives Conventional Antibiotics against MRSA (Adv. Sci. 6/2020). <i>Advanced Science</i> , <b>2020</b> , 7, 2070035	13.6	78
238	Multiplex Stimulated Raman Scattering Imaging Cytometry Reveals Lipid-Rich Protrusions in Cancer Cells under Stress Condition. <i>iScience</i> , <b>2020</b> , 23, 100953	6.1	29
237	Imaging Chemical Kinetics of Radical Polymerization with an Ultrafast Coherent Raman Microscope. <i>Advanced Science</i> , <b>2020</b> , 7, 1903644	13.6	13
236	Optoacoustic brain stimulation at submillimeter spatial precision. <i>Nature Communications</i> , <b>2020</b> , 11, 881	17.4	21

235	Staphyloxanthin Photolysis Potentiates Low Concentration Silver Nanoparticles in Eradication of Methicillin-Resistant <i>Staphylococcus aureus</i> . <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 5321-5330	3.8	9
234	Photo-Disassembly of Membrane Microdomains Revives Conventional Antibiotics against MRSA. <i>Advanced Science</i> , <b>2020</b> , 7, 1903117	13.6	12
233	Transient absorption microscopy: Technological innovations and applications in materials science and life science. <i>Journal of Chemical Physics</i> , <b>2020</b> , 152, 020901	3.9	27
232	Dual-wavelength photo-killing of methicillin-resistant <i>Staphylococcus aureus</i> . <i>JCI Insight</i> , <b>2020</b> , 5,	9.9	11
231	Volumetric chemical imaging in vivo by a remote-focusing stimulated Raman scattering microscope. <i>Optics Express</i> , <b>2020</b> , 28, 30210-30221	3.3	8
230	Stimulated Raman scattering signal generation in a scattering medium using self-reconstructing Bessel beams. <i>Photonics Research</i> , <b>2020</b> , 8, 929	6	4
229	Origin of dispersive line shapes in plasmon-enhanced stimulated Raman scattering microscopy. <i>Nanophotonics</i> , <b>2020</b> , 10, 617-625	6.3	5
228	Intravascular Photoacoustic Imaging of Lipid-Laden Plaques: From Fundamental Concept Toward Clinical Translation <b>2020</b> , 81-104		0
227	40-3: Invited Paper: A Large RGB-achromatic Metalens for Virtual/Augmented Reality Applications. <i>Digest of Technical Papers SID International Symposium</i> , <b>2020</b> , 51, 575-578	0.5	
226	Room-Temperature Phosphorescence and Low-Energy Induced Direct Triplet Excitation of Alq Engineered Crystals. <i>Journal of Physical Chemistry Letters</i> , <b>2020</b> , 11, 9364-9370	6.4	1
225	Polymer Electrochromism Driven by Metabolic Activity Facilitates Rapid and Facile Bacterial Detection and Susceptibility Evaluation. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2005192	15.6	7
224	A fiber optoacoustic emitter with controlled ultrasound frequency for cell membrane sonoporation at submillimeter spatial resolution. <i>Photoacoustics</i> , <b>2020</b> , 20, 100208	9	6
223	Highly sensitive lipid detection and localization in atherosclerotic plaque with a dual-frequency intravascular photoacoustic/ultrasound catheter. <i>Translational Biophotonics</i> , <b>2020</b> , 2, e202000004	2.2	2
222	Actionable Cytopathogenic Host Responses of Human Alveolar Type 2 Cells to SARS-CoV-2. <i>Molecular Cell</i> , <b>2020</b> , 80, 1104-1122.e9	17.6	38
221	Fingerprinting Bacterial Metabolic Response to Erythromycin by Raman-Integrated Mid-Infrared Photothermal Microscopy. <i>Analytical Chemistry</i> , <b>2020</b> , 92, 14459-14465	7.8	6
220	Tau Oligomers and Fibrils Exhibit Differential Patterns of Seeding and Association With RNA Binding Proteins. <i>Frontiers in Neurology</i> , <b>2020</b> , 11, 579434	4.1	4
219	Rapid Determination of Antimicrobial Susceptibility by Stimulated Raman Scattering Imaging of DO Metabolic Incorporation in a Single Bacterium. <i>Advanced Science</i> , <b>2020</b> , 7, 2001452	13.6	27
218	High-Speed Chemical Imaging by Dense-Net Learning of Femtosecond Stimulated Raman Scattering. <i>Journal of Physical Chemistry Letters</i> , <b>2020</b> , 11, 8573-8578	6.4	15

217	Quinine Enhances Photo-Inactivation of Gram-Negative Bacteria. <i>Journal of Infectious Diseases</i> , <b>2020</b> , 221, 618-626	7	11
216	Functionalized NIR-II Semiconducting Polymer Nanoparticles for Single-cell to Whole-Organ Imaging of PSMA-Positive Prostate Cancer. <i>Small</i> , <b>2020</b> , 16, e2001215	11	26
215	Real-time imaging of surface chemical reactions by electrochemical photothermal reflectance microscopy. <i>Chemical Science</i> , <b>2020</b> , 12, 1930-1936	9.4	2
214	Label-Free Stimulated Raman Scattering Imaging of Neuronal Membrane Potential <b>2019</b> , 107-122		3
213	Label-free quantitation of glycated hemoglobin in single red blood cells by transient absorption microscopy and phasor analysis. <i>Science Advances</i> , <b>2019</b> , 5, eaav0561	14.3	11
212	Photolysis of Staphyloxanthin in Methicillin-Resistant Potentiates Killing by Reactive Oxygen Species. <i>Advanced Science</i> , <b>2019</b> , 6, 1900030	13.6	26
211	Ultrafast chemical imaging by widefield photothermal sensing of infrared absorption. <i>Science Advances</i> , <b>2019</b> , 5, eaav7127	14.3	40
210	Fingerprinting a Living Cell by Raman Integrated Mid-Infrared Photothermal Microscopy. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 10750-10756	7.8	27
209	Electronic Preresonance Stimulated Raman Scattering Imaging of Red-Shifted Proteorhodopsins: Toward Quantitation of the Membrane Potential. <i>Journal of Physical Chemistry Letters</i> , <b>2019</b> , 10, 4374-4381	6.4	5
208	All-Glass, Large Metalens at Visible Wavelength Using Deep-Ultraviolet Projection Lithography. <i>Nano Letters</i> , <b>2019</b> , 19, 8673-8682	11.5	82
207	Label-free Optical Imaging of Membrane Potential. <i>Current Opinion in Biomedical Engineering</i> , <b>2019</b> , 12, 118-125	4.4	8
206	Quantitative imaging of intraerythrocytic hemozoin by transient absorption microscopy. <i>Journal of Biomedical Optics</i> , <b>2019</b> , 25, 1-11	3.5	5
205	Cylindrical illumination with angular coupling for whole-prostate photoacoustic tomography. <i>Biomedical Optics Express</i> , <b>2019</b> , 10, 1405-1419	3.5	7
204	Volumetric stimulated Raman scattering imaging of cleared tissues towards three-dimensional chemical histopathology. <i>Biomedical Optics Express</i> , <b>2019</b> , 10, 4329-4339	3.5	24
203	High-resolution photoacoustic endoscope through beam self-cleaning in a graded index fiber. <i>Optics Letters</i> , <b>2019</b> , 44, 3841-3844	3	15
202	Absorption-Based Far-Field Label-Free Super-Resolution Microscopy <b>2019</b> , 137-169		
201	Plasmon-enhanced stimulated Raman scattering microscopy with single-molecule detection sensitivity. <i>Nature Communications</i> , <b>2019</b> , 10, 5318	17.4	34
200	Bond-selective transient phase imaging via sensing of the infrared photothermal effect. <i>Light: Science and Applications</i> , <b>2019</b> , 8, 116	16.7	32

199	siRNA Delivery Using Dithiocarbamate-Anchored Oligonucleotides on Gold Nanorods. <i>Bioconjugate Chemistry</i> , <b>2019</b> , 30, 443-453	6.3	15
198	Comparative Quantification of Arterial Lipid by Intravascular Photoacoustic-Ultrasound Imaging and Near-Infrared Spectroscopy-Intravascular Ultrasound. <i>Journal of Cardiovascular Translational Research</i> , <b>2019</b> , 12, 211-220	3.3	10
197	Antibiotic Susceptibility Determination within One Cell Cycle at Single-Bacterium Level by Stimulated Raman Metabolic Imaging. <i>Analytical Chemistry</i> , <b>2018</b> , 90, 3737-3743	7.8	52
196	Nanoladders Facilitate Directional Axonal Outgrowth and Regeneration. <i>ACS Biomaterials Science and Engineering</i> , <b>2018</b> , 4, 1037-1045	5.5	3
195	Quantitative Assessment of Liver Steatosis and Affected Pathways with Molecular Imaging and Proteomic Profiling. <i>Scientific Reports</i> , <b>2018</b> , 8, 3606	4.9	22
194	Fast assessment of lipid content in arteries in vivo by intravascular photoacoustic tomography. <i>Scientific Reports</i> , <b>2018</b> , 8, 2400	4.9	41
193	Label-Free Imaging of Heme Dynamics in Living Organisms by Transient Absorption Microscopy. <i>Analytical Chemistry</i> , <b>2018</b> , 90, 3395-3401	7.8	21
192	High-Speed Spectroscopic Transient Absorption Imaging of Defects in Graphene. <i>Nano Letters</i> , <b>2018</b> , 18, 1489-1497	11.5	18
191	In Vivo and in Situ Spectroscopic Imaging by a Handheld Stimulated Raman Scattering Microscope. <i>ACS Photonics</i> , <b>2018</b> , 5, 947-954	6.3	43
190	In vitro exploration of ACAT contributions to lipid droplet formation during adipogenesis. <i>Journal of Lipid Research</i> , <b>2018</b> , 59, 820-829	6.3	17
189	Cholesterol Esterification Inhibition Suppresses Prostate Cancer Metastasis by Impairing the Wnt/ $\beta$ -catenin Pathway. <i>Molecular Cancer Research</i> , <b>2018</b> , 16, 974-985	6.6	32
188	Chemical imaging of fresh vascular smooth muscle cell response by epi-detected stimulated Raman scattering. <i>Journal of Biophotonics</i> , <b>2018</b> , 11, e201700005	3.1	4
187	Perspective: Coherent Raman scattering microscopy, the future is bright. <i>APL Photonics</i> , <b>2018</b> , 3, 090901	5.2	44
186	Photoacoustic tomography of intact human prostates and vascular texture analysis identify prostate cancer biopsy targets. <i>Photoacoustics</i> , <b>2018</b> , 11, 46-55	9	11
185	Cholesterol esterification inhibition and gemcitabine synergistically suppress pancreatic ductal adenocarcinoma proliferation. <i>PLoS ONE</i> , <b>2018</b> , 13, e0193318	3.7	20
184	Fingerprint Stimulated Raman Scattering Imaging Reveals Retinoid Coupling Lipid Metabolism and Survival. <i>ChemPhysChem</i> , <b>2018</b> , 19, 2500-2506	3.2	17
183	Imaging of demineralized enamel in intact tooth by epi-detected stimulated Raman scattering microscopy. <i>Journal of Biomedical Optics</i> , <b>2018</b> , 23, 1-9	3.5	4
182	High-speed Intraoperative Assessment of Breast Tumor Margins by Multimodal Ultrasound and Photoacoustic Tomography. <i>Medical Devices &amp; Sensors</i> , <b>2018</b> , 1, e10018	1.6	8

181	Spectroscopic stimulated Raman scattering imaging of highly dynamic specimens through matrix completion. <i>Light: Science and Applications</i> , <b>2018</b> , 7, 17179	16.7	38
180	A fiber optoacoustic guide with augmented reality for precision breast-conserving surgery. <i>Light: Science and Applications</i> , <b>2018</b> , 7, 2	16.7	16
179	Label-Free Vibrational Spectroscopic Imaging of Neuronal Membrane Potential. <i>Journal of Physical Chemistry Letters</i> , <b>2017</b> , 8, 1932-1936	6.4	35
178	Mid-Infrared Photothermal Imaging of Active Pharmaceutical Ingredients at Submicrometer Spatial Resolution. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 4863-4867	7.8	46
177	Real-time intravascular photoacoustic-ultrasound imaging of lipid-laden plaque in human coronary artery at 16 frames per second. <i>Scientific Reports</i> , <b>2017</b> , 7, 1417	4.9	45
176	Real-time intravascular photoacoustic-ultrasound imaging of lipid-laden plaque at speed of video-rate level <b>2017</b> ,		1
175	Volumetric chemical imaging by stimulated Raman projection microscopy and tomography. <i>Nature Communications</i> , <b>2017</b> , 8, 15117	17.4	42
174	3,3TDiindolylmethane suppresses high-fat diet-induced obesity through inhibiting adipogenesis of pre-adipocytes by targeting USP2 activity. <i>Molecular Nutrition and Food Research</i> , <b>2017</b> , 61, 1700119	5.9	15
173	Spectral analysis assisted photoacoustic imaging for lipid composition differentiation. <i>Photoacoustics</i> , <b>2017</b> , 7, 12-19	9	20
172	Quantification of Lipid Metabolism in Living Cells through the Dynamics of Lipid Droplets Measured by Stimulated Raman Scattering Imaging. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 4502-4507	7.8	31
171	Lipid Desaturation Is a Metabolic Marker and Therapeutic Target of Ovarian Cancer Stem Cells. <i>Cell Stem Cell</i> , <b>2017</b> , 20, 303-314.e5	18	282
170	Bond-Selective Imaging of Cells by Mid-Infrared Photothermal Microscopy in High Wavenumber Region. <i>Journal of Physical Chemistry B</i> , <b>2017</b> , 121, 10249-10255	3.4	29
169	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> , <b>2017</b> , 32, 257-264	3.5	11
168	Semiconducting Polymer Nanoparticles for Centimeters-Deep Photoacoustic Imaging in the Second Near-Infrared Window. <i>Advanced Materials</i> , <b>2017</b> , 29, 1703403	24	104
167	Imaging chemistry inside living cells by stimulated Raman scattering microscopy. <i>Methods</i> , <b>2017</b> , 128, 119-128	4.6	19
166	Evolution of Membrane Fouling Revealed by Label-Free Vibrational Spectroscopic Imaging. <i>Environmental Science &amp; Technology</i> , <b>2017</b> , 51, 9580-9587	10.3	25
165	Stimulated Raman Imaging Reveals Aberrant Lipogenesis as a Metabolic Marker for Azole-Resistant <i>Candida albicans</i> . <i>Analytical Chemistry</i> , <b>2017</b> , 89, 9822-9829	7.8	18
164	Nrg4 promotes fuel oxidation and a healthy adipokine profile to ameliorate diet-induced metabolic disorders. <i>Molecular Metabolism</i> , <b>2017</b> , 6, 863-872	8.8	59

163	Stimulated Raman scattering flow cytometry for label-free single-particle analysis. <i>Optica</i> , <b>2017</b> , 4, 103	8.6	62
162	High-speed stimulated hyperspectral Raman imaging using rapid acousto-optic delay lines. <i>Optics Letters</i> , <b>2017</b> , 42, 1548-1551	3	43
161	Cholesterol esterification inhibition and imatinib treatment synergistically inhibit growth of BCR-ABL mutation-independent resistant chronic myelogenous leukemia. <i>PLoS ONE</i> , <b>2017</b> , 12, e0179558	3.7	25
160	Photochemical Tagging for Quantitation of Unsaturated Fatty Acids by Mass Spectrometry. <i>Analytical Chemistry</i> , <b>2016</b> , 88, 8931-5	7.8	66
159	Depth-resolved mid-infrared photothermal imaging of living cells and organisms with submicrometer spatial resolution. <i>Science Advances</i> , <b>2016</b> , 2, e1600521	14.3	128
158	High-sensitivity intravascular photoacoustic imaging of lipid-laden plaque with a collinear catheter design. <i>Scientific Reports</i> , <b>2016</b> , 6, 25236	4.9	64
157	Deciphering single cell metabolism by coherent Raman scattering microscopy. <i>Current Opinion in Chemical Biology</i> , <b>2016</b> , 33, 46-57	9.7	37
156	In Situ and In Vivo Molecular Analysis by Coherent Raman Scattering Microscopy. <i>Annual Review of Analytical Chemistry</i> , <b>2016</b> , 9, 69-93	12.5	26
155	Label-free in vivo imaging of peripheral nerve by multispectral photoacoustic tomography. <i>Journal of Biophotonics</i> , <b>2016</b> , 9, 124-8	3.1	24
154	Stimulated Raman spectroscopic imaging by microsecond delay-line tuning. <i>Optica</i> , <b>2016</b> , 3, 1377	8.6	60
153	Bond-selective photoacoustic imaging by converting molecular vibration into acoustic waves. <i>Photoacoustics</i> , <b>2016</b> , 4, 11-21	9	42
152	Coherent anti-Stokes Raman scattering imaging under ambient light. <i>Optics Letters</i> , <b>2016</b> , 41, 3880-3	3	4
151	In situ Detection of a Single Bacterium in Complex Environment by Hyperspectral CARS Imaging. <i>ChemistrySelect</i> , <b>2016</b> , 1, 513-517	1.8	15
150	Highly sensitive transient absorption imaging of graphene and graphene oxide in living cells and circulating blood. <i>Scientific Reports</i> , <b>2015</b> , 5, 12394	4.9	28
149	Assessing carotid atherosclerosis by fiber-optic multispectral photoacoustic tomography <b>2015</b> ,		2
148	Assessing breast tumor margin by multispectral photoacoustic tomography. <i>Biomedical Optics Express</i> , <b>2015</b> , 6, 1273-81	3.5	67
147	Spectrometer-free vibrational imaging by retrieving stimulated Raman signal from highly scattered photons. <i>Science Advances</i> , <b>2015</b> , 1, e1500738	14.3	70
146	Microsecond Scale Vibrational Spectroscopic Imaging by Multiplex Stimulated Raman Scattering Microscopy. <i>Light: Science and Applications</i> , <b>2015</b> , 4,	16.7	146

145	Label-free spectroscopic detection of membrane potential using stimulated Raman scattering. <i>Applied Physics Letters</i> , <b>2015</b> , 106, 173704	3.4	37
144	Vibrational fingerprint mapping reveals spatial distribution of functional groups of lignin in plant cell wall. <i>Analytical Chemistry</i> , <b>2015</b> , 87, 9436-42	7.8	28
143	Vibrational spectroscopic imaging of living systems: An emerging platform for biology and medicine. <i>Science</i> , <b>2015</b> , 350, aaa8870	33.3	400
142	Denoising Stimulated Raman Spectroscopic Images by Total Variation Minimization. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 19397-19403	3.8	22
141	High-speed intravascular photoacoustic imaging at 1.7 $\mu\text{m}$ with a KTP-based OPO. <i>Biomedical Optics Express</i> , <b>2015</b> , 6, 4557-66	3.5	34
140	Morphological and Biomechanical Differences in the Elastase and AngII apoE(-/-) Rodent Models of Abdominal Aortic Aneurysms. <i>BioMed Research International</i> , <b>2015</b> , 2015, 413189	3	31
139	Converting Molecular Vibration to Mechanical Wave for Bond-Selective Imaging of Deep Tissue. <i>Chinese Journal of Chemical Physics</i> , <b>2015</b> , 28, 375-382	0.9	1
138	Coherent Raman Scattering Microscopy in Biology and Medicine. <i>Annual Review of Biomedical Engineering</i> , <b>2015</b> , 17, 415-45	12	111
137	Avasimibe encapsulated in human serum albumin blocks cholesterol esterification for selective cancer treatment. <i>ACS Nano</i> , <b>2015</b> , 9, 2420-32	16.7	50
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> , <b>2015</b> , 5, 7930	4.9	90
135	Abstract 253: Vibrational Photoacoustic Imaging of Lipid in Murine Abdominal Aortic Aneurysms and Atherosclerosis. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , <b>2015</b> , 35,	9.4	1
134	Direct visualization of de novo lipogenesis in single living cells. <i>Scientific Reports</i> , <b>2014</b> , 4, 6807	4.9	93
133	Cholesteryl ester accumulation induced by PTEN loss and PI3K/AKT activation underlies human prostate cancer aggressiveness. <i>Cell Metabolism</i> , <b>2014</b> , 19, 393-406	24.6	478
132	Imaging lipid metabolism in live <i>Caenorhabditis elegans</i> using fingerprint vibrations. <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 11787-92	16.4	62
131	Plk1 inhibition enhances the efficacy of androgen signaling blockade in castration-resistant prostate cancer. <i>Cancer Research</i> , <b>2014</b> , 74, 6635-47	10.1	67
130	Fast vibrational imaging of single cells and tissues by stimulated Raman scattering microscopy. <i>Accounts of Chemical Research</i> , <b>2014</b> , 47, 2282-90	24.3	102
129	High-speed intravascular photoacoustic imaging of lipid-laden atherosclerotic plaque enabled by a 2-kHz barium nitrite raman laser. <i>Scientific Reports</i> , <b>2014</b> , 4, 6889	4.9	90
128	Imaging Lipid Metabolism in Live <i>Caenorhabditis elegans</i> Using Fingerprint Vibrations. <i>Angewandte Chemie</i> , <b>2014</b> , 126, 11981-11986	3.6	8

127	Assessment of white matter loss using bond-selective photoacoustic imaging in a rat model of contusive spinal cord injury. <i>Journal of Neurotrauma</i> , <b>2014</b> , 31, 1998-2002	5.4	17
126	Label-free real-time imaging of myelination in the <i>Xenopus laevis</i> tadpole by in vivo stimulated Raman scattering microscopy. <i>Journal of Biomedical Optics</i> , <b>2014</b> , 19, 086005	3.5	18
125	Neuroprotective ferulic acid (FA)-glycol chitosan (GC) nanoparticles for functional restoration of traumatically injured spinal cord. <i>Biomaterials</i> , <b>2014</b> , 35, 2355-2364	15.6	72
124	Imaging cytoplasmic lipid droplets in enterocytes and assessing dietary fat absorption. <i>Methods in Cell Biology</i> , <b>2013</b> , 116, 151-66	1.8	10
123	FRET imaging reveals different cellular entry routes of self-assembled and disulfide bonded polymeric micelles. <i>Molecular Pharmaceutics</i> , <b>2013</b> , 10, 3497-506	5.6	42
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4	Granadaene Photobleaching Reduces the Virulence and Increases Antimicrobial Susceptibility of <i>Streptococcus agalactiae</i>	1	
3	Frizzled-7 Identifies Platinum Tolerant Ovarian Cancer Cells Susceptible to Ferroptosis	2	
2	FADS2-mediated fatty acid desaturation and cholesterol esterification are signatures of metabolic reprogramming during melanoma progression	1	

- 1 Clearance of Nanoparticles During Circulation1