Xudong Huang

List of Publications by Year
in descending order

120 papers	12,894 citations	50276 46 h-index	24982 109 g-index
132 all docs	132 docs citations	132 times ranked	11456 citing authors

#	Article	IF	Citations
1	Treatment with a Copper-Zinc Chelator Markedly and Rapidly Inhibits β-Amyloid Accumulation in Alzheimer's Disease Transgenic Mice. Neuron, 2001, 30, 665-676.	8.1	1,419
2	The Aβ Peptide of Alzheimer's Disease Directly Produces Hydrogen Peroxide through Metal Ion Reduction. Biochemistry, 1999, 38, 7609-7616.	2.5	1,098
3	Dramatic Aggregation of Alzheimer Aβ by Cu(II) Is Induced by Conditions Representing Physiological Acidosis. Journal of Biological Chemistry, 1998, 273, 12817-12826.	3.4	935
4	Cu(II) Potentiation of Alzheimer Aβ Neurotoxicity. Journal of Biological Chemistry, 1999, 274, 37111-37116.	3.4	688
5	Characterization of Copper Interactions with Alzheimer Amyloid β Peptides. Journal of Neurochemistry, 2008, 75, 1219-1233.	3.9	566
6	Metalloenzyme-like Activity of Alzheimer's Disease β-Amyloid. Journal of Biological Chemistry, 2002, 277, 40302-40308.	3.4	536
7	An Iron-responsive Element Type II in the 5′-Untranslated Region of the Alzheimer's Amyloid Precursor Protein Transcript. Journal of Biological Chemistry, 2002, 277, 45518-45528.	3.4	474
8	Aqueous Dissolution of Alzheimer's Disease Aβ Amyloid Deposits by Biometal Depletion. Journal of Biological Chemistry, 1999, 274, 23223-23228.	3.4	454
9	Redox‐Active Metals, Oxidative Stress, and Alzheimer's Disease Pathology. Annals of the New York Academy of Sciences, 2004, 1012, 153-163.	3.8	381
10	Evidence that the β-Amyloid Plaques of Alzheimer's Disease Represent the Redox-silencing and Entombment of Aβ by Zinc. Journal of Biological Chemistry, 2000, 275, 19439-19442.	3.4	366
11	Copper Mediates Dityrosine Cross-Linking of Alzheimer's Amyloid-β. Biochemistry, 2004, 43, 560-568.	2.5	362
12	Cytosolic β-amyloid deposition and supranuclear cataracts in lenses from people with Alzheimer's disease. Lancet, The, 2003, 361, 1258-1265.	13.7	323
13	Zinc-induced Alzheimer's Aβ1–40 Aggregation Is Mediated by Conformational Factors. Journal of Biological Chemistry, 1997, 272, 26464-26470.	3.4	287
14	N-Methyl D-Aspartate (NMDA) Receptor Antagonists and Memantine Treatment for Alzheimer's Disease, Vascular Dementia and Parkinson's Disease. Current Alzheimer Research, 2012, 9, 746-758.	1.4	277
15	Pancreatic cancer risk variant in LINC00673 creates a miR-1231 binding site and interferes with PTPN11 degradation. Nature Genetics, 2016, 48, 747-757.	21.4	237
16	Emissions of trace elements from motor vehicles: Potential marker elements and source composition profile. Atmospheric Environment, 1994, 28, 1385-1391.	4.1	228
17	Homocysteine potentiates copper‐and amyloid beta peptide‐mediated toxicity in primary neuronal cultures: possible risk factors in the Alzheimer's‐type neurodegenerative pathways. Journal of Neurochemistry, 2001, 76, 1509-1520.	3.9	228
18	Trace metal contamination initiates the apparent auto-aggregation, amyloidosis, and oligomerization of Alzheimer?s A? peptides. Journal of Biological Inorganic Chemistry, 2004, 9, 954-960.	2.6	218

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19	Metal Chelation as a Potential Therapy for Alzheimer's Disease. Annals of the New York Academy of Sciences, 2000, 920, 292-304.	3.8	178
20	Selective Translational Control of the Alzheimer Amyloid Precursor Protein Transcript by Iron Regulatory Protein-1. Journal of Biological Chemistry, 2010, 285, 31217-31232.	3.4	144
21	PIWI-interacting RNA-36712 restrains breast cancer progression and chemoresistance by interaction with SEPW1 pseudogene SEPW1P RNA. Molecular Cancer, 2019, 18, 9.	19.2	139
22	Preliminary studies of a novel bifunctional metal chelator targeting Alzheimer's amyloidogenesis. Experimental Gerontology, 2004, 39, 1641-1649.	2.8	131
23	Differential Effects of Apolipoprotein E Isoforms on Metal-Induced Aggregation of Aβ Using Physiological Concentrationsâ€. Biochemistry, 1999, 38, 4595-4603.	2.5	125
24	Iron and the translation of the amyloid precursor protein (APP) and ferritin mRNAs: riboregulation against neural oxidative damage in Alzheimer's disease. Biochemical Society Transactions, 2008, 36, 1282-1287.	3.4	123
25	Machine Learning-based Virtual Screening and Its Applications to Alzheimerâ€™s Drug Discovery: A Review. Current Pharmaceutical Design, 2018, 24, 3347-3358.	1.9	123
26	Metal exposure and Alzheimerâ€™s pathogenesis. Journal of Structural Biology, 2006, 155, 45-51.	2.8	121
27	PIWI-interacting RNA-54265 is oncogenic and a potential therapeutic target in colorectal adenocarcinoma. Theranostics, 2018, 8, 5213-5230.	10.0	115
28	Insulin-dependent Interactions of Proteins with GLUT4 Revealed through Stable Isotope Labeling by Amino Acids in Cell Culture (SILAC)*. Journal of Proteome Research, 2006, 5, 64-75.	3.7	106
29	Alzheimer's Disease, β-Amyloid Protein and Zinc. Journal of Nutrition, 2000, 130, 1488S-1492S.	2.9	102
30	Deep learning and virtual drug screening. Future Medicinal Chemistry, 2018, 10, 2557-2567.	2.3	93
31	A review of independent component analysis application to microarray gene expression data. BioTechniques, 2008, 45, 501-520.	1.8	92
32	Amyloid precursor protein and alpha synuclein translation, implications for iron and inflammation in neurodegenerative diseases. Biochimica Et Biophysica Acta - General Subjects, 2009, 1790, 615-628.	2.4	87
33	Gene selection and classification for cancer microarray data based on machine learning and similarity measures. BMC Genomics, 2011, 12, S1.	2.8	81
34	Physiological and Pathological Role of Alpha-synuclein in Parkinsonâ€™s Disease Through Iron Mediated Oxidative Stress; The Role of a Putative Iron-responsive Element. International Journal of Molecular Sciences, 2009, 10, 1226-1260.	4.1	75
35	Independent component analysis of Alzheimer's DNA microarray gene expression data. Molecular Neurodegeneration, 2009, 4, 5.	10.8	72
36	Roles of β-Endorphin in Stress, Behavior, Neuroinflammation, and Brain Energy Metabolism. International Journal of Molecular Sciences, 2021, 22, 338.	4.1	72

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37	S-Adenosyl Methionine and Transmethylation Pathways in Neuropsychiatric Diseases Throughout Life. Neurotherapeutics, 2018, 15, 156-175.	4.4	68
38	Independent Component Analysis-Based Classification of Alzheimer's Disease MRI Data. Journal of Alzheimer's Disease, 2011, 24, 775-783.	2.6	67
39	A direct synthesis of Î²-carbolines via a three-step one-pot domino approach with a bifunctional Pd/C/K-10 catalyst. Tetrahedron Letters, 2009, 50, 1791-1794.	1.4	64
40	NSUN2-mediated RNA 5-methylcytosine promotes esophageal squamous cell carcinoma progression via LIN28B-dependent GRB2 mRNA stabilization. Oncogene, 2021, 40, 5814-5828.	5.9	59
41	Alzheimerâ€™s disease drug discovery targeted to the APP mRNA 5â€²Untranslated region. Journal of Molecular Neuroscience, 2002, 19, 77-82.	2.3	58
42	Serum piRNA-54265 is a New Biomarker for early detection and clinical surveillance of Human Colorectal Cancer. Theranostics, 2020, 10, 8468-8478.	10.0	58
43	The alpha-synuclein 5â€²untranslated region targeted translation blockers: anti-alpha synuclein efficacy of cardiac glycosides and Posiphen. Journal of Neural Transmission, 2011, 118, 493-507.	2.8	56
44	Manganese causes neurotoxic iron accumulation via translational repression of amyloid precursor protein and Hâ€Ferritin. Journal of Neurochemistry, 2018, 147, 831-848.	3.9	52
45	Novel drug targets based on metallobiology of Alzheimer's disease. Expert Opinion on Therapeutic Targets, 2010, 14, 1177-1197.	3.4	49
46	RNA Therapeutics Directed to the Non Coding Regions of APP mRNA, In Vivo Anti-Amyloid Efficacy of Paroxetine, Erythromycin, and N-acetyl cysteine. Current Alzheimer Research, 2006, 3, 221-227.	1.4	48
47	Network Medicine for Alzheimerâ€™s Disease and Traditional Chinese Medicine. Molecules, 2018, 23, 1143.	3.8	48
48	Effects of Baicalein on Cortical Proinflammatory Cytokines and the Intestinal Microbiome in Senescence Accelerated Mouse Prone 8. ACS Chemical Neuroscience, 2018, 9, 1714-1724.	3.5	47
49	<i>N6</i>-methyladenosineâ€"Mediated Upregulation of WTAPP1 Promotes WTAP Translation and Wnt Signaling to Facilitate Pancreatic Cancer Progression. Cancer Research, 2021, 81, 5268-5283.	0.9	46
50	Feature Selection and Classification of MAQC-II Breast Cancer and Multiple Myeloma Microarray Gene Expression Data. PLoS ONE, 2009, 4, e8250.	2.5	45
51	Peroxidase Activity of Cyclooxygenase-2 (COX-2) Cross-links Î²-Amyloid (AÎ²) and Generates AÎ²-COX-2 Hetero-oligomers That Are Increased in Alzheimer's Disease. Journal of Biological Chemistry, 2004, 279, 14673-14678.	3.4	44
52	Novel 5â€² Untranslated Region Directed Blockers of Iron-Regulatory Protein-1 Dependent Amyloid Precursor Protein Translation: Implications for Down Syndrome and Alzheimer's Disease. PLoS ONE, 2013, 8, e65978.	2.5	44
53	High content image analysis for human H4 neuroglioma cells exposed to CuO nanoparticles. BMC Biotechnology, 2007, 7, 66.	3.3	43
54	Iron inhibits neurotoxicity induced by trace copper and biological reductants. Journal of Biological Inorganic Chemistry, 2004, 9, 269-280.	2.6	42

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55	Solute Carrier Family 39 Member 6 Gene Promotes Aggressiveness of Esophageal Carcinoma Cells by Increasing Intracellular Levels of Zinc, Activating Phosphatidylinositol 3-Kinase Signaling, and Up-regulating Genes That RegulateÂMetastasis. Gastroenterology, 2017, 152, 1985-1997.e12.	1.3	40
56	A Transgenic Mouse Model to Study Glucose Transporter 4myc Regulation in Skeletal Muscle. Endocrinology, 2009, 150, 1935-1940.	2.8	39
57	Pilot Study of the Reducing Effect on Amyloidosis In Vivo by Three FDA Pre-Approved Drugs Via the Alzheimers APP 5Untranslated Region. Current Alzheimer Research, 2005, 2, 249-254.	1.4	38
58	Inflammatory cytokineâ€"regulated tRNA-derived fragment tRF-21 suppresses pancreatic ductal adenocarcinoma progression. Journal of Clinical Investigation, 2021, 131, .	8.2	36
59	LINC00842 inactivates transcription co-regulator PGC-1Î± to promote pancreatic cancer malignancy through metabolic remodelling. Nature Communications, 2021, 12, 3830.	12.8	34
60	Differential cytotoxicity of metal oxide nanoparticles. Journal of Experimental Nanoscience, 2008, 3, 321-328.	2.4	29
61	Petrogenetic differences between the Middle-Late Jurassic Cu-Pb-Zn-bearing and W-bearing granites in the Nanling Range, South China: A case study of the Tongshanling and Weijia deposits in southern Hunan Province. Science China Earth Sciences, 2017, 60, 1220-1236.	5.2	27
62	Designing Socially Assistive Robots for Alzheimerâ€™s Disease and Related Dementia Patients and Their Caregivers: Where We Are and Where We Are Headed. Healthcare (Switzerland), 2020, 8, 73.	2.0	27
63	Current Cognition Tests, Potential Virtual Reality Applications, and Serious Games in Cognitive Assessment and Non-Pharmacological Therapy for Neurocognitive Disorders. Journal of Clinical Medicine, 2020, 9, 3287.	2.4	26
64	Debra-Mediated Ci Degradation Controls Tissue Homeostasis in Drosophila Adult Midgut. Stem Cell Reports, 2014, 2, 135-144.	4.8	25
65	Flavanols, mild cognitive impairment, and Alzheimer's dementia. International Journal of Clinical and Experimental Medicine, 2008, 1, 181-91.	1.3	25
66	BRCA1-Associated Protein Increases Invasiveness of Esophageal Squamous Cell Carcinoma. Gastroenterology, 2017, 153, 1304-1319.e5.	1.3	23
67	Modulation of SPARC/Hevin Proteins in Alzheimerâ€™s Disease Brain Injury. Journal of Alzheimer's Disease, 2019, 68, 695-710.	2.6	23
68	Penehyclidine Hydrochloride Pretreatment Ameliorates Rhabdomyolysis-Induced AKI by Activating the Nrf2/HO-1 Pathway and Allevi-ating Endoplasmic Reticulum Stress in Rats. PLoS ONE, 2016, 11, e0151158.	2.5	22
69	CFD Investigation on Stall Mechanisms and Casing Treatment of a Transonic Compressor. , 2006, , .		21
70	CFD Investigation on the Circumferential Grooves Casing Treatment of Transonic Compressor. , 2008, , .		20
71	Microwave-Assisted Tandem Processes for the Synthesis of N-Heterocycles. Australian Journal of Chemistry, 2009, 62, 208.	0.9	19
72	Functional role of BTB and CNC Homology 1 gene in pancreatic cancer and its association with survival in patients treated with gemcitabine. Theranostics, 2018, 8, 3366-3379.	10.0	19

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73	Age-adjusted nonparametric detection of differential DNA methylation with case--control designs. BMC Bioinformatics, 2013, 14, 86.	2.6	18
74	General Procedure for Riemann Solver to Eliminate Carbuncle and Shock Instability. AIAA Journal, 2017, 55, 2002-2015.	2.6	18
75	ATXN2-mediated translation of TNFR1 promotes esophageal squamous cell carcinoma via m6A-dependent manner. Molecular Therapy, 2022, 30, 1089-1103.	8.2	17
76	An analysis of the Circumferential Grooves Casing Treatment for transonic compressor flow. Science China: Physics, Mechanics and Astronomy, 2010, 53, 353-359.	5.1	16
77	A Special Local Clustering Algorithm for Identifying the Genes Associated With Alzheimer's Disease. IEEE Transactions on Nanobioscience, 2010, 9, 44-50.	3.3	16
78	The Sterile 20-Like Kinase Tao Controls Tissue Homeostasis by Regulating the Hippo Pathway in Drosophila Adult Midgut. Journal of Genetics and Genomics, 2014, 41, 429-438.	3.9	16
79	Genetic variant repressing ADH1A expression confers susceptibility to esophageal squamous-cell carcinoma. Cancer Letters, 2018, 421, 43-50.	7.2	16
80	Overcoming Alzheimer's Disease Stigma by Leveraging Artificial Intelligence and Blockchain Technologies. Brain Sciences, 2020, 10, 183.	2.3	16
81	Black–Scholes' model and Bollinger bands. Physica A: Statistical Mechanics and Its Applications, 2006, 371, 565-571.	2.6	15
82	Sequence-Specific Biosensors Report Drug-Induced Changes in Epigenetic Silencing in Living Cells. DNA and Cell Biology, 2012, 31, S-2-S-10.	1.9	15
83	Identification and Analysis of Alzheimer's Candidate Genes by an Amplitude Deviation Algorithm. , 2019, 09, .		15
84	Exposure of CuO Nanoparticles Contributes to Cellular Apoptosis, Redox Stress, and Alzheimer's Aβ Amyloidosis. International Journal of Environmental Research and Public Health, 2020, 17, 1005.	2.6	15
85	Neuroinflammatory Responses in the Alzheimer's Disease Brain Promote the Oxidative Post-translational Modification of Amyloid Deposits. , 0, , 341-361.		14
86	Integrative analysis of gene expression profiles reveals specific signaling pathways associated with pancreatic duct adenocarcinoma. Cancer Communications, 2018, 38, 1-12.	9.2	14
87	Detecting differentially methylated loci for Illumina Array methylation data based on human ovarian cancer data. BMC Medical Genomics, 2013, 6, S9.	1.5	13
88	Exposure to CuO Nanoparticles Mediates NFκB Activation and Enhances Amyloid Precursor Protein Expression. Biomedicines, 2020, 8, 45.	3.2	12
89	Network Medicine Approach for Analysis of Alzheimer's Disease Gene Expression Data. International Journal of Molecular Sciences, 2020, 21, 332.	4.1	12
90	Alzheimer's Disease and Its Potential Alternative Therapeutics. , 2019, 9, .		12

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91	Supervised learning-based tagSNP selection for genome-wide disease classifications. BMC Genomics, 2008, 9, S6.	2.8	11
92	Genome-wide identification and characterization of circular RNA m6A modification in pancreatic cancer. Genome Medicine, 2021, 13, 183.	8.2	10
93	Could AÃŸ and AÃŸPP be Antioxidants?. Journal of Alzheimer's Disease, 2000, 2, 83-84.	2.6	9
94	The role of complement activation in rhabdomyolysis-induced acute kidney injury. PLoS ONE, 2018, 13, e0192361.	2.5	9
95	Mechanism Study of Shock Instability in Riemann-Solver-Based Shock-Capturing Scheme. AIAA Journal, 2018, 56, 3636-3651.	2.6	8
96	Hydrothermal syntheses and characterizations of two eight-connected networks in a mixed ligand system. Journal of Molecular Structure, 2009, 918, 183-187.	3.6	7
97	A gene selection method for GeneChip array data with small sample sizes. BMC Genomics, 2011, 12, S7.	2.8	6
98	Identification of Putative Molecular Imaging Probes for BACE-1 by Accounting for Protein Flexibility in Virtual Screening. Journal of Alzheimer's Disease, 2012, 29, 351-359.	2.6	6
99	Assessment of gene order computing methods for Alzheimer's disease. BMC Medical Genomics, 2013, 6, S8.	1.5	6
100	Identifying Differentially Expressed Genes based on probe level data for GeneChip arrays. International Journal of Computational Biology and Drug Design, 2010, 3, 237.	0.3	5
101	Vanadium, aluminum, magnesium and manganese are not elevated in hair samples in amyotrophic lateral sclerosis. Amyotrophic Lateral Sclerosis and Other Motor Neuron Disorders, 2010, 11, 492-493.	2.1	5
102	A Preliminary Study of Cu Exposure Effects upon Alzheimer's Amyloid Pathology. Biomolecules, 2020, 10, 408.	4.0	5
103	A Novel Dual Fluorochrome Near-Infrared Imaging Probe for Potential Alzheimer's Enzyme Biomarkers-BACE1 and Cathepsin D. Molecules, 2020, 25, 274.	3.8	5
104	An Overview of ICA/BSS-Based Application to Alzheimer's Brain Signal Processing. Biomedicines, 2021, 9, 386.	3.2	5
105	Gene order computation using Alzheimer's DNA microarray gene expression data and the ant colony optimisation algorithm. International Journal of Data Mining and Bioinformatics, 2012, 6, 617.	0.1	4
106	Properties of some statistics for AR-ARCH model with application to technical analysis. Journal of Computational and Applied Mathematics, 2009, 225, 522-530.	2.0	3
107	Corrigendum to: Microwave-Assisted Tandem Processes for the Synthesis of N-Heterocycles. Australian Journal of Chemistry, 2009, 62, 392.	0.9	3
108	A Pilot Study of Multi-Input Recurrent Neural Networks for Drug-Kinase Binding Prediction. Molecules, 2020, 25, 3372.	3.8	3

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109	Simultaneous Monitoring of Multi-Enzyme Activity and Concentration in Tumor Using a Triply Labeled Fluorescent In Vivo Imaging Probe. International Journal of Molecular Sciences, 2020, 21, 3068.	4.1	3
110	A Novel Quasi-3D Method for Cascade Flow Considering Axial Velocity Density Ratio. International Journal of Turbo and Jet Engines, 2018, 35, 81-94.	0.7	2
111	Mechanism-Derived Shock Instability Elimination for Riemann-Solver-Based Shock-Capturing Scheme. AIAA Journal, 2018, 56, 3652-3666.	2.6	2
112	Nanoneurotoxicity and Potential Nanotheranostics for Alzheimer's Disease. , 2019, 7, 1-7.		2
113	Relatively Small Contribution of Methylation and Genomic Copy Number Aberration to the Aberrant Expression of Inflammation-Related Genes in HBV-Related Hepatocellular Carcinoma. PLoS ONE, 2015, 10, e0126836.	2.5	1
114	Classification of MRI and psychological testing data based on support vector machine. International Journal of Clinical and Experimental Medicine, 2017, 10, 16004-16026.	1.3	1
115	IEEE 7<sup>th</sup> BIBE Invited Keynote Lecture: Metallobiochemistry of Alzheimer's Disease and Its Theranostic Agent Development. , 2007, , .		0
116	Automatic classification of Alzheimer's patients and age-matched healthy subjects using independent component analysis. , 2011, , .		0
117	Importance of Copper and Zinc in Alzheimer's Disease and the Biology of Amyloid-Î² Protein and Amyloid-Î² Protein Precursor. , 2003, , 245-261.		0
118	Enhancement of Bone Formation by Bone Morphogenetic Protein-2 Released from Poly (L-lactic-co-glycolic acid) Microsphere. British Biotechnology Journal, 2014, 4, 1223-1237.	0.4	0
119	Contributing Factors of Neurodegeneration in Alzheimerâ€™s Disease. , 0, , 69-84.		0
120	Alzheimer's Pathogenesis, Metal-Mediated Redox Stress, and Potential Nanotheranostics. , 2019, 7, 547-558.		0