

# Yao Zhang

## List of Publications by Year in descending order

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Version: 2024-02-01

40  
papers

2,539  
citations

361413

20  
h-index

302126

39  
g-index

40  
all docs

40  
docs citations

40  
times ranked

2811  
citing authors

#	ARTICLE	IF	CITATIONS
1	Single-molecule optomechanics in $\epsilon$ -picocavities. <i>Science</i> , 2016, 354, 726-729.	12.6	607
2	Visualizing coherent intermolecular dipole-dipole coupling in real space. <i>Nature</i> , 2016, 531, 623-627.	27.8	284
3	Distinguishing adjacent molecules on a surface using plasmon-enhanced Raman scattering. <i>Nature Nanotechnology</i> , 2015, 10, 865-869.	31.5	239
4	Sub-nanometre control of the coherent interaction between a single molecule and a plasmonic nanocavity. <i>Nature Communications</i> , 2017, 8, 15225.	12.8	158
5	Atomic-Scale Lightning Rod Effect in Plasmonic Picocavities: A Classical View to a Quantum Effect. <i>ACS Nano</i> , 2018, 12, 585-595.	14.6	155
6	Sub-nanometre resolution in single-molecule photoluminescence imaging. <i>Nature Photonics</i> , 2020, 14, 693-699.	31.4	152
7	Mastering high resolution tip-enhanced Raman spectroscopy: towards a shift of perception. <i>Chemical Society Reviews</i> , 2017, 46, 3922-3944.	38.1	131
8	Visually constructing the chemical structure of a single molecule by scanning Raman picoscopy. <i>National Science Review</i> , 2019, 6, 1169-1175.	9.5	91
9	Determining structural and chemical heterogeneities of surface species at the single-bond limit. <i>Science</i> , 2021, 371, 818-822.	12.6	77
10	Electrically Driven Single-Photon Superradiance from Molecular Chains in a Plasmonic Nanocavity. <i>Physical Review Letters</i> , 2019, 122, 233901.	7.8	62
11	Distinguishing Individual DNA Bases in a Network by Non-Resonant Tip-Enhanced Raman Scattering. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 5561-5564.	13.8	51
12	NIR-Responsive TiO <sub>2</sub> Biometasurfaces: Toward In Situ Photodynamic Antibacterial Therapy for Biomedical Implants. <i>Advanced Materials</i> , 2022, 34, e2106314.	21.0	51
13	Chemical Mapping of Nanodefects within 2D Covalent Monolayers by Tip-Enhanced Raman Spectroscopy. <i>ACS Nano</i> , 2018, 12, 5021-5029.	14.6	45
14	Structural Characterization of a Covalent Monolayer Sheet Obtained by Two-Dimensional Polymerization at an Air/Water Interface. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 15262-15266.	13.8	39
15	Subnanometer-resolved chemical imaging via multivariate analysis of tip-enhanced Raman maps. <i>Light: Science and Applications</i> , 2017, 6, e17098-e17098.	16.6	36
16	Fano resonance in anodic aluminum oxide based photonic crystals. <i>Scientific Reports</i> , 2014, 4, 3601.	3.3	34
17	Probing intramolecular vibronic coupling through vibronic-state imaging. <i>Nature Communications</i> , 2021, 12, 1280.	12.8	34
18	Nanoscale Chemical Imaging of Interfacial Monolayers by Tip-Enhanced Raman Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 9361-9366.	13.8	32

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19	Distinguishing Individual DNA Bases in a Network by Non-Resonant Tip-Enhanced Raman Scattering. <i>Angewandte Chemie</i> , 2017, 129, 5653-5656.	2.0	26
20	In-situ nanospectroscopic imaging of plasmon-induced two-dimensional [4+4]-cycloaddition polymerization on Au(111). <i>Nature Communications</i> , 2021, 12, 4557.	12.8	24
21	Molecular-Scale Chemical Imaging of the Orientation of an On-Surface Coordination Complex by Tip-Enhanced Raman Spectroscopy. <i>Journal of the American Chemical Society</i> , 2021, 143, 12380-12386.	13.7	21
22	Wavelike electronic energy transfer in donor-acceptor molecular systems through quantum coherence. <i>Nature Nanotechnology</i> , 2022, 17, 729-736.	31.5	19
23	Probing Adsorption Configurations of Small Molecules on Surfaces by Single-Molecule Tip-Enhanced Raman Spectroscopy. <i>ChemPhysChem</i> , 2019, 20, 37-41.	2.1	18
24	Theoretical treatment of single-molecule scanning Raman picoscopy in strongly inhomogeneous near fields. <i>Journal of Raman Spectroscopy</i> , 2021, 52, 296-309.	2.5	18
25	Raman Detection of Bond Breaking and Making of a Chemisorbed Up-Standing Single Molecule at Single-Bond Level. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 1961-1968.	4.6	18
26	All-Optical Input Transistors: Light-Controlled Enhancement of Plasmon-Induced Photocurrent. <i>Advanced Functional Materials</i> , 2018, 28, 1802288.	14.9	17
27	Influence of the Chemical Structure on Molecular Light Emission in Strongly Localized Plasmonic Fields. <i>Journal of Physical Chemistry C</i> , 2020, 124, 4674-4683.	3.1	16
28	Tunneling electron induced molecular electroluminescence from individual porphyrin J-aggregates. <i>Applied Physics Letters</i> , 2015, 107, .	3.3	13
29	Site-dependent TERS study of a porphyrin molecule on Ag(100) at 7...K. <i>Chinese Journal of Chemical Physics</i> , 2019, 32, 287-291.	1.3	10
30	Probing the deformation of [12]cycloparaphenylene molecular nano hoops adsorbed on metal surfaces by tip-enhanced Raman spectroscopy. <i>Journal of Chemical Physics</i> , 2020, 153, 244201.	3.0	10
31	Molecular Perturbation Effects in AFM-Based Tip-Enhanced Raman Spectroscopy: Contact versus Tapping Mode. <i>Analytical Chemistry</i> , 2021, 93, 15358-15364.	6.5	10
32	Na <sub>y</sub> WO <sub>3</sub> Nanosheet Array via In Situ Na Intercalation for Surface-Enhanced Raman Scattering Detection of Methylene Blue. <i>ACS Applied Nano Materials</i> , 2022, 5, 7841-7849.	5.0	8
33	Plasmon-enhanced S <sub>2</sub> electroluminescence from the high-lying excited state of a single porphyrin molecule. <i>Applied Physics Letters</i> , 2020, 117, .	3.3	6
34	Bias-polarity dependent electroluminescence from a single platinum phthalocyanine molecule. <i>Chinese Journal of Chemical Physics</i> , 2021, 34, 87-94.	1.3	6
35	Picocavity-Controlled Subnanometer-Resolved Single-Molecule Fluorescence Imaging and Mollow Triplets. <i>Journal of Physical Chemistry C</i> , 2022, 126, 11129-11137.	3.1	5
36	Sub-Nanometer Resolved Tip-Enhanced Raman Spectroscopy of a Single Molecule on the Si(111) Substrate. <i>Journal of Physical Chemistry C</i> , 2022, 126, 12121-12128.	3.1	5

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37	What can single-molecule Fano resonance tell?. <i>Journal of Chemical Physics</i> , 2021, 154, 044309.	3.0	4
38	Scanning Raman picoscopy: Å...ngstrÅm-resolved tip-enhanced Raman spectromicroscopy. <i>Chinese Journal of Chemical Physics</i> , 2021, 34, 1-14.	1.3	4
39	Bicomponent supramolecular self-assembly studied with tip-enhanced Raman spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2021, 52, 366-374.	2.5	3
40	Transistors: All-Optical-Input Transistors: Light-Controlled Enhancement of Plasmon-Induced Photocurrent ( <i>Adv. Funct. Mater.</i> 40/2018). <i>Advanced Functional Materials</i> , 2018, 28, 1870290.	14.9	0