

# Yao Zhao

## List of Publications by Year in descending order

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53  
papers

7,535  
citations

331670

21  
h-index

189892

50  
g-index

65  
all docs

65  
docs citations

65  
times ranked

10742  
citing authors

#	ARTICLE	IF	CITATIONS
1	Structure of Mpro from SARS-CoV-2 and discovery of its inhibitors. <i>Nature</i> , 2020, 582, 289-293.	27.8	3,133
2	Structure of the RNA-dependent RNA polymerase from COVID-19 virus. <i>Science</i> , 2020, 368, 779-782.	12.6	1,228
3	Structure-based design of antiviral drug candidates targeting the SARS-CoV-2 main protease. <i>Science</i> , 2020, 368, 1331-1335.	12.6	1,135
4	Structural basis for the inhibition of SARS-CoV-2 main protease by antineoplastic drug carmofur. <i>Nature Structural and Molecular Biology</i> , 2020, 27, 529-532.	8.2	339
5	Advances in Toxicological Research of the Anticancer Drug Cisplatin. <i>Chemical Research in Toxicology</i> , 2019, 32, 1469-1486.	3.3	215
6	Crystal Structures of Membrane Transporter MmpL3, an Anti-TB Drug Target. <i>Cell</i> , 2019, 176, 636-648.e13.	28.9	172
7	Inhibition mechanism of SARS-CoV-2 main protease by ebselen and its derivatives. <i>Nature Communications</i> , 2021, 12, 3061.	12.8	149
8	Crystal structure of SARS-CoV-2 main protease in complex with protease inhibitor PF-07321332. <i>Protein and Cell</i> , 2022, 13, 689-693.	11.0	136
9	Breaking the Intracellular Redox Balance with Diselenium Nanoparticles for Maximizing Chemotherapy Efficacy on Patient-Derived Xenograft Models. <i>ACS Nano</i> , 2020, 14, 16984-16996.	14.6	105
10	High-throughput screening identifies established drugs as SARS-CoV-2 PLpro inhibitors. <i>Protein and Cell</i> , 2021, 12, 877-888.	11.0	95
11	Structures of cell wall arabinosyltransferases with the anti-tuberculosis drug ethambutol. <i>Science</i> , 2020, 368, 1211-1219.	12.6	82
12	A Near-Infrared-II Polymer with Tandem Fluorophores Demonstrates Superior Biodegradability for Simultaneous Drug Tracking and Treatment Efficacy Feedback. <i>ACS Nano</i> , 2021, 15, 5428-5438.	14.6	79
13	Structural basis for replicase polyprotein cleavage and substrate specificity of main protease from SARS-CoV-2. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2117142119.	7.1	64
14	Uptake and Transformation of Silver Nanoparticles and Ions by Rice Plants Revealed by Dual Stable Isotope Tracing. <i>Environmental Science &amp; Technology</i> , 2019, 53, 625-633.	10.0	52
15	The gut microbiota in larvae of the housefly <i>Musca domestica</i> and their horizontal transfer through feeding. <i>AMB Express</i> , 2017, 7, 147.	3.0	49
16	Bacterial communities of the cotton aphid <i>Aphis gossypii</i> associated with Bt cotton in northern China. <i>Scientific Reports</i> , 2016, 6, 22958.	3.3	46
17	Potential-Dynamic Surface Chemistry Controls the Electrocatalytic Processes of Ethanol Oxidation on Gold Surfaces. <i>ACS Energy Letters</i> , 2019, 4, 215-221.	17.4	45
18	A negatively charged Pt( $\text{IV}$ ) prodrug for electrostatic complexation with polymers to overcome cisplatin resistance. <i>Journal of Materials Chemistry B</i> , 2019, 7, 3346-3350.	5.8	27

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19	In Situ Liquid Secondary Ion Mass Spectrometry: A Surprisingly Soft Ionization Process for Investigation of Halide Ion Hydration. <i>Analytical Chemistry</i> , 2019, 91, 7039-7046.	6.5	27
20	Structural insights into substrate recognition by the type VII secretion system. <i>Protein and Cell</i> , 2020, 11, 124-137.	11.0	25
21	Bt proteins Cry1Ah and Cry2Ab do not affect cotton aphid <i>Aphis gossypii</i> and ladybeetle <i>Propylea japonica</i> . <i>Scientific Reports</i> , 2016, 6, 20368.	3.3	24
22	A Photoactive Platinum(IV) Anticancer Complex Inhibits Thioredoxin Thioredoxin Reductase System Activity by Induced Oxidization of the Protein. <i>Inorganic Chemistry</i> , 2018, 57, 5575-5584.	4.0	24
23	Impact of Single and Stacked Insect-Resistant Bt-Cotton on the Honey Bee and Silkworm. <i>PLoS ONE</i> , 2013, 8, e72988.	2.5	24
24	Identification of proteasome and caspase inhibitors targeting SARS-CoV-2 Mpro. <i>Signal Transduction and Targeted Therapy</i> , 2021, 6, 214.	17.1	17
25	Tea saponin reduces the damage of <i>Ectopis obliqua</i> to tea crops, and exerts reduced effects on the spiders <i>Ebrechtella tricuspidata</i> and <i>Evarcha albaria</i> compared to chemical insecticides. <i>PeerJ</i> , 2018, 6, e4534.	2.0	15
26	Proteomic Strategy for Identification of Proteins Responding to Cisplatin-Damaged DNA. <i>Analytical Chemistry</i> , 2019, 91, 6035-6042.	6.5	14
27	Cryo-EM snapshots of mycobacterial arabinosyltransferase complex EmbB2-AcpM2. <i>Protein and Cell</i> , 2020, 11, 505-517.	11.0	13
28	Hydrogen Isotope Effects on Aqueous Electrolyte for Electrochemical Lithium-Ion Storage. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	13
29	Real-Time Characterization of the Fine Structure and Dynamics of an Electrical Double Layer at Electrode-Electrolyte Interfaces. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 5279-5285.	4.6	12
30	In Situ Visualization of Proteins in Single Cells by Time-of-Flight Secondary Ion Mass Spectrometry Coupled with Genetically Encoded Chemical Tags. <i>Analytical Chemistry</i> , 2020, 92, 15517-15525.	6.5	11
31	Photo-induced mitochondrial DNA damage and NADH depletion by NO <sub>2</sub> modified Ru( $\sigma$ -cp) complexes. <i>Chemical Communications</i> , 2021, 57, 4162-4165.	4.1	11
32	Unexpected Thymine Oxidation and Collision-Induced Thymine-Pt-guanine Cross-Linking on 5'-TpG and 5'-GpT by a Photoactivatable Diazido Pt(IV) Anticancer Complex. <i>Inorganic Chemistry</i> , 2020, 59, 8468-8480.	4.0	10
33	Cisplatin-induced alteration on membrane composition of A549 cells revealed by ToF-SIMS. <i>Surface and Interface Analysis</i> , 2020, 52, 256-263.	1.8	9
34	Solvent-dependent structural dynamics of an azido-platinum complex revealed by linear and nonlinear infrared spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 9984-9996.	2.8	8
35	Organometallic ruthenium anticancer complexes inhibit human peroxiredoxin I activity by binding to and inducing oxidation of its catalytic cysteine residue. <i>Metallomics</i> , 2019, 11, 546-555.	2.4	8
36	Atmospheric particulate characterization by ToF-SIMS in an urban site in Beijing. <i>Atmospheric Environment</i> , 2020, 220, 117090.	4.1	8

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37	Photoactivatable diazido Pt(IV) anticancer complex can bind to and oxidize all four nucleosides. Dalton Transactions, 2020, 49, 17157-17163.	3.3	7
38	Reactions of a photoactivatable diazido Pt(IV) anticancer complex with a single-stranded oligodeoxynucleotide. Dalton Transactions, 2020, 49, 11249-11259.	3.3	7
39	Biodiversity Survey of Flower-Visiting Spiders Based on Literature Review and Field Study. Environmental Entomology, 2020, 49, 673-682.	1.4	7
40	Tandem Mass Spectrometry Reveals Preferential Ruthenation of Thymines in Human Telomeric G-Quadruplex DNA by an Organometallic Ruthenium Anticancer Complex. Organometallics, 2020, 39, 3315-3322.	2.3	6
41	G-quadruplex inducer/stabilizer pyridostatin targets <i>SUB1</i> to promote cytotoxicity of a transplatinum complex. Nucleic Acids Research, 2022, 50, 3070-3082.	14.5	6
42	Scaled conductance quantization unravels the switching mechanism in organic ternary resistive memories. Journal of Materials Chemistry C, 2020, 8, 2964-2969.	5.5	5
43	Heterogeneous Reaction of HCOOH on NaCl Particles at Different Relative Humidities. Journal of Physical Chemistry A, 2018, 122, 7218-7226.	2.5	3
44	Mass spectrometric quantification of the binding ratio of metal-based anticancer complexes with protein thiols. Rapid Communications in Mass Spectrometry, 2019, 33, 951-958.	1.5	3
45	ToF-SIMS analysis of chemical composition of atmospheric aerosols in Beijing. Surface and Interface Analysis, 2020, 52, 272-282.	1.8	3
46	Hydrogen Isotope Effects on Aqueous Electrolyte for Electrochemical Lithium-Ion Storage. Angewandte Chemie, 0, , .	2.0	3
47	Snapshots of catalysis: Structure of covalently bound substrate trapped in Mycobacterium tuberculosis thiazole synthase (ThiG). Biochemical and Biophysical Research Communications, 2018, 497, 214-219.	2.1	2
48	Transcriptome responses to elevated CO <sub>2</sub> level and Wolbachia infection stress in <i>Hylyphantes graminicola</i> (Araneae: Linyphiidae). Insect Science, 2020, 27, 908-920.	3.0	1
49	Open-flow microperfusion combined with mass spectrometry for <i>in vivo</i> liver lipidomic analysis. Analyst, The, 2021, 146, 1915-1923.	3.5	1
50	ToF-SIMS characterization of surface chemical evolution on electrode surfaces induced by electrochemical activation. Journal of Analytical Atomic Spectrometry, 2022, 37, 890-897.	3.0	1
51	Modest sexual size dimorphism and allometric growth: a study based on growth and gonad development in the wolf spider <i>Pardosa pseudoannulata</i> (Araneae: Lycosidae). Biology Open, 2021, 10, .	1.2	1
52	Elevated CO <sub>2</sub> concentration affects survival, but not development, reproduction, or predation of the predator <i>Hylyphantes graminicola</i> (Araneae: Linyphiidae). Environmental Pollution, 2021, 288, 117791.	7.5	0
53	Serum phosphopeptide profiling for colorectal cancer diagnosis using liquid chromatography-mass spectrometry. Rapid Communications in Mass Spectrometry, 2022, 36, e9316.	1.5	0