

# Ji-Xin Cheng

## List of Publications by Citations

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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	In vitro and in vivo two-photon luminescence imaging of single gold nanorods. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2005</b> , 102, 15752-6	11.5	858
269	Coherent Anti-Stokes Raman Scattering Microscopy: Instrumentation, Theory, and Applications. <i>Journal of Physical Chemistry B</i> , <b>2004</b> , 108, 827-840	3.4	725
268	Gold Nanorods Mediate Tumor Cell Death by Compromising Membrane Integrity. <i>Advanced Materials</i> , <b>2007</b> , 19, 3136-3141	24	491
267	Triacylglycerol synthesis enzymes mediate lipid droplet growth by relocating from the ER to lipid droplets. <i>Developmental Cell</i> , <b>2013</b> , 24, 384-99	10.2	485
266	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
265	Gold nanorods as contrast agents for biological imaging: optical properties, surface conjugation and photothermal effects. <i>Photochemistry and Photobiology</i> , <b>2009</b> , 85, 21-32	3.6	450
264	Hyperthermic effects of gold nanorods on tumor cells. <i>Nanomedicine</i> , <b>2007</b> , 2, 125-32	5.6	449
263	Overcoming the barriers in micellar drug delivery: loading efficiency, in vivo stability, and micelle-cell interaction. <i>Expert Opinion on Drug Delivery</i> , <b>2010</b> , 7, 49-62	8	426
262	Vibrational spectroscopic imaging of living systems: An emerging platform for biology and medicine. <i>Science</i> , <b>2015</b> , 350, aaa8870	33.3	400
261	Release of hydrophobic molecules from polymer micelles into cell membranes revealed by Forster resonance energy transfer imaging. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2008</b> , 105, 6596-601	11.5	335
260	Laser-scanning coherent anti-Stokes Raman scattering microscopy and applications to cell biology. <i>Biophysical Journal</i> , <b>2002</b> , 83, 502-9	2.9	315
259	Polarization coherent anti-Stokes Raman scattering microscopy. <i>Optics Letters</i> , <b>2001</b> , 26, 1341-3	3	283
258	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
257	Theoretical and experimental characterization of coherent anti-Stokes Raman scattering microscopy. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2002</b> , 19, 1363	1.7	277
256	Fast release of lipophilic agents from circulating PEG-PDLLA micelles revealed by in vivo forster resonance energy transfer imaging. <i>Langmuir</i> , <b>2008</b> , 24, 5213-7	4	275
255	An Epi-Detected Coherent Anti-Stokes Raman Scattering (E-CARS) Microscope with High Spectral Resolution and High Sensitivity. <i>Journal of Physical Chemistry B</i> , <b>2001</b> , 105, 1277-1280	3.4	275
254	Controlling the cellular uptake of gold nanorods. <i>Langmuir</i> , <b>2007</b> , 23, 1596-9	4	271

253	Multiplex Coherent Anti-Stokes Raman Scattering Microspectroscopy and Study of Lipid Vesicles. <i>Journal of Physical Chemistry B</i> , <b>2002</b> , 106, 8493-8498	3.4	269
252	Coherent anti-stokes Raman scattering imaging of axonal myelin in live spinal tissues. <i>Biophysical Journal</i> , <b>2005</b> , 89, 581-91	2.9	250
251	Vibrational imaging of lipid droplets in live fibroblast cells with coherent anti-Stokes Raman scattering microscopy. <i>Journal of Lipid Research</i> , <b>2003</b> , 44, 2202-8	6.3	243
250	Vibrational Imaging with High Sensitivity via Epidetected Coherent Anti-Stokes Raman Scattering Microscopy. <i>Physical Review Letters</i> , <b>2001</b> , 87,	7.4	242
249	Single cell optical imaging and spectroscopy. <i>Chemical Reviews</i> , <b>2013</b> , 113, 2469-527	68.1	207
248	Ordering of water molecules between phospholipid bilayers visualized by coherent anti-Stokes Raman scattering microscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2003</b> , 100, 9826-30	11.5	175
247	A comparative study of fat storage quantitation in nematode <i>Caenorhabditis elegans</i> using label and label-free methods. <i>PLoS ONE</i> , <b>2010</b> , 5, e12810	3.7	171
246	Quantitative vibrational imaging by hyperspectral stimulated Raman scattering microscopy and multivariate curve resolution analysis. <i>Analytical Chemistry</i> , <b>2013</b> , 85, 98-106	7.8	159
245	Microsecond Scale Vibrational Spectroscopic Imaging by Multiplex Stimulated Raman Scattering Microscopy. <i>Light: Science and Applications</i> , <b>2015</b> , 4,	16.7	146
244	Characterization of photodamage in coherent anti-Stokes Raman scattering microscopy. <i>Optics Express</i> , <b>2006</b> , 14, 3942-51	3.3	139
243	Ex vivo and in vivo imaging of myelin fibers in mouse brain by coherent anti-Stokes Raman scattering microscopy. <i>Optics Express</i> , <b>2008</b> , 16, 19396-409	3.3	133
242	Coherent anti-Stokes Raman scattering imaging of lipids in cancer metastasis. <i>BMC Cancer</i> , <b>2009</b> , 9, 42	4.8	132
241	Green's function formulation for third-harmonic generation microscopy. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2002</b> , 19, 1604	1.7	131
240	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
239	Shedding new light on lipid biology with coherent anti-Stokes Raman scattering microscopy. <i>Journal of Lipid Research</i> , <b>2010</b> , 51, 3091-102	6.3	125
238	Label-free molecular imaging of atherosclerotic lesions using multimodal nonlinear optical microscopy. <i>Journal of Biomedical Optics</i> , <b>2007</b> , 12, 054007	3.5	124
237	High-quality manganese-doped zinc sulfide quantum rods with tunable dual-color and multiphoton emissions. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 5389-96	16.4	119
236	Bright three-photon luminescence from gold/silver alloyed nanostructures for bioimaging with negligible photothermal toxicity. <i>Angewandte Chemie - International Edition</i> , <b>2010</b> , 49, 3485-8	16.4	118

- 235 Curcumin inhibits adipocyte differentiation through modulation of mitotic clonal expansion. *Journal of Nutritional Biochemistry*, **2011**, 22, 910-20 6.3 113
- 234 Coherent Raman Scattering Microscopy in Biology and Medicine. *Annual Review of Biomedical Engineering*, **2015**, 17, 415-45 12 111
- 233 Highly Sensitive Vibrational Imaging by Femtosecond Pulse Stimulated Raman Loss. *Journal of Physical Chemistry Letters*, **2011**, 2, 1248-1253 6.4 110
- 232 Far-field Imaging of Non-fluorescent Species with Sub-diffraction Resolution. *Nature Photonics*, **2013**, 7, 449-453 33.9 107
- 231 Coherent anti-Stokes Raman scattering microscopy. *Applied Spectroscopy*, **2007**, 61, 197-208 3.1 107
- 230 A dynamic, cytoplasmic triacylglycerol pool in enterocytes revealed by ex vivo and in vivo coherent anti-Stokes Raman scattering imaging. *Journal of Lipid Research*, **2009**, 50, 1080-9 6.3 105
- 229 Label-free bond-selective imaging by listening to vibrationally excited molecules. *Physical Review Letters*, **2011**, 106, 238106 7.4 105
- 228 Semiconducting Polymer Nanoparticles for Centimeters-Deep Photoacoustic Imaging in the Second Near-Infrared Window. *Advanced Materials*, **2017**, 29, 1703403 24 104
- 227 High-speed vibrational imaging and spectral analysis of lipid bodies by compound Raman microscopy. *Journal of Physical Chemistry B*, **2009**, 113, 7681-6 3.4 104
- 226 Quantitative coherent anti-Stokes Raman scattering imaging of lipid distribution in coexisting domains. *Biophysical Journal*, **2005**, 89, 3480-90 2.9 104
- 225 Multimodal Nonlinear Optical Microscopy. *Laser and Photonics Reviews*, **2011**, 5, 496 8.3 103
- 224 Fast vibrational imaging of single cells and tissues by stimulated Raman scattering microscopy. *Accounts of Chemical Research*, **2014**, 47, 2282-90 24.3 102
- 223 Label-free Imaging of Arterial Cells and Extracellular Matrix Using a Multimodal CARS Microscope. *Optics Communications*, **2008**, 281, 1813-1822 2 102
- 222 A multimodal platform for nonlinear optical microscopy and microspectroscopy. *Optics Express*, **2009**, 17, 1282-90 3.3 100
- 221 Selective detection of protein crystals by second harmonic microscopy. *Journal of the American Chemical Society*, **2008**, 130, 14076-7 16.4 100
- 220 Blood-stable, tumor-adaptable disulfide bonded mPEG-(Cys)4-PDLLA micelles for chemotherapy. *Biomaterials*, **2013**, 34, 552-61 15.6 95
- 219 Direct visualization of de novo lipogenesis in single living cells. *Scientific Reports*, **2014**, 4, 6807 4.9 93
- 218 Coherent anti-Stokes Raman scattering imaging of myelin degradation reveals a calcium-dependent pathway in lyso-PtdCho-induced demyelination. *Journal of Neuroscience Research*, **2007**, 85, 2870-81 4.4 91

217	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
216	Assessing cholesterol storage in live cells and C. elegans by stimulated Raman scattering imaging of phenyl-Diynes cholesterol. <i>Scientific Reports</i> , <b>2015</b> , 5, 7930	4.9	90
215	Label-free quantitative analysis of lipid metabolism in living Caenorhabditis elegans. <i>Journal of Lipid Research</i> , <b>2010</b> , 51, 672-7	6.3	89
214	Effective repair of traumatically injured spinal cord by nanoscale block copolymer micelles. <i>Nature Nanotechnology</i> , <b>2010</b> , 5, 80-7	28.7	85
213	Imaging and quantitative analysis of atherosclerotic lesions by CARS-based multimodal nonlinear optical microscopy. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , <b>2009</b> , 29, 1342-8	9.4	83
212	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
211	Label-free imaging of semiconducting and metallic carbon nanotubes in cells and mice using transient absorption microscopy. <i>Nature Nanotechnology</i> , <b>2011</b> , 7, 56-61	28.7	81
210	Second harmonic and sum frequency generation imaging of fibrous astroglial filaments in ex vivo spinal tissues. <i>Biophysical Journal</i> , <b>2007</b> , 92, 3251-9	2.9	79
209	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
208	Vibrational imaging of tablets by epi-detected stimulated Raman scattering microscopy. <i>Analyst, The</i> , <b>2010</b> , 135, 2613-9	5	78
207	Glutamate excitotoxicity inflicts paranodal myelin splitting and retraction. <i>PLoS ONE</i> , <b>2009</b> , 4, e6705	3.7	77
206	Spectrally modulated stimulated Raman scattering imaging with an angle-to-wavelength pulse shaper. <i>Optics Express</i> , <b>2013</b> , 21, 13864-74	3.3	76
205	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
204	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
203	Label-free quantitative imaging of cholesterol in intact tissues by hyperspectral stimulated Raman scattering microscopy. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 13042-6	16.4	70
202	Assessing breast tumor margin by multispectral photoacoustic tomography. <i>Biomedical Optics Express</i> , <b>2015</b> , 6, 1273-81	3.5	67
201	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
200	Photochemical Tagging for Quantitation of Unsaturated Fatty Acids by Mass Spectrometry. <i>Analytical Chemistry</i> , <b>2016</b> , 88, 8931-5	7.8	66

- 199 Intestine-specific expression of acyl CoA:diacylglycerol acyltransferase 1 reverses resistance to diet-induced hepatic steatosis and obesity in Dgat1<sup>-/-</sup> mice. *Journal of Lipid Research*, **2010**, 51, 1770-80 6.3 65
- 198 Compression induces acute demyelination and potassium channel exposure in spinal cord. *Journal of Neurotrauma*, **2010**, 27, 1109-20 5.4 65
- 197 High-sensitivity intravascular photoacoustic imaging of lipid-laden plaque with a collinear catheter design. *Scientific Reports*, **2016**, 6, 25236 4.9 64
- 196 Synchronization of two passively mode-locked, picosecond lasers within 20 fs for coherent anti-Stokes Raman scattering microscopy. *Review of Scientific Instruments*, **2002**, 73, 2843-2848 1.7 63
- 195 Imaging lipid metabolism in live *Caenorhabditis elegans* using fingerprint vibrations. *Angewandte Chemie - International Edition*, **2014**, 53, 11787-92 16.4 62
- 194 Stimulated Raman scattering flow cytometry for label-free single-particle analysis. *Optica*, **2017**, 4, 103 8.6 62
- 193 The layered structure of coronary adventitia under mechanical load. *Biophysical Journal*, **2011**, 101, 2555-2562 5.2 62
- 192 Differential association of adipophilin and TIP47 proteins with cytoplasmic lipid droplets in mouse enterocytes during dietary fat absorption. *Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids*, **2009**, 1791, 1173-80 5 61
- 191 Stimulated Raman spectroscopic imaging by microsecond delay-line tuning. *Optica*, **2016**, 3, 1377 8.6 60
- 190 Nrg4 promotes fuel oxidation and a healthy adipokine profile to ameliorate diet-induced metabolic disorders. *Molecular Metabolism*, **2017**, 6, 863-872 8.8 59
- 189 In situ visualization of paclitaxel distribution and release by coherent anti-Stokes Raman scattering microscopy. *Analytical Chemistry*, **2006**, 78, 8036-43 7.8 59
- 188 Paclitaxel distribution in poly(ethylene glycol)/poly(lactide-co-glycolic acid) blends and its release visualized by coherent anti-Stokes Raman scattering microscopy. *Journal of Controlled Release*, **2007**, 122, 261-8 11.7 56
- 187 In vitro and in vivo nonlinear optical imaging of silicon nanowires. *Nano Letters*, **2009**, 9, 2440-4 11.5 55
- 186 Antibiotic Susceptibility Determination within One Cell Cycle at Single-Bacterium Level by Stimulated Raman Metabolic Imaging. *Analytical Chemistry*, **2018**, 90, 3737-3743 7.8 52
- 185 Microfluidic CARS cytometry. *Optics Express*, **2008**, 16, 5782-9 3.3 52
- 184 Avasimibe encapsulated in human serum albumin blocks cholesterol esterification for selective cancer treatment. *ACS Nano*, **2015**, 9, 2420-32 16.7 50
- 183 Gold nanorod-mediated photothermalolysis induces apoptosis of macrophages via damage of mitochondria. *Nanomedicine*, **2009**, 4, 265-76 5.6 50
- 182 Nanomedicine for treating spinal cord injury. *Nanoscale*, **2013**, 5, 8821-36 7.7 49

181	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
180	Acrolein induces myelin damage in mammalian spinal cord. <i>Journal of Neurochemistry</i> , <b>2011</b> , 117, 554-646		46
179	Single-cell profiling reveals the origin of phenotypic variability in adipogenesis. <i>PLoS ONE</i> , <b>2009</b> , 4, e5189	3.7	46
178	Molecular composition and orientation in myelin figures characterized by coherent anti-stokes Raman scattering microscopy. <i>Langmuir</i> , <b>2005</b> , 21, 6478-86	4	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	Biaxial deformation of collagen and elastin fibers in coronary adventitia. <i>Journal of Applied Physiology</i> , <b>2013</b> , 115, 1683-93	3.7	45
175	Multimodal Nonlinear Optical Microscopy and Applications to Central Nervous System Imaging. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2008</b> , 14, 4-9	3.8	45
174	Perspective: Coherent Raman scattering microscopy, the future is bright. <i>APL Photonics</i> , <b>2018</b> , 3, 090901	5.2	44
173	Longitudinal in vivo coherent anti-Stokes Raman scattering imaging of demyelination and remyelination in injured spinal cord. <i>Journal of Biomedical Optics</i> , <b>2011</b> , 16, 106012	3.5	44
172	Visualizing systemic clearance and cellular level biodistribution of gold nanorods by intrinsic two-photon luminescence. <i>Langmuir</i> , <b>2009</b> , 25, 12454-9	4	44
171	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
170	High-speed stimulated hyperspectral Raman imaging using rapid acousto-optic delay lines. <i>Optics Letters</i> , <b>2017</b> , 42, 1548-1551	3	43
169	Volumetric chemical imaging by stimulated Raman projection microscopy and tomography. <i>Nature Communications</i> , <b>2017</b> , 8, 15117	17.4	42
168	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
167	Label-free imaging of lipid-droplet intracellular motion in early Drosophila embryos using femtosecond-stimulated Raman loss microscopy. <i>Biophysical Journal</i> , <b>2012</b> , 102, 1666-75	2.9	42
166	Chasing lipids in health and diseases by coherent anti-Stokes Raman scattering microscopy. <i>Vibrational Spectroscopy</i> , <b>2009</b> , 50, 160-167	2.1	42
165	Bond-selective photoacoustic imaging by converting molecular vibration into acoustic waves. <i>Photoacoustics</i> , <b>2016</b> , 4, 11-21	9	42
164	Meta-optics achieves RGB-achromatic focusing for virtual reality. <i>Science Advances</i> , <b>2021</b> , 7,	14.3	42



163	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
162	Real-time CARS imaging reveals a calpain-dependent pathway for paranodal myelin retraction during high-frequency stimulation. <i>PLoS ONE</i> , <b>2011</b> , 6, e17176	3.7	41
161	Ultrafast chemical imaging by widefield photothermal sensing of infrared absorption. <i>Science Advances</i> , <b>2019</b> , 5, eaav7127	14.3	40
160	Label-free imaging through nonlinear optical signals. <i>Materials Today</i> , <b>2011</b> , 14, 264-273	21.8	40
159	Spectroscopic Imaging of Deep Tissue through Photoacoustic Detection of Molecular Vibration. <i>Journal of Physical Chemistry Letters</i> , <b>2013</b> , 4, 2177-2185	6.4	39
158	Fast detection of the metallic state of individual single-walled carbon nanotubes using a transient-absorption optical microscope. <i>Physical Review Letters</i> , <b>2010</b> , 105, 217401	7.4	39
157	Imaging Gold Nanorods by Plasmon-Resonance-Enhanced Four Wave Mixing. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 2657-2663	3.8	38
156	Novel potassium channel blocker, 4-AP-3-MeOH, inhibits fast potassium channels and restores axonal conduction in injured guinea pig spinal cord white matter. <i>Journal of Neurophysiology</i> , <b>2010</b> , 103, 469-78	3.2	38
155	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
154	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
153	Label-free spectroscopic detection of membrane potential using stimulated Raman scattering. <i>Applied Physics Letters</i> , <b>2015</b> , 106, 173704	3.4	37
152	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
151	Mapping lipid and collagen by multispectral photoacoustic imaging of chemical bond vibration. <i>Journal of Biomedical Optics</i> , <b>2012</b> , 17, 96010-1	3.5	37
150	Nonlinear optical imaging to evaluate the impact of obesity on mammary gland and tumor stroma. <i>Molecular Imaging</i> , <b>2007</b> , 6, 205-11	3.7	37
149	Nonlinear Optical Imaging to Evaluate the Impact of Obesity on Mammary Gland and Tumor Stroma. <i>Molecular Imaging</i> , <b>2007</b> , 6, 7290.2007.00018	3.7	36
148	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
147	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
146	Label-free analysis of breast tissue polarity by Raman imaging of lipid phase. <i>Biophysical Journal</i> , <b>2012</b> , 102, 1215-23	2.9	34



145	Paranodal myelin retraction in relapsing experimental autoimmune encephalomyelitis visualized by coherent anti-Stokes Raman scattering microscopy. <i>Journal of Biomedical Optics</i> , <b>2011</b> , 16, 106006	3.5	34
144	Plasmon-enhanced stimulated Raman scattering microscopy with single-molecule detection sensitivity. <i>Nature Communications</i> , <b>2019</b> , 10, 5318	17.4	34
143	Frizzled-7 Identifies Platinum-Tolerant Ovarian Cancer Cells Susceptible to Ferroptosis. <i>Cancer Research</i> , <b>2021</b> , 81, 384-399	10.1	34
142	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
141	Coherent Anti-Stokes Raman Scattering Correlation Spectroscopy: Probing Dynamical Processes with Chemical Selectivity. <i>Journal of Physical Chemistry A</i> , <b>2002</b> , 106, 8561-8568	2.8	32
140	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
139	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
138	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
137	Paranodal myelin damage after acute stretch in Guinea pig spinal cord. <i>Journal of Neurotrauma</i> , <b>2012</b> , 29, 611-9	5.4	31
136	Two-photon Luminescence Imaging of Bacillus Spores Using Peptide-functionalized Gold Nanorods. <i>Nano Research</i> , <b>2008</b> , 1, 450	10	31
135	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
134	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
133	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
132	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
131	Nonlinear Optical Microscopy of Single Nanostructures. <i>Annual Review of Materials Research</i> , <b>2013</b> , 43, 213-236	12.8	28
130	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
129	Fingerprinting a Living Cell by Raman Integrated Mid-Infrared Photothermal Microscopy. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 10750-10756	7.8	27
128	Increasing the imaging depth of coherent anti-Stokes Raman scattering microscopy with a miniature microscope objective. <i>Optics Letters</i> , <b>2007</b> , 32, 2212-4	3	27

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|-----|--|------|----|
| 127 | 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 |
| 126 | Photolysis of Staphyloxanthin in Methicillin-Resistant Potentiates Killing by Reactive Oxygen Species. <i>Advanced Science</i> , <b>2019</b> , 6, 1900030  | 13.6 | 26 |
| 125 | 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 |
| 124 | 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 |
| 123 | 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 |
| 122 | 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                           | 8.7  | 25 |
| 121 | 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 |
| 120 | Multimodal coherent anti-Stokes Raman spectroscopic imaging with a fiber optical parametric oscillator. <i>Applied Physics Letters</i> , <b>2011</b> , 98, 191106  | 3.4  | 24 |
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| 118 | Experimental observation and theoretical analysis of Raman resonance-enhanced photodamage in coherent anti-Stokes Raman scattering microscopy. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2007</b> , 24, 544 | 1.7  | 23 |
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1 Clearance of Nanoparticles During Circulation1