

Hongbo Shao

List of Publications by Year in descending order

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105
papers

4,545
citations

126858

33
h-index

114418

63
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105
all docs

105
docs citations

105
times ranked

5868
citing authors

#	ARTICLE	IF	CITATIONS
1	Improving soil fertility by driving microbial community changes in saline soils of Yellow River Delta under petroleum pollution. <i>Journal of Environmental Management</i> , 2022, 304, 114265.	3.8	6
2	Applications of Plant Protein in the Dairy Industry. <i>Foods</i> , 2022, 11, 1067.	1.9	7
3	Changes of sensitive microbial community in oil polluted soil in the coastal area in Shandong, China for ecorestoration. <i>Ecotoxicology and Environmental Safety</i> , 2021, 207, 111551.	2.9	18
4	Determining the influencing factors of preferential flow in ground fissures for coal mine dump eco-engineering. <i>PeerJ</i> , 2021, 9, e10547.	0.9	2
5	Characterization of Interactions between the Soybean Salt-Stress Responsive Membrane-Intrinsic Proteins GmPIP1 and GmPIP2. <i>Agronomy</i> , 2021, 11, 1312.	1.3	2
6	Anaerobic-petroleum degrading bacteria: Diversity and biotechnological applications for improving coastal soil. <i>Ecotoxicology and Environmental Safety</i> , 2021, 224, 112646.	2.9	12
7	Molecular cloning and functional analyses of the salt-responsive gene <i>KVHSP70</i> from <i>Kosteletzkya virginica</i> . <i>Land Degradation and Development</i> , 2020, 31, 773-782.	1.8	6
8	Dynamics in soil quality and crop physiology under poplar-agriculture tillage models in coastal areas of Jiangsu, China. <i>Soil and Tillage Research</i> , 2020, 204, 104733.	2.6	7
9	Soil nutrient stoichiometry on linear sand dunes from a temperate desert in Central Asia. <i>Catena</i> , 2020, 195, 104847.	2.2	23
10	Oil crop genetic modification for producing added value lipids. <i>Critical Reviews in Biotechnology</i> , 2020, 40, 777-786.	5.1	9
11	TaHsfA2-1, a new gene for thermotolerance in wheat seedlings: Characterization and functional roles. <i>Journal of Plant Physiology</i> , 2020, 246-247, 153135.	1.6	18
12	ZmHsf05, a new heat shock transcription factor from <i>Zea mays</i> L. improves thermotolerance in <i>Arabidopsis thaliana</i> and rescues thermotolerance defects of the <i>atsfa2</i> mutant. <i>Plant Science</i> , 2019, 283, 375-384.	1.7	42
13	GABA-Alleviated Oxidative Injury Induced by Salinity, Osmotic Stress and their Combination by Regulating Cellular and Molecular Signals in Rice. <i>International Journal of Molecular Sciences</i> , 2019, 20, 5709.	1.8	82
14	Towards sustainable agriculture for the salt-affected soil. <i>Land Degradation and Development</i> , 2019, 30, 574-579.	1.8	41
15	Distribution of cadmium, copper, lead, and zinc in mudflat salt-soils amended with sewage sludge. <i>Land Degradation and Development</i> , 2018, 29, 1120-1129.	1.8	8
16	Surface erosion and underground leakage of yellow soil on slopes in karst regions of southwest China. <i>Land Degradation and Development</i> , 2018, 29, 2438-2448.	1.8	61
17	Genetically engineering <i>Crambe abyssinica</i> —A potentially high-value oil crop for salt land improvement. <i>Land Degradation and Development</i> , 2018, 29, 1096-1106.	1.8	14
18	Periphyton-induced changes in the phosphorus sorption characteristics of a paddy soil from coastal mudflat reclamation. <i>Land Degradation and Development</i> , 2018, 29, 4209-4218.	1.8	3

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19	Forms and vertical distributions of soil phosphorus in newly formed coastal wetlands in the Yellow River Delta estuary. <i>Land Degradation and Development</i> , 2018, 29, 4219-4226.	1.8	13
20	Nonadditive effects of biochar amendments on soil phosphorus fractions in two contrasting soils. <i>Land Degradation and Development</i> , 2018, 29, 2720-2727.	1.8	22
21	Paddy periphyton: Potential roles for salt and nutrient management in degraded mudflats from coastal reclamation. <i>Land Degradation and Development</i> , 2018, 29, 2932-2941.	1.8	16
22	Analysis of saline groundwater infiltration into two loam soils. <i>Land Degradation and Development</i> , 2018, 29, 3795-3802.	1.8	9
23	Eastern China coastal mudflats: Soil amendment with sewage sludge. <i>Land Degradation and Development</i> , 2018, 29, 3803-3811.	1.8	11
24	Physiological and transcriptional responses to salt stress in salt-tolerant and salt-sensitive soybean (<i>Glycine max</i> [L.] Merr.) seedlings. <i>Land Degradation and Development</i> , 2018, 29, 2707-2719.	1.8	18
25	Soil enzymes as indicators of saline soil fertility under various soil amendments. <i>Agriculture, Ecosystems and Environment</i> , 2017, 237, 274-279.	2.5	148
26	Effects of Underground Pore Fissures on Soil Erosion and Sediment Yield on Karst Slopes. <i>Land Degradation and Development</i> , 2017, 28, 1922-1932.	1.8	45
27	Integration into plant biology and soil science has provided insights into the total environment. <i>Science of the Total Environment</i> , 2017, 579, 928-929.	3.9	9
28	Applying hyperspectral imaging to explore natural plant diversity towards improving salt stress tolerance. <i>Science of the Total Environment</i> , 2017, 578, 90-99.	3.9	86
29	Dynamic sediment discharge in the Hekou-Longmen region of Yellow River and soil and water conservation implications. <i>Science of the Total Environment</i> , 2017, 578, 56-66.	3.9	70
30	The effect of periphyton on seed germination and seedling growth of rice (<i>Oryza sativa</i>) in paddy area. <i>Science of the Total Environment</i> , 2017, 578, 74-80.	3.9	15
31	Sewage sludge as an initial fertility driver for rapid improvement of mudflat salt-soils. <i>Science of the Total Environment</i> , 2017, 578, 47-55.	3.9	76
32	Study of the water transportation characteristics of marsh saline soil in the Yellow River Delta. <i>Science of the Total Environment</i> , 2017, 574, 716-723.	3.9	16
33	Biochar applied with appropriate rates can reduce N leaching, keep N retention and not increase NH ₃ volatilization in a coastal saline soil. <i>Science of the Total Environment</i> , 2017, 575, 820-825.	3.9	214
34	The endogenous plant hormones and ratios regulate sugar and dry matter accumulation in Jerusalem artichoke in salt-soil. <i>Science of the Total Environment</i> , 2017, 578, 40-46.	3.9	34
35	Transport of Calcium Ions into Mitochondria. <i>Current Genomics</i> , 2016, 17, 215-219.	0.7	42
36	<i>KvLEA</i> , a New Isolated Late Embryogenesis Abundant Protein Gene from <i>Kosteletzkya virginica</i> Responding to Multiabiotic Stresses. <i>BioMed Research International</i> , 2016, 2016, 1-10.	0.9	13

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37	Recent Advances in Utilizing Transcription Factors to Improve Plant Abiotic Stress Tolerance by Transgenic Technology. <i>Frontiers in Plant Science</i> , 2016, 7, 67.	1.7	342
38	Soybean C2H2-Type Zinc Finger Protein GmZFP3 with Conserved QALGGH Motif Negatively Regulates Drought Responses in Transgenic Arabidopsis. <i>Frontiers in Plant Science</i> , 2016, 7, 325.	1.7	51
39	Salinity Tolerance Mechanism of Economic Halophytes From Physiological to Molecular Hierarchy for Improving Food Quality. <i>Current Genomics</i> , 2016, 17, 207-214.	0.7	51
40	Carbon sequestration and Jerusalem artichoke biomass under nitrogen applications in coastal saline zone in the northern region of Jiangsu, China. <i>Science of the Total Environment</i> , 2016, 568, 885-890.	3.9	21
41	Balance between salt stress and endogenous hormones influence dry matter accumulation in Jerusalem artichoke. <i>Science of the Total Environment</i> , 2016, 568, 891-898.	3.9	31
42	Soil-water interacting use patterns driven by <i>Ziziphus jujuba</i> on the Chenier Island in the Yellow River Delta, China. <i>Archives of Agronomy and Soil Science</i> , 2016, 62, 1614-1624.	1.3	10
43	Effects of biochar application on <i>Suaeda salsa</i> growth and saline soil properties. <i>Environmental Earth Sciences</i> , 2016, 75, 1.	1.3	45
44	Responses of periphyton morphology, structure, and function to extreme nutrient loading. <i>Environmental Pollution</i> , 2016, 214, 878-884.	3.7	20
45	Nâ€P stoichiometry in soil and leaves of <i>Pinus massoniana</i> forest at different stand ages in the subtropical soil erosion area of China. <i>Environmental Earth Sciences</i> , 2016, 75, 1.	1.3	40
46	The nuclear protein GmbZIP110 has transcription activation activity and plays important roles in the response to salinity stress in soybean. <i>Scientific Reports</i> , 2016, 6, 20366.	1.6	38
47	Effects of salt stress on eco-physiological characteristics in <i>Robinia pseudoacacia</i> based on salt-soil rhizosphere. <i>Science of the Total Environment</i> , 2016, 568, 118-123.	3.9	26
48	Negative interactive effects between biochar and phosphorus fertilization on phosphorus availability and plant yield in saline sodic soil. <i>Science of the Total Environment</i> , 2016, 568, 910-915.	3.9	139
49	Genome-wide characterization of the ankyrin repeats gene family under salt stress in soybean. <i>Science of the Total Environment</i> , 2016, 568, 899-909.	3.9	30
50	Temperature and moisture responses to carbon mineralization in the biochar-amended saline soil. <i>Science of the Total Environment</i> , 2016, 569-570, 390-394.	3.9	46
51	Phototrophic periphyton techniques combine phosphorous removal and recovery for sustainable salt-soil zone. <i>Science of the Total Environment</i> , 2016, 568, 838-844.	3.9	26
52	Pyrolysis temperature affects phosphorus transformation in biochar: Chemical fractionation and ³¹ P NMR analysis. <i>Science of the Total Environment</i> , 2016, 569-570, 65-72.	3.9	103
53	Nurseryâ€Box Total Fertilization Technology (NBTF) Application for Increasing Nitrogen Use Efficiency in Chinese Irrigated Riceland: Nâ€Soil Interactions. <i>Land Degradation and Development</i> , 2016, 27, 1255-1265.	1.8	5
54	Periphytic biofilm: A buffer for phosphorus precipitation and release between sediments and water. <i>Chemosphere</i> , 2016, 144, 2058-2064.	4.2	73

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55	NAC transcription factors in plant multiple abiotic stress responses: progress and prospects. <i>Frontiers in Plant Science</i> , 2015, 6, 902.	1.7	379
56	Winter Wheat Water Productivity Evaluated by the Developed Remote Sensing Evapotranspiration Model in Hebei Plain, China. <i>Scientific World Journal, The</i> , 2015, 2015, 1-10.	0.8	3
57	Environment-Living Organism's Interactions from Physiology to Genomics. <i>International Journal of Genomics</i> , 2015, 2015, 1-2.	0.8	2
58	Reference Gene Selection for qPCR Normalization of <i>Kosteletzkya virginica</i> under Salt Stress. <i>BioMed Research International</i> , 2015, 2015, 1-8.	0.9	14
59	Physiological Responses of <i>Kosteletzkya virginica</i> to Coastal Wetland Soil. <i>Scientific World Journal, The</i> , 2015, 2015, 1-9.	0.8	8
60	Silicon Improves Maize Photosynthesis in Saline-Alkaline Soils. <i>Scientific World Journal, The</i> , 2015, 2015, 1-6.	0.8	49
61	Support-Vector-Machine-Based Models for Modeling Daily Reference Evapotranspiration With Limited Climatic Data in Extreme Arid Regions. <i>Water Resources Management</i> , 2015, 29, 3195-3209.	1.9	111
62	Novel resistance mechanism of barley chlorina f104 antenna mutant against photoinhibition: possible role of new identified chloroplastic cpNrp protein. <i>Theoretical and Experimental Plant Physiology</i> , 2015, 27, 75-85.	1.1	3
63	Calculation of albedo on complex terrain using MODIS data: a case study in Taihang Mountain of China. <i>Environmental Earth Sciences</i> , 2015, 74, 6315-6324.	1.3	9
64	Global plant-responding mechanisms to salt stress: physiological and molecular levels and implications in biotechnology. <i>Critical Reviews in Biotechnology</i> , 2015, 35, 425-437.	5.1	265
65	A Novel Soybean Intrinsic Protein Gene, GmTIP2;3, Involved in Responding to Osmotic Stress. <i>Frontiers in Plant Science</i> , 2015, 6, 1237.	1.7	51
66	Global Gene Expression of <i>Kosteletzkya virginica</i> Seedlings Responding to Salt Stress. <i>PLoS ONE</i> , 2015, 10, e0124421.	1.1	17
67	Effects of Thinning Intensities on Soil Infiltration and Water Storage Capacity in a Chinese Pine-Oak Mixed Forest. <i>Scientific World Journal, The</i> , 2014, 2014, 1-7.	0.8	8
68	Effects of Age and Stand Density of Mother Trees on Early <i>Pinus thunbergii</i> Seedling Establishment in the Coastal Zone, China. <i>Scientific World Journal, The</i> , 2014, 2014, 1-9.	0.8	10
69	Differential Effects of Lichens versus Liverworts Epiphylls on Host Leaf Traits in the Tropical Montane Rainforest, Hainan Island, China. <i>Scientific World Journal, The</i> , 2014, 2014, 1-10.	0.8	2
70	Variation of Runoff and Precipitation in the Hekou-Longmen Region of the Yellow River Based on Elasticity Analysis. <i>Scientific World Journal, The</i> , 2014, 2014, 1-11.	0.8	14
71	Multivariate-Statistical Assessment of Heavy Metals for Agricultural Soils in Northern China. <i>Scientific World Journal, The</i> , 2014, 2014, 1-7.	0.8	20
72	Tissue Fractions of Cadmium in Two Hyperaccumulating Jerusalem Artichoke Genotypes. <i>Scientific World Journal, The</i> , 2014, 2014, 1-6.	0.8	1

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73	Antioxidative Activities and Active Compounds of Extracts from <i>Catalpa</i> Plant Leaves. Scientific World Journal, The, 2014, 2014, 1-7.	0.8	8
74	Effects of Silicon on Photosynthetic Characteristics of Maize (<i>Zea mays</i> L.) on Alluvial Soil. Scientific World Journal, The, 2014, 2014, 1-6.	0.8	36
75	Molecular Cloning and Bioinformatics Analysis of a New Plasma Membrane Na ⁺ /H ⁺ Antiporter Gene from the Halophyte <i>Kosteletzkya virginica</i> . Scientific World Journal, The, 2014, 2014, 1-7.	0.8	9
76	Functional Trait Trade-Offs for the Tropical Montane Rain Forest Species Responding to Light from Simulating Experiments. Scientific World Journal, The, 2014, 2014, 1-9.	0.8	9
77	Comparative Ecophysiological Study of Salt Stress for Wild and Cultivated Soybean Species from the Yellow River Delta, China. Scientific World Journal, The, 2014, 2014, 1-13.	0.8	15
78	An Integrated Use of Topography with RSI in Gully Mapping, Shandong Peninsula, China. Scientific World Journal, The, 2014, 2014, 1-9.	0.8	5
79	A Quantitative Study of Gully Erosion Based on Object-Oriented Analysis Techniques: A Case Study in Beiyanzikou Catchment of Qixia, Shandong, China. Scientific World Journal, The, 2014, 2014, 1-11.	0.8	13
80	Analysis of Phenolic Acids of Jerusalem Artichoke (<i>Helianthus tuberosus</i> L.) Responding to Salt-Stress by Liquid Chromatography/Tandem Mass Spectrometry. Scientific World Journal, The, 2014, 2014, 1-8.	0.8	34
81	Interactive Effects of Moss-Dominated Crusts and <i>Artemisia ordosica</i> on Wind Erosion and Soil Moisture in Mu Us Sandland, China. Scientific World Journal, The, 2014, 2014, 1-9.	0.8	6
82	Phosphorus Bioavailability and Release Potential Risk of the Sediments in the Coastal Wetland: A Case Study of Rongcheng Swan Lake, Shandong, China. Clean - Soil, Air, Water, 2014, 42, 963-972.	0.7	13
83	Biochar had effects on phosphorus sorption and desorption in three soils with differing acidity. Ecological Engineering, 2014, 62, 54-60.	1.6	287
84	<i>Eucalyptus</i> Trees and <i>Ageratina adenophora</i> Complex System: A New Eco-Environmental Protection Model. Clean - Soil, Air, Water, 2014, 42, 682-689.	0.7	3
85	Ecological Footprint Analysis Applied to a Coal Consumption County in China. Clean - Soil, Air, Water, 2014, 42, 1004-1013.	0.7	2
86	Regulating Environmental Factors of Nutrients Release from Wheat Straw Biochar for Sustainable Agriculture. Clean - Soil, Air, Water, 2013, 41, 697-701.	0.7	19
87	Physiological adaptive mechanisms of plants grown in saline soil and implications for sustainable saline agriculture in coastal zone. Acta Physiologiae Plantarum, 2013, 35, 2867-2878.	1.0	159
88	Phytoremediation of Cadmium-Contaminated Soil by Two Jerusalem Artichoke (<i>Helianthus</i>) Tj ETQq0 0 0 rgBT /Qverlock_10 Tf 50 1.	0.7	19
89	Variation of Antioxidant System in <i>Pinus armandii</i> under Elevated O ₃ in an Entire Growth Season. Clean - Soil, Air, Water, 2013, 41, 5-10.	0.7	6
90	Heavy Metal Pollution in Sediments from Aquatic Ecosystems in China. Clean - Soil, Air, Water, 2013, 41, 878-882.	0.7	43

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91	Physiological Mechanisms for High Salt Tolerance in Wild Soybean (<i>Glycine soja</i>) from Yellow River Delta, China: Photosynthesis, Osmotic Regulation, Ion Flux and antioxidant Capacity. <i>PLoS ONE</i> , 2013, 8, e83227.	1.1	67
92	Recent Advances in Biochar Applications in Agricultural Soils: Benefits and Environmental Implications. <i>Clean - Soil, Air, Water</i> , 2012, 40, 1093-1098.	0.7	143
93	Potential Retention and Release Capacity of Phosphorus in the Newly Formed Wetland Soils from the Yellow River Delta, China. <i>Clean - Soil, Air, Water</i> , 2012, 40, 1131-1136.	0.7	30
94	Dynamic Changes of Sediment Discharge and the Influencing Factors in the Yellow River, China, for the Recent 90 Years. <i>Clean - Soil, Air, Water</i> , 2012, 40, 303-309.	0.7	58
95	Improving Soil Enzyme Activities and Related Quality Properties of Reclaimed Soil by Applying Weathered Coal in Opencast Mining Areas of the Chinese Loess Plateau. <i>Clean - Soil, Air, Water</i> , 2012, 40, 233-238.	0.7	37
96	The Runoff Declining Process and Water Quality in Songhuajiang River Catchment, China under Global Climatic Change. <i>Clean - Soil, Air, Water</i> , 2012, 40, 394-401.	0.7	23
97	Magnetic Susceptibility and Heavy Metals Distribution from Risk Cultivated Soil around the Iron Steel Plant, China. <i>Clean - Soil, Air, Water</i> , 2012, 40, 615-618.	0.7	12
98	Soil Seed Banks and Forest Succession Direction Reflect Soil Quality in Ziwuling Mountain, Loess Plateau, China. <i>Clean - Soil, Air, Water</i> , 2012, 40, 140-147.	0.7	23
99	Dynamic Changes of <i>Stipa bungeana</i> Steppe Species Diversity as Better Indicators for Soil Quality and Sustainable Utilization Mode in Yunwu Mountain Nature Reserve, Ningxia, China. <i>Clean - Soil, Air, Water</i> , 2012, 40, 127-133.	0.7	18
100	Fractions and Bioavailability of Soil Inorganic Phosphorus in the Loess Plateau of China under Different Vegetations. <i>Acta Geologica Sinica</i> , 2011, 85, 263-270.	0.8	6
101	Impacts of Coal Mining on the Aboveground Vegetation and Soil Quality: A Case Study of Qinxin Coal Mine in Shanxi Province, China. <i>Clean - Soil, Air, Water</i> , 2011, 39, 219-225.	0.7	40
102	The Annual Characteristics of Rainwater HCHO in Guiyang City, Southwest of China. <i>Clean - Soil, Air, Water</i> , 2010, 38, 726-731.	0.7	3
103	Does Aqueous Phase Oxidation of HCHO Opens a Pathway to Formic Acids in Atmosphere?. <i>Clean - Soil, Air, Water</i> , 2010, 38, 1006-1009.	0.7	0
104	Evaporation Process in Soil Surface Containing Calcic Nodules on the Northern Loess Plateau of China by Simulated Experiments. <i>Clean - Soil, Air, Water</i> , 2009, 37, 866-871.	0.7	7
105	Modelling net primary productivity of terrestrial ecosystems in East Asia based on an improved CASA ecosystem model. <i>International Journal of Remote Sensing</i> , 2009, 30, 4851-4866.	1.3	111