Gabriel G Katul

List of Publications by Year
in descending order

469 papers	35,609 citations	4146 87 h-index	5255 165 g-index
511 all docs	511 docs citations	511 times ranked	21174 citing authors

#	Article	IF	Citations
1	A note on aerosol sized particle deposition onto dense and tall canopies situated on gentle cosine hills. Tellus, Series B: Chemical and Physical Meteorology, 2022, 63, 395.	1.6	6
2	The Detection, Genesis, and Modeling of Turbulence Intermittency in the Stable Atmospheric Surface Layer. Journals of the Atmospheric Sciences, 2022, 79, 1171-1190.	1.7	9
3	Does growing atmospheric CO₂ explain increasing carbon sink in a boreal coniferous forest?. Global Change Biology, 2022, 28, 2910-2929.	9.5	23
4	Direct partitioning of eddy-covariance water and carbon dioxide fluxes into ground and plant components. Agricultural and Forest Meteorology, 2022, 315, 108790.	4.8	17
5	Reduced ecosystem resilience quantifies fineâ€scale heterogeneity in tropical forest mortality responses to drought. Global Change Biology, 2022, 28, 2081-2094.	9.5	12
6	A Coâ€Spectral Budget Model Links Turbulent Eddies to Suspended Sediment Concentration in Channel Flows. Water Resources Research, 2022, 58, .	4.2	2
7	Catastrophic hydraulic failure and tipping points in plants. Plant, Cell and Environment, 2022, 45, 2231-2266.	5.7	17
8	The root-zone soil moisture spectrum in a mediterranean ecosystem. Journal of Hydrology, 2022, 609, 127757.	5.4	1
9	Examining Parameterizations of Potential Temperature Variance Across Varied Landscapes for Use in Earth System Models. Journal of Geophysical Research D: Atmospheres, 2022, 127, .	3.3	3
10	Profiles of high-order moments of longitudinal velocity explained by the random sweeping decorrelation hypothesis. Physical Review Fluids, 2022, 7, .	2.5	2
11	Radialâ€“axial transport coordination enhances sugar translocation in the phloem vasculature of plants. Plant Physiology, 2022, 189, 2061-2071.	4.8	6
12	Self-similar geometries within the inertial subrange of scales in boundary layer turbulence. Journal of Fluid Mechanics, 2022, 942, .	3.4	5
13	Bridging the Urban Canopy Sublayer to Aerodynamic Parameters of the Atmospheric Surface Layer. Boundary-Layer Meteorology, 2022, 185, 35-61.	2.3	10
14	Population agglomeration is a harbinger of the spatial complexity of COVID-19. Chemical Engineering Journal, 2021, 420, 127702.	12.7	11
15	Leaf temperature and its dependence on atmospheric CO₂ and leaf size. Geological Journal, 2021, 56, 866-885.	1.3	16
16	Micro-climatic and crop responses to micro-sprinkler irrigation. Agricultural Water Management, 2021, 243, 106498.	5.6	13
17	Multiscale Legacy Responses of Soil Gas Concentrations to Soil Moisture and Temperature Fluctuations. Journal of Geophysical Research G: Biogeosciences, 2021, 126, e2020JG005865.	3.0	5
18	Differential response of rice evapotranspiration to varying patterns of warming. Agricultural and Forest Meteorology, 2021, 298-299, 108293.	4.8	14

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19	The Intensifying Role of High Wind Speeds on Airâ€Sea Carbon Dioxide Exchange. Geophysical Research Letters, 2021, 48, e2020GL090713.	4.0	5
20	Taylor dispersion in osmotically driven laminar flows in phloem. Journal of Fluid Mechanics, 2021, 913, .	3.4	7
21	Mesoscale Temporal Wind Variability Biases Global Airâ€“Sea Gas Transfer Velocity of CO2 and Other Slightly Soluble Gases. Remote Sensing, 2021, 13, 1328.	4.0	2
22	Spectral Signature of Landscape Channelization. Geophysical Research Letters, 2021, 48, e2020GL091015.	4.0	6
23	Nonâ€Closure of Surface Energy Balance Linked to Asymmetric Turbulent Transport of Scalars by Large Eddies. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD034474.	3.3	11
24	A kernel-modulated SIR model for Covid-19 contagious spread from county to continent. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	13
25	Relation between the spectral properties of wall turbulence and the scaling of the Darcy-Weisbach friction factor. Physical Review Fluids, 2021, 6, .	2.5	1
26	Universal Return to Isotropy of Inhomogeneous Atmospheric Boundary Layer Turbulence. Physical Review Letters, 2021, 126, 194501.	7.8	9
27	Eddies in motion: visualizing boundary-layer turbulence above an open boreal peatland using UAS thermal videos. Atmospheric Measurement Techniques, 2021, 14, 3501-3521.	3.1	6
28	Velocity and Temperature Dissimilarity in the Surface Layer Uncovered by the Telegraph Approximation. Boundary-Layer Meteorology, 2021, 180, 385-405.	2.3	8
29	Flow dynamics and sediment transport in vegetated rivers: A review. Journal of Hydrodynamics, 2021, 33, 400-420.	3.2	105
30	Intermittent Surface Renewals and Methane Hotspots in Natural Peatlands. Boundary-Layer Meteorology, 2021, 180, 407-433.	2.3	4
31	Probability law of turbulent kinetic energy in the atmospheric surface layer. Physical Review Fluids, 2021, 6, .	2.5	2
32	A Multiscale Approach to Timescale Analysis: Isolating Diel Signals from Solute Concentration Time Series. Environmental Science & Technology, 2021, 55, 12731-12738.	10.0	7
33	Intensity and frequency of extreme novel epidemics. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	225
34	Detecting forest response to droughts with global observations of vegetation water content. Global Change Biology, 2021, 27, 6005-6024.	9.5	73
35	Laboratory study on behavioral responses of hybrid sturgeon, Acipenseridae, to wake flows induced by cylindrical bluff bodies. Science of the Total Environment, 2021, 799, 149403.	8.0	6
36	Sweeping Effects Modify Taylorâ€™s Frozen Turbulence Hypothesis for Scalars in the Roughness Sublayer. Geophysical Research Letters, 2021, 48, e2021GL093746.	4.0	5

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37	Roughness-induced critical phenomenon analogy for turbulent friction factor explained by a co-spectral budget model. Physics of Fluids, 2021, 33, .	4.0	3
38	Maximizing leaf carbon gain in varying saline conditions: An optimization model with dynamic mesophyll conductance. Plant Journal, 2020, 101, 543-554.	5.7	9
39	A joint velocity-intermittency analysis reveals similarity in the vertical structure of atmospheric and hydrospheric canopy turbulence. Environmental Fluid Mechanics, 2020, 20, 77-101.	1.6	7
40	Global convergence of COVID-19 basic reproduction number and estimation from early-time SIR dynamics. PLoS ONE, 2020, 15, e0239800.	2.5	66
41	Boundary-Layer Flow Over Complex Topography. Boundary-Layer Meteorology, 2020, 177, 247-313.	2.3	58
42	Peak grain forecasts for the US High Plains amid withering waters. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 26145-26150.	7.1	12
43	Scaling Laws for the Length Scale of Energyâ€Containing Eddies in a Sheared and Thermally Stratified Atmospheric Surface Layer. Geophysical Research Letters, 2020, 47, e2020GL089997.	4.0	4
44	Scalewise Return to Isotropy in Stratified Boundary Layer Flows. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2020JD032732.	3.3	7
45	The Persistent Challenge of Surface Heterogeneity in Boundary-Layer Meteorology: A Review. Boundary-Layer Meteorology, 2020, 177, 227-245.	2.3	62
46	Longitudinal dispersal properties of floating seeds within open-channel flows covered by emergent vegetation. Advances in Water Resources, 2020, 144, 103705.	3.8	5
47	Homogenization of the terrestrial water cycle. Nature Geoscience, 2020, 13, 656-658.	12.9	242
48	The Effects of Canopy Morphology on Flow Over a Twoâ€Dimensional Isolated Ridge. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2020JD033027.	3.3	6
49	Inverse Cascade Evidenced by Information Entropy of Passive Scalars in Submerged Canopy Flows. Geophysical Research Letters, 2020, 47, e2020GL087486.	4.0	3
50	Rootâ€zone soil moisture variability across African savannas: From pulsed rainfall to landâ€cover switches. Ecohydrology, 2020, 13, e2213.	2.4	10
51	Plant hydraulics accentuates the effect of atmospheric moisture stress on transpiration. Nature Climate Change, 2020, 10, 691-695.	18.8	108
52	Effects of Gentle Topography on Forestâ€Atmosphere Gas Exchanges and Implications for Eddyâ€Covariance Measurements. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2020JD032581.	3.3	13
53	Resistance Formulations in Shallow Overland Flow Along a Hillslope Covered With Patchy Vegetation. Water Resources Research, 2020, 56, e2020WR027194.	4.2	10
54	Revisiting the relation between momentum and scalar roughness lengths of urban surfaces. Quarterly Journal of the Royal Meteorological Society, 2020, 146, 3144-3164.	2.7	20

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55	Recovering the Metabolic, Self-Thinning, and Constant Final Yield Rules in Mono-Specific Stands. Frontiers in Forests and Global Change, 2020, 3, .	2.3	18
56	Seasonal hysteresis of surface urban heat islands. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 7082-7089.	7.1	66
57	The Duality of Reforestation Impacts on Surface and Air Temperature. Journal of Geophysical Research G: Biogeosciences, 2020, 125, e2019JG005543.	3.0	38
58	A network model for stemflow solute transport. Applied Mathematical Modelling, 2020, 88, 266-282.	4.2	12
59	Advancing ecohydrology in the 21st century: A convergence of opportunities. Ecohydrology, 2020, 13, e2208.	2.4	34
60	Assessing decoupling of above and below canopy air masses at a Norway spruce stand in complex terrain. Agricultural and Forest Meteorology, 2020, 294, 108149.	4.8	9
61	Contaminant removal efficiency of floating treatment wetlands. Environmental Research Letters, 2020, 15, 1040b7.	5.2	11
62	Fluctuation theorem and extended thermodynamics of turbulence. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2020, 476, 20200468.	2.1	3
63	Velocity asymmetry and turbulent transport closure in smooth- and rough-wall boundary layers. Physical Review Fluids, 2020, 5, .	2.5	13
64	Aerodynamic Resistance Parameterization for Heterogeneous Surfaces Using a Covariance Function Approach in Spectral Space. Journals of the Atmospheric Sciences, 2019, 76, 3191-3209.	1.7	3
65	Mean Velocity and Shear Stress Distribution in Floating Treatment Wetlands: An Analytical Study. Water Resources Research, 2019, 55, 6436-6449.	4.2	20
66	Xylemâ€“phloem hydraulic coupling explains multiple osmoregulatory responses to salt stress. New Phytologist, 2019, 224, 644-662.	7.3	25
67	Friction factor for turbulent open channel flow covered by vegetation. Scientific Reports, 2019, 9, 5178.	3.3	20
68	Magnitude of urban heat islands largely explained by climate and population. Nature, 2019, 573, 55-60.	27.8	546
69	Reduced resilience as an early warning signal of forest mortality. Nature Climate Change, 2019, 9, 880-885.	18.8	87
70	The simultaneous effects of image force and diffusion on ultrafine particle deposition onto vegetation: A wind tunnel study. Aerosol Science and Technology, 2019, 53, 371-380.	3.1	0
71	A primer on turbulence in hydrology and hydraulics: The power of dimensional analysis. Wiley Interdisciplinary Reviews: Water, 2019, 6, e1336.	6.5	8
72	Large Eddies Regulate Turbulent Flux Gradients in Coupled Stable Boundary Layers. Geophysical Research Letters, 2019, 46, 6090-6100.	4.0	12

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73	Turbulence structure in open channel flow with partially covered artificial emergent vegetation. Journal of Hydrology, 2019, 573, 180-193.	5.4	50
74	Effects of topography on inâ€canopy transport of gases emitted within dense forests. Quarterly Journal of the Royal Meteorological Society, 2019, 145, 2101-2114.	2.7	15
75	Submeso Motions and Intermittent Turbulence Across a Nocturnal Low-Level Jet: A Self-Organized Criticality Analogy. Boundary-Layer Meteorology, 2019, 172, 17-43.	2.3	27
76	Resistance to Flow on a Sloping Channel Covered by Dense Vegetation following a Dam Break. Water Resources Research, 2019, 55, 1040-1058.	4.2	17
77	The structure of turbulent flow through submerged flexible vegetation. Journal of Hydrodynamics, 2019, 31, 274-292.	3.2	121
78	A Dynamic Optimality Principle for Water Use Strategies Explains Isohydric to Anisohydric Plant Responses to Drought. Frontiers in Forests and Global Change, 2019, 2, .	2.3	26
79	The anatomy of large-scale motion in atmospheric boundary layers. Journal of Fluid Mechanics, 2019, 858, 1-4.	3.4	13
80	Xylem functioning, dysfunction and repair: a physical perspective and implications for phloem transport. Tree Physiology, 2019, 39, 243-261.	3.1	33
81	Cospectral budget model describes incipient sediment motion in turbulent flows. Physical Review Fluids, 2019, 4, .	2.5	6
82	Enhanced Temperatureâ€Humidity Similarity Caused by Entrainment Processes With Increased Wind Shear. Journal of Geophysical Research D: Atmospheres, 2018, 123, 4110-4121.	3.3	12
83	Environmental and biological controls on seasonal patterns of isoprene above a rain forest in central Amazonia. Agricultural and Forest Meteorology, 2018, 256-257, 391-406.	4.8	20
84	Intrinsic Constraints on Asymmetric Turbulent Transport of Scalars Within the Constant Flux Layer of the Lower Atmosphere. Geophysical Research Letters, 2018, 45, 2022-2030.	4.0	17
85	Scaling and Similarity of the Anisotropic Coherent Eddies in Near-Surface Atmospheric Turbulence. Journals of the Atmospheric Sciences, 2018, 75, 943-964.	1.7	28
86	Biometeorology â€“ From agricultural origins to a last frontier in physics. Agricultural and Forest Meteorology, 2018, 255, 1-2.	4.8	1
87	Costs and benefits of nonâ€random seed release for longâ€distance dispersal in windâ€dispersed plant species. Oikos, 2018, 127, 1330-1343.	2.7	17
88	Drag coefficient estimation using flume experiments in shallow non-uniform water flow within emergent vegetation during rainfall. Ecological Indicators, 2018, 92, 367-378.	6.3	26
89	Twenty-three-year timeline of ecological stable states and regime shifts in upper Amazon oxbow lakes. Hydrobiologia, 2018, 807, 99-111.	2.0	12
90	Derivation of Canopy Resistance in Turbulent Flow from First-Order Closure Models. Water (Switzerland), 2018, 10, 1782.	2.7	5

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91	Vertical characterization of highly oxygenated molecules (HOMs) below and above a boreal forest canopy. Atmospheric Chemistry and Physics, 2018, 18, 17437-17450.	4.9	34
92	Indoor and Outdoor Radon Concentration Levels in Lebanon. Health Physics, 2018, 115, 344-353.	0.5	12
93	On the role of return to isotropy in wall-bounded turbulent flows with buoyancy. Journal of Fluid Mechanics, 2018, 856, 61-78.	3.4	30
94	Similarity in Fog and Rainfall Intermittency. Geophysical Research Letters, 2018, 45, 10,691.	4.0	15
95	Partitioning Eddy Covariance Water Flux Components Using Physiological and Micrometeorological Approaches. Journal of Geophysical Research G: Biogeosciences, 2018, 123, 3353-3370.	3.0	50
96	Ejective and Sweeping Motions Above a Peatland and Their Role in Relaxed-Eddy-Accumulation Measurements and Turbulent Transport Modelling. Boundary-Layer Meteorology, 2018, 169, 163-184.	2.3	9
97	Transport in a coordinated soil-root-xylem-phloem leaf system. Advances in Water Resources, 2018, 119, 1-16.	3.8	31
98	Distinct Turbulence Structures in Stably Stratified Boundary Layers With Weak and Strong Surface Shear. Journal of Geophysical Research D: Atmospheres, 2018, 123, 7839-7854.	3.3	37
99	Effects of leaf area index and density on ultrafine particle deposition onto forest canopies: A LES study. Atmospheric Environment, 2018, 189, 153-163.	4.1	13
100	A Structure Function Model Recovers the Many Formulations for Airâ€Water Gas Transfer Velocity. Water Resources Research, 2018, 54, 5905-5920.	4.2	16
101	A network model links wood anatomy to xylem tissue hydraulic behaviour and vulnerability to cavitation. Plant, Cell and Environment, 2018, 41, 2718-2730.	5.7	71
102	Scalewise invariant analysis of the anisotropic Reynolds stress tensor for atmospheric surface layer and canopy sublayer turbulent flows. Physical Review Fluids, 2018, 3, .	2.5	18
103	Extremes, intermittency, and time directionality of atmospheric turbulence at the crossover from production to inertial scales. Physical Review Fluids, 2018, 3, .	2.5	11
104	Manningâ€™s formula and Stricklerâ€™s scaling explained by a co-spectral budget model. Journal of Fluid Mechanics, 2017, 812, 1189-1212.	3.4	32
105	Non-closure of the surface energy balance explained by phase difference between vertical velocity and scalars of large atmospheric eddies. Environmental Research Letters, 2017, 12, 034025.	5.2	56
106	Multiple mechanisms generate a universal scaling with dissipation for the airâ€water gas transfer velocity. Geophysical Research Letters, 2017, 44, 1892-1898.	4.0	23
107	A K olmogorovâ€B rutsaert structure function model for evaporation into a turbulent atmosphere. Water Resources Research, 2017, 53, 3635-3644.	4.2	9
108	A reduced order model to analytically infer atmospheric CO2 concentration from stomatal and climate data. Advances in Water Resources, 2017, 104, 145-157.	3.8	24

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109	Turbulent mixing and removal of ozone within an Amazon rainforest canopy. Journal of Geophysical Research D: Atmospheres, 2017, 122, 2791-2811.	3.3	36
110	Direct numerical simulation of turbulent slope flows up to Grashof number. Journal of Fluid Mechanics, 2017, 829, 589-620.	3.4	17
111	Increasing atmospheric humidity and CO ₂ concentration alleviate forest mortality risk. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 9918-9923.	7.1	66
112	Role of large eddies in the breakdown of the Reynolds analogy in an idealized mildly unstable atmospheric surface layer. Quarterly Journal of the Royal Meteorological Society, 2017, 143, 2182-2197.	2.7	10
113	Boom and bust carbon-nitrogen dynamics during reforestation. Ecological Modelling, 2017, 360, 108-119.	2.5	1
114	On the linkage between the kâ^'5/3 spectral and kâ^'7/3 cospectral scaling in high-Reynolds number turbulent boundary layers. Physics of Fluids, 2017, 29, .	4.0	11
115	The nonâ€local character of turbulence asymmetry in the convective atmospheric boundary layer. Quarterly Journal of the Royal Meteorological Society, 2017, 143, 494-507.	2.7	23
116	Competition for light and water in a coupled soil-plant system. Advances in Water Resources, 2017, 108, 216-230.	3.8	31
117	The effect of plant water storage on water fluxes within the coupled soilâ€"plant system. New Phytologist, 2017, 213, 1093-1106.	7.3	86
118	On the variability of the ecosystem response to elevated atmospheric CO2 across spatial and temporal scales at the Duke Forest FACE experiment. Agricultural and Forest Meteorology, 2017, 232, 367-383.	4.8	41
119	Matching ecohydrological processes and scales of banded vegetation patterns in semiarid catchments. Water Resources Research, 2016, 52, 2259-2278.	4.2	18
120	Large CO ₂ effluxes at night and during synoptic weather events significantly contribute to CO ₂ emissions from a reservoir. Environmental Research Letters, 2016, 11, 064001.	5.2	66
121	Soilâ€"plantâ€"atmosphere conditions regulating convective cloud formation above southeastern US pine plantations. Global Change Biology, 2016, 22, 2238-2254.	9.5	39
122	On the variability of the Priestleyâ€Taylor coefficient over water bodies. Water Resources Research, 2016, 52, 150-163.	4.2	37
123	Generalized logarithmic scaling for high-order moments of the longitudinal velocity component explained by the random sweeping decorrelation hypothesis. Physics of Fluids, 2016, 28, .	4.0	14
124	Delayâ€induced rebounds in CO₂ emissions and critical timeâ€scales to meet global warming targets. Earth's Future, 2016, 4, 636-643.	6.3	17
125	Climate, not conflict, explains extreme Middle East dust storm. Environmental Research Letters, 2016, 11, 114013.	5.2	48
126	Mean-velocity profile of smooth channel flow explained by a cospectral budget model with wall-blockage. Physics of Fluids, 2016, 28, .	4.0	18

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127	Linking Meteorology, Turbulence, and Air Chemistry in the Amazon Rain Forest. Bulletin of the American Meteorological Society, 2016, 97, 2329-2342.	3.3	59
128	Closure Schemes for Stably Stratified Atmospheric Flows without Turbulence Cutoff. Journals of the Atmospheric Sciences, 2016, 73, 4817-4832.	1.7	14
129	Do the energy fluxes and surface conductance of boreal coniferous forests in Europe scale with leaf area?. Global Change Biology, 2016, 22, 4096-4113.	9.5	39
130	Persistence and memory timescales in rootâ€zone soil moisture dynamics. Water Resources Research, 2016, 52, 1427-1445.	4.2	62
131	The k^{â^'1} scaling of air temperature spectra in atmospheric surface layer flows. Quarterly Journal of the Royal Meteorological Society, 2016, 142, 496-505.	2.7	19
132	Dissipation Intermittency Increases Long-Distance Dispersal of Heavy Particles in the Canopy Sublayer. Boundary-Layer Meteorology, 2016, 159, 41-68.	2.3	19
133	A Spectral Budget Model for the Longitudinal Turbulent Velocity in the Stable Atmospheric Surface Layer. Journals of the Atmospheric Sciences, 2016, 73, 145-166.	1.7	17
134	Deviations from unity of the ratio of the turbulent Schmidt to Prandtl numbers in stratified atmospheric flows over water surfaces. Physical Review Fluids, 2016, 1, .	2.5	15
135	The dual role of soil crusts in desertification. Journal of Geophysical Research G: Biogeosciences, 2015, 120, 2108-2119.	3.0	41
136	Crossâ€scale impact of climate temporal variability on ecosystem water and carbon fluxes. Journal of Geophysical Research G: Biogeosciences, 2015, 120, 1716-1740.	3.0	38
137	Abiotic and biotic controls of soil moisture spatiotemporal variability and the occurrence of hysteresis. Water Resources Research, 2015, 51, 3505-3524.	4.2	56
138	The hysteresis response of soil CO₂ concentration and soil respiration to soil temperature. Journal of Geophysical Research G: Biogeosciences, 2015, 120, 1605-1618.	3.0	55
139	Bottlenecks in turbulent kinetic energy spectra predicted from structure function inflections using the Von KÃ¡rmÃ¡n-Howarth equation. Physical Review E, 2015, 92, 033009.	2.1	14
140	Separating physical and biological controls on longâ€term evapotranspiration fluctuations in a tropical deciduous forest subjected to monsoonal rainfall. Journal of Geophysical Research G: Biogeosciences, 2015, 120, 1262-1278.	3.0	18
141	The Spatio-temporal Statistical Structure and Ergodic Behaviour of Scalar Turbulence Within a Rod Canopy. Boundary-Layer Meteorology, 2015, 157, 447-460.	2.3	12
142	Introduction to a special section on ecohydrology of semiarid environments: Confronting mathematical models with ecosystem complexity. Water Resources Research, 2015, 51, 8677-8683.	4.2	6
143	Effects of different representations of stomatal conductance response to humidity across the African continent under warmer CO ₂ â€enriched climate conditions. Journal of Geophysical Research G: Biogeosciences, 2015, 120, 979-988.	3.0	20
144	Steady nonuniform shallow flow within emergent vegetation. Water Resources Research, 2015, 51, 10047-10064.	4.2	43

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145	The Doomsday Equation and 50 years beyond: new perspectives on the humanâ€water system. Wiley Interdisciplinary Reviews: Water, 2015, 2, 407-414.	6.5	16
146	Revisiting the formulations for the longitudinal velocity variance in the unstable atmospheric surface layer. Quarterly Journal of the Royal Meteorological Society, 2015, 141, 1699-1711.	2.7	39
147	The effects of leaf size and microroughness on the branchâ€scale collection efficiency of ultrafine particles. Journal of Geophysical Research D: Atmospheres, 2015, 120, 3370-3385.	3.3	19
148	Characteristics of Gravity Waves over an Antarctic Ice Sheet during an Austral Summer. Atmosphere, 2015, 6, 1271-1289.	2.3	20
149	Wind-induced leaf transpiration. Advances in Water Resources, 2015, 86, 240-255.	3.8	25
150	Flume experiments on wind induced flow in static water bodies in the presence of protruding vegetation. Advances in Water Resources, 2015, 76, 11-28.	3.8	27
151	Footprint Estimation for Multi-Layered Sources and Sinks Inside Canopies in Open and Protected Environments. Boundary-Layer Meteorology, 2015, 155, 229-248.	2.3	2
152	Coupling boreal forest CO2, H2O and energy flows by a vertically structured forest canopy â€“ Soil model with separate bryophyte layer. Ecological Modelling, 2015, 312, 385-405.	2.5	74
153	The influence of water table depth and the free atmospheric state on convective rainfall predisposition. Water Resources Research, 2015, 51, 2283-2297.	4.2	23
154	Revisiting the Turbulent Prandtl Number in an Idealized Atmospheric Surface Layer. Journals of the Atmospheric Sciences, 2015, 72, 2394-2410.	1.7	44
155	Turbulent Energy Spectra and Cospectra of Momentum and Heat Fluxes in the Stable Atmospheric Surface Layer. Boundary-Layer Meteorology, 2015, 157, 1-21.	2.3	31
156	Suppressed convective rainfall by agricultural expansion in southeastern <scp>B</scp>urkina <scp>F</scp>aso. Water Resources Research, 2015, 51, 5521-5530.	4.2	8
157	Optimal plant waterâ€use strategies under stochastic rainfall. Water Resources Research, 2014, 50, 5379-5394.	4.2	41
158	Cospectral budget of turbulence explains the bulk properties of smooth pipe flow. Physical Review E, 2014, 90, 063008.	2.1	19
159	Two phenomenological constants explain similarity laws in stably stratified turbulence. Physical Review E, 2014, 89, 023007.	2.1	48
160	Publisher's Note: Two phenomenological constants explain similarity laws in stably stratified turbulence [Phys. Rev. E89, 023007 (2014)]. Physical Review E, 2014, 89, .	2.1	0
161	Ecohydrological flow networks in the subsurface. Ecohydrology, 2014, 7, 1073-1078.	2.4	19
162	Tree root systems competing for soil moisture in a 3D soilâ€“plant model. Advances in Water Resources, 2014, 66, 32-42.	3.8	59

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163	A Velocityâ€“Dissipation Lagrangian Stochastic Model for Turbulent Dispersion in Atmospheric Boundary-Layer and Canopy Flows. Boundary-Layer Meteorology, 2014, 152, 1-18.	2.3	10
164	The hysteretic evapotranspirationâ€”Vapor pressure deficit relation. Journal of Geophysical Research G: Biogeosciences, 2014, 119, 125-140.	3.0	128
165	A theoretical analysis of microbial eco-physiological and diffusion limitations to carbon cycling in drying soils. Soil Biology and Biochemistry, 2014, 73, 69-83.	8.8	220
166	Mechanistic modeling of seed dispersal by wind over hilly terrain. Ecological Modelling, 2014, 274, 29-40.	2.5	42
167	Correction: Secondary dispersal driven by overland flow in drylands: Review and mechanistic model development. Movement Ecology, 2014, 2, 14.	2.8	3
168	Secondary dispersal driven by overland flow in drylands: Review and mechanistic model development. Movement Ecology, 2014, 2, 7.	2.8	22
169	Increasing water use efficiency along the C3 to C4 evolutionary pathway: a stomatal optimization perspective. Journal of Experimental Botany, 2014, 65, 3683-3693.	4.8	101
170	Interpreting three-dimensional spore concentration measurements and escape fraction in a crop canopy using a coupled Eulerianâ€“Lagrangian stochastic model. Agricultural and Forest Meteorology, 2014, 194, 118-131.	4.8	24
171	Particle deposition to forests: An alternative to K-theory. Atmospheric Environment, 2014, 94, 593-605.	4.1	12
172	Vegetation collection efficiency of ultrafine particles: From single fiber to porous media. Journal of Geophysical Research D: Atmospheres, 2014, 119, 222-229.	3.3	5
173	Invariant soil water potential at zero microbial respiration explained by hydrological discontinuity in dry soils. Geophysical Research Letters, 2014, 41, 7151-7158.	4.0	66
174	Momentum balance of katabatic flow on steep slopes covered with short vegetation. Geophysical Research Letters, 2014, 41, 4761-4768.	4.0	28
175	Radiative and precipitation controls on root zone soil moisture spectra. Geophysical Research Letters, 2014, 41, 7546-7554.	4.0	12
176	An ecohydrological perspective on droughtâ€induced forest mortality. Journal of Geophysical Research G: Biogeosciences, 2014, 119, 965-981.	3.0	28
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