Xiangwen Deng

List of Publications by Year in descending order

54 papers	1,479 citations	331670 21 h-index	361022 35 g-index
59 all docs	59 docs citations	59 times ranked	1972 citing authors

#	Article	IF	Citations
1	Higher canopy interception capacity of forests restored to the climax stage in subtropical China. Hydrological Processes, 2022, 36, .	2.6	8
2	Photosynthetic and hydraulic traits influence forest resistance and resilience to drought stress across different biomes. Science of the Total Environment, 2022, 828, 154517.	8.0	10
3	Effects of stand age on tree biomass partitioning and allometric equations in Chinese fir (Cunninghamia lanceolata) plantations. European Journal of Forest Research, 2021, 140, 317-332.	2.5	36
4	Stability in subtropical forests: The role of tree species diversity, stand structure, environmental and socioâ€economic conditions. Global Ecology and Biogeography, 2021, 30, 500-513.	5.8	43
5	Variation in wood physical properties and effects of climate for different geographic sources of Chinese fir in subtropical area of China. Scientific Reports, 2021, 11, 4664.	3.3	16
6	Predicting potential suitable habitats of Chinese fir under current and future climatic scenarios based on Maxent model. Ecological Informatics, 2021, 64, 101393.	5.2	53
7	Effect of Perforation Dyeing Technique on Color Difference, Colorfastness, and Basic Density of Living Red-Heart Chinese Fir. Forests, 2021, 12, 1721.	2.1	1
8	Soil Phosphorus Bioavailability and Recycling Increased with Stand Age in Chinese Fir Plantations. Ecosystems, 2020, 23, 973-988.	3.4	51
9	The soil properties and their effects on plant diversity in different degrees of rocky desertification. Science of the Total Environment, 2020, 736, 139667.	8.0	36
10	Calorific value variations in each component and biomass-based energy accumulation of red-heart Chinese fir plantations at different ages. Biomass and Bioenergy, 2020, 134, 105467.	5.7	10
11	Hydrological fluxes of dissolved organic carbon and total dissolved nitrogen in subtropical forests at three restoration stages in southern China. Journal of Hydrology, 2020, 583, 124656.	5.4	12
12	Monthly Radial Growth Model of Chinese Fir (Cunninghamia lanceolata (Lamb.) Hook.), and the Relationships between Radial Increment and Climate Factors. Forests, 2019, 10, 757.	2.1	14
13	Responses of species abundance distribution patterns to spatial scaling in subtropical secondary forests. Ecology and Evolution, 2019, 9, 5338-5347.	1.9	7
14	Effects of stand age, richness and density on productivity in subtropical forests in China. Journal of Ecology, 2019, 107, 2266-2277.	4.0	111
15	Variation in the functional traits of fine roots is linked to phylogenetics in the common tree species of Chinese subtropical forests. Plant and Soil, 2019, 436, 347-364.	3.7	24
16	Chemical Characteristics of Heartwood and Sapwood of Red-Heart Chinese Fir (<i>Cunninghamia) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	0.4	13
17	Quantification of Individual Tree Competition Index Taking Chinese-Fir Plantations in Subtropical Low Hilly Area as an Example. Polish Journal of Ecology, 2019, 67, 1.	0.2	6
18	Stand Transpiration Estimates from Recalibrated Parameters for the Granier Equation in a Chinese Fir (Cunninghamia lanceolata) Plantation in Southern China. Forests, 2018, 9, 162.	2.1	21

#	Article	IF	Citations
19	Effects of Forest Restoration on Soil Carbon, Nitrogen, Phosphorus, and Their Stoichiometry in Hunan, Southern China. Sustainability, 2018, 10, 1874.	3.2	33
20	Calcium content and high calcium adaptation of plants in karst areas of southwestern Hunan, China. Biogeosciences, 2018, 15, 2991-3002.	3.3	21
21	Allometric Equations for Applying Plot Inventory and Remote Sensing Data to Assess Coarse Root Biomass Energy in Subtropical Forests. Bioenergy Research, 2017, 10, 536-546.	3.9	9
22	Tree growth traits and social status affect the wood density of pioneer species in secondary subtropical forest. Ecology and Evolution, 2017, 7, 5366-5377.	1.9	20
23	Tree functional types simplify forest carbon stock estimates induced by carbon concentration variations among species in a subtropical area. Scientific Reports, 2017, 7, 4992.	3.3	17
24	Spatial variations in soil organic carbon, nitrogen and phosphorus concentrations related to stand characteristics in subtropical areas. Plant and Soil, 2017, 413, 289-301.	3.7	31
25	Growth process and model simulation of three different classes of Schima superba in a natural subtropical forest in China. IOP Conference Series: Earth and Environmental Science, 2017, 52, 012106.	0.3	0
26	Spatial and seasonal variations of leaf area index (LAI) in subtropical secondary forests related to floristic composition and stand characters. Biogeosciences, 2016, 13, 3819-3831.	3.3	22
27	Climate-driven increase of natural wetland methane emissions offset by human-induced wetland reduction in China over the past three decades. Scientific Reports, 2016, 6, 38020.	3.3	13
28	Significant effects of biodiversity on forest biomass during the succession of subtropical forest in south China. Forest Ecology and Management, 2016, 372, 291-302.	3.2	60
29	Species-specific and general allometric equations for estimating tree biomass components of subtropical forests in southern China. European Journal of Forest Research, 2016, 135, 963-979.	2.5	66
30	Effects of Topographic and Soil Factors on Woody Species Assembly in a Chinese Subtropical Evergreen Broadleaved Forest. Forests, 2015, 6, 650-669.	2.1	20
31	Growth and Heavy Metal Accumulation of Koelreuteria Paniculata Seedlings and Their Potential for Restoring Manganese Mine Wastelands in Hunan, China. International Journal of Environmental Research and Public Health, 2015, 12, 1726-1744.	2.6	9
32	Development and Evaluation of Models for the Relationship between Tree Height and Diameter at Breast Height for Chinese-Fir Plantations in Subtropical China. PLoS ONE, 2015, 10, e0125118.	2.5	23
33	Long-term variations of rainfall interception in different growth stages of Chinese fir plantations. Hydrological Sciences Journal, 2015, 60, 2178-2188.	2.6	15
34	Fine root interactions in subtropical mixed forests in China depend on tree species composition. Plant and Soil, 2015, 395, 335-349.	3.7	24
35	Soil N forms and gross transformation rates in Chinese subtropical forests dominated by different tree species. Plant and Soil, 2014, 384, 231-242.	3.7	21
36	Variations of wood basic density with tree age and social classes in the axial direction within Pinus massoniana stems in Southern China. Annals of Forest Science, 2014, 71, 505-516.	2.0	26

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37	Standing fine root mass and production in four Chinese subtropical forests along a succession and species diversity gradient. Plant and Soil, 2014, 376, 445-459.	3.7	69
38	Applying an artificial neural network to simulate and predict Chinese fir (Cunninghamia lanceolata) plantation carbon flux in subtropical China. Ecological Modelling, 2014, 294, 19-26.	2.5	19
39	Application of TRIPLEX model for predicting Cunninghamia lanceolata and Pinus massoniana forest stand production in Hunan Province, southern China. Ecological Modelling, 2013, 250, 58-71.	2.5	9
40	Methane emissions from rice paddies natural wetlands, lakes in China: synthesis new estimate. Global Change Biology, 2013, 19, 19-32.	9.5	166
41	Plant phenological modeling and its application in global climate change research: overview and future challenges. Environmental Reviews, 2013, 21, 1-14.	4.5	77
42	Secondary forest floristic composition, structure, and spatial pattern in subtropical China. Journal of Forest Research, 2013, 18, 111-120.	1.4	25
43	Effects of Increased Nitrogen Deposition and Rotation Length on Long-Term Productivity of Cunninghamia lanceolata Plantation in Southern China. PLoS ONE, 2013, 8, e55376.	2.5	16
44	Tree species effects on fine root decomposition and nitrogen release in subtropical forests in southern China. Plant Ecology and Diversity, 2012, 5, 323-331.	2.4	8
45	Simulations of runoff and evapotranspiration in Chinese fir plantation ecosystems using artificial neural networks. Ecological Modelling, 2012, 226, 71-76.	2.5	12
46	General allometric equations and biomass allocation of Pinus massoniana trees on a regional scale in southern China. Ecological Research, 2011, 26, 697-711.	1.5	48
47	Notice of Retraction: Short-Term Response of Koelreuteria paniculata Seedlings to Simulated Soils Polluted by Manganese Mining Wasteland in Central South China. , 2011, , .		0
48	Application of artificial neural networks in global climate change and ecological research: An overview. Science Bulletin, 2010, 55, 3853-3863.	1.7	55
49	Column Experiment Results on Metal Ion Migration at the Xiangtan Manganese Mine Wasteland in Central South China. International Conference on Bioinformatics and Biomedical Engineering: [proceedings] International Conference on Bioinformatics and Biomedical Engineering, 2010, , .	0.0	0
50	Heavy metal accumulation by panicled goldenrain tree (Koelreuteria paniculata) and common elaeocarpus (Elaeocarpus decipens) in abandoned mine soils in southern China. Journal of Environmental Sciences, 2009, 21, 340-345.	6.1	30
51	Effects of canopy interception on energy conversion processes in a Chinese fir plantation ecosystem. Frontiers of Forestry in China: Selected Publications From Chinese Universities, 2008, 3, 264-270.	0.2	3
52	Variation in runoff with age of Chinese fir plantations in Central South China. Hydrological Processes, 2008, 22, 4870-4876.	2.6	12
53	Role of canopy interception on water and nutrient cycling in Chinese fir plantation ecosystem. Frontiers of Forestry in China: Selected Publications From Chinese Universities, 2007, 2, 448-452.	0.2	1
54	Cunninghamia lanceolata variant with red-heart wood: a mini-review. Dendrobiology, 0, 79, 156-167.	0.6	12