

# 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	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
2	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
3	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
4	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
5	A hydroxide lock for metallo- $\beta$ -lactamases. <i>Nature Chemistry</i> , 2022, 14, 6-8.	6.6	7
6	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
7	Metalloproteomics for Biomedical Research: Methodology and Applications. <i>Annual Review of Biochemistry</i> , 2022, 91, 449-473.	5.0	16
8	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
9	Metal-based strategies for the fight against COVID-19. <i>Chemical Communications</i> , 2022, 58, 7466-7482.	2.2	14
10	Arsenic trioxide targets Hsp60, triggering degradation of p53 and survivin. <i>Chemical Science</i> , 2021, 12, 10893-10900.	3.7	22
11	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
12	Clofazimine broadly inhibits coronaviruses including SARS-CoV-2. <i>Nature</i> , 2021, 593, 418-423.	13.7	151
13	Hyperthermia Selectively Destabilizes Oncogenic Fusion Proteins. <i>Blood Cancer Discovery</i> , 2021, 2, 388-401.	2.6	26
14	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
15	Medicinal chemistry and biomedical applications of bismuth-based compounds and nanoparticles. <i>Chemical Society Reviews</i> , 2021, 50, 12037-12069.	18.7	92
16	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
17	Multiplex Single-Cell Analysis of Cancer Cells Enables Unbiased Uncovering Subsets Associated with Cancer Relapse: Heterogeneity of Multidrug Resistance in Precursor $\beta$ -CELL. <i>ChemMedChem</i> , 2021, , .	1.6	2
18	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

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19	Metallo drug 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
20	Resensitizing carbapenem- and colistin-resistant bacteria to antibiotics using auranofin. <i>Nature Communications</i> , 2020, 11, 5263.	5.8	70
21	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
22	Surface optimization of gold nanoparticle mass tags for the sensitive detection of protein biomarkers via immuno-capture LI-MS. <i>Analyst</i> , 2020, 145, 6237-6242.	1.7	11
23	Bismuth – The Magic Element. <i>Inorganic Chemistry</i> , 2020, 59, 3341-3343.	1.9	20
24	The Hidden Heroes: Holes in Charge-Driven Desorption Mass Spectrometry. <i>Analytical Chemistry</i> , 2020, 92, 5645-5649.	3.2	14
25	Metalloproteomics in conjunction with other omics for uncovering the mechanism of action of metallo drugs: Mechanism-driven new therapy development. <i>Current Opinion in Chemical Biology</i> , 2020, 55, 171-179.	2.8	43
26	Bismuth Porphyrin Antagonizes Cisplatin-Induced Nephrotoxicity via Unexpected Metallothionein-Independent Mechanisms. <i>IScience</i> , 2020, 23, 101054.	1.9	7
27	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
28	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
29	Recognition of Proteins by Metal Chelation-Based Fluorescent Probes in Cells. <i>Frontiers in Chemistry</i> , 2019, 7, 560.	1.8	6
30	Metalloproteomics for Unveiling the Mechanism of Action of Metallo drugs. <i>Inorganic Chemistry</i> , 2019, 58, 13673-13685.	1.9	32
31	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
32	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
33	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
34	Bismuth drugs tackle <i>Porphyromonas gingivalis</i> and attune cytokine response in human cells. <i>Metallomics</i> , 2019, 11, 1207-1218.	1.0	22
35	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
36	Green Fluorescent Probe for Imaging His <sub>6</sub> -Tagged Proteins Inside Living Cells. <i>ACS Sensors</i> , 2019, 4, 1190-1196.	4.0	11

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37	Combination of gallium( <i>III</i> ) with acetate for combating antibiotic resistant <i>Pseudomonas aeruginosa</i> . <i>Chemical Science</i> , 2019, 10, 6099-6106.	3.7	52
38	MetaMarker: a pipeline for <i>de novo</i> discovery of novel metagenomic biomarkers. <i>Bioinformatics</i> , 2019, 35, 3812-3814.	1.8	10
39	Inactivation of NikR from <i>Helicobacter pylori</i> by a bismuth drug. <i>Journal of Inorganic Biochemistry</i> , 2019, 196, 110685.	1.5	6
40	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
41	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
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 <sup>®</sup> ) targets histone H3.3, leading to TRAIL-induced apoptosis in leukemia cells. <i>Chemical Communications</i> , 2019, 55, 13120-13123.	2.2	17
44	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
45	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
46	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
47	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
48	Bismuth antimicrobial drugs serve as broad-spectrum metallo- $\beta$ -lactamase inhibitors. <i>Nature Communications</i> , 2018, 9, 439.	5.8	169
49	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
50	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
51	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
52	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
53	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
54	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

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55	Chemical Printing of Biological Tissue by Gold Nanoparticle-Assisted Laser Ablation. ACS Omega, 2017, 2, 6031-6038.	1.6	3
56	Silver-gold alloy nanoparticles as tunable substrates for systematic control of ion-desorption efficiency and heat transfer in surface-assisted laser desorption/ionization. Physical Chemistry Chemical Physics, 2017, 19, 20795-20807.	1.3	14
57	Integration of fluorescence imaging with proteomics enables visualization and identification of metallo-proteomes in living cells. Metallomics, 2017, 9, 38-47.	1.0	21
58	Enhancement of Image Contrast, Stability, and SALDI-MS Detection Sensitivity for Latent Fingerprint Analysis by Tuning the Composition of Silver-Gold Nanoalloys. ACS Applied Materials & Interfaces, 2016, 8, 29668-29675.	4.0	40
59	Loss of APD1 in Yeast Confers Hydroxyurea Sensitivity Suppressed by Yap1p Transcription Factor. Scientific Reports, 2015, 5, 7897.	1.6	9
60	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
61	Bio-coordination of bismuth in Helicobacter pylori revealed by immobilized metal affinity chromatography. Chemical Communications, 2015, 51, 16479-16482.	2.2	31
62	Selective interaction of Hpn-like protein with nickel, zinc and bismuth in vitro and in cells by FRET. Journal of Inorganic Biochemistry, 2015, 142, 8-14.	1.5	7
63	Urease inactivation by an unusual GroES chaperonin. Science China Chemistry, 2014, 57, 842-848.	4.2	0
64	Metallomics in environmental and health related research: Current status and perspectives. Science Bulletin, 2013, 58, 169-176.	1.7	16
65	Activation of carboplatin and nedaplatin by the N-terminus of human copper transporter 1 (hCTR1). Chemical Science, 2012, 3, 3206.	3.7	17
66	Facile Microwave Synthesis of 3D Flowerlike BiOBr Nanostructures and Their Excellent Cr(VI) Removal Capacity. European Journal of Inorganic Chemistry, 2012, 2012, 2508-2513.	1.0	70
67	Folic acid conjugated mPEG-PEI600 as an efficient non-viral vector for targeted nucleic acid delivery. International Journal of Pharmaceutics, 2012, 426, 182-192.	2.6	20
68	Polymeric architectures of bismuth citrate based on dimeric building blocks. Science China Chemistry, 2010, 53, 2152-2158.	4.2	9
69	Metallomics: An integrated science for metals in biology and medicine. Annual Reports on the Progress of Chemistry Section A, 2010, 106, 20.	0.8	34
70	Metallomics: An integrated biometal science. Science in China Series B: Chemistry, 2009, 52, 2055-2070.	0.8	18
71	Identification and characterization of metallodrug binding proteins by (metallo)proteomics. Metallomics, 2009, 1, 25-31.	1.0	74
72	Bismuth Complexes Inhibit the SARS Coronavirus. Angewandte Chemie, 2007, 119, 6584-6588.	1.6	1

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73	51Sb Antimony in Medicine. , 2005, , 441-461.		5
74	Controlled synthesis of high crystalline bismuth sulfide nanorods: using bismuth citrate as a precursor. Journal of Materials Chemistry, 2005, 15, 4540.	6.7	72
75	Dynamic and Kinetic Aspects of Metallo drugs by NMR. , 2005, , 163-217.		0
76	Synthetic Peptides outside the Spike Protein Heptad Repeat Regions as Potent Inhibitors of Sars-Associated Coronavirus. Antiviral Therapy, 2005, 10, 393-403.	0.6	63
77	Bismuth in medicine. Metal Ions in Biological Systems, 2004, 41, 333-78.	0.4	21
78	Binding of bismuth to serum proteins: implication for targets of Bi(III) in blood plasma. Journal of Inorganic Biochemistry, 2003, 94, 114-120.	1.5	76
79	Interaction of antimony tartrate with the tripeptide glutathione. FEBS Journal, 2000, 267, 5450-5457.	0.2	86