

# Minbiao Ji

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Neurodegenerative disease by SRS microscopy. , 2022, , 501-514.		0
2	Generation of broadband parabolic pulses based on a pre-chirper free, core-pumped nonlinear fiber amplifier for coherent anti-Stokes Raman imaging. Optics Express, 2022, 30, 7636.	3.4	4
3	Composite acousto-optical modulation. Optics Express, 2022, 30, 27780.	3.4	4
4	Ultra-Fast Synthesis of Single-Crystalline Three-Dimensional Covalent Organic Frameworks and Their Applications in Polarized Optics. Chemistry of Materials, 2022, 34, 2886-2895.	6.7	12
5	Differential characterization of lumbar spine associated tissue histology with nonlinear optical microscopy. Biomedical Optics Express, 2022, 13, 474.	2.9	2
6	Fiber-Enhanced Stimulated Raman Scattering and Sensitive Detection of Dilute Solutions. Biosensors, 2022, 12, 243.	4.7	2
7	Instant diagnosis of gastroscopic biopsy via deep-learned single-shot femtosecond stimulated Raman histology. Nature Communications, 2022, 13, .	12.8	52
8	Highly specific and label-free histological identification of microcrystals in fresh human gout tissues with stimulated Raman scattering. Theranostics, 2021, 11, 3074-3088.	10.0	25
9	Angle-tunable intersubband photoabsorption and enhanced photobleaching in twisted bilayer graphene. Nano Research, 2021, 14, 2797-2804.	10.4	6
10	Microcalcification-Based Tumor Malignancy Evaluation in Fresh Breast Biopsies with Hyperspectral Stimulated Raman Scattering. Analytical Chemistry, 2021, 93, 6223-6231.	6.5	21
11	Fast tunable all-polarization-maintaining supercontinuum fiber laser for CARS microscopy. Applied Physics Express, 2021, 14, 062004.	2.4	3
12	Switchable stimulated Raman scattering microscopy with photochromic vibrational probes. Nature Communications, 2021, 12, 3089.	12.8	48
13	Photoinduced Intersubband Absorption and Enhanced Photobleaching in Twisted Bilayer Graphene. , 2021, , .		0
14	Dichroic Photoelasticity in Black Phosphorus Revealed by Ultrafast Coherent Phonon Dynamics. Journal of Physical Chemistry Letters, 2021, 12, 5871-5878.	4.6	8
15	Label-Free Histology and Evaluation of Human Pancreatic Cancer with Coherent Nonlinear Optical Microscopy. Analytical Chemistry, 2021, 93, 15550-15558.	6.5	12
16	Rapid, 3D Chemical Profiling of Individual Atmospheric Aerosols with Stimulated Raman Scattering Microscopy. Small Methods, 2020, 4, 1900600.	8.6	33
17	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. Cells, 2020, 9, 761.	4.1	12
18	Passively synchronized mode-locked fiber lasers for coherent anti-Stokes Raman imaging. Optics Express, 2020, 28, 13721.	3.4	11

#	ARTICLE	IF	CITATIONS
19	Passive-synchronized picosecond fiber lasers for coherent anti-Stokes Raman imaging. , 2020, , .		0
20	Label-free visualization of lignin deposition in loquats using complementary stimulated and spontaneous Raman microscopy. Horticulture Research, 2019, 6, 72.	6.3	16
21	Rapid histology of laryngeal squamous cell carcinoma with deep-learning based stimulated Raman scattering microscopy. Theranostics, 2019, 9, 2541-2554.	10.0	106
22	&lt;p&gt;Controlled-releasing hydrogen sulfide donor based on dual-modal iron oxide nanoparticles protects myocardial tissue from ischemia&ndash;reperfusion injury&lt;/p&gt;. International Journal of Nanomedicine, 2019, Volume 14, 875-888.	6.7	24
23	Vibrational Imaging and Quantification of Two-Dimensional Hexagonal Boron Nitride with Stimulated Raman Scattering. ACS Nano, 2019, 13, 14033-14040.	14.6	35
24	Layer-Dependent Ultrafast Carrier and Coherent Phonon Dynamics in Black Phosphorus. Nano Letters, 2018, 18, 3053-3059.	9.1	75
25	Label-free imaging of amyloid plaques in Alzheimer&rsquo;s disease with stimulated Raman scattering microscopy. Science Advances, 2018, 4, eaat7715.	10.3	122
26	Label-free imaging of hemoglobin degradation and hemosiderin formation in brain tissues with femtosecond pump-probe microscopy. Theranostics, 2018, 8, 4129-4140.	10.0	23
27	Rapid, large-scale stimulated Raman histology with strip mosaicing and dual-phase detection. Biomedical Optics Express, 2018, 9, 2604.	2.9	20
28	<i>L2hgdh</i> Deficiency Accumulates <sc>l</sc>-2-Hydroxyglutarate with Progressive Leukoencephalopathy and Neurodegeneration. Molecular and Cellular Biology, 2017, 37, .	2.3	27
29	Towards the standardization of graphene growth through carbon depletion, refilling and nucleation. Carbon, 2017, 119, 350-354.	10.3	19
30	Imaging Laser-Triggered Drug Release from Gold Nanocages with Transient Absorption Lifetime Microscopy. ACS Applied Materials & Interfaces, 2017, 9, 19653-19661.	8.0	14
31	Label&Free, Quantitative Imaging of MoS<sub>2</sub>â€Nanosheets in Live Cells with Simultaneous Stimulated Raman Scattering and Transient Absorption Microscopy. Advanced Biology, 2017, 1, e1700013.	3.0	29
32	Stimulated Raman scattering microscopy for rapid brain tumor histology. Journal of Innovative Optical Health Sciences, 2017, 10, 1730010.	1.0	15
33	Microsphere Assisted Super-resolution Optical Imaging of Plasmonic Interaction between Gold Nanoparticles. Scientific Reports, 2017, 7, 13789.	3.3	20
34	Optimizing Nonlinear Optical Visibility of Two-Dimensional Materials. ACS Applied Materials & Interfaces, 2017, 9, 34448-34455.	8.0	20
35	Dual-phase stimulated Raman scattering microscopy for real-time two-color imaging. Optica, 2017, 4, 44.	9.3	86
36	Stimulated Raman scattering microscopy and spectroscopy with a rapid scanning optical delay line. Optics Letters, 2017, 42, 659.	3.3	52

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37	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
38	Highly Efficient Destruction of Amyloid- $\beta$ Fibrils by Femtosecond Laser-Induced Nanoexplosion of Gold Nanorods. <i>ACS Chemical Neuroscience</i> , 2016, 7, 1728-1736.	3.5	30
39	Monitoring peripheral nerve degeneration in ALS by label-free stimulated Raman scattering imaging. <i>Nature Communications</i> , 2016, 7, 13283.	12.8	82
40	Detection of human brain tumor infiltration with quantitative stimulated Raman scattering microscopy. <i>Science Translational Medicine</i> , 2015, 7, 309ra163.	12.4	249
41	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
42	Laser beam controlled drug release from Ce6 $\alpha$ “gold nanorod composites in living cells: a FLIM study. <i>Nanoscale</i> , 2015, 7, 2433-2441.	5.6	44
43	High-performance fiber parametric oscillator for coherent Raman microscopy. , 2014, , .		0
44	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
45	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
46	Aqueous Mg <sup>2+</sup> and Ca <sup>2+</sup> Ligand Exchange Mechanisms Identified with 2DIR Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2013, 117, 12268-12275.	2.6	6
47	Multicolor stimulated Raman scattering microscopy with a rapidly tunable optical parametric oscillator. <i>Optics Letters</i> , 2013, 38, 145.	3.3	89
48	Fiber optical parametric oscillator for coherent anti-Stokes Raman scattering microscopy. <i>Optics Letters</i> , 2013, 38, 4154.	3.3	68
49	Rapid, Label-Free Detection of Brain Tumors with Stimulated Raman Scattering Microscopy. <i>Science Translational Medicine</i> , 2013, 5, 201ra119.	12.4	398
50	Multicolored stain-free histopathology with coherent Raman imaging. <i>Laboratory Investigation</i> , 2012, 92, 1492-1502.	3.7	130
51	Multicolor stimulated Raman scattering microscopy. <i>Molecular Physics</i> , 2012, 110, 1927-1932.	1.7	91
52	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
53	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
54	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

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55	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
56	Ultrafast Vibrational Population Transfer Dynamics in 2-Acetylcyclopentanone Studied by 2D IR Spectroscopy. <i>ChemPhysChem</i> , 2011, 12, 799-805.	2.1	16
57	H-bond switching and ligand exchange dynamics in aqueous ionic solution. <i>Chemical Physics Letters</i> , 2011, 504, 1-6.	2.6	38
58	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
59	Orientalional relaxation dynamics in aqueous ionic solution: Polarization-selective two-dimensional infrared study of angular jump-exchange dynamics in aqueous 6M NaClO <sub>4</sub> . <i>Journal of Chemical Physics</i> , 2011, 134, 044516.	3.0	42
60	Large Angular Jump Mechanism Observed for Hydrogen Bond Exchange in Aqueous Perchlorate Solution. <i>Science</i> , 2010, 328, 1003-1005.	12.6	187
61	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
62	Ligand Exchange Dynamics in Aqueous Solution Studied with 2DIR Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2010, 114, 6693-6702.	2.6	51
63	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
64	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