

# Young Jong Lee

## List of Publications by Year in descending order

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57  
papers

2,488  
citations

331670

21  
h-index

197818

49  
g-index

58  
all docs

58  
docs citations

58  
times ranked

3359  
citing authors

#	ARTICLE	IF	CITATIONS
1	High-speed coherent Raman fingerprint imaging of biological tissues. <i>Nature Photonics</i> , 2014, 8, 627-634.	31.4	358
2	Single-Molecule Spectroscopy of Conjugated Polymers. <i>Accounts of Chemical Research</i> , 2005, 38, 602-610.	15.6	328
3	LTB4 Is a Signal-Relay Molecule during Neutrophil Chemotaxis. <i>Developmental Cell</i> , 2012, 22, 1079-1091.	7.0	267
4	The effect of 3D hydrogel scaffold modulus on osteoblast differentiation and mineralization revealed by combinatorial screening. <i>Biomaterials</i> , 2010, 31, 5051-5062.	11.4	265
5	Broadband CARS spectral phase retrieval using a time-domain Kramersâ€“Kronig transform. <i>Optics Letters</i> , 2009, 34, 1363.	3.3	186
6	Label-Free Cellular Imaging by Broadband Coherent Anti-Stokes Raman Scattering Microscopy. <i>Biophysical Journal</i> , 2010, 99, 2695-2704.	0.5	110
7	Synergistic roles for lipids and proteins in the permanent adhesive of barnacle larvae. <i>Nature Communications</i> , 2014, 5, 4414.	12.8	95
8	Maximum entropy and timeâ€“domain Kramersâ€“Kronig phase retrieval approaches are functionally equivalent for CARS microspectroscopy. <i>Journal of Raman Spectroscopy</i> , 2012, 43, 637-643.	2.5	74
9	Quantitative, comparable coherent antiâ€“Stokes Raman scattering (CARS) spectroscopy: correcting errors in phase retrieval. <i>Journal of Raman Spectroscopy</i> , 2016, 47, 408-415.	2.5	66
10	Quantitative Image Analysis of Broadband CARS Hyperspectral Images of Polymer Blends. <i>Analytical Chemistry</i> , 2011, 83, 2733-2739.	6.5	62
11	Multicomponent Chemical Imaging of Pharmaceutical Solid Dosage Forms with Broadband CARS Microscopy. <i>Analytical Chemistry</i> , 2013, 85, 8102-8111.	6.5	59
12	Fast extraction of resonant vibrational response from CARS spectra with arbitrary nonresonant background. <i>Journal of Raman Spectroscopy</i> , 2009, 40, 726-731.	2.5	44
13	Stoichiometric analysis of competing intermolecular hydrogen bonds using infrared spectroscopy. <i>RSC Advances</i> , 2018, 8, 23481-23488.	3.6	43
14	Single Molecule Modulation Spectroscopy of Conjugated Polymers. <i>Journal of Physical Chemistry B</i> , 2005, 109, 12366-12371.	2.6	39
15	Optimized continuum from a photonic crystal fiber for broadband time-resolved coherent anti-Stokes Raman scattering. <i>Optics Express</i> , 2010, 18, 4371.	3.4	39
16	Characterization of three-color CARS in a two-pulse broadband CARS spectrum. <i>Optics Letters</i> , 2007, 32, 3370.	3.3	38
17	Vibrational dephasing time imaging by time-resolved broadband coherent anti-Stokes Raman scattering microscopy. <i>Applied Physics Letters</i> , 2008, 92, 041108.	3.3	36
18	Quantitative, Label-Free Characterization of Stem Cell Differentiation at the Single-Cell Level by Broadband Coherent Anti-Stokes Raman Scattering Microscopy. <i>Tissue Engineering - Part C: Methods</i> , 2014, 20, 562-569.	2.1	31

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19	Variable Temperature Single-Molecule Dynamics of MEH-PPV. <i>ChemPhysChem</i> , 2005, 6, 2404-2409.	2.1	29
20	Effect of Sample Preparation and Excitation Conditions on the Single Molecule Spectroscopy of Conjugated Polymers. <i>Journal of Physical Chemistry B</i> , 2006, 110, 9739-9742.	2.6	25
21	Imaging the Molecular Structure of Polyethylene Blends with Broadband Coherent Raman Microscopy. <i>ACS Macro Letters</i> , 2012, 1, 1347-1351.	4.8	23
22	Phonon dephasing and population decay dynamics of the G-band of semiconducting single-wall carbon nanotubes. <i>Physical Review B</i> , 2010, 82, .	3.2	20
23	Single-Molecule Studies of Electronic Energy Transfer in a Diblock Conjugated Polymer. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 6207-6210.	13.8	18
24	Single cell viability measurements in 3D scaffolds using in situ label free imaging by optical coherence microscopy. <i>Biomaterials</i> , 2012, 33, 2119-2126.	11.4	18
25	Beam scanning for rapid coherent Raman hyperspectral imaging. <i>Optics Letters</i> , 2015, 40, 5826.	3.3	17
26	Raman Identification of Multiple Melting Peaks of Polyethylene. <i>Macromolecules</i> , 2017, 50, 6174-6183.	4.8	17
27	Phase-specific Raman analysis of <i>n</i> -alkane melting by moving a two-dimensional correlation spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2016, 47, 1375-1384.	2.5	15
28	Accurate and interpretable classification of microspectroscopy pixels using artificial neural networks. <i>Medical Image Analysis</i> , 2017, 37, 37-45.	11.6	15
29	Compensation of Strong Water Absorption in Infrared Spectroscopy Reveals the Secondary Structure of Proteins in Dilute Solutions. <i>Analytical Chemistry</i> , 2021, 93, 2215-2225.	6.5	14
30	Real-time and high-throughput Raman signal extraction and processing in CARS hyperspectral imaging. <i>Optics Express</i> , 2020, 28, 20422.	3.4	13
31	The mechanism of electron-cation geminate recombination in liquid isoctane. <i>Chemical Physics Letters</i> , 2005, 403, 257-261.	2.6	12
32	Single-shot interferometric approach to background free broadband coherent anti-Stokes Raman scattering spectroscopy. <i>Optics Express</i> , 2009, 17, 123.	3.4	12
33	Coherent anti-Stokes Raman scattering microscopy for polymers. <i>Journal of Polymer Science</i> , 2022, 60, 1244-1265.	3.8	12
34	Determination of 3D molecular orientation by concurrent polarization analysis of multiple Raman modes in broadband CARS spectroscopy. <i>Optics Express</i> , 2015, 23, 29279.	3.4	10
35	Concurrent polarization IR analysis to determine the 3D angles and the order parameter for molecular orientation imaging. <i>Optics Express</i> , 2018, 26, 24577.	3.4	10
36	Pump-Probe Spectroscopy of the Hydrated Electron in Reverse Micelles. <i>Journal of Physical Chemistry B</i> , 2004, 108, 3474-3478.	2.6	9

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37	Probing a molecular interface in a functioning organic diode. <i>Applied Physics Letters</i> , 2005, 87, 051906.	3.3	9
38	Kinetics of Electron Attachment to Reverse Micelles. <i>Journal of Physical Chemistry B</i> , 2004, 108, 5175-5178.	2.6	8
39	Imaging 3D molecular orientation by orthogonal-pair polarization IR microscopy. <i>Optics Express</i> , 2022, 30, 8436.	3.4	8
40	Photoluminescence of C60 and Its Photofragments in the Gas Phase. <i>Journal of Physical Chemistry A</i> , 2002, 106, 5582-5590.	2.5	5
41	Analytical and Numerical Characterization of Autocorrelation and Perturbation-Correlation Moving-Window Methods. <i>Applied Spectroscopy</i> , 2017, 71, 1321-1333.	2.2	5
42	Position- and Polarization-Specific Waveguiding of Multi-Emissions in Single ZnO Nanorods. <i>ACS Photonics</i> , 2019, 6, 1416-1424.	6.6	5
43	Comment on "Nanosecond-Gated Detection of Room-Temperature Fluorescence of C60 in Solution". <i>Physical Review Letters</i> , 1994, 73, 2634-2634.	7.8	3
44	Anisotropy quantum beat in two-photon ionization of coherently excited hyperfine states of Na. <i>Journal of Chemical Physics</i> , 2001, 115, 739-742.	3.0	3
45	Least Squares Moving-Window Spectral Analysis. <i>Applied Spectroscopy</i> , 2017, 71, 1894-1905.	2.2	3
46	Mapping Chemistry, Composition, and Dynamics with Coherent Raman Imaging. <i>Microscopy and Microanalysis</i> , 2016, 22, 1074-1075.	0.4	2
47	A Coordinate-Descent-Based Approach to Solving the Sparse Group Elastic Net. <i>Technometrics</i> , 2017, 59, 437-445.	1.9	2
48	Three-Dimensional Molecular Orientation Imaging of a Semicrystalline Polymer Film under Shear Deformation. <i>Macromolecules</i> , 2022, 55, 2627-2635.	4.8	2
49	Pulse shaping for background free broadband CARS. , 2009, , .		1
50	Theory of birefringence correction for polarization-controlled CARS. <i>Optics Express</i> , 2020, 28, 9158.	3.4	1
51	Single-Molecule Spectroscopy of Conjugated Polymers. <i>ChemInform</i> , 2005, 36, no.	0.0	0
52	Broadband CARS Microscopy: Noninvasive Chemical and Time-Resolved Imaging for Biology and Materials. , 2010, , .		0
53	Experimental determination of the ratio of partial photoionization cross sections from $\text{Na}^3\text{p}^2\text{P}_{3/2}$ by polarization anisotropy quantum beats. <i>Molecular Physics</i> , 2012, 7110, 1781-1785.		0
54	Beam-Scanning Broadband Cars Microscopy for Rapid Tissue Imaging. <i>Biophysical Journal</i> , 2015, 108, 480a.	0.5	0

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55	Time-Resolved Single Molecule Spectroscopy of Conjugated Polymer Nanoparticles. , 2006, , 284-294.		0
56	Fluorescence-Voltage Single Molecule Spectroscopy. , 2008, , 1300-1306.		0
57	Scanning offset-emission hyperspectral microscopy (SOHM) of waveguiding in single ZnO nanorod. , 2020, , .		0