Arshad Ali

List of Publications by Citations

76 papers	1,078 citations	19 h-index	29 g-index
92 ext. papers	1,532 ext. citations	5.1 avg, IF	5.35 L-index

#	Paper	IF	Citations
76	Stand structural diversity rather than species diversity enhances aboveground carbon storage in secondary subtropical forests in Eastern China. *Biogeosciences*, **2016**, 13, 4627-4635	4.6	72
75	Community-weighted mean of leaf traits and divergence of wood traits predict aboveground biomass in secondary subtropical forests. *Science of the Total Environment*, **2017**, 574, 654-662	10.2	68
74	Forest stand structure and functioning: Current knowledge and future challenges. *Ecological Indicators*, **2019**, 98, 665-677	5.8	50
73	Big-sized trees overrule remaining treesYattributes and species richness as determinants of aboveground biomass in tropical forests. *Global Change Biology*, **2019**, 25, 2810-2824	11.4	49
72	Climate and soils determine aboveground biomass indirectly via species diversity and stand structural complexity in tropical forests. *Forest Ecology and Management*, **2019**, 432, 823-831	3.9	49
71	Aboveground carbon storage is driven by functional trait composition and stand structural attributes rather than biodiversity in temperate mixed forests recovering from disturbances. *Annals of Forest Science*, **2018**, 75, 1	3.1	43
70	The forest strata-dependent relationship between biodiversity and aboveground biomass within a subtropical forest. *Forest Ecology and Management*, **2017**, 401, 125-134	3.9	41
69	Allometric biomass equations for shrub and small tree species in subtropical China. *Silva Fennica*, **2015**, 49,	1.9	41
68	Multiple abiotic and biotic pathways shape biomass demographic processes in temperate forests. *Ecology*, **2019**, 100, e02650	4.6	37
67	Abiotic and biotic determinants of coarse woody productivity in temperate mixed forests. *Science of the Total Environment*, **2018**, 630, 422-431	10.2	33
66	Functional identity of overstorey tree height and understorey conservative traits drive aboveground biomass in a subtropical forest. *Ecological Indicators*, **2017**, 83, 158-168	5.8	30
65	Above- and below-ground biodiversity jointly regulate temperate forest multifunctionality along a local-scale environmental gradient. *Journal of Ecology*, **2020**, 108, 2012-2024	6	29
64	Abiotic and biotic drivers of aboveground biomass in semi-steppe rangelands. *Science of the Total Environment*, **2018**, 615, 895-905	10.2	27
63	Soil moisture and salinity as main drivers of soil respiration across natural xeromorphic vegetation and agricultural lands in an arid desert region. *Catena*, **2019**, 177, 126-133	5.8	26
62	Multiple abiotic and biotic drivers of aboveground biomass shift with forest stratum. *Forest Ecology and Management*, **2019**, 436, 1-10	3.9	26
61	Woody species diversity as an indicator of the forest recovery after shifting cultivation disturbance in the northern Amazon. *Ecological Indicators*, **2018**, 95, 687-694	5.8	25
60	Climatic water availability is the main limiting factor of biotic attributes across large-scale elevational gradients in tropical forests. *Science of the Total Environment*, **2019**, 647, 1211-1221	10.2	25

59	Individual tree size inequality enhances aboveground biomass in homegarden agroforestry systems in the dry zone of Sri Lanka. *Science of the Total Environment*, **2017**, 575, 6-11	10.2	25
58	The positive relationships between plant coverage, species richness, and aboveground biomass are ubiquitous across plant growth forms in semi-steppe rangelands. *Journal of Environmental Management*, **2018**, 205, 308-318	7.9	23
57	Forest strata-dependent functional evenness explains whole-community aboveground biomass through opposing mechanisms. *Forest Ecology and Management*, **2018**, 424, 439-447	3.9	19
56	Testing species abundance distribution models in tropical forest successions: Implications for fine-scale passive restoration. *Ecological Engineering*, **2019**, 135, 28-35	3.9	18
55	Plant coverage is a potential ecological indicator for species diversity and aboveground biomass in semi-steppe rangelands. *Ecological Indicators*, **2018**, 93, 256-266	5.8	18
54	Disentangling the effects of species diversity, and intraspecific and interspecific tree size variation on aboveground biomass in dry zone homegarden agroforestry systems. *Science of the Total Environment*, **2017**, 598, 38-48	10.2	14
53	Machine learning and geostatistical approaches for estimating aboveground biomass in Chinese subtropical forests. *Forest Ecosystems*, **2020**, 7,	3.8	14
52	Impacts of climatic and edaphic factors on the diversity, structure and biomass of species-poor and structurally-complex forests. *Science of the Total Environment*, **2020**, 706, 135719	10.2	14
51	Topography, grazing, and soil textures control over rangelandsŸvegetation quantity and quality. *Science of the Total Environment*, **2019**, 697, 134153	10.2	13
50	Tree crown complementarity links positive functional diversity and aboveground biomass along large-scale ecological gradients in tropical forests. *Science of the Total Environment*, **2019**, 656, 45-54	10.2	13
49	Elucidating space, climate, edaphic, and biodiversity effects on aboveground biomass in tropical forests. *Land Degradation and Development*, **2019**, 30, 918-927	4.4	12
48	Biomass and carbon stocks in Schima superba dominated subtropical forests of eastern China. *Journal of Forest Science*, **2014**, 60, 198-207	0.9	11
47	Topography and forest diversity facets regulate overstory and understory aboveground biomass in a temperate forest of South Korea. *Science of the Total Environment*, **2020**, 744, 140783	10.2	10
46	Climate regulates the functional traits - aboveground biomass relationships at a community-level in forests: A global meta-analysis. *Science of the Total Environment*, **2021**, 761, 143238	10.2	10
45	The plant economics spectrum is structured by leaf habits and growth forms across subtropical species. *Tree Physiology*, **2017**, 37, 173-185	4.2	9
44	Linking Populus euphratica hydraulic redistribution to diversity assembly in the arid desert zone of Xinjiang, China. *PLoS ONE*, **2014**, 9, e109071	3.7	9
43	Big-trees □Energy mechanism underlies forest diversity and aboveground biomass. *Forest Ecology and Management*, **2020**, 461, 117968	3.9	9
42	Stand structural attributes and functional trait composition overrule the effects of functional divergence on aboveground biomass during Amazon forest succession. *Forest Ecology and Management*, **2020**, 477, 118481	3.9	9

41	Fine-scale habitat differentiation shapes the composition, structure and aboveground biomass but not species richness of a tropical Atlantic forest. *Journal of Forestry Research*, **2020**, 31, 1599-1611	2	9
40	Experimental variations in functional and demographic traits of Lappula semiglabra among dew amount treatments in an arid region. *Ecohydrology*, **2017**, 10, e1858	2.5	8
39	Temporal stability of aboveground biomass is governed by species asynchrony in temperate forests. *Ecological Indicators*, **2019**, 107, 105661-105661	5.8	8
38	Stand structure determines aboveground biomass across temperate forest types and species mixture along a local-scale elevational gradient. *Forest Ecology and Management*, **2021**, 486, 118984	3.9	8
37	Few large trees, rather than plant diversity and composition, drive the above-ground biomass stock and dynamics of temperate forests in northeast China. *Forest Ecology and Management*, **2021**, 481, 118698	3.9	8
36	The mediation roles of intraspecific and interspecific functional trait diversity for linking the response of aboveground biomass to species richness across forest strata in a subtropical forest. *Ecological Indicators*, **2018**, 85, 493-501	5.8	8
35	Benchmarking plant diversity of Palaearctic grasslands and other open habitats. *Journal of Vegetation Science*, **2021**, 32, e13050	3.1	8
34	Prediction of groundwater depth in an arid region based on maximum tree height. *Journal of Hydrology*, **2019**, 574, 46-52	6	6
33	Flowering Phenology Shifts in Response to Functional Traits, Growth Form, and Phylogeny of Woody Species in a Desert Area. *Frontiers in Plant Science*, **2020**, 11, 536	6.2	6
32	Generalized and species-specific prediction models for aboveground biomass in semi-steppe rangelands. *Journal of Plant Ecology*, **2019**, 12, 428-437	1.7	6
31	Effects of the ephemeral stream on plant species diversity and distribution in an alluvial fan of arid desert region: An application of a low altitude UAV. *PLoS ONE*, **2019**, 14, e0212057	3.7	5
30	Environmental filtering, predominance of strong competitor trees and exclusion of moderate-weak competitor trees shape species richness and biomass. *Science of the Total Environment*, **2020**, 723, 138105	10.2	5
29	C:N:P stoichiometry in forest floor litter of evergreen broad-leaved forests at different successional stages in Tiantong, Zhejiang, eastern China. *Chinese Journal of Plant Ecology*, **2014**, 38, 833-842	1.2	5
28	Context-dependency of tree species diversity, trait composition and stand structural attributes regulate temperate forest multifunctionality. *Science of the Total Environment*, **2021**, 757, 143724	10.2	5
27	Taxonomic and functional beta diversity of woody communities along Amazon forest succession: The relative importance of stand age, soil properties and spatial factor. *Forest Ecology and Management*, **2021**, 482, 118885	3.9	5
26	Consequences of phylogenetic conservativeness and functional trait similarity on aboveground biomass vary across subtropical forest strata. *Forest Ecology and Management*, **2018**, 429, 28-35	3.9	5
25	Tree-size dimension inequality shapes aboveground carbon stock across temperate forest strata along environmental gradients. *Forest Ecology and Management*, **2021**, 496, 119482	3.9	5
24	Relationships between soil carbon pool and vegetation carbon return through succession of evergreen broad-leaved forests in Tiantong region, Zhejiang Province, Eastern China. *Chinese Journal of Plant Ecology*, **2014**, 37, 803-810	1.2	4

23	What is the role of perennial plants in semi-steppe rangelands? Direct and indirect effects of perennial on annual plant species. *Ecological Indicators*, **2019**, 98, 389-396	5.8	4
22	Wood density is a sustainability indicator for the management of dry zone homegarden agroforests: Evidences from biodiversity–ecosystem function relationships. *Ecological Indicators*, **2019**, 105, 474-482	5.8	4
21	Topmost trees and foremost species underlie tropical forest structure, diversity and biomass through opposing mechanisms. *Forest Ecology and Management*, **2020**, 473, 118299	3.9	3
20	Functional identity regulates aboveground biomass better than trait diversity along abiotic conditions in global forest metacommunities. *Ecography*,	6.5	3
19	Stand density of co-existing species regulates above-ground biomass along a local-scale elevational gradient in tropical forests. *Applied Vegetation Science*, **2021**, 24, e12577	3.3	3
18	Tree species diversity enhances plant-soil interactions in a temperate forest in northeast China. *Forest Ecology and Management*, **2021**, 491, 119160	3.9	3
17	Bayesian model predicts the aboveground biomass of Caragana microphylla in sandy lands better than OLS regression models. *Journal of Plant Ecology*, **2020**, 13, 732-737	1.7	2
16	Evolutionary diversity and species richness predict aboveground biomass better than tree size variation in local-scale tropical forest types of Nepal. *Forest Ecology and Management*, **2021**, 490, 119146	3.9	2
15	Diversity-productivity dependent resistance of an alpine plant community to different climate change scenarios. *Ecological Research*, **2016**, 31, 935-945	1.9	2
14	Biochar for Soil Water Conservation and Salinization Control in Arid Desert Regions **2019**, 161-168		2
13	Response of community diversity and productivity to canopy gap disturbance in subtropical forests. *Forest Ecology and Management*, **2021**, 502, 119740	3.9	2
12	Influence of soil microorganisms and physicochemical properties on plant diversity in an arid desert of Western China. *Journal of Forestry Research*, **2021**, 32, 2645	2	2
11	Divergent above- and below-ground biodiversity pathways mediate disturbance impacts on temperate forest multifunctionality. *Global Change Biology*, **2021**, 27, 2883-2894	11.4	1
10	Species co-occurrence shapes spatial variability in plant diversity–biomass relationships in natural rangelands under different grazing intensities. *Land Degradation and Development*, **2021**, 32, 4390-4401	4.4	1
9	Big-sized trees and forest functioning: Current knowledge and future perspectives. *Ecological Indicators*, **2021**, 127, 107760	5.8	1
8	Ecological Stoichiometry in Pinus massoniana L. Plantation: Increasing Nutrient Limitation in a 48-Year Chronosequence. *Forests*, **2022**, 13, 469	2.8	1
7	Species evenness declines but specific functional strategy enhances aboveground biomass across strata in subtropical–Warm-temperate forests of South Korea. *Forest Ecology and Management*, **2022**, 512, 120179	3.9	1
6	Big-sized trees and species-functional diversity pathways mediate divergent impacts of environmental factors on individual biomass variability in Sri Lankan tropical forests.. *Journal of Environmental Management*, **2022**, 315, 115177	7.9	1

5	Strata-dependent relationships among temperate forest structure, diversity, and growth rate along a local-scale environmental gradient. *Ecological Indicators*, **2022**, 135, 108566	5.8	0
4	Anthropogenic Disturbances Shape Soil Capillary and Saturated Water Retention Indirectly via Plant Functional Traits and Soil Organic Carbon in Temperate Forests. *Forests*, **2021**, 12, 1588	2.8	0
3	The role of biodiversity in mitigating the effects of nutrient limitation and short-term rotations in plantations of subtropical China. *Journal of Environmental Management*, **2021**, 114140	7.9	0
2	A Review of Strong Evidence for the Effect of Functional Dominance on Carbon Stocks in Natural Forest Ecosystems. *Research Journal of Forestry*, **2015**, 9, 65-70	0.5	
1	Functional composition of tall-statured trees underpins aboveground biomass in tropical forests. *Journal of Forestry Research*,1	2	