

Miao Liu

List of Publications by Year in descending order

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82
papers

7,398
citations

94269

37
h-index

64668

79
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82
all docs

82
docs citations

82
times ranked

9656
citing authors

#	ARTICLE	IF	CITATIONS
1	Powdery mildews on crops and ornamentals in Canada: a summary of the phylogeny and taxonomy from 2000 to 2019. Canadian Journal of Plant Pathology, 2022, 44, 191-218.	0.8	3
2	A large accessory genome and high recombination rates may influence global distribution and broad host range of the fungal plant pathogen <i>Claviceps purpurea</i> . PLoS ONE, 2022, 17, e0263496.	1.1	8
3	Pressure-induced evolution of structure and electronic property of GeP. Journal of Applied Physics, 2022, 131, .	1.1	3
4	Neotypification of <i>Claviceps humidiphila</i> and recognition of <i>C. bavariensis</i> sp. nov.. Mycotaxon, 2022, 137, 73-87.	0.1	1
5	The 168-year taxonomy of <i>Claviceps</i> in the light of variations: From three morphological species to four sections based on multigene phylogenies. Canadian Journal of Plant Pathology, 2022, 44, 783-792.	0.8	0
6	Superconductive materials with MgB_2 -like structures from data-driven screening. Physical Review B, 2022, 105, .		
7	QoS-Oriented Dynamic Power Allocation in NOMA-Based Wireless Caching Networks. IEEE Wireless Communications Letters, 2021, 10, 82-86.	3.2	19
8	Sympatric divergence of the ergot fungus, <i>Claviceps purpurea</i> , populations infecting agricultural and nonagricultural grasses in North America. Ecology and Evolution, 2021, 11, 273-293.	0.8	7
9	Multiple Unmanned-Aerial-Vehicles Deployment and User Pairing for Nonorthogonal Multiple Access Schemes. IEEE Internet of Things Journal, 2021, 8, 1883-1895.	5.5	50
10	Whole-Genome Comparisons of Ergot Fungi Reveals the Divergence and Evolution of Species within the Genus <i>Claviceps</i> Are the Result of Varying Mechanisms Driving Genome Evolution and Host Range Expansion. Genome Biology and Evolution, 2021, 13, .	1.1	17
11	Joint UL/DL Resource Allocation for UAV-Aided Full-Duplex NOMA Communications. IEEE Transactions on Communications, 2021, 69, 8474-8487.	4.9	22
12	Cross-Layer Resource Allocation for UAV-Assisted Wireless Caching Networks With NOMA. IEEE Transactions on Vehicular Technology, 2021, 70, 3428-3438.	3.9	28
13	High-Throughput Screening of Element-Doped Carbon Nanotubes Toward an Optimal One-Dimensional Superconductor. Journal of Physical Chemistry Letters, 2021, 12, 6667-6675.	2.1	4
14	Phylogeny and taxonomy of <i>Podosphaera filipendulae</i> (<i>Erysiphaceae</i>) revisited. Mycoscience, 2021, 62, 390-394.	0.3	2
15	Fungi Canadenses No. 350: <i>EPICHLA</i> GLYCERIAE. Canadian Journal of Plant Pathology, 2021, 43, 855-858.	0.8	1
16	Viable substrates for the honeycomb-borophene growth. Physical Review Materials, 2021, 5, .	0.9	4
17	Mining Indole Alkaloid Synthesis Gene Clusters from Genomes of 53 <i>Claviceps</i> Strains Revealed Redundant Gene Copies and an Approximate Evolutionary Hourglass Model. Toxins, 2021, 13, 799.	1.5	4
18	Evolution of the Ergot Alkaloid Biosynthetic Gene Cluster Results in Divergent Mycotoxin Profiles in <i>Claviceps purpurea</i> Sclerotia. Toxins, 2021, 13, 861.	1.5	7

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19	Claviceps zizaniae. Canadian Journal of Plant Pathology, 2020, 42, 260-264.	0.8	0
20	UAV-Aided Air-to-Ground Cooperative Nonorthogonal Multiple Access. IEEE Internet of Things Journal, 2020, 7, 2704-2715.	5.5	55
21	Reconciliation Problem in Polar Integrated Navigation Considering Coordinate Frame Transformation. IEEE Transactions on Vehicular Technology, 2020, 69, 10375-10379.	3.9	3
22	Four phylogenetic species of ergot from Canada and their characteristics in morphology, alkaloid production, and pathogenicity. Mycologia, 2020, 112, 974-988.	0.8	13
23	Semi-Supervised Machine Learning Aided Anomaly Detection Method in Cellular Networks. IEEE Transactions on Vehicular Technology, 2020, 69, 8459-8467.	3.9	17
24	Vacancy Occupation-Driven Polymorphic Transformation in Cobalt Ditungstate for Boosted Oxygen Evolution Reaction. ACS Nano, 2020, 14, 6968-6979.	7.3	100
25	Secrecy Outage Analysis of Transmit Antenna Selection Assisted With Wireless Power Beacon. IEEE Transactions on Vehicular Technology, 2020, 69, 7473-7482.	3.9	15
26	Smoothing-Aided Support Vector Machine Based Nonstationary Video Traffic Prediction Towards 5G Networks. IEEE Transactions on Vehicular Technology, 2020, 69, 7493-7502.	3.9	23
27	Toward Self-Adaptive Selection of Kernel Functions for Support Vector Regression in IoT-Based Marine Data Prediction. IEEE Internet of Things Journal, 2020, 7, 9943-9952.	5.5	14
28	LightAMC: Lightweight Automatic Modulation Classification via Deep Learning and Compressive Sensing. IEEE Transactions on Vehicular Technology, 2020, 69, 3491-3495.	3.9	180
29	In-situ resonant band engineering of solution-processed semiconductors generates high performance n-type thermoelectric nano-inks. Nature Communications, 2020, 11, 2069.	5.8	23
30	Exploring the sodium ion storage mechanism of gallium sulfide (Ga_2S_3): a combined experimental and theoretical approach. Nanoscale, 2019, 11, 3208-3215.	2.8	24
31	High-throughput prediction of the ground-state collinear magnetic order of inorganic materials using Density Functional Theory. Npj Computational Materials, 2019, 5, .	3.5	69
32	Iron-Doping-Induced Phase Transformation in Dual-Carbon-Confined Cobalt Diselenide Enabling Superior Lithium Storage. ACS Nano, 2019, 13, 6113-6124.	7.3	108
33	Flat AgTe Honeycomb Monolayer on Ag(111). Journal of Physical Chemistry Letters, 2019, 10, 1866-1871.	2.1	28
34	Oriented Transformation of Co-LDH into 2D/3D ZIF-67 to Achieve Co-N-C Hybrids for Efficient Overall Water Splitting. Advanced Energy Materials, 2019, 9, 1803918.	10.2	260
35	Two-dimensional dual carbon-coupled defective nickel quantum dots towards highly efficient overall water splitting. Applied Catalysis B: Environmental, 2019, 250, 213-223.	10.8	101
36	Phylogeny of Canadian ergot fungi and a detection assay by real-time polymerase chain reaction. Mycologia, 2019, 111, 493-505.	0.8	12

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37	Data-Driven Deep Learning for Automatic Modulation Recognition in Cognitive Radios. IEEE Transactions on Vehicular Technology, 2019, 68, 4074-4077.	3.9	498
38	Robust Resource Allocation and Power Splitting in SWIPT Enabled Heterogeneous Networks: A Robust Minimax Approach. IEEE Internet of Things Journal, 2019, 6, 10799-10811.	5.5	59
39	Deep Learning-Inspired Message Passing Algorithm for Efficient Resource Allocation in Cognitive Radio Networks. IEEE Transactions on Vehicular Technology, 2019, 68, 641-653.	3.9	156
40	Deep Cognitive Perspective: Resource Allocation for NOMA-Based Heterogeneous IoT With Imperfect SIC. IEEE Internet of Things Journal, 2019, 6, 2885-2894.	5.5	208
41	Origin of negative thermal expansion in Zn ₂ GeO ₄ revealed by high pressure study. Journal Physics D: Applied Physics, 2018, 51, 095303.	1.3	11
42	Electrostatic Estimation of Intercalant Jump-Diffusion Barriers Using Finite-Size Ion Models. Journal of Physical Chemistry Letters, 2018, 9, 628-634.	2.1	16
43	Tunable electronic coupling of cobalt sulfide/carbon composites for optimizing oxygen evolution reaction activity. Journal of Materials Chemistry A, 2018, 6, 10304-10312.	5.2	86
44	Thickness-dependent phase transition and optical behavior of MoS ₂ films under high pressure. Nano Research, 2018, 11, 855-863.	5.8	30
45	Nine draft genome sequences of <i>Claviceps purpurea</i> s.lat., including <i>C. arundinis</i> , <i>C. humidiphila</i> , and <i>C. cf. spartinae</i> , pseudomolecules for the pitch canker pathogen <i>Fusarium circinatum</i> , draft genome of <i>Davidsoniella eucalypti</i> , <i>Grosmannia galeiformis</i> , <i>Quambalaria eucalypti</i> , and <i>Teratosphaeria destructans</i> . IMA Fungus, 2018, 9, 401-418.	1.7	31
46	Screening Magnetic Two-Dimensional Atomic Crystals with Nontrivial Electronic Topology. Journal of Physical Chemistry Letters, 2018, 9, 6709-6715.	2.1	53
47	Rationalizing Perovskite Data for Machine Learning and Materials Design. Journal of Physical Chemistry Letters, 2018, 9, 6948-6954.	2.1	68
48	Al ₂ O ₃ coated LiCoO ₂ as cathode for high-capacity and long-cycling Li-ion batteries. Chinese Chemical Letters, 2018, 29, 1768-1772.	4.8	27
49	Garnet Electrolyte Surface Degradation and Recovery. ACS Applied Energy Materials, 2018, 1, 7244-7252.	2.5	81
50	Li ₂ S-Embedded copper metal-organic framework cathode with superior electrochemical performance for Li-S batteries. New Journal of Chemistry, 2018, 42, 13775-13783.	1.4	14
51	Dynamic Hosts for High-Performance Li-S Batteries Studied by Cryogenic Transmission Electron Microscopy and in Situ X-ray Diffraction. ACS Energy Letters, 2018, 3, 1325-1330.	8.8	47
52	Ultrafine Co Nanoparticles Encapsulated in Carbon Nanotubes Grafted Graphene Sheets as Advanced Electrocatalysts for the Hydrogen Evolution Reaction. Advanced Materials, 2018, 30, e1802011.	11.1	453
53	Utilizing a metal as a sulfur host for high performance Li-S batteries. Nano Energy, 2018, 50, 685-690.	8.2	40
54	High-throughput screening of inorganic compounds for the discovery of novel dielectric and optical materials. Scientific Data, 2017, 4, 160134.	2.4	140

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55	Rust fungi on <i>Panicum</i> . <i>Mycologia</i> , 2017, 109, 1-17.	0.8	30
56	Anharmonicity of monolayer MoS ₂ , MoSe ₂ , and WSe ₂ : A Raman study under high pressure and elevated temperature. <i>Applied Physics Letters</i> , 2017, 110, .	1.5	79
57	Odyssey of Multivalent Cathode Materials: Open Questions and Future Challenges. <i>Chemical Reviews</i> , 2017, 117, 4287-4341.	23.0	914
58	General Synthesis of Dual Carbon-Confined Metal Sulfides Quantum Dots Toward High-Performance Anodes for Sodium-Ion Batteries. <i>Advanced Functional Materials</i> , 2017, 27, 1702046.	7.8	259
59	Fast Mg ²⁺ diffusion in Mo ₃ (PO ₄) ₃ O for Mg batteries. <i>Chemical Communications</i> , 2017, 53, 7998-8001.	2.2	22
60	Strain-Mediated Interfacial Dynamics during Au-PbS Core-Shell Nanostructure Formation. <i>ACS Nano</i> , 2016, 10, 6235-6240.	7.3	21
61	A high capacity thiospinel cathode for Mg batteries. <i>Energy and Environmental Science</i> , 2016, 9, 2273-2277.	15.6	349
62	Is alpha-V ₂ O ₅ a cathode material for Mg insertion batteries?. <i>Journal of Power Sources</i> , 2016, 323, 44-50.	4.0	108
63	Evaluation of sulfur spinel compounds for multivalent battery cathode applications. <i>Energy and Environmental Science</i> , 2016, 9, 3201-3209.	15.6	121
64	Tunable metal-insulator transition in Nd _{1-x} Y _x NiO ₃ (x=0.3, 0.4) perovskites thin film at near room temperature. <i>Applied Physics Letters</i> , 2015, 107, .	1.5	3
65	First-principles evaluation of multi-valent cation insertion into orthorhombic V ₂ O ₅ . <i>Chemical Communications</i> , 2015, 51, 13619-13622.	2.2	148
66	Materials Design Rules for Multivalent Ion Mobility in Intercalation Structures. <i>Chemistry of Materials</i> , 2015, 27, 6016-6021.	3.2	445
67	Spinel compounds as multivalent battery cathodes: a systematic evaluation based on ab initio calculations. <i>Energy and Environmental Science</i> , 2015, 8, 964-974.	15.6	430
68	Photoluminescence of monolayer MoS ₂ on LaAlO ₃ and SrTiO ₃ substrates. <i>Nanoscale</i> , 2014, 6, 15248-15254.	2.8	122
69	Quantum manifestation of elastic constants in nanofilms. <i>Nanotechnology</i> , 2014, 25, 135706.	1.3	6
70	Laying the foundation for a taxonomic review of <i>Puccinia coronata</i> s.l. in a phylogenetic context. <i>Mycological Progress</i> , 2013, 12, 63-89.	0.5	37
71	Plant-Symbiotic Fungi as Chemical Engineers: Multi-Genome Analysis of the Clavicipitaceae Reveals Dynamics of Alkaloid Loci. <i>PLoS Genetics</i> , 2013, 9, e1003323.	1.5	344
72	<i>Puccinia chungii</i> , a close relative of the cereal stem rusts revealed by molecular phylogeny and morphological study. <i>Mycologia</i> , 2012, 104, 1056-1067.	0.8	10

