

Young Jong Lee

List of Publications by Year in descending order

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Version: 2024-02-01

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 | Coherent anti-Stokes Raman scattering microscopy for polymers. <i>Journal of Polymer Science</i> , 2022, 60, 1244-1265. | 3.8 | 12 |
| 2 | Imaging 3D molecular orientation by orthogonal-pair polarization IR microscopy. <i>Optics Express</i> , 2022, 30, 8436. | 3.4 | 8 |
| 3 | Three-Dimensional Molecular Orientation Imaging of a Semicrystalline Polymer Film under Shear Deformation. <i>Macromolecules</i> , 2022, 55, 2627-2635. | 4.8 | 2 |
| 4 | 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 |
| 5 | Theory of birefringence correction for polarization-controlled CARS. <i>Optics Express</i> , 2020, 28, 9158. | 3.4 | 1 |
| 6 | Real-time and high-throughput Raman signal extraction and processing in CARS hyperspectral imaging. <i>Optics Express</i> , 2020, 28, 20422. | 3.4 | 13 |
| 7 | Scanning offset-emission hyperspectral microscopy (SOHM) of waveguiding in single ZnO nanorod. , 2020, , . | | 0 |
| 8 | Position- and Polarization-Specific Waveguiding of Multi-Emissions in Single ZnO Nanorods. <i>ACS Photonics</i> , 2019, 6, 1416-1424. | 6.6 | 5 |
| 9 | Stoichiometric analysis of competing intermolecular hydrogen bonds using infrared spectroscopy. <i>RSC Advances</i> , 2018, 8, 23481-23488. | 3.6 | 43 |
| 10 | 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 |
| 11 | Accurate and interpretable classification of microspectroscopy pixels using artificial neural networks. <i>Medical Image Analysis</i> , 2017, 37, 37-45. | 11.6 | 15 |
| 12 | Analytical and Numerical Characterization of Autocorrelation and Perturbation-Correlation Moving-Window Methods. <i>Applied Spectroscopy</i> , 2017, 71, 1321-1333. | 2.2 | 5 |
| 13 | Least Squares Moving-Window Spectral Analysis. <i>Applied Spectroscopy</i> , 2017, 71, 1894-1905. | 2.2 | 3 |
| 14 | A Coordinate-Descent-Based Approach to Solving the Sparse Group Elastic Net. <i>Technometrics</i> , 2017, 59, 437-445. | 1.9 | 2 |
| 15 | Raman Identification of Multiple Melting Peaks of Polyethylene. <i>Macromolecules</i> , 2017, 50, 6174-6183. | 4.8 | 17 |
| 16 | Phase-specific Raman analysis of n-alkane melting by moving-window two-dimensional correlation spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2016, 47, 1375-1384. | 2.5 | 15 |
| 17 | Mapping Chemistry, Composition, and Dynamics with Coherent Raman Imaging. <i>Microscopy and Microanalysis</i> , 2016, 22, 1074-1075. | 0.4 | 2 |
| 18 | Quantitative, comparable coherent anti-Stokes Raman scattering (CARS) spectroscopy: correcting errors in phase retrieval. <i>Journal of Raman Spectroscopy</i> , 2016, 47, 408-415. | 2.5 | 66 |

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|----|---|------|-----------|
| 19 | Beam-Scanning Broadband CARS Microscopy for Rapid Tissue Imaging. <i>Biophysical Journal</i> , 2015, 108, 480a. | 0.5 | 0 |
| 20 | Beam scanning for rapid coherent Raman hyperspectral imaging. <i>Optics Letters</i> , 2015, 40, 5826. | 3.3 | 17 |
| 21 | 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 |
| 22 | 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 |
| 23 | Synergistic roles for lipids and proteins in the permanent adhesive of barnacle larvae. <i>Nature Communications</i> , 2014, 5, 4414. | 12.8 | 95 |
| 24 | High-speed coherent Raman fingerprint imaging of biological tissues. <i>Nature Photonics</i> , 2014, 8, 627-634. | 31.4 | 358 |
| 25 | Multicomponent Chemical Imaging of Pharmaceutical Solid Dosage Forms with Broadband CARS Microscopy. <i>Analytical Chemistry</i> , 2013, 85, 8102-8111. | 6.5 | 59 |
| 26 | Experimental determination of the ratio of partial photoionization cross sections from $\text{Na}^{3p}P_{3/2}$ by polarization anisotropy quantum beats. <i>Molecular Physics</i> , 2012, 110, 1781-1785. | 2.7 | 0 |
| 27 | Imaging the Molecular Structure of Polyethylene Blends with Broadband Coherent Raman Microscopy. <i>ACS Macro Letters</i> , 2012, 1, 1347-1351. | 4.8 | 23 |
| 28 | LTB4 Is a Signal-Relay Molecule during Neutrophil Chemotaxis. <i>Developmental Cell</i> , 2012, 22, 1079-1091. | 7.0 | 267 |
| 29 | Maximum entropy and time-domain Kramers-Kronig phase retrieval approaches are functionally equivalent for CARS microspectroscopy. <i>Journal of Raman Spectroscopy</i> , 2012, 43, 637-643. | 2.5 | 74 |
| 30 | 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 |
| 31 | Quantitative Image Analysis of Broadband CARS Hyperspectral Images of Polymer Blends. <i>Analytical Chemistry</i> , 2011, 83, 2733-2739. | 6.5 | 62 |
| 32 | 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 |
| 33 | Broadband CARS Microscopy: Noninvasive Chemical and Time-Resolved Imaging for Biology and Materials. , 2010, , . | | 0 |
| 34 | Label-Free Cellular Imaging by Broadband Coherent Anti-Stokes Raman Scattering Microscopy. <i>Biophysical Journal</i> , 2010, 99, 2695-2704. | 0.5 | 110 |
| 35 | 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 |
| 36 | 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 |

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|----|---|------|-----------|
| 37 | Pulse shaping for background free broadband CARS. , 2009, , . | | 1 |
| 38 | Fast extraction of resonant vibrational response from CARS spectra with arbitrary nonresonant background. Journal of Raman Spectroscopy, 2009, 40, 726-731. | 2.5 | 44 |
| 39 | Broadband CARS spectral phase retrieval using a time-domain Kramersâ€“Kronig transform. Optics Letters, 2009, 34, 1363. | 3.3 | 186 |
| 40 | Single-shot interferometric approach to background free broadband coherent anti- Stokes Raman scattering spectroscopy. Optics Express, 2009, 17, 123. | 3.4 | 12 |
| 41 | Vibrational dephasing time imaging by time-resolved broadband coherent anti-Stokes Raman scattering microscopy. Applied Physics Letters, 2008, 92, 041108. | 3.3 | 36 |
| 42 | Fluorescence-Voltage Single Molecule Spectroscopy. , 2008, , 1300-1306. | | 0 |
| 43 | Characterization of three-color CARS in a two-pulse broadband CARS spectrum. Optics Letters, 2007, 32, 3370. | 3.3 | 38 |
| 44 | Effect of Sample Preparation and Excitation Conditions on the Single Molecule Spectroscopy of Conjugated Polymers. Journal of Physical Chemistry B, 2006, 110, 9739-9742. | 2.6 | 25 |
| 45 | Time-Resolved Single Molecule Spectroscopy of Conjugated Polymer Nanoparticles. , 2006, , 284-294. | | 0 |
| 46 | The mechanism of electronâ€“cation geminate recombination in liquid isooctane. Chemical Physics Letters, 2005, 403, 257-261. | 2.6 | 12 |
| 47 | Variable Temperature Single-Molecule Dynamics of MEH-PPV. ChemPhysChem, 2005, 6, 2404-2409. | 2.1 | 29 |
| 48 | Single-Molecule Studies of Electronic Energy Transfer in a Diblock Conjugated Polymer. Angewandte Chemie - International Edition, 2005, 44, 6207-6210. | 13.8 | 18 |
| 49 | Single-Molecule Spectroscopy of Conjugated Polymers. ChemInform, 2005, 36, no. | 0.0 | 0 |
| 50 | Probing a molecular interface in a functioning organic diode. Applied Physics Letters, 2005, 87, 051906. | 3.3 | 9 |
| 51 | Single Molecule Modulation Spectroscopy of Conjugated Polymers. Journal of Physical Chemistry B, 2005, 109, 12366-12371. | 2.6 | 39 |
| 52 | Single-Molecule Spectroscopy of Conjugated Polymers. Accounts of Chemical Research, 2005, 38, 602-610. | 15.6 | 328 |
| 53 | Pumpâ€“Probe Spectroscopy of the Hydrated Electron in Reverse Micelles. Journal of Physical Chemistry B, 2004, 108, 3474-3478. | 2.6 | 9 |
| 54 | Kinetics of Electron Attachment to Reverse Micelles. Journal of Physical Chemistry B, 2004, 108, 5175-5178. | 2.6 | 8 |

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|----|---|-----|-----------|
| 55 | Photoluminescence of C60 and Its Photofragments in the Gas Phase. Journal of Physical Chemistry A, 2002, 106, 5582-5590. | 2.5 | 5 |
| 56 | Anisotropy quantum beat in two-photon ionization of coherently excited hyperfine states of Na. Journal of Chemical Physics, 2001, 115, 739-742. | 3.0 | 3 |
| 57 | Comment on "Nanosecond-Gated Detection of Room-Temperature Fluorescence of C60 in Solution". Physical Review Letters, 1994, 73, 2634-2634. | 7.8 | 3 |