

# Ying Zhao

## List of Publications by Year in descending order

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Version: 2024-02-01

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 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         |
| 2  | 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        |
| 3  | 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         |
| 4  | 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         |
| 5  | An Artificial Oasis in a Deadly Desert: Practices and Enlightenments. <i>Water (Switzerland)</i> , 2022, 14, 2237.   | 2.7  | 4         |
| 6  | 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        |
| 7  | 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        |
| 8  | 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         |
| 9  | 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        |
| 10 | Insights into the isotopic mismatch between bulk soil water and <i>Salix matsudana</i> trunk water from root water stable isotope measurements. <i>Hydrology and Earth System Sciences</i> , 2021, 25, 3975-3989.                      | 4.9  | 20        |
| 11 | 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         |
| 12 | 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         |
| 13 | 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         |
| 14 | Electrochemo-Mechanical Properties of Red Phosphorus Anodes in Lithium, Sodium, and Potassium Ion Batteries. <i>Matter</i> , 2020, 3, 2012-2028.   | 10.0 | 25        |
| 15 | 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         |
| 16 | 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        |
| 17 | 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        |
| 18 | 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        |

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|----|--|------|-----------|
| 19 | Straw and biochar effects on soil properties and tomato seedling growth under different moisture levels. Archives of Agronomy and Soil Science, 2019, 65, 1704-1719.   | 2.6  | 27        |
| 20 | A new thermal conductivity model for sandy and peat soils. Agricultural and Forest Meteorology, 2019, 274, 95-105.   | 4.8  | 40        |
| 21 | Effects of Different Biochars on Wheat Growth Parameters, Yield and Soil Fertility Status in a Silty Clay Loam Soil. Molecules, 2019, 24, 1798.  | 3.8  | 18        |
| 22 | Effects of continuous plastic mulching on crop growth in a winter wheat-summer maize rotation system on the Loess Plateau of China. Agricultural and Forest Meteorology, 2019, 271, 385-397.                               | 4.8  | 43        |
| 23 | Evaluation of orange peel waste and its biochar on greenhouse gas emissions and soil biochemical properties within a loess soil. Waste Management, 2019, 87, 125-134.  | 7.4  | 59        |
| 24 | A review on modeling of electro-chemo-mechanics in lithium-ion batteries. Journal of Power Sources, 2019, 413, 259-283.  | 7.8  | 257       |
| 25 | Rapid-Heating-Triggered <i>in Situ</i> Solid-State Transformation of Amorphous TiO <sub>2</sub> Nanotubes into Well-Defined Anatase Nanocrystals. Crystal Growth and Design, 2019, 19, 1086-1094.                          | 3.0  | 4         |
| 26 | Modeling impacts of mulching and climate change on crop production and N <sub>2</sub> O emission in the Loess Plateau of China. Agricultural and Forest Meteorology, 2019, 268, 86-97.                                     | 4.8  | 46        |
| 27 | Temporal variability of water footprint for cereal production and its controls in Saskatchewan, Canada. Science of the Total Environment, 2019, 660, 1306-1316.  | 8.0  | 17        |
| 28 | Soil aggregation formation in relation to planting time, water salinity, and species in the Taklimakan Desert Highway shelterbelt. Journal of Soils and Sediments, 2018, 18, 1466-1477.                                    | 3.0  | 7         |
| 29 | Simulation of soil water and heat flow in ridge cultivation with plastic film mulching system on the Chinese Loess Plateau. Agricultural Water Management, 2018, 202, 99-112.  | 5.6  | 35        |
| 30 | Water Footprint for Pulse, Cereal, and Oilseed Crops in Saskatchewan, Canada. Water (Switzerland), 2018, 10, 1609.   | 2.7  | 13        |
| 31 | Plant Water Use Strategy in Response to Spatial and Temporal Variation in Precipitation Patterns in China: A Stable Isotope Analysis. Forests, 2018, 9, 123.   | 2.1  | 21        |
| 32 | Crop yield and water use efficiency under aerated irrigation: A meta-analysis. Agricultural Water Management, 2018, 210, 158-164.  | 5.6  | 74        |
| 33 | Variational boundary conditions based on the Nitsche method for fitted and unfitted isogeometric discretizations of the mechanically coupled Cahn-Hilliard equation. Journal of Computational Physics, 2017, 340, 177-199. | 3.8  | 18        |
| 34 | Litter decomposition and nutrient dynamics of three woody halophytes in the Taklimakan Desert Highway Shelterbelt. Arid Land Research and Management, 2017, 31, 335-351.   | 1.6  | 18        |
| 35 | The incorrect usage of singular spectral analysis and discrete wavelet transform in hybrid models to predict hydrological time series. Journal of Hydrology, 2017, 552, 44-51.   | 5.4  | 71        |
| 36 | A strategy of selective and dendrite-free lithium deposition for lithium batteries. Nano Energy, 2017, 42, 262-268.  | 16.0 | 90        |

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|----|---|------|-----------|
| 37 | Modeling of phase separation across interconnected electrode particles in lithium-ion batteries. RSC Advances, 2017, 7, 41254-41264.  | 3.6  | 24        |
| 38 | Lithiation across interconnected $V_2O_5$ nanoparticle networks. Journal of Materials Chemistry A, 2017, 5, 20141-20152.  | 10.3 | 26        |
| 39 | Dynamic pull-in instability of a prestretched viscous dielectric elastomer under electric loading. Acta Mechanica, 2017, 228, 4293-4307.  | 2.1  | 40        |
| 40 | 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. Science of the Total Environment, 2017, 579, 814-824.   | 8.0  | 177       |
| 41 | Modeling of Coupled Water and Heat Transfer in Freezing and Thawing Soils, Inner Mongolia. Water (Switzerland), 2016, 8, 424.   | 2.7  | 24        |
| 42 | Combined Effects of Mulch and Tillage on Soil Hydrothermal Conditions under Drip Irrigation in Hetao Irrigation District, China. Water (Switzerland), 2016, 8, 504.   | 2.7  | 20        |
| 43 | Phase field modeling of electrochemically induced fracture in Li-ion battery with large deformation and phase segregation. GAMM Mitteilungen, 2016, 39, 92-109.   | 5.5  | 37        |
| 44 | Effects of surface tension and electrochemical reactions in Li-ion battery electrode nanoparticles. Journal of Power Sources, 2016, 332, 154-169.   | 7.8  | 66        |
| 45 | The non-symmetric Nitsche method for the parameter-free imposition of weak boundary and coupling conditions in immersed finite elements. Computer Methods in Applied Mechanics and Engineering, 2016, 309, 625-652. | 6.6  | 71        |
| 46 | Effect of shifting sand burial on soil evaporation and moisture-salt distribution in a hyper-arid desert. Environmental Earth Sciences, 2016, 75, 1.  | 2.7  | 9         |
| 47 | Phase-field study of electrochemical reactions at exterior and interior interfaces in Li-ion battery electrode particles. Computer Methods in Applied Mechanics and Engineering, 2016, 312, 428-446.                | 6.6  | 52        |
| 48 | Using the double-exponential water retention equation to determine how soil pore-size distribution is linked to soil texture. Soil and Tillage Research, 2016, 156, 119-130.  | 5.6  | 32        |
| 49 | Isogeometric analysis of mechanically coupled Cahn-Hilliard phase segregation in hyperelastic electrodes of Li-ion batteries. Computer Methods in Applied Mechanics and Engineering, 2015, 297, 325-347.            | 6.6  | 56        |