

Ning Wu

List of Publications by Year in descending order

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71
papers

2,119
citations

218592

26
h-index

254106

43
g-index

73
all docs

73
docs citations

73
times ranked

2755
citing authors

#	ARTICLE	IF	CITATIONS
1	Electric-field-induced assembly and propulsion of chiral colloidal clusters. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 6307-6312.	3.3	156
2	Methane emissions from the surface of the Three Gorges Reservoir. Journal of Geophysical Research, 2011, 116, .	3.3	150
3	Selecting the Swimming Mechanisms of Colloidal Particles: Bubble Propulsion versus Self-Diffusiophoresis. Langmuir, 2014, 30, 3477-3486.	1.6	132
4	Methane emissions from newly created marshes in the drawdown area of the Three Gorges Reservoir. Journal of Geophysical Research, 2009, 114, .	3.3	97
5	Inducing Propulsion of Colloidal Dimers by Breaking the Symmetry in Electrohydrodynamic Flow. Physical Review Letters, 2015, 115, 208302.	2.9	80
6	Tree growth acceleration and expansion of alpine forests: The synergistic effect of atmospheric and edaphic change. Science Advances, 2016, 2, e1501302.	4.7	74
7	Effects of Warming on Chlorophyll Degradation and Carbohydrate Accumulation of Alpine Herbaceous Species during Plant Senescence on the Tibetan Plateau. PLoS ONE, 2014, 9, e107874.	1.1	72
8	Determinants influencing seasonal variations of methane emissions from alpine wetlands in Zoige Plateau and their implications. Journal of Geophysical Research, 2008, 113, .	3.3	68
9	Two-Dimensional Assembly of Symmetric Colloidal Dimers under Electric Fields. Advanced Functional Materials, 2012, 22, 4334-4343.	7.8	68
10	The combined effects of warming and drying suppress CO ₂ and N ₂ O emission rates in an alpine meadow of the eastern Tibetan Plateau. Ecological Research, 2012, 27, 725-733.	0.7	63
11	Predominance of Precipitation and Temperature Controls on Ecosystem CO ₂ Exchange in Zoige Alpine Wetlands of Southwest China. Wetlands, 2011, 31, 413-422.	0.7	59
12	Magnetic Microlassos for Reversible Cargo Capture, Transport, and Release. Langmuir, 2017, 33, 5932-5937.	1.6	53
13	Rangeland privatization and its impacts on the Zoige wetlands on the Eastern Tibetan Plateau. Journal of Mountain Science, 2005, 2, 105-115.	0.8	51
14	Formation of Colloidal Molecules Induced by Alternating-Current Electric Fields. Journal of the American Chemical Society, 2013, 135, 7839-7842.	6.6	48
15	Reconfigurable microbots folded from simple colloidal chains. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 18186-18193.	3.3	45
16	Microwheels on microroads: Enhanced translation on topographic surfaces. Science Robotics, 2019, 4, .	9.9	41
17	Qinghai-tibetan plateau peatland sustainable utilization under anthropogenic disturbances and climate change. Ecosystem Health and Sustainability, 2017, 3, .	1.5	40
18	Analysis of dynamics and driving factors of wetland landscape in Zoige, Eastern Qinghai-Tibetan Plateau. Journal of Mountain Science, 2009, 6, 42-55.	0.8	37

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19	Bulk Synthesis of Metal-Organic Hybrid Dimers and Their Propulsion under Electric Fields. ACS Applied Materials & Interfaces, 2014, 6, 4560-4569.	4.0	33
20	Methane Fluxes from Alpine Wetlands of Zoige Plateau in Relation to Water Regime and Vegetation under Two Scales. Water, Air, and Soil Pollution, 2011, 217, 173-183.	1.1	30
21	Monitoring vegetation recovery after China's May 2008 Wenchuan earthquake using Landsat TM time-series data: a case study in Mao County. Ecological Research, 2012, 27, 955-966.	0.7	30
22	Intense methane ebullition from open water area of a shallow peatland lake on the eastern Tibetan Plateau. Science of the Total Environment, 2016, 542, 57-64.	3.9	30
23	Electric-Field Assisted Assembly of Colloidal Particles into Ordered Nonclose-Packed Arrays. Langmuir, 2017, 33, 5769-5776.	1.6	29
24	Prussian blue analogue functionalized magnetic microgels with ionized chitosan for the cleaning of cesium-contaminated clay. Journal of Hazardous Materials, 2020, 386, 121965.	6.5	29
25	Dynamics of evaporative colloidal patterning. Physics of Fluids, 2015, 27, .	1.6	28
26	Ethnic and Cultural Diversity amongst Yak Herding Communities in the Asian Highlands. Sustainability, 2020, 12, 957.	1.6	28
27	Within-twig biomass allocation in subtropical evergreen broad-leaved species along an altitudinal gradient: allometric scaling analysis. Trees - Structure and Function, 2009, 23, 637-647.	0.9	27
28	Covalent organic frameworks functionalized electrodes for simultaneous removal of UO ₂ ²⁺ and ReO ₄ ⁻ with fast kinetics and high capacities by electro-adsorption. Journal of Hazardous Materials, 2022, 429, 128315.	6.5	27
29	Impacts of Land-Use and Climate Change on Ecosystem Service in Eastern Tibetan Plateau, China. Sustainability, 2018, 10, 467.	1.6	26
30	Effect of snow-cover duration on plant species diversity of alpine meadows on the eastern Qinghai-Tibetan Plateau. Journal of Mountain Science, 2008, 5, 327-339.	0.8	25
31	Colloidal structures of asymmetric dimers via orientation-dependent interactions. Soft Matter, 2014, 10, 8349-8357.	1.2	25
32	Photosynthetic response of <i>Fragaria orientalis</i> in different water contrast clonal integration. Ecological Research, 2009, 24, 617-625.	0.7	24
33	Changes in methane oxidation ability and methanotrophic community composition across different climatic zones. Journal of Soils and Sediments, 2019, 19, 533-543.	1.5	24
34	Change the Collective Behaviors of Colloidal Motors by Tuning Electrohydrodynamic Flow at the Subparticle Level. Langmuir, 2018, 34, 952-960.	1.6	18
35	Nitrous Oxide Emissions from Newly Created Littoral Marshes in the Drawdown Area of the Three Gorges Reservoir, China. Water, Air, and Soil Pollution, 2010, 211, 25-33.	1.1	17
36	Testing the generality of the "leafing intensity premium" hypothesis in temperate broad-leaved forests: a survey of variation in leaf size within and between habitats. Evolutionary Ecology, 2010, 24, 685-701.	0.5	17

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37	Species-level phenological responses to "global warming" as evidenced by herbarium collections in the Tibetan Autonomous Region. <i>Biodiversity and Conservation</i> , 2013, 22, 141-152.	1.2	17
38	Colloidal molecules assembled from binary spheres under an AC electric field. <i>Soft Matter</i> , 2017, 13, 436-444.	1.2	17
39	High Carbon Dioxide Evasion from an Alpine Peatland Lake: The Central Role of Terrestrial Dissolved Organic Carbon Input. <i>Water, Air, and Soil Pollution</i> , 2012, 223, 2563-2569.	1.1	16
40	Impacts of wise grazing on physicochemical and biological features of soil in a sandy grassland on the Tibetan Plateau. <i>Land Degradation and Development</i> , 2019, 30, 719-729.	1.8	15
41	Shrub island effects on a high-altitude forest cutover in the eastern Tibetan Plateau. <i>Annals of Forest Science</i> , 2011, 68, 1127.	0.8	14
42	Effect of chemical and physical heterogeneities on colloid-facilitated cesium transport. <i>Journal of Contaminant Hydrology</i> , 2018, 213, 22-27.	1.6	14
43	The Impact of Stern-Layer Conductivity on the Electrohydrodynamic Flow Around Colloidal Motors under an Alternating Current Electric Field. <i>Advanced Intelligent Systems</i> , 2019, 1, 1900096.	3.3	14
44	Shifting dynamics of nature, society and agriculture in the Hindu Kush Himalayas: Perspectives for future mountain development. <i>Journal of Mountain Science</i> , 2019, 16, 1133-1149.	0.8	14
45	The Impact of Nonpolymerizable Swelling Agents On The Synthesis of Particles With Combined Geometric, Interfacial, and Compositional Anisotropy. <i>Langmuir</i> , 2015, 31, 7962-7969.	1.6	13
46	Effects of mixing pine and broadleaved tree/shrub litter on decomposition and N dynamics in laboratory microcosms. <i>Ecological Research</i> , 2009, 24, 761-769.	0.7	12
47	Variation in physicochemical and biochemical soil properties among different plant species treatments early in the restoration of a desertified alpine meadow. <i>Land Degradation and Development</i> , 2019, 30, 1889-1903.	1.8	12
48	Synthesis and Propulsion of Magnetic Dimers under Orthogonally Applied Electric and Magnetic Fields. <i>Langmuir</i> , 2021, 37, 9151-9161.	1.6	12
49	Aftermath of the Wenchuan earthquake. <i>Frontiers in Ecology and the Environment</i> , 2009, 7, 72-72.	1.9	11
50	Unpalatable weed <i>Stellera chamaejasme</i> L. provides biotic refuge for neighboring species and conserves plant diversity in overgrazing alpine meadows on the Tibetan Plateau in China. <i>Journal of Mountain Science</i> , 2014, 11, 746-754.	0.8	11
51	Functionalized Nanoparticles for the Dispersion of Gas Hydrates in Slurry Flow. <i>ACS Omega</i> , 2019, 4, 13496-13508.	1.6	11
52	Molecular cloning of a novel chimeric HMW glutenin subunit gene 1Dx5 ² from a common wheat line W958. <i>Molecular Breeding</i> , 2011, 28, 163-170.	1.0	10
53	Superparamagnetic colloidal chains prepared via Michael-addition. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018, 540, 23-28.	2.3	10
54	Methane emissions respond to soil temperature in convergent patterns but divergent sensitivities across wetlands along altitude. <i>Global Change Biology</i> , 2021, 27, 941-955.	4.2	10

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55	Multiple Effects of Topographic Factors on Spatio-Temporal Variations of Vegetation Patterns in the Three Parallel Rivers Region, Southeast Qinghai-Tibet Plateau. <i>Remote Sensing</i> , 2022, 14, 151.	1.8	10
56	What Ecosystem Services Flowing from Linpan Systemâ€”A Cultural Landscape in Chengdu Plain, Southwest China. <i>Sustainability</i> , 2020, 12, 4122.	1.6	8
57	Electric-Field-Driven Assembly of Dipolar Spheres Asymmetrically Confined between Two Electrodes. <i>ACS Nano</i> , 2021, 15, 2399-2412.	7.3	8
58	Spatiotemporal Variations in Nitrous Oxide Emissions from an Open Fen on the Qinghaiâ€”Tibetan Plateau: a 3-Year Study. <i>Water, Air, and Soil Pollution</i> , 2012, 223, 6025-6034.	1.1	7
59	Transport of Colloidal Particles in Microscopic Porous Medium Analogues with Surface Charge Heterogeneity: Experiments and the Fundamental Role of Single-Bead Deposition. <i>Environmental Science & Technology</i> , 2020, 54, 13651-13660.	4.6	7
60	Farmersâ€™ Strategies to Climate Change and Urbanization: Potential of Ecosystem-Based Adaptation in Rural Chengdu, Southwest China. <i>International Journal of Environmental Research and Public Health</i> , 2022, 19, 952.	1.2	7
61	Growth rate of mosses and their environmental determinants in subalpine coniferous forests and clear-cuts at the eastern edge of the Qinghai-Tibetan Plateau, China. <i>Frontiers of Forestry in China: Selected Publications From Chinese Universities</i> , 2008, 3, 171-176.	0.2	5
62	Bead-Based Microfluidic Sediment Analogues: Fabrication and Colloid Transport. <i>Langmuir</i> , 2016, 32, 9342-9350.	1.6	5
63	Holocene peatland development and carbon stock of Zoige peatlands, Tibetan Plateau: a modeling approach. <i>Journal of Soils and Sediments</i> , 2018, 18, 2032-2043.	1.5	5
64	Impact of climate change on wheat security through an alternate host of stripe rust. <i>Food and Energy Security</i> , 2022, 11, .	2.0	5
65	Growth and potential reproduction of <i>Poa crymophila</i> in response to season precipitation shortage in the Eastern Tibetan Plateau, China. <i>Russian Journal of Ecology</i> , 2010, 41, 147-152.	0.3	4
66	Directed assembly of anisotropic particles under external fields. , 2018, , 131-165.		4
67	Variation in the Soil Prokaryotic Community Under Simulated Warming and Rainfall Reduction in Different Water Table Peatlands of the Zoige Plateau. <i>Frontiers in Microbiology</i> , 2020, 11, 343.	1.5	4
68	Relationships between plant colonization and soil characteristics in the natural recovery of an earthquake-triggered debris flow gully in the Wanglang National Nature Reserve, China. <i>Journal of Mountain Science</i> , 2016, 13, 59-68.	0.8	3
69	Chain Assembly Kinetics from Magnetic Colloidal Spheres. <i>Langmuir</i> , 2022, 38, 5730-5737.	1.6	2
70	Outlook and future directions. , 2018, , 335-344.		0
71	Integrated landscape approaches to building resilience and multifunctionality in the Kailash Sacred Landscape, China. <i>Journal of Mountain Science</i> , 0, , 1.	0.8	0