

Yu-Hong Cheng

List of Publications by Year in descending order

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79
papers

2,526
citations

201385

27
h-index

223531

46
g-index

100
all docs

100
docs citations

100
times ranked

3095
citing authors

#	ARTICLE	IF	CITATIONS
1	Bismuth antimicrobial drugs serve as broad-spectrum metallo- β -lactamase inhibitors. <i>Nature Communications</i> , 2018, 9, 439.	5.8	169
2	Clofazimine broadly inhibits coronaviruses including SARS-CoV-2. <i>Nature</i> , 2021, 593, 418-423.	13.7	151
3	Metallodrug ranitidine bismuth citrate suppresses SARS-CoV-2 replication and relieves virus-associated pneumonia in Syrian hamsters. <i>Nature Microbiology</i> , 2020, 5, 1439-1448.	5.9	140
4	Medicinal chemistry and biomedical applications of bismuth-based compounds and nanoparticles. <i>Chemical Society Reviews</i> , 2021, 50, 12037-12069.	18.7	92
5	Interaction of antimony tartrate with the tripeptide glutathione. <i>FEBS Journal</i> , 2000, 267, 5450-5457.	0.2	86
6	Multi-target mode of action of silver against <i>Staphylococcus aureus</i> endows it with capability to combat antibiotic resistance. <i>Nature Communications</i> , 2021, 12, 3331.	5.8	80
7	Binding of bismuth to serum proteins: implication for targets of Bi(III) in blood plasma. <i>Journal of Inorganic Biochemistry</i> , 2003, 94, 114-120.	1.5	76
8	Systems Approaches for Unveiling the Mechanism of Action of Bismuth Drugs: New Medicinal Applications beyond <i>Helicobacter Pylori</i> Infection. <i>Accounts of Chemical Research</i> , 2019, 52, 216-227.	7.6	76
9	Identification and characterization of metallodrug binding proteins by (metallo)proteomics. <i>Metallomics</i> , 2009, 1, 25-31.	1.0	74
10	Controlled synthesis of high crystalline bismuth sulfide nanorods: using bismuth citrate as a precursor. <i>Journal of Materials Chemistry</i> , 2005, 15, 4540.	6.7	72
11	Facile Microwave Synthesis of 3D Flowerlike BiOBr Nanostructures and Their Excellent Cr ^{VI} Removal Capacity. <i>European Journal of Inorganic Chemistry</i> , 2012, 2012, 2508-2513.	1.0	70
12	Resensitizing carbapenem- and colistin-resistant bacteria to antibiotics using auranofin. <i>Nature Communications</i> , 2020, 11, 5263.	5.8	70
13	Integrative approach for the analysis of the proteome-wide response to bismuth drugs in <i>Helicobacter pylori</i> . <i>Chemical Science</i> , 2017, 8, 4626-4633.	3.7	66
14	Deciphering molecular mechanism of silver by integrated omic approaches enables enhancing its antimicrobial efficacy in <i>E. coli</i> . <i>PLoS Biology</i> , 2019, 17, e3000292.	2.6	66
15	Synthetic Peptides outside the Spike Protein Heptad Repeat Regions as Potent Inhibitors of Sars-Associated Coronavirus. <i>Antiviral Therapy</i> , 2005, 10, 393-403.	0.6	63
16	Zinc excess increases cellular demand for iron and decreases tolerance to copper in <i>Escherichia coli</i> . <i>Journal of Biological Chemistry</i> , 2019, 294, 16978-16991.	1.6	58
17	UreE-UreG Complex Facilitates Nickel Transfer and Preactivates GTPase of UreG in <i>Helicobacter pylori</i> . <i>Journal of Biological Chemistry</i> , 2015, 290, 12474-12485.	1.6	56
18	Combination of gallium with acetate for combating antibiotic resistant <i>Pseudomonas aeruginosa</i> . <i>Chemical Science</i> , 2019, 10, 6099-6106.	3.7	52

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19	Predicting disease-associated mutation of metal-binding sites in proteins using a deep learning approach. <i>Nature Machine Intelligence</i> , 2019, 1, 561-567.	8.3	48
20	Metalloproteomics in conjunction with other omics for uncovering the mechanism of action of metallodrugs: Mechanism-driven new therapy development. <i>Current Opinion in Chemical Biology</i> , 2020, 55, 171-179.	2.8	43
21	Antimicrobial silver targets glyceraldehyde-3-phosphate dehydrogenase in glycolysis of <i>E. coli</i> . <i>Chemical Science</i> , 2019, 10, 7193-7199.	3.7	42
22	Enhancement of Image Contrast, Stability, and SALDI-MS Detection Sensitivity for Latent Fingerprint Analysis by Tuning the Composition of Silver-Gold Nanoalloys. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 29668-29675.	4.0	40
23	Cytotoxicity of arsenic trioxide in single leukemia cells by time-resolved ICP-MS together with lanthanide tags. <i>Chemical Communications</i> , 2017, 53, 2970-2973.	2.2	37
24	Metallomics: An integrated science for metals in biology and medicine. <i>Annual Reports on the Progress of Chemistry Section A</i> , 2010, 106, 20.	0.8	34
25	Metallochaperone UreG serves as a new target for design of urease inhibitor: A novel strategy for development of antimicrobials. <i>PLoS Biology</i> , 2018, 16, e2003887.	2.6	34
26	Metalloproteomics for Unveiling the Mechanism of Action of Metallodrugs. <i>Inorganic Chemistry</i> , 2019, 58, 13673-13685.	1.9	32
27	Bio-coordination of bismuth in <i>Helicobacter pylori</i> revealed by immobilized metal affinity chromatography. <i>Chemical Communications</i> , 2015, 51, 16479-16482.	2.2	31
28	Hyperthermia Selectively Destabilizes Oncogenic Fusion Proteins. <i>Blood Cancer Discovery</i> , 2021, 2, 388-401.	2.6	26
29	Cell Cycle-Dependent Uptake and Cytotoxicity of Arsenic-Based Drugs in Single Leukemia Cells. <i>Analytical Chemistry</i> , 2018, 90, 10465-10471.	3.2	25
30	Bismuth drugs tackle <i>Porphyromonas gingivalis</i> and attune cytokine response in human cells. <i>Metallomics</i> , 2019, 11, 1207-1218.	1.0	22
31	Arsenic trioxide targets Hsp60, triggering degradation of p53 and survivin. <i>Chemical Science</i> , 2021, 12, 10893-10900.	3.7	22
32	Integration of fluorescence imaging with proteomics enables visualization and identification of metallo-proteomes in living cells. <i>Metallomics</i> , 2017, 9, 38-47.	1.0	21
33	Plasmonic metal nanoparticles as efficient mass tags for ion signal amplification and ultrasensitive detection of protein markers. <i>Analytica Chimica Acta</i> , 2019, 1055, 1-6.	2.6	21
34	Bismuth in medicine. <i>Metal Ions in Biological Systems</i> , 2004, 41, 333-78.	0.4	21
35	Folic acid conjugated mPEG-PEI600 as an efficient non-viral vector for targeted nucleic acid delivery. <i>International Journal of Pharmaceutics</i> , 2012, 426, 182-192.	2.6	20
36	Bismuth—The Magic Element. <i>Inorganic Chemistry</i> , 2020, 59, 3341-3343.	1.9	20

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37	Orally administered bismuth drug together with <i>N</i> -acetyl cysteine as a broad-spectrum anti-coronavirus cocktail therapy. <i>Chemical Science</i> , 2022, 13, 2238-2248.	3.7	19
38	Metallomics: An integrated biometal science. <i>Science in China Series B: Chemistry</i> , 2009, 52, 2055-2070.	0.8	18
39	Structural Insight into the Substrate Gating Mechanism by <i>Staphylococcus aureus</i> Aldehyde Dehydrogenase. <i>CCS Chemistry</i> , 2020, 2, 946-954.	4.6	18
40	Activation of carboplatin and nedaplatin by the N-terminus of human copper transporter 1 (hCTR1). <i>Chemical Science</i> , 2012, 3, 3206.	3.7	17
41	Functional disruption of peroxiredoxin by bismuth antiulcer drugs attenuates <i>Helicobacter pylori</i> survival. <i>Journal of Biological Inorganic Chemistry</i> , 2017, 22, 673-683.	1.1	17
42	Plasmonic gold nanoparticles as multifaceted probe for tissue imaging. <i>Chemical Communications</i> , 2019, 55, 2761-2764.	2.2	17
43	<i>S</i> -Dimethylarsino-glutathione (darinaparsin [®]) targets histone H3.3, leading to TRAIL-induced apoptosis in leukemia cells. <i>Chemical Communications</i> , 2019, 55, 13120-13123.	2.2	17
44	Metallomics in environmental and health related research: Current status and perspectives. <i>Science Bulletin</i> , 2013, 58, 169-176.	1.7	16
45	The unique trimeric assembly of the virulence factor HtrA from <i>Helicobacter pylori</i> occurs via N-terminal domain swapping. <i>Journal of Biological Chemistry</i> , 2019, 294, 7990-8000.	1.6	16
46	Metalloproteomics for Biomedical Research: Methodology and Applications. <i>Annual Review of Biochemistry</i> , 2022, 91, 449-473.	5.0	16
47	Re-sensitization of <i>mcr</i> carrying multidrug resistant bacteria to colistin by silver. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2119417119.	3.3	15
48	Silver-gold alloy nanoparticles as tunable substrates for systematic control of ion-desorption efficiency and heat transfer in surface-assisted laser desorption/ionization. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 20795-20807.	1.3	14
49	The Hidden Heroes: Holes in Charge-Driven Desorption Mass Spectrometry. <i>Analytical Chemistry</i> , 2020, 92, 5645-5649.	3.2	14
50	Metal-based strategies for the fight against COVID-19. <i>Chemical Communications</i> , 2022, 58, 7466-7482.	2.2	14
51	Metalloproteomic Approaches for Matching Metals to Proteins: The Power of Inductively Coupled Plasma Mass Spectrometry (ICP-MS). <i>Chemistry Letters</i> , 2020, 49, 697-704.	0.7	13
52	A Novel Synthetic Compound, Bismuth Zinc Citrate, Could Potentially Reduce Cisplatin-Induced Toxicity Without Compromising the Anticancer Effect Through Enhanced Expression of Antioxidant Protein. <i>Translational Oncology</i> , 2019, 12, 788-799.	1.7	12
53	The role of citrate, lactate and transferrin in determining titanium release from surgical devices into human serum. <i>Journal of Biological Inorganic Chemistry</i> , 2018, 23, 471-480.	1.1	11
54	Green Fluorescent Probe for Imaging His ₆ -Tagged Proteins Inside Living Cells. <i>ACS Sensors</i> , 2019, 4, 1190-1196.	4.0	11

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55	Surface optimization of gold nanoparticle mass tags for the sensitive detection of protein biomarkers via immuno-capture LI-MS. <i>Analyst, The</i> , 2020, 145, 6237-6242.	1.7	11
56	MetaMarker: a pipeline for <i>de novo</i> discovery of novel metagenomic biomarkers. <i>Bioinformatics</i> , 2019, 35, 3812-3814.	1.8	10
57	Polymeric architectures of bismuth citrate based on dimeric building blocks. <i>Science China Chemistry</i> , 2010, 53, 2152-2158.	4.2	9
58	Loss of APD1 in Yeast Confers Hydroxyurea Sensitivity Suppressed by Yap1p Transcription Factor. <i>Scientific Reports</i> , 2015, 5, 7897.	1.6	9
59	Selective interaction of Hpn-like protein with nickel, zinc and bismuth in vitro and in cells by FRET. <i>Journal of Inorganic Biochemistry</i> , 2015, 142, 8-14.	1.5	7
60	Bismuth Porphyrin Antagonizes Cisplatin-Induced Nephrotoxicity via Unexpected Metallothionein-Independent Mechanisms. <i>IScience</i> , 2020, 23, 101054.	1.9	7
61	Harvesting More Energetic Photoexcited Electrons from Closely Packed Gold Nanoparticles. <i>Journal of the American Society for Mass Spectrometry</i> , 2021, 32, 815-824.	1.2	7
62	Eradication of <i>Porphyromonas gingivalis</i> Persists Through Colloidal Bismuth Subcitrate Synergistically Combined With Metronidazole. <i>Frontiers in Microbiology</i> , 2021, 12, 748121.	1.5	7
63	A hydroxide lock for metallo- β -lactamases. <i>Nature Chemistry</i> , 2022, 14, 6-8.	6.6	7
64	Recognition of Proteins by Metal Chelation-Based Fluorescent Probes in Cells. <i>Frontiers in Chemistry</i> , 2019, 7, 560.	1.8	6
65	Dopamine-assisted immobilization of peptide arginine-glycine-aspartic acid to enhance the cellular performances of MC3T3-E1 cells of carbon-carbon composites. <i>Journal of Biomaterials Applications</i> , 2019, 34, 284-296.	1.2	6
66	Inactivation of NikR from <i>Helicobacter pylori</i> by a bismuth drug. <i>Journal of Inorganic Biochemistry</i> , 2019, 196, 110685.	1.5	6
67	51Sb Antimony in Medicine. , 2005, , 441-461.		5
68	Multiplex metal-detection based assay (MMDA) for COVID-19 diagnosis and identification of disease severity biomarkers. <i>Chemical Science</i> , 2022, 13, 3216-3226.	3.7	5
69	Chemical Printing of Biological Tissue by Gold Nanoparticle-Assisted Laser Ablation. <i>ACS Omega</i> , 2017, 2, 6031-6038.	1.6	3
70	Sensitive Detection of Separated Charges in Nanohybrids by Laser Excitation Mass Spectrometry with Tetrabutylammonium Cationic Probe. <i>Analytical Chemistry</i> , 2020, 92, 10262-10267.	3.2	3
71	Novel Neural Network Approach to Predict Drug-Target Interactions Based on Drug Side Effects and Genome-Wide Association Studies. <i>Human Heredity</i> , 2018, 83, 79-91.	0.4	2
72	Multiplex Single-Cell Analysis of Cancer Cells Enables Unbiased Uncovering Subsets Associated with Cancer Relapse: Heterogeneity of Multidrug Resistance in Precursor B-ALL. <i>ChemMedChem</i> , 2021, , .	1.6	2

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73	Combining MALDI-MS with machine learning for metabolomic characterization of lung cancer patient sera. <i>Analytical Methods</i> , 2022, 14, 499-507.	1.3	2
74	Regulation of DNA-binding activity of the <i>Staphylococcus aureus</i> catabolite control protein A by copper (II)-mediated oxidation. <i>Journal of Biological Chemistry</i> , 2022, 298, 101587.	1.6	2
75	Bismuth Complexes Inhibit the SARS Coronavirus. <i>Angewandte Chemie</i> , 2007, 119, 6584-6588.	1.6	1
76	Dynamic and Temporal Transcriptomic Analysis Reveals Ferroptosis-Mediated Antileukemia Activity of S-Dimethylarsino-Glutathione: Insights into Novel Therapeutic Strategy. <i>CCS Chemistry</i> , 2022, 4, 963-974.	4.6	1
77	Dynamic and Kinetic Aspects of Metallodrugs by NMR. , 2005, , 163-217.		0
78	Urease inactivation by an unusual GroES chaperonin. <i>Science China Chemistry</i> , 2014, 57, 842-848.	4.2	0
79	A. Sigel, E. Freisinger & R. K. O. Sigel (Eds.), M. E. Sosa Torres & P. M. H. Kroneck (volume Eds.): Transition Metals and Sulfur – A Strong Relationship for Life. <i>Zeitschrift Fur Naturforschung - Section C Journal of Biosciences</i> , 2021, 76, 257-259.	0.6	0