

# Lu Zhang

## List of Publications by Year in descending order

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Version: 2024-02-01

61  
papers

3,377  
citations

393982

19  
h-index

149479

56  
g-index

65  
all docs

65  
docs citations

65  
times ranked

3741  
citing authors

#	ARTICLE	IF	CITATIONS
1	Improvements in ecosystem services from investments in natural capital. <i>Science</i> , 2016, 352, 1455-1459.	6.0	1,117
2	Effects of national ecological restoration projects on carbon sequestration in China from 2001 to 2010. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 4039-4044.	3.3	486
3	Strengthening protected areas for biodiversity and ecosystem services in China. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 1601-1606.	3.3	461
4	Investigation on water status and distribution in broccoli and the effects of drying on water status using NMR and MRI methods. <i>Food Research International</i> , 2017, 96, 191-197.	2.9	168
5	3D printing of cereal-based food structures containing probiotics. <i>Food Structure</i> , 2018, 18, 14-22.	2.3	129
6	Reassessing the conservation status of the giant panda using remote sensing. <i>Nature Ecology and Evolution</i> , 2017, 1, 1635-1638.	3.4	127
7	Hidden Loss of Wetlands in China. <i>Current Biology</i> , 2019, 29, 3065-3071.e2.	1.8	85
8	Printability and Physicochemical Properties of Microalgae-Enriched 3D-Printed Snacks. <i>Food and Bioprocess Technology</i> , 2020, 13, 2029-2042.	2.6	62
9	Are declining populations of wild geese in China "prisoners" of their natural habitats?. <i>Current Biology</i> , 2017, 27, R376-R377.	1.8	56
10	Digitalisation and Artificial Intelligence for sustainable food systems. <i>Trends in Food Science and Technology</i> , 2022, 120, 344-348.	7.8	41
11	Determination of priority nature conservation areas and human disturbances in the Yangtze River Basin, China. <i>Journal for Nature Conservation</i> , 2014, 22, 326-336.	0.8	36
12	Effect of baking conditions and storage on the viability of <i>Lactobacillus plantarum</i> supplemented to bread. <i>LWT - Food Science and Technology</i> , 2018, 87, 318-325.	2.5	34
13	A study on <i>Bifidobacterium lactis</i> Bb12 viability in bread during baking. <i>Journal of Food Engineering</i> , 2014, 122, 33-37.	2.7	33
14	Driving forces and their effects on water conservation services in forest ecosystems in China. <i>Chinese Geographical Science</i> , 2017, 27, 216-228.	1.2	31
15	Controlled oleosome extraction to produce a plant-based mayonnaise-like emulsion using solely rapeseed seeds. <i>LWT - Food Science and Technology</i> , 2020, 123, 109120.	2.5	31
16	Arabinoxylans-enriched fractions: From dry fractionation of wheat bran to the investigation on bread baking performance. <i>Journal of Cereal Science</i> , 2019, 87, 1-8.	1.8	28
17	Gaining insight on spray drying behavior of foods via single droplet drying analyses. <i>Drying Technology</i> , 2019, 37, 525-534.	1.7	26
18	Survival of encapsulated <i>Lactobacillus plantarum</i> during isothermal heating and bread baking. <i>LWT - Food Science and Technology</i> , 2018, 93, 396-404.	2.5	25

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19	Formulated food inks for extrusion-based 3D printing of personalized foods: a mini review. <i>Current Opinion in Food Science</i> , 2022, 44, 100803.	4.1	24
20	Influence of traditional ecological knowledge on conservation of the skywalker hoolock gibbon ( <i>Hoolock tianxing</i> ) outside nature reserves. <i>Biological Conservation</i> , 2020, 241, 108267.	1.9	22
21	Calcium-Aggregated Milk: a Potential New Option for Improving the Viability of Lactic Acid Bacteria Under Heat Stress. <i>Food and Bioprocess Technology</i> , 2014, 7, 3147-3155.	2.6	20
22	Predicting the extrudability of complex food materials during 3D printing based on image analysis and gray-box data-driven modelling. <i>Innovative Food Science and Emerging Technologies</i> , 2021, 73, 102764.	2.7	20
23	Reintroduction and Post-Release Survival of a Living Fossil: The Chinese Giant Salamander. <i>PLoS ONE</i> , 2016, 11, e0156715.	1.1	19
24	SURGICAL IMPLANTATION OF COELOMIC RADIOTRANSMITTERS AND POSTOPERATIVE SURVIVAL OF CHINESE GIANT SALAMANDERS ( <i>ANDRIAS DAVIDIANUS</i> ) FOLLOWING REINTRODUCTION. <i>Journal of Zoo and Wildlife Medicine</i> , 2016, 47, 187-195.	0.3	14
25	Urban networks among Chinese cities along "the Belt and Road": A case of web search activity in cyberspace. <i>PLoS ONE</i> , 2017, 12, e0188868.	1.1	14
26	Thermal inactivation kinetics of $\beta$ -galactosidase during bread baking. <i>Food Chemistry</i> , 2017, 225, 107-113.	4.2	13
27	Antipredation Sleeping Behavior of Skywalker Hoolock Gibbons ( <i>Hoolock tianxing</i> ) in Mt. Gaoligong, Yunnan, China. <i>International Journal of Primatology</i> , 2017, 38, 629-641.	0.9	13
28	Formulating a list of sites of waterbird conservation significance to contribute to China's Ecological Protection Red Line. <i>Bird Conservation International</i> , 2017, 27, 153-166.	0.7	13
29	The Effect of Water Temperature on the Growth of Captive Chinese Giant Salamanders ( <i>Andrias</i> ) <i>Tj ETQq1 1 0.784314 rgBT /Overl</i> <i>Herpetologica</i> , 2014, 70, 369-377.	0.2	12
30	Assessment of habitat fragmentation caused by traffic networks and identifying key affected areas to facilitate rare wildlife conservation in China. <i>Wildlife Research</i> , 2015, 42, 266.	0.7	12
31	Miniature bread baking as a timesaving research approach and mathematical modeling of browning kinetics. <i>Food and Bioprocess Technology</i> , 2016, 100, 401-411.	1.8	12
32	Effects of the Qinghai-Tibet Railway on the Landscape Genetics of the Endangered Przewalski's Gazelle ( <i>Procapra przewalskii</i> ). <i>Scientific Reports</i> , 2017, 7, 17983.	1.6	12
33	The neglected otters in China: Distribution change in the past 400 years and current conservation status. <i>Biological Conservation</i> , 2018, 228, 259-267.	1.9	12
34	Focusing on rapid urbanization areas can control the rapid loss of migratory water bird habitats in China. <i>Global Ecology and Conservation</i> , 2019, 20, e00801.	1.0	12
35	Impact of conjugation with maltodextrin on rheological properties of sodium caseinate. <i>International Dairy Journal</i> , 2020, 105, 104660.	1.5	12
36	Effects of protected areas on survival of threatened gibbons in China. <i>Conservation Biology</i> , 2021, 35, 1288-1298.	2.4	12

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37	Interfacial Rheology and Foaming Properties of Soy Protein and Hydrolysates under Acid Condition. <i>Food Biophysics</i> , 2021, 16, 484-491.	1.4	10
38	The impact of fencing on the distribution of Przewalski's gazelle. <i>Journal of Wildlife Management</i> , 2014, 78, 255-263.	0.7	9
39	Which Species Should We Focus On? Umbrella Species Assessment in Southwest China. <i>Biology</i> , 2019, 8, 42.	1.3	9
40	Exploring the Relationships between Key Ecological Indicators to Improve Natural Conservation Planning at Different Scales. <i>Forests</i> , 2019, 10, 32.	0.9	9
41	Temporal Changes in Multiple Ecosystem Services and Their Bundles Responding to Urbanization and Ecological Restoration in the Beijing-Tianjin-Hebei Metropolitan Area. <i>Sustainability</i> , 2019, 11, 2079.	1.6	8
42	Kinetic study of the thermal inactivation of <i>Lactobacillus plantarum</i> during bread baking. <i>Drying Technology</i> , 2019, 37, 1277-1289.	1.7	8
43	Maximising the benefits of regulatory ecosystem services via spatial optimisation. <i>Journal of Cleaner Production</i> , 2021, 291, 125272.	4.6	8
44	How urbanization affect the ecosystem health of Tibet based on terrain gradients: a case study of Shannan, China. <i>Ecosystem Health and Sustainability</i> , 2022, 8, .	1.5	7
45	Species bias and spillover effects in scientific research on Carnivora in China. <i>Zoological Research</i> , 2021, 42, 354-361.	0.9	6
46	The relation between the content of organic phosphorus and latitude in Northeast China phaeozem. <i>Biology and Fertility of Soils</i> , 2005, 42, 159-162.	2.3	5
47	Spatial distribution and seasonal movement patterns of reintroduced Chinese giant salamanders. <i>BMC Zoology</i> , 2019, 4, .	0.3	5
48	Steering the formation of cellobiose and oligosaccharides during enzymatic hydrolysis of asparagus fibre. <i>LWT - Food Science and Technology</i> , 2022, 160, 113273.	2.5	5
49	Isolation and characterization of microsatellite markers in an endangered species <i>Dracaena cambodiana</i> (Liliaceae). <i>American Journal of Botany</i> , 2010, 97, e91-3.	0.8	4
50	Reply to Bridgewater and Babin: Need for a new protected area category for ecosystem services. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E4319-E4320.	3.3	4
51	Environmental Characteristics Associated with Settlement of Reintroduced Chinese Giant Salamanders. <i>Journal of Herpetology</i> , 2017, 51, 417-424.	0.2	4
52	Fencing for conservation? The impacts of fencing on grasslands and the endangered Przewalski's gazelle on the Tibetan Plateau. <i>Science China Life Sciences</i> , 2018, 61, 1593-1595.	2.3	4
53	Long-term effects of combining gypsuming with brackish ice irrigation on soil desalinization and crop growth in abandoned saline-sodic land. <i>Archives of Agronomy and Soil Science</i> , 2021, 67, 2033-2047.	1.3	4
54	Linking Dietary Patterns to Environmental Degradation: The Spatiotemporal Analysis of Rural Food Nitrogen Footprints in China. <i>Frontiers in Nutrition</i> , 2021, 8, 717640.	1.6	4

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55	Methodology for accounting the net mitigation of China's ecological restoration projects (CANM-EP). <i>MethodsX</i> , 2019, 6, 1753-1773.	0.7	3
56	Distribution and population status of Przewalski's gazelle, <i>Procapra przewalskii</i> (Cetartiodactyla). <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf</i>	0.8	2
57	Abiotic and Biotic Influences on the Movement of Reintroduced Chinese Giant Salamanders ( <i>Andrias</i> ). <i>Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf</i>	1.0	2
58	Recent developments in functional bakery products and the impact of baking on active ingredients. , 0, , .		2
59	Living in forests: strata use by Indo-Chinese gray langurs (&lt;i>Trachypithecus). <i>Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 587 Tf</i> terrestrality. <i>Zoological Research</i> , 2020, 41, 373-380.	0.9	2
60	Reply to Yang et al.: Coastal wetlands are not well represented by protected areas for endangered birds. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E5493-E5493.	3.3	1
61	Conservation outcomes assessment of Sanjiangyuan alpine grassland with MODIS-EVI approach. <i>Biodiversity Science</i> , 2018, 26, 149-157.	0.2	1