Hongyan Li

List of Publications by Year in descending order

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		159358	168136
75	3,174	30	53
papers	citations	h-index	g-index

77	77	77	3155
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Transferrin as a Metal Ion Mediator. Chemical Reviews, 1999, 99, 2817-2842.	23.0	361
2	Bismuth antimicrobial drugs serve as broad-spectrum metallo-Î²-lactamase inhibitors. Nature Communications, 2018, 9, 439.	5.8	169
3	Recent advances in bioinorganic chemistry of bismuth. Current Opinion in Chemical Biology, 2012, 16, 74-83.	2.8	155
4	Metallodrug ranitidine bismuth citrate suppresses SARS-CoV-2 replication and relieves virus-associated pneumonia in Syrian hamsters. Nature Microbiology, 2020, 5, 1439-1448.	5.9	140
5	Interactions of Bismuth Complexes with Metallothionein(II). Journal of Biological Chemistry, 1999, 274, 29094-29101.	1.6	138
6	A Histidine-rich and Cysteine-rich Metal-binding Domain at the C Terminus of Heat Shock Protein A from Helicobacter pylori. Journal of Biological Chemistry, 2008, 283, 15142-15151.	1.6	102
7	Medicinal chemistry and biomedical applications of bismuth-based compounds and nanoparticles. Chemical Society Reviews, 2021, 50, 12037-12069.	18.7	92
8	Rationalization of the Strength of Metal Binding to Human Serum Transferrin. FEBS Journal, 1996, 242, 387-393.	0.2	91
9	Structure of a Nickel Chaperone, HypA, from Helicobacter pylori Reveals Two Distinct Metal Binding Sites. Journal of the American Chemical Society, 2009, 131, 10031-10040.	6.6	90
10	Bismuth(III) Complexes of the Tripeptide Glutathione (Î³â€Lâ€Gluâ€“Lâ€Cysâ€“Gly). Chemistry - A European Journal, 1996, 2, 701-708.	1.7	81
11	Rapid labeling of intracellular His-tagged proteins in living cells. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 2948-2953.	3.3	80
12	Multi-target mode of action of silver against Staphylococcus aureus endows it with capability to combat antibiotic resistance. Nature Communications, 2021, 12, 3331.	5.8	80
13	Systems Approaches for Unveiling the Mechanism of Action of Bismuth Drugs: New Medicinal Applications beyond Helicobacter Pylori Infection. Accounts of Chemical Research, 2019, 52, 216-227.	7.6	76
14	Resensitizing carbapenem- and colistin-resistant bacteria to antibiotics using auranofin. Nature Communications, 2020, 11, 5263.	5.8	70
15	Integrative approach for the analysis of the proteome-wide response to bismuth drugs in Helicobacter pylori. Chemical Science, 2017, 8, 4626-4633.	3.7	66
16	Deciphering molecular mechanism of silver by integrated omic approaches enables enhancing its antimicrobial efficacy in E. coli. PLoS Biology, 2019, 17, e3000292.	2.6	66
17	Binding of Ni2+ to a histidine- and glutamine-rich protein, Hpn-like. Journal of Biological Inorganic Chemistry, 2008, 13, 1121-1131.	1.1	63
18	UreE-UreG Complex Facilitates Nickel Transfer and Preactivates GTPase of UreG in Helicobacter pylori. Journal of Biological Chemistry, 2015, 290, 12474-12485.	1.6	56

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19	Combination of gallium(<scp>iii</scp>) with acetate for combating antibiotic resistant Pseudomonas aeruginosa. Chemical Science, 2019, 10, 6099-6106.	3.7	52
20	Metallo-GTPase HypB from Helicobacter pylori and Its Interaction with Nickel Chaperone Protein HypA. Journal of Biological Chemistry, 2012, 287, 6753-6763.	1.6	50
21	Predicting disease-associated mutation of metal-binding sites in proteins using a deep learning approach. Nature Machine Intelligence, 2019, 1, 561-567.	8.3	48
22	Metalloproteomics in conjunction with other omics for uncovering the mechanism of action of metallodrugs: Mechanism-driven new therapy development. Current Opinion in Chemical Biology, 2020, 55, 171-179.	2.8	43
23	Antimicrobial silver targets glyceraldehyde-3-phosphate dehydrogenase in glycolysis of E. coli. Chemical Science, 2019, 10, 7193-7199.	3.7	42
24	Solution structures, dynamics, and lipid-binding of the sterile Î±-motif domain of the deleted in liver cancer 2. Proteins: Structure, Function and Bioinformatics, 2007, 67, 1154-1166.	1.5	41
25	Multifaceted SlyD from Helicobacter pylori: implication in [NiFe] hydrogenase maturation. Journal of Biological Inorganic Chemistry, 2012, 17, 331-343.	1.1	40
26	Metallomic and metalloproteomic strategies in elucidating the molecular mechanisms of metallodrugs. Dalton Transactions, 2015, 44, 437-447.	1.6	40
27	Cytotoxicity of arsenic trioxide in single leukemia cells by time-resolved ICP-MS together with lanthanide tags. Chemical Communications, 2017, 53, 2970-2973.	2.2	37
28	Nickel translocation between metallochaperones HypA and UreE in Helicobacter pylori. Metallomics, 2014, 6, 1731-1736.	1.0	34
29	Metallochaperone UreG serves as a new target for design of urease inhibitor: A novel strategy for development of antimicrobials. PLoS Biology, 2018, 16, e2003887.	2.6	34
30	Multi-omics and temporal dynamics profiling reveal disruption of central metabolism inHelicobacter pylorion bismuth treatment. Chemical Science, 2018, 9, 7488-7497.	3.7	33
31	Metalloproteomics for Unveiling the Mechanism of Action of Metallodrugs. Inorganic Chemistry, 2019, 58, 13673-13685.	1.9	32
32	Bio-coordination of bismuth in Helicobacter pylori revealed by immobilized metal affinity chromatography. Chemical Communications, 2015, 51, 16479-16482.	2.2	31
33	Interaction of SlyD with HypB of Helicobacter pylori facilitates nickel trafficking. Metallomics, 2013, 5, 804.	1.0	30
34	Identification of catabolite control protein A fromStaphylococcus aureusas a target of silver ions. Chemical Science, 2017, 8, 8061-8066.	3.7	27
35	Hyperthermia Selectively Destabilizes Oncogenic Fusion Proteins. Blood Cancer Discovery, 2021, 2, 388-401.	2.6	26
36	Cell Cycle-Dependent Uptake and Cytotoxicity of Arsenic-Based Drugs in Single Leukemia Cells. Analytical Chemistry, 2018, 90, 10465-10471.	3.2	25

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37	Bismuth-Induced Inactivation of Ferric Uptake Regulator from Helicobacter pylori. Inorganic Chemistry, 2017, 56, 15041-15048.	1.9	24
38	Targeting the Thioredoxin Reductaseâ€“Thioredoxin System from Staphylococcus aureus by Silver Ions. Inorganic Chemistry, 2017, 56, 14823-14830.	1.9	24
39	Functional disruption of HypB, a GTPase of Helicobacter pylori, by bismuth. Chemical Communications, 2014, 50, 1611-1614.	2.2	22
40	On-line coupling of continuous-flow gel electrophoresis with inductively coupled plasma-mass spectrometry to quantitatively evaluate intracellular metal binding properties of metallochaperones HpHypA and HpHspA in E. coli cells. Metallomics, 2015, 7, 1399-1406.	1.0	22
41	Bismuth drugs tackle Porphyromonas gingivalis and attune cytokine response in human cells. Metallomics, 2019, 11, 1207-1218.	1.0	22
42	Arsenic trioxide targets Hsp60, triggering degradation of p53 and survivin. Chemical Science, 2021, 12, 10893-10900.	3.7	22
43	A Ni-NTA-based red fluorescence probe for protein labelling in live cells. Journal of Materials Chemistry B, 2017, 5, 1166-1173.	2.9	21
44	Integration of fluorescence imaging with proteomics enables visualization and identification of metallo-proteomes in living cells. Metallomics, 2017, 9, 38-47.	1.0	21
45	Bismuth drugs as antimicrobial agents. Advances in Inorganic Chemistry, 2020, 75, 183-205.	0.4	19
46	Orally administered bismuth drug together with N-acetyl cysteine as a broad-spectrum anti-coronavirus cocktail therapy. Chemical Science, 2022, 13, 2238-2248.	3.7	19
47	Structural Insight into the Substrate Gating Mechanism by Staphylococcus aureus Aldehyde Dehydrogenase. CCS Chemistry, 2020, 2, 946-954.	4.6	18
48	Activation of carboplatin and nedaplatin by the N-terminus of human copper transporter 1 (hCTR1). Chemical Science, 2012, 3, 3206.	3.7	17
49	Functional disruption of peroxiredoxin by bismuth antiulcer drugs attenuates Helicobacter pylori survival. Journal of Biological Inorganic Chemistry, 2017, 22, 673-683.	1.1	17
50	S-Dimethylarsino-glutathione (darinaparsinÂ®) targets histone H3.3, leading to TRAIL-induced apoptosis in leukemia cells. Chemical Communications, 2019, 55, 13120-13123.	2.2	17
51	Identification and Characterization of a Metalloprotein Involved in Gallium Internalization in Pseudomonas aeruginosa. ACS Infectious Diseases, 2019, 5, 1693-1697.	1.8	16
52	The unique trimeric assembly of the virulence factor HtrA from Helicobacter pylori occurs via N-terminal domain swapping. Journal of Biological Chemistry, 2019, 294, 7990-8000.	1.6	16
53	Metalloproteomics for Biomedical Research: Methodology and Applications. Annual Review of Biochemistry, 2022, 91, 449-473.	5.0	16
54	Exploration into the nickel â€˜microcosmosâ€™ in prokaryotes. Coordination Chemistry Reviews, 2016, 311, 24-37.	9.5	15

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55	Re-sensitization of mcr carrying multidrug resistant bacteria to colistin by silver. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2119417119.	3.3	15
56	Atomic differentiation of silver binding preference in protein targets:Escherichia colimalate dehydrogenase as a paradigm. Chemical Science, 2020, 11, 11714-11719.	3.7	14
57	Metal-based strategies for the fight against COVID-19. Chemical Communications, 2022, 58, 7466-7482.	2.2	14
58	Structure and topology of the transmembrane domain 4 of the divalent metal transporter in membrane-mimetic environments. FEBS Journal, 2004, 271, 1938-1951.	0.2	13
59	Metalloproteomic Approaches for Matching Metals to Proteins: The Power of Inductively Coupled Plasma Mass Spectrometry (ICP-MS). Chemistry Letters, 2020, 49, 697-704.	0.7	13
60	NMR structures and orientation of the fourth transmembrane domain of the rat divalent metal transporter (DMT1) with G185D mutation in SDS micelles. Biopolymers, 2005, 77, 173-183.	1.2	12
61	A Novel Synthetic Compound, Bismuth Zinc Citrate, Could Potentially Reduce Cisplatin-Induced Toxicity Without Compromising the Anticancer Effect Through Enhanced Expression of Antioxidant Protein. Translational Oncology, 2019, 12, 788-799.	1.7	12
62	In-cell NMR: an emerging approach for monitoring metal-related events in living cells. Metallomics, 2014, 6, 69-76.	1.0	11
63	Green Fluorescent Probe for Imaging His₆-Tagged Proteins Inside Living Cells. ACS Sensors, 2019, 4, 1190-1196.	4.0	11
64	Identification of a Novel Inhibitor of Catabolite Control Protein A from Staphylococcus aureus. ACS Infectious Diseases, 2020, 6, 347-354.	1.8	10
65	NMR Studies of Metalloproteins. Topics in Current Chemistry, 2011, 326, 69-98.	4.0	9
66	Bismuth Porphyrin Antagonizes Cisplatin-Induced Nephrotoxicity via Unexpected Metallothionein-Independent Mechanisms. IScience, 2020, 23, 101054.	1.9	7
67	A hydroxide lock for metallo-Î²-lactamases. Nature Chemistry, 2022, 14, 6-8.	6.6	7
68	Structure, topology and assembly of a 32-mer peptide corresponding to the loop 3 and transmembrane domain 4 of divalent metal transporter (DMT1) in membrane-mimetic environments. Journal of Inorganic Biochemistry, 2008, 102, 1257-1266.	1.5	6
69	Recognition of Proteins by Metal Chelation-Based Fluorescent Probes in Cells. Frontiers in Chemistry, 2019, 7, 560.	1.8	6
70	Inactivation of NikR from Helicobacter pylori by a bismuth drug. Journal of Inorganic Biochemistry, 2019, 196, 110685.	1.5	6
71	Multiplex metal-detection based assay (MMDA) for COVID-19 diagnosis and identification of disease severity biomarkers. Chemical Science, 2022, 13, 3216-3226.	3.7	5
72	Metal Complexes as Drugs and Therapeutic Agents. , 2021, , 680-705.		4

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73	Multiplex Singleâ€Cell Analysis of Cancer Cells Enables Unbiased Uncovering Subsets Associated with Cancer Relapse: Heterogeneity of Multidrug Resistance in Precursor Bâ€ALL. ChemMedChem, 2021, , .	1.6	2
74	Regulation of DNA-binding activity of the Staphylococcus aureus catabolite control protein A by copper (II)-mediated oxidation. Journal of Biological Chemistry, 2022, 298, 101587.	1.6	2
75	Dynamic and Temporal Transcriptomic Analysis Reveals Ferroptosis-Mediated Antileukemia Activity of S-Dimethylarsino-Glutathione: Insights into Novel Therapeutic Strategy. CCS Chemistry, 2022, 4, 963-974.	4.6	1