Jie-sheng Huang

List of Publications by Year
in descending order

37 papers	609 citations	516710 16 h-index	642732 23 g-index
37 all docs	37 docs citations	37 times ranked	624 citing authors

#	Article	IF	Citations
1	Soil salt leaching under different irrigation regimes: HYDRUS-1D modelling and analysis. Journal of Arid Land, 2014, 6, 44-58.	2.3	57
2	Prediction of Soil Moisture Content and Soil Salt Concentration from Hyperspectral Laboratory and Field Data. Remote Sensing, 2016, 8, 42.	4.0	42
3	Sunflower seed yield estimation under the interaction of soil salinity and nitrogen application. Field Crops Research, 2016, 198, 1-15.	5.1	40
4	Impacts of Salinity and Nitrogen on the Photosynthetic Rate and Growth of Sunflowers (Helianthus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	4.0	37
5	On the effectiveness of dry drainage in soil salinity control. Science in China Series D: Earth Sciences, 2009, 52, 3328-3334.	0.9	34
6	Emergence Rate, Yield, and Nitrogen-Use Efficiency of Sunflowers (*Helianthus annuus*) Vary with Soil Salinity and Amount of Nitrogen Applied. Communications in Soil Science and Plant Analysis, 2015, 46, 1006-1023.	1.4	27
7	A numerical model for water and heat transport in freezing soils with nonequilibrium ice–water interfaces. Water Resources Research, 2016, 52, 7366-7381.	4.2	26
8	Comparison of partial least square regression, support vector machine, and deep-learning techniques for estimating soil salinity from hyperspectral data. Journal of Applied Remote Sensing, 2018, 12, 1.	1.3	26
9	Effect of low–concentration rhamnolipid biosurfactant on *P*seudomonas aeruginosa transport in natural porous media. Water Resources Research, 2017, 53, 361-375.	4.2	25
10	Responses of the Soil Microbial Community to Salinity Stress in Maize Fields. Biology, 2021, 10, 1114.	2.8	25
11	Shoot and Root Biomass Allocation of Sunflower Varying with Soil Salinity and Nitrogen Applications. Agronomy Journal, 2017, 109, 2545-2555.	1.8	21
12	An Experimental Study on Concrete and Geomembrane Lining Effects on Canal Seepage in Arid Agricultural Areas. Water (Switzerland), 2020, 12, 2343.	2.7	21
13	Predicting Near–Surface Moisture Content of Saline Soils from Near–Infrared Reflectance Spectra with a Modified Gaussian Model. Soil Science Society of America Journal, 2016, 80, 1496-1506.	2.2	18
14	Quantification of Leaf Growth, Height Increase, and Compensatory Root Water Uptake of Sunflower in Heterogeneous Saline Soils. Agronomy Journal, 2019, 111, 1010-1027.	1.8	18
15	Five-Year Experimental Study on Effectiveness and Sustainability of a Dry Drainage System for Controlling Soil Salinity. Water (Switzerland), 2019, 11, 111.	2.7	17
16	Predicting the Rooting Depth, Dynamic Root Distribution and the Yield of Sunflower under Different Soil Salinity and Nitrogen Applications. Industrial Crops and Products, 2021, 170, 113749.	5.2	17
17	Determination of Growth Stage-Specific Crop Coefficients (Kc) of Sunflowers (Helianthus annuus L.) under Salt Stress. Water (Switzerland), 2017, 9, 215.	2.7	16
18	Patterns of nitrogen export from a seasonal freezing agricultural watershed during the thawing period. Science of the Total Environment, 2017, 599-600, 442-450.	8.0	15

#	ARTICLE	IF	CITATIONS
19	Constraining Parameter Uncertainty in Simulations of Water and Heat Dynamics in Seasonally Frozen Soil Using Limited Observed Data. Water (Switzerland), 2016, 8, 64.	2.7	13
20	Sensitivity analysis of the SWAP (Soil-Water-Atmosphere-Plant) model under different nitrogen applications and root distributions in saline soils. Pedosphere, 2021, 31, 807-821.	4.0	13
21	Sunflower Photosynthetic Characteristics, Nitrogen Uptake, and Nitrogen Use Efficiency under Different Soil Salinity and Nitrogen Applications. Water (Switzerland), 2022, 14, 982.	2.7	13
22	Design of a new TDR probe to measure water content and electrical conductivity in highly saline soils. Journal of Soils and Sediments, 2018, 18, 1087-1099.	3.0	11
23	Estimating parameters for the Kostiakov-Lewis infiltration model from soil physical properties. Journal of Soils and Sediments, 2020, 20, 166-180.	3.0	11
24	The effects of slope shape and polyacrylamide application on runoff, erosion and nutrient loss from hillslopes under simulated rainfall. Hydrological Processes, 2021, 35, e14130.	2.6	11
25	Effects of Different Irrigation Strategies on Soil Water, Salt, and Nitrate Nitrogen Transport. Ecological Chemistry and Engineering S, 2015, 22, 589-609.	1.5	8
26	Hyperspectral reflectance models for soil salt content by filtering methods and waveband selection. Ecological Chemistry and Engineering S, 2016, 23, 117-130.	1.5	8
27	Testing and Improving the WOFOST Model for Sunflower Simulation on Saline Soils of Inner Mongolia, China. Agronomy, 2018, 8, 172.	3.0	8
28	Experimental study on the distribution of soil nitrate and ammonium nitrogen under controlled drainage. Wuhan University Journal of Natural Sciences, 2009, 14, 532-536.	0.4	7
29	Optimized Main Ditch Water Control for Agriculture in Northern Huaihe River Plain, Anhui Province, China, Using MODFLOW Groundwater Table Simulations. Water (Switzerland), 2022, 14, 29.	2.7	5
30	Combined effects of temperature and precipitation on the spring runoff generation process in a seasonal freezing agricultural watershed. Environmental Earth Sciences, 2021, 80, 1.	2.7	4
31	Coupled water transport and heat flux in seasonally frozen soils: uncertainties identification in multi-site calibration. Environmental Earth Sciences, 2020, 79, 1.	2.7	3
32	Assessing parametric and nitrogen fertilizer input uncertainties in the ORYZA_V3 model predictions. Agronomy Journal, 2021, 113, 4965-4981.	1.8	3
33	Simulating root length density dynamics of sunflower in saline soils based on machine learning. Computers and Electronics in Agriculture, 2022, 197, 106918.	7.7	3
34	Relating soil salinity, clay content and water vapour sorption isotherms. European Journal of Soil Science, 2020, 71, 399-414.	3.9	2
35	Development and environmental implication of pedotransfer functions of Cd desorption rate coefficients in historically polluted soils. Environmental Pollution, 2020, 257, 113602.	7.5	2
36	Strategy of subsurface pipe drainage system to alleviate soil salinization based on the DRAINMOD model*. Irrigation and Drainage, 2022, 71, 120-136.	1.7	2

#	Article	IF	Citations
37	Parameter Sensitivity and Uncertainty of Radiation Interception Models for Intercropping System. Ecological Chemistry and Engineering S, 2020, 27, 437-456.	1.5	0