

# Ying Zhao

## List of Publications by Year in descending order

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49  
papers

1,746  
citations

279798

23  
h-index

276875

41  
g-index

55  
all docs

55  
docs citations

55  
times ranked

1870  
citing authors

#	ARTICLE	IF	CITATIONS
1	A review on modeling of electro-chemo-mechanics in lithium-ion batteries. <i>Journal of Power Sources</i> , 2019, 413, 259-283.	7.8	257
2	Effects of straw and plastic film mulching on greenhouse gas emissions in Loess Plateau, China: A field study of 2 consecutive wheat-maize rotation cycles. <i>Science of the Total Environment</i> , 2017, 579, 814-824.	8.0	177
3	A strategy of selective and dendrite-free lithium deposition for lithium batteries. <i>Nano Energy</i> , 2017, 42, 262-268.	16.0	90
4	Crop yield and water use efficiency under aerated irrigation: A meta-analysis. <i>Agricultural Water Management</i> , 2018, 210, 158-164.	5.6	74
5	The non-symmetric Nitsche method for the parameter-free imposition of weak boundary and coupling conditions in immersed finite elements. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2016, 309, 625-652.	6.6	71
6	The incorrect usage of singular spectral analysis and discrete wavelet transform in hybrid models to predict hydrological time series. <i>Journal of Hydrology</i> , 2017, 552, 44-51.	5.4	71
7	Effects of surface tension and electrochemical reactions in Li-ion battery electrode nanoparticles. <i>Journal of Power Sources</i> , 2016, 332, 154-169.	7.8	66
8	Evaluation of orange peel waste and its biochar on greenhouse gas emissions and soil biochemical properties within a loess soil. <i>Waste Management</i> , 2019, 87, 125-134.	7.4	59
9	Isogeometric analysis of mechanically coupled Cahn-Hilliard phase segregation in hyperelastic electrodes of Li-ion batteries. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2015, 297, 325-347.	6.6	56
10	Phase-field study of electrochemical reactions at exterior and interior interfaces in Li-ion battery electrode particles. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2016, 312, 428-446.	6.6	52
11	Modeling impacts of mulching and climate change on crop production and N <sub>2</sub> O emission in the Loess Plateau of China. <i>Agricultural and Forest Meteorology</i> , 2019, 268, 86-97.	4.8	46
12	Effects of continuous plastic mulching on crop growth in a winter wheat-summer maize rotation system on the Loess Plateau of China. <i>Agricultural and Forest Meteorology</i> , 2019, 271, 385-397.	4.8	43
13	Dynamic pull-in instability of a prestretched viscous dielectric elastomer under electric loading. <i>Acta Mechanica</i> , 2017, 228, 4293-4307.	2.1	40
14	A new thermal conductivity model for sandy and peat soils. <i>Agricultural and Forest Meteorology</i> , 2019, 274, 95-105.	4.8	40
15	Phase field modeling of electrochemically induced fracture in Li-ion battery with large deformation and phase segregation. <i>GAMM Mitteilungen</i> , 2016, 39, 92-109.	5.5	37
16	A Lithium-Ion Pump Based on Piezoelectric Effect for Improved Rechargeability of Lithium Metal Anode. <i>Advanced Science</i> , 2019, 6, 1901120.	11.2	36
17	Simulation of soil water and heat flow in ridge cultivation with plastic film mulching system on the Chinese Loess Plateau. <i>Agricultural Water Management</i> , 2018, 202, 99-112.	5.6	35
18	Contrasting adaptive strategies by <i>Caragana korshinskii</i> and <i>Salix psammophila</i> in a semiarid revegetated ecosystem. <i>Agricultural and Forest Meteorology</i> , 2021, 300, 108323.	4.8	34

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19	Using the double-exponential water retention equation to determine how soil pore-size distribution is linked to soil texture. <i>Soil and Tillage Research</i> , 2016, 156, 119-130.	5.6	32
20	Straw and biochar effects on soil properties and tomato seedling growth under different moisture levels. <i>Archives of Agronomy and Soil Science</i> , 2019, 65, 1704-1719.	2.6	27
21	Lithiation across interconnected $V_2O_5$ nanoparticle networks. <i>Journal of Materials Chemistry A</i> , 2017, 5, 20141-20152.	10.3	26
22	A phase field electro-chemo-mechanical formulation for predicting void evolution at the Li <sup>+</sup> electrolyte interface in all-solid-state batteries. <i>Journal of the Mechanics and Physics of Solids</i> , 2022, 167, 104999.	4.8	26
23	Electrochemo-Mechanical Properties of Red Phosphorus Anodes in Lithium, Sodium, and Potassium Ion Batteries. <i>Matter</i> , 2020, 3, 2012-2028.	10.0	25
24	Modeling of Coupled Water and Heat Transfer in Freezing and Thawing Soils, Inner Mongolia. <i>Water (Switzerland)</i> , 2016, 8, 424.	2.7	24
25	Modeling of phase separation across interconnected electrode particles in lithium-ion batteries. <i>RSC Advances</i> , 2017, 7, 41254-41264.	3.6	24
26	Co-Application of Milk Tea Waste and NPK Fertilizers to Improve Sandy Soil Biochemical Properties and Wheat Growth. <i>Molecules</i> , 2019, 24, 423.	3.8	23
27	Plant Water Use Strategy in Response to Spatial and Temporal Variation in Precipitation Patterns in China: A Stable Isotope Analysis. <i>Forests</i> , 2018, 9, 123.	2.1	21
28	Combined Effects of Mulch and Tillage on Soil Hydrothermal Conditions under Drip Irrigation in Hetao Irrigation District, China. <i>Water (Switzerland)</i> , 2016, 8, 504.	2.7	20
29	Insights into the isotopic mismatch between bulk soil water and <i>Salix matsudana</i> & <i>Koide</i> trunk water from root water stable isotope measurements. <i>Hydrology and Earth System Sciences</i> , 2021, 25, 3975-3989.	4.9	20
30	Variational boundary conditions based on the Nitsche method for fitted and unfitted isogeometric discretizations of the mechanically coupled Cahn–Hilliard equation. <i>Journal of Computational Physics</i> , 2017, 340, 177-199.	3.8	18
31	Litter decomposition and nutrient dynamics of three woody halophytes in the Taklimakan Desert Highway Shelterbelt. <i>Arid Land Research and Management</i> , 2017, 31, 335-351.	1.6	18
32	Effects of Different Biochars on Wheat Growth Parameters, Yield and Soil Fertility Status in a Silty Clay Loam Soil. <i>Molecules</i> , 2019, 24, 1798.	3.8	18
33	Temporal variability of water footprint for cereal production and its controls in Saskatchewan, Canada. <i>Science of the Total Environment</i> , 2019, 660, 1306-1316.	8.0	17
34	Water Footprint for Pulse, Cereal, and Oilseed Crops in Saskatchewan, Canada. <i>Water (Switzerland)</i> , 2018, 10, 1609.	2.7	13
35	Review on Modeling for Chemo-mechanical Behavior at Interfaces of All-Solid-State Lithium-Ion Batteries and Beyond. <i>ACS Omega</i> , 2022, 7, 6455-6462.	3.5	12
36	Tree rings: A key ecological indicator for reconstruction of groundwater depth in the lower Tarim River, Northwest China. <i>Ecohydrology</i> , 2019, 12, e2142.	2.4	11

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37	Using isotopic labeling to investigate root water uptake in an alley cropping system within Taklimakan Desert Oasis, China. <i>Agroforestry Systems</i> , 2021, 95, 907-918.	2.0	10
38	Effect of shifting sand burial on soil evaporation and moisture salt distribution in a hyper-arid desert. <i>Environmental Earth Sciences</i> , 2016, 75, 1.	2.7	9
39	Highly stretchable and rehealable wearable strain sensor based on dynamic covalent thermoset and liquid metal. <i>Smart Materials and Structures</i> , 2021, 30, 105001.	3.5	9
40	Spatial Heterogeneity and Driving Factors of Soil Moisture in Alpine Desert Using the Geographical Detector Method. <i>Water (Switzerland)</i> , 2021, 13, 2652.	2.7	9
41	An incorrect wetness-based correction method for deuterium offset. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	8
42	Soil aggregation formation in relation to planting time, water salinity, and species in the Taklimakan Desert Highway shelterbelt. <i>Journal of Soils and Sediments</i> , 2018, 18, 1466-1477.	3.0	7
43	Photosynthetic Responses of Two Woody Halophyte Species to Saline Groundwater Irrigation in the Taklimakan Desert. <i>Water (Switzerland)</i> , 2022, 14, 1385.	2.7	7
44	Effect of combining straw derived materials and wood ash on alkaline soil carbon content and the microbial community. <i>European Journal of Soil Science</i> , 2021, 72, 1863-1878.	3.9	6
45	Effects of Irrigation Regimes on Soil Water Dynamics of Two Typical Woody Halophyte Species in Taklimakan Desert Highway Shelterbelt. <i>Water (Switzerland)</i> , 2022, 14, 1908.	2.7	6
46	Rapid-Heating-Triggered <i>in Situ</i> Solid-State Transformation of Amorphous TiO <sub>2</sub> Nanotubes into Well-Defined Anatase Nanocrystals. <i>Crystal Growth and Design</i> , 2019, 19, 1086-1094.	3.0	4
47	An Empirical Orthogonal Function-Based Approach for Spatially- and Temporally-Extensive Soil Moisture Data Combination. <i>Water (Switzerland)</i> , 2020, 12, 2919.	2.7	4
48	A compliant and low-expansion 2-phase micro-architected material, with potential application to solid-state Li-ion batteries. <i>Journal of the Mechanics and Physics of Solids</i> , 2022, 158, 104683.	4.8	4
49	An Artificial Oasis in a Deadly Desert: Practices and Enlightenment. <i>Water (Switzerland)</i> , 2022, 14, 2237.	2.7	4