Xiang Gao

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/867339/publications.pdf

Version: 2024-02-01

76 papers	2,621 citations	236925 25 h-index	197818 49 g-index
76 all docs	76 docs citations	76 times ranked	3758 citing authors

#	Article	IF	Citations
1	Nanocatalystsâ€Augmented and Photothermalâ€Enhanced Tumorâ€Specific Sequential Nanocatalytic Therapy in Both NIRâ€I and NIRâ€II Biowindows. Advanced Materials, 2019, 31, e1805919.	21.0	347
2	Engineering the methylerythritol phosphate pathway in cyanobacteria for photosynthetic isoprene production from CO₂. Energy and Environmental Science, 2016, 9, 1400-1411.	30.8	212
3	Rational design of silicon structures for optically controlled multiscale biointerfaces. Nature Biomedical Engineering, 2018, 2, 508-521.	22.5	183
4	Maleimideâ€“thiol adducts stabilized through stretching. Nature Chemistry, 2019, 11, 310-319.	13.6	154
5	Ultrathin Molybdenum Carbide MXene with Fast Biodegradability for Highly Efficient Theoryâ€Oriented Photonic Tumor Hyperthermia. Advanced Functional Materials, 2019, 29, 1901942.	14.9	150
6	Rationally designed synthetic protein hydrogels with predictable mechanical properties. Nature Communications, 2018, 9, 620.	12.8	145
7	Synergy between methylerythritol phosphate pathway and mevalonate pathway for isoprene production in Escherichia coli. Metabolic Engineering, 2016, 37, 79-91.	7.0	118
8	Root Interactions in a Maize/Soybean Intercropping System Control Soybean Soil-Borne Disease, Red Crown Rot. PLoS ONE, 2014, 9, e95031.	2.5	88
9	Nongenetic optical neuromodulation with silicon-based materials. Nature Protocols, 2019, 14, 1339-1376.	12.0	62
10	Co-Inoculation with Rhizobia and AMF Inhibited Soybean Red Crown Rot: From Field Study to Plant Defense-Related Gene Expression Analysis. PLoS ONE, 2012, 7, e33977.	2.5	61
11	Valence parton distribution of the pion from lattice QCD: Approaching the continuum limit. Physical Review D, 2020, 102, .	4.7	56
12	Balanced activation of IspG and IspH to eliminate MEP intermediate accumulation and improve isoprenoids production in Escherichia coli. Metabolic Engineering, 2017, 44, 13-21.	7.0	51
13	Enlisting wild grass genes to combat nitrification in wheat farming: A nature-based solution. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	49
14	Graphene Thin Films by Noncovalent-Interaction-Driven Assembly of Graphene Monolayers for Flexible Supercapacitors. CheM, 2018, 4, 896-910.	11.7	48
15	Trade liberalization and markups: Micro evidence from China. Journal of Comparative Economics, 2018, 46, 103-130.	2.2	48
16	Texturing Silicon Nanowires for Highly Localized Optical Modulation of Cellular Dynamics. Nano Letters, 2018, 18, 4487-4492.	9.1	45
17	Synergistic Coordination of Chromatin Torsional Mechanics and Topoisomerase Activity. Cell, 2019, 179, 619-631.e15.	28.9	44
18	Crop Root Behavior Coordinates Phosphorus Status and Neighbors: From Field Studies to Three-Dimensional in Situ Reconstruction of Root System Architecture Â Â. Plant Physiology, 2011, 155, 1277-1285.	4.8	43

#	Article	IF	Citations
19	Single-molecule force spectroscopy reveals force-enhanced binding of calcium ions by gelsolin. Nature Communications, 2014, 5, 4623.	12.8	36
20	Transcription factor regulation of RNA polymeraseâ€™s torque generation capacity. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 2583-2588.	7.1	36
21	Isovector parton distribution functions of the proton on a superfine lattice. Physical Review D, 2020, 102, .	4.7	34
22	A genetically encoded copper(i) sensor based on engineered structural distortion of EGFP. Chemical Communications, 2012, 48, 3890.	4.1	33
23	Laser writing of nitrogen-doped silicon carbide for biological modulation. Science Advances, 2020, 6, .	10.3	33
24	Dynamic and Programmable Cellular-Scale Granules Enable Tissue-like Materials. Matter, 2020, 2, 948-964.	10.0	30
25	Panoramic insights into semi-artificial photosynthesis: origin, development, and future perspective. Energy and Environmental Science, 2022, 15, 529-549.	30.8	30
26	Potassium-induced plant resistance against soybean cyst nematode via root exudation of phenolic acids and plant pathogen-related genes. PLoS ONE, 2018, 13, e0200903.	2.5	28
27	Cryptanalysis and Improvement of the Semi-quantum Secret Sharing Protocol. International Journal of Theoretical Physics, 2017, 56, 2512-2520.	1.2	27
28	Torsional Stiffness of Extended and Plectonemic DNA. Physical Review Letters, 2021, 127, 028101.	7.8	27
29	Single-Molecule Experiments Reveal the Flexibility of a Per-ARNT-Sim Domain and the Kinetic Partitioning in the Unfolding Pathway under Force. Biophysical Journal, 2012, 102, 2149-2157.	0.5	25
30	Oneâ€Step Photo Synthesis of Proteinâ€“Drug Nanoassemblies for Drug Delivery. Advanced Healthcare Materials, 2013, 2, 795-799.	7.6	23
31	Institutional investor sentiment and aggregate stock returns. European Financial Management, 2021, 27, 899-924.	2.9	22
32	Financial Twitter Sentiment on Bitcoin Return and High-Frequency Volatility. Virtual Economics, 2021, 4, 7-18.	7.6	22
33	Lattice QCD Determination of the Bjorken- <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>x</mml:mi></mml:math> Dependence of Parton Distribution Functions at Next-to-Next-to-Leading Order. Physical Review Letters, 2022, 128, 142003.	7.8	22
34	Direct Measurement of Length Scale Dependence of the Hydrophobic Free Energy of a Single Collapsed Polymer Nanosphere. Physical Review Letters, 2019, 122, 047801.	7.8	21
35	Achieving low-entropy secure cloud data auditing with file and authenticator deduplication. Information Sciences, 2021, 546, 177-191.	6.9	20
36	Exogenous electricity flowing through cyanobacterial photosystem I drives CO₂ valorization with high energy efficiency. Energy and Environmental Science, 2021, 14, 5480-5490.	30.8	19

#	Article	IF	Citations
37	Quantum Private Query Based on Bell State and Single Photons. International Journal of Theoretical Physics, 2018, 57, 1983-1989.	1.2	17
38	Cryptanalysis of the Quantum Private Comparison Protocol Based on the Entanglement Swapping Between Three-Particle W-Class State and Bell State. International Journal of Theoretical Physics, 2018, 57, 1716-1722.	1.2	14
39	Structured silicon for revealing transient and integrated signal transductions in microbial systems. Science Advances, 2020, 6, eaay2760.	10.3	14
40	BNI-release mechanisms in plant root systems: current status of understanding. Biology and Fertility of Soils, 2022, 58, 225-233.	4.3	12
41	Governmental inspection and local legislation on environmental protection: Evidence from China. Journal of Economic Surveys, 2022, 36, 728-763.	6.6	12
42	Pion form factor and charge radius from lattice QCD at the physical point. Physical Review D, 2021, 104, .	4.7	12
43	Practical quantum private query based on Bell state. Modern Physics Letters A, 2019, 34, 1950196.	1.2	11
44	Evaluation of potassium application on tomato performance and rhizosphere bacterial communities under negative pressure irrigation of greenhouse-grown. Journal of Plant Nutrition, 2020, 43, 317-326.	1.9	11
45	Secure auditing and deduplication for encrypted cloud data supporting ownership modification. Soft Computing, 2020, 24, 12197-12214.	3.6	10
46	Stable water and fertilizer supply by negative pressure irrigation improve tomato production and soil bacterial communities. SN Applied Sciences, 2019, 1, 1.	2.9	9
47	Improving the Growth of Rapeseed (Brassica chinensis L.) and the Composition of Rhizosphere Bacterial Communities through Negative Pressure Irrigation. Water, Air, and Soil Pollution, 2019, 230, 1.	2.4	9
48	Post-translational regulation of plasma membrane H+-ATPase is involved in the release of biological nitrification inhibitors from sorghum roots. Plant and Soil, 2020, 450, 357-372.	3.7	9
49	Quantum Private Query Protocol Based on EPR Pairs. Chinese Journal of Electronics, 2018, 27, 256-262.	1.5	8
50	An Evaluation of Coupling Coordination between Rural Development and Water Environment in Northwestern China. Land, 2021, 10, 405.	2.9	8
51	Effect of Cooling Rate and Slag Modification on the Copper Matte in Smelting Slag. Mining, Metallurgy and Exploration, 2020, 37, 1593-1601.	0.8	7
52	The temporal-spatial variation of water resources constraint on urbanization in the northwestern China: examples from the Gansu section of west Longhaiâ€“Lanxin economic zone. Environmental Earth Sciences, 2014, 71, 4029-4037.	2.7	6
53	News shock, firm dynamics and business cycles: Evidence and theory. Journal of Economic Dynamics and Control, 2016, 73, 159-180.	1.6	6
54	The emotional cost-of-carry: Chinese investor sentiment and equity index futures basis. China Finance Review International, 2022, 12, 451-476.	8.4	6

#	Article	IF	Citations
55	Temporal and spatial variations of water resources constraint intensity on urbanization in the Shiyang River Basin, China. Environment, Development and Sustainability, 2021, 23, 10038-10055.	5.0	5
56	Towards studying the structural differences between the pion and its radial excitation. Physical Review D, 2021, 103, .	4.7	5
57	High-sorgoleone producing sorghum genetic stocks suppress soil nitrification and N2O emissions better than low-sorgoleone producing genetic stocks. Plant and Soil, 2022, 477, 793-805.	3.7	5
58	Domestic Creditor Rights and External Private Debt. Economic Journal, 2017, 127, 2410-2440.	3.6	4
59	On the Predictability of China Macro Indicator with Carbon Emissions Trading. Energies, 2021, 14, 1271.	3.1	4
60	LASSO-based high-frequency return predictors for profitable Bitcoin investment. Applied Economics Letters, 0, , 1-5.	1.8	4
61	Modeling retireesâ€™ investment behaviors in the presence of health expenditure risk and financial crisis risk. Economic Modelling, 2021, 94, 442-454.	3.8	3
62	Water poverty assessment based on the random forest algorithm: application to Gansu, Northwest China. Water Policy, 2021, 23, 1388-1399.	1.5	3
63	Negative Pressure Irrigation System Reduces Soil Nitrogen Loss for Lettuce during Greenhouse Production. Agronomy, 2021, 11, 2380.	3.0	3
64	How does real earnings management respond to the 2007-2008 financial crisis?. Pacific Accounting Review, 2020, 32, 495-517.	2.0	2
65	CEO-director connectedness and firmâ€™s operational risk. Applied Economics Letters, 2022, 29, 1102-1106.	1.8	2
66	On the Role of Projected FDI Inflows in Shaping Institutions. East Asian Economic Review, 2020, 24, 441-468.	0.6	2
67	Volatility Estimated Based on the Holding-Period Return versus the Logarithmic Return: Their Difference Can Make a Difference. Journal of Portfolio Management, 2020, 46, 108-119.	0.6	2
68	How do job vacancy rates predict firm performance? A web crawling massive data perspective. Pacific-Basin Finance Journal, 2020, 62, 101371.	3.9	1
69	Multiple-step value-at-risk forecasts based on volatility-filtered MIDAS quantile regression: Evidence from major investment assets. Investment Management and Financial Innovations, 2021, 18, 372-384.	1.6	1
70	Optimal Administrative Response to Selfish Behaviors in Urban Public Management: The Role of Zero-Determinant Strategies. Journal of Mathematics, 2021, 2021, 1-10.	1.0	1
71	Risk capital reserve and measurement precision in modeling heavy-tailed single operational losses. Journal of Operational Risk, 2020, 15, .	0.2	1
72	The extensive margin of intrafirm trade. International Journal of Economics and Business Research, 2012, 4, 213.	0.2	0

#	Article	IF	Citations
73	Multi-function Quantum Cryptography Protocol Based on Bell State. Lecture Notes in Computer Science, 2019, , 110-119.	1.3	0
74	Connection Parameters of Heavy-tailed Operational Risk Measurement Model and Management Model. Journal of Risk Analysis and Crisis Response (JRACR), 2016, 6, 122.	0.3	0
75	A Choice Model of University Endowments Governance. B E Journal of Theoretical Economics, 2021, 21, 269-285.	0.2	0
76	Public diplomacy as a determinant of bilateral tourism between the influencer and influencee countries: evidence from the Asia-Pacific region. Asia Pacific Journal of Tourism Research, 2022, 27, 319-330.	3.7	0