

Minbiao Ji

List of Publications by Year in descending order

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64
papers

3,221
citations

172457

29
h-index

155660

55
g-index

66
all docs

66
docs citations

66
times ranked

4064
citing authors

#	ARTICLE	IF	CITATIONS
1	Rapid, Label-Free Detection of Brain Tumors with Stimulated Raman Scattering Microscopy. <i>Science Translational Medicine</i> , 2013, 5, 201ra119.	12.4	398
2	Detection of human brain tumor infiltration with quantitative stimulated Raman scattering microscopy. <i>Science Translational Medicine</i> , 2015, 7, 309ra163.	12.4	249
3	Label-free DNA imaging in vivo with stimulated Raman scattering microscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 11624-11629.	7.1	225
4	Large Angular Jump Mechanism Observed for Hydrogen Bond Exchange in Aqueous Perchlorate Solution. <i>Science</i> , 2010, 328, 1003-1005.	12.6	187
5	Multicolored stain-free histopathology with coherent Raman imaging. <i>Laboratory Investigation</i> , 2012, 92, 1492-1502.	3.7	130
6	Efficient Multiple Exciton Generation Observed in Colloidal PbSe Quantum Dots with Temporally and Spectrally Resolved Intraband Excitation. <i>Nano Letters</i> , 2009, 9, 1217-1222.	9.1	126
7	Label-free imaging of amyloid plaques in Alzheimer's disease with stimulated Raman scattering microscopy. <i>Science Advances</i> , 2018, 4, eaat7715.	10.3	122
8	Rapid histology of laryngeal squamous cell carcinoma with deep-learning based stimulated Raman scattering microscopy. <i>Theranostics</i> , 2019, 9, 2541-2554.	10.0	106
9	Atomic-force-microscope-compatible near-field scanning microwave microscope with separated excitation and sensing probes. <i>Review of Scientific Instruments</i> , 2007, 78, 063702.	1.3	103
10	Destabilization of Fatty Acid Synthase by Acetylation Inhibits <i>De Novo</i> Lipogenesis and Tumor Cell Growth. <i>Cancer Research</i> , 2016, 76, 6924-6936.	0.9	92
11	Multicolor stimulated Raman scattering microscopy. <i>Molecular Physics</i> , 2012, 110, 1927-1932.	1.7	91
12	Multicolor stimulated Raman scattering microscopy with a rapidly tunable optical parametric oscillator. <i>Optics Letters</i> , 2013, 38, 145.	3.3	89
13	Dual-phase stimulated Raman scattering microscopy for real-time two-color imaging. <i>Optica</i> , 2017, 4, 44.	9.3	86
14	Monitoring peripheral nerve degeneration in ALS by label-free stimulated Raman scattering imaging. <i>Nature Communications</i> , 2016, 7, 13283.	12.8	82
15	Layer-Dependent Ultrafast Carrier and Coherent Phonon Dynamics in Black Phosphorus. <i>Nano Letters</i> , 2018, 18, 3053-3059.	9.1	75
16	Fiber optical parametric oscillator for coherent anti-Stokes Raman scattering microscopy. <i>Optics Letters</i> , 2013, 38, 4154.	3.3	68
17	Stimulated Raman scattering microscopy and spectroscopy with a rapid scanning optical delay line. <i>Optics Letters</i> , 2017, 42, 659.	3.3	52
18	Instant diagnosis of gastroscopic biopsy via deep-learned single-shot femtosecond stimulated Raman histology. <i>Nature Communications</i> , 2022, 13, .	12.8	52

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19	Ligand Exchange Dynamics in Aqueous Solution Studied with 2DIR Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2010, 114, 6693-6702.	2.6	51
20	Switchable stimulated Raman scattering microscopy with photochromic vibrational probes. <i>Nature Communications</i> , 2021, 12, 3089.	12.8	48
21	Direct measurement of the protein response to an electrostatic perturbation that mimics the catalytic cycle in ketosteroid isomerase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 16612-16617.	7.1	45
22	Laser beam controlled drug release from Ce6â€“gold nanorod composites in living cells: a FLIM study. <i>Nanoscale</i> , 2015, 7, 2433-2441.	5.6	44
23	Orientalional relaxation dynamics in aqueous ionic solution: Polarization-selective two-dimensional infrared study of angular jump-exchange dynamics in aqueous 6M NaClO4. <i>Journal of Chemical Physics</i> , 2011, 134, 044516.	3.0	42
24	H-bond switching and ligand exchange dynamics in aqueous ionic solution. <i>Chemical Physics Letters</i> , 2011, 504, 1-6.	2.6	38
25	Vibrational Imaging and Quantification of Two-Dimensional Hexagonal Boron Nitride with Stimulated Raman Scattering. <i>ACS Nano</i> , 2019, 13, 14033-14040.	14.6	35
26	Contact Ion Pair Formation between Hard Acids and Soft Bases in Aqueous Solutions Observed with 2DIR Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2013, 117, 15306-15312.	2.6	34
27	Rapid, 3D Chemical Profiling of Individual Atmospheric Aerosols with Stimulated Raman Scattering Microscopy. <i>Small Methods</i> , 2020, 4, 1900600.	8.6	33
28	Highly Efficient Destruction of Amyloid-Î² Fibrils by Femtosecond Laser-Induced Nanoexplosion of Gold Nanorods. <i>ACS Chemical Neuroscience</i> , 2016, 7, 1728-1736.	3.5	30
29	Dynamics of Ion Assembly in Solution: 2DIR Spectroscopy Study of LiNCS in Benzonitrile. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 1771-1775.	4.6	29
30	Dynamics of Solvent-Mediated Electron Localization in Electronically Excited Hexacyanoferrate(III). <i>Journal of the American Chemical Society</i> , 2012, 134, 2581-2588.	13.7	29
31	Label-free, Quantitative Imaging of MoS ₂ Nanosheets in Live Cells with Simultaneous Stimulated Raman Scattering and Transient Absorption Microscopy. <i>Advanced Biology</i> , 2017, 1, e1700013.	3.0	29
32	<i>L2hgdh</i> Deficiency Accumulates <i>l</i> -2-Hydroxyglutarate with Progressive Leukoencephalopathy and Neurodegeneration. <i>Molecular and Cellular Biology</i> , 2017, 37, .	2.3	27
33	Highly specific and label-free histological identification of microcrystals in fresh human gout tissues with stimulated Raman scattering. <i>Theranostics</i> , 2021, 11, 3074-3088.	10.0	25
34	<p>Controlled-releasing hydrogen sulfide donor based on dual-modal iron oxide nanoparticles protects myocardial tissue from ischemia–reperfusion injury</p>. <i>International Journal of Nanomedicine</i> , 2019, Volume 14, 875-888.	6.7	24
35	Label-free imaging of hemoglobin degradation and hemosiderin formation in brain tissues with femtosecond pump-probe microscopy. <i>Theranostics</i> , 2018, 8, 4129-4140.	10.0	23
36	Site-Specific Measurement of Water Dynamics in the Substrate Pocket of Ketosteroid Isomerase Using Time-Resolved Vibrational Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2012, 116, 11414-11421.	2.6	22

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37	Microcalcification-Based Tumor Malignancy Evaluation in Fresh Breast Biopsies with Hyperspectral Stimulated Raman Scattering. <i>Analytical Chemistry</i> , 2021, 93, 6223-6231.	6.5	21
38	Microsphere Assisted Super-resolution Optical Imaging of Plasmonic Interaction between Gold Nanoparticles. <i>Scientific Reports</i> , 2017, 7, 13789.	3.3	20
39	Optimizing Nonlinear Optical Visibility of Two-Dimensional Materials. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 34448-34455.	8.0	20
40	Rapid, large-scale stimulated Raman histology with strip mosaicing and dual-phase detection. <i>Biomedical Optics Express</i> , 2018, 9, 2604.	2.9	20
41	Towards the standardization of graphene growth through carbon depletion, refilling and nucleation. <i>Carbon</i> , 2017, 119, 350-354.	10.3	19
42	Real-time image guidance for brain tumor surgery through stimulated Raman scattering microscopy. <i>Expert Review of Anticancer Therapy</i> , 2014, 14, 359-361.	2.4	18
43	Ultrafast Vibrational Population Transfer Dynamics in 2-Acetylcyclopentanone Studied by 2D IR Spectroscopy. <i>ChemPhysChem</i> , 2011, 12, 799-805.	2.1	16
44	Label-free visualization of lignin deposition in loquats using complementary stimulated and spontaneous Raman microscopy. <i>Horticulture Research</i> , 2019, 6, 72.	6.3	16
45	Stimulated Raman scattering microscopy for rapid brain tumor histology. <i>Journal of Innovative Optical Health Sciences</i> , 2017, 10, 1730010.	1.0	15
46	Imaging Laser-Triggered Drug Release from Gold Nanocages with Transient Absorption Lifetime Microscopy. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 19653-19661.	8.0	14
47	Hybrid Label-Free Molecular Microscopies for Simultaneous Visualization of Changes in Cell Wall Polysaccharides of Peach at Single- and Multiple-Cell Levels during Postharvest Storage. <i>Cells</i> , 2020, 9, 761.	4.1	12
48	Label-Free Histology and Evaluation of Human Pancreatic Cancer with Coherent Nonlinear Optical Microscopy. <i>Analytical Chemistry</i> , 2021, 93, 15550-15558.	6.5	12
49	Ultra-Fast Synthesis of Single-Crystalline Three-Dimensional Covalent Organic Frameworks and Their Applications in Polarized Optics. <i>Chemistry of Materials</i> , 2022, 34, 2886-2895.	6.7	12
50	Interdependence of Conformational and Chemical Reaction Dynamics during Ion Assembly in Polar Solvents. <i>Journal of Physical Chemistry B</i> , 2011, 115, 11399-11408.	2.6	11
51	Passively synchronized mode-locked fiber lasers for coherent anti-Stokes Raman imaging. <i>Optics Express</i> , 2020, 28, 13721.	3.4	11
52	Dichroic Photoelasticity in Black Phosphorus Revealed by Ultrafast Coherent Phonon Dynamics. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 5871-5878.	4.6	8
53	Aqueous Mg ²⁺ and Ca ²⁺ Ligand Exchange Mechanisms Identified with 2DIR Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2013, 117, 12268-12275.	2.6	6
54	Angle-tunable intersubband photoabsorption and enhanced photobleaching in twisted bilayer graphene. <i>Nano Research</i> , 2021, 14, 2797-2804.	10.4	6

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55	Influence of solute-solvent coordination on the orientational relaxation of ion assemblies in polar solvents. <i>Journal of Chemical Physics</i> , 2012, 136, 014501.	3.0	4
56	Generation of broadband parabolic pulses based on a pre-chirper free, core-pumped nonlinear fiber amplifier for coherent anti-Stokes Raman imaging. <i>Optics Express</i> , 2022, 30, 7636.	3.4	4
57	Composite acousto-optical modulation. <i>Optics Express</i> , 2022, 30, 27780.	3.4	4
58	Fast tunable all-polarization-maintaining supercontinuum fiber laser for CARS microscopy. <i>Applied Physics Express</i> , 2021, 14, 062004.	2.4	3
59	Differential characterization of lumbar spine associated tissue histology with nonlinear optical microscopy. <i>Biomedical Optics Express</i> , 2022, 13, 474.	2.9	2
60	Fiber-Enhanced Stimulated Raman Scattering and Sensitive Detection of Dilute Solutions. <i>Biosensors</i> , 2022, 12, 243.	4.7	2
61	High-performance fiber parametric oscillator for coherent Raman microscopy. , 2014, , .		0
62	Photoinduced Intersubband Absorption and Enhanced Photobleaching in Twisted Bilayer Graphene. , 2021, , .		0
63	Passive-synchronized picosecond fiber lasers for coherent anti-Stokes Raman imaging. , 2020, , .		0
64	Neurodegenerative disease by SRS microscopy. , 2022, , 501-514.		0