Wlodek Tych

List of Publications by Year in descending order

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		186209	161767
74	3,157	28	54
papers	citations	h-index	g-index
78	78	78	3137
all docs	docs citations	times ranked	citing authors

#	Article	IF	CITATIONS
1	In situ high resolution measurements of fluxes of Ni, Cu, Fe, and Mn and concentrations of Zn and Cd in porewaters by DGT. Geochimica Et Cosmochimica Acta, 1995, 59, 4181-4192.	1.6	322
2	Kinetics of metal exchange between solids and solutions in sediments and soils interpreted from DGT measured fluxes. Geochimica Et Cosmochimica Acta, 1998, 62, 2757-2770.	1.6	302
3	Dynamic harmonic regression. Journal of Forecasting, 1999, 18, 369-394.	1.6	254
4	Environmental time series analysis and forecasting with the Captain toolbox. Environmental Modelling and Software, 2007, 22, 797-814.	1.9	226
5	DIFS—a modelling and simulation tool for DGT induced trace metal remobilisation in sediments and soils. Environmental Modelling and Software, 2000, 15, 55-66.	1.9	182
6	Major agricultural changes required to mitigate phosphorus losses under climate change. Nature Communications, 2017, 8, 161.	5 . 8	121
7	Temporal, Spatial, and Resolution Constraints forin SituSampling Devices Using Diffusional Equilibration:Â Dialysis and DET. Environmental Science & Equilibration:Â Dialysis and DET. Environmental Science & Equilibration: 21, 31, 3110-3119.	4.6	102
8	2D DGT induced fluxes in sediments and soils (2D DIFS). Environmental Modelling and Software, 2007, 22, 14-23.	1.9	89
9	Polycyclic Aromatic Hydrocarbons Not Declining in Arctic Air Despite Global Emission Reduction. Environmental Science & Enviro	4.6	88
10	Modelling and PIP control of a glasshouse micro-climate. Control Engineering Practice, 1994, 2, 591-604.	3.2	74
11	North Atlantic forcing of moisture delivery to Europe throughout the Holocene. Scientific Reports, 2016, 6, 24745.	1.6	74
12	Sources of suspended sediment within a tropical catchment recovering from selective logging. Hydrological Processes, 2004, 18, 685-701.	1.1	68
13	Title is missing!. Plant Ecology, 2001, 153, 215-229.	0.7	63
14	Changing sources and environmental factors reduce the rates of decline of organochlorine pesticides in the Arctic atmosphere. Atmospheric Chemistry and Physics, 2012, 12, 4033-4044.	1.9	62
15	Resolving the Long-Term Trends of Polycyclic Aromatic Hydrocarbons in the Canadian Arctic Atmosphere. Environmental Science &	4.6	61
16	Long-term trends in atmospheric concentrations of \hat{l}_{\pm} - and \hat{l}^3 -HCH in the Arctic provide insight into the effects of legislation and climatic fluctuations on contaminant levels. Atmospheric Environment, 2008, 42, 8225-8233.	1.9	56
17	An unobserved component model for multi-rate forecasting of telephone call demand: the design of a forecasting support system. International Journal of Forecasting, 2002, 18, 673-695.	3.9	55
18	Estimation of Pore Water Concentrations from DGT Profiles: A Modelling Approach. Aquatic Geochemistry, 1999, 5, 337-355.	1.5	49

#	Article	IF	Citations
19	Long-term responses of rainforest erosional systems at different spatial scales to selective logging and climatic change. Philosophical Transactions of the Royal Society B: Biological Sciences, 2011, 366, 3340-3353.	1.8	49
20	Sodiumâ€related partial stomatal closure and salt tolerance of Aster tripolium. New Phytologist, 2002, 153, 509-515.	3.5	48
21	Proportional-integral-plus (PIP) design for delta (delta) operator systems Part 2. MIMO systems. International Journal of Control, 1998, 70, 149-168.	1.2	47
22	Theoretical Comparison of How Soil Processes Affect Uptake of Metals by Diffusive Gradients in Thinfilms and Plants. Journal of Environmental Quality, 2006, 35, 1903-1913.	1.0	46
23	An Evaluation of DGT Performance Using a Dynamic Numerical Model. Environmental Science & Emp; Technology, 2006, 40, 6368-6376.	4.6	45
24	Temporal Trends of Persistent Organic Pollutants: A Comparison of Different Time Series Models. Environmental Science & Enviro	4.6	45
25	Quantitative assessment of soil parameter (KD and TC) estimation using DGT measurements and the 2D DIFS model. Chemosphere, 2008, 71, 795-801.	4.2	39
26	Analysis of Micro-Nutrient Behaviour in the Rhizosphere using a DGT Parameterised Dynamic Plant Uptake Model. Plant and Soil, 2006, 282, 227-238.	1.8	37
27	Characterizing solute transport in undisturbed soil cores using electrical and X-ray tomographic methods., 1999, 13, 211-221.		34
28	BARUMODEL: Combined Data Based Mechanistic models of runoff response in a managed rainforest catchment. Forest Ecology and Management, 2006, 224, 58-80.	1.4	34
29	One-Dimensional Views of Three-Dimensional Sediments. Environmental Science & Emp; Technology, 1999, 33, 2611-2616.	4.6	33
30	First Dynamic Model of Dissolved Organic Carbon Derived Directly from High-Frequency Observations through Contiguous Storms. Environmental Science & E	4.6	30
31	Sampling frequency for water quality variables in streams: Systems analysis to quantify minimum monitoring rates. Water Research, 2017, 123, 49-57.	5.3	26
32	Towards the provision of site specific flood warnings using wireless sensor networks. Meteorological Applications, 2009, 16, 57-64.	0.9	25
33	Proportional-integral-plus (PIP) design for delta (delta) operator systems Part 1. SISO systems. International Journal of Control, 1998, 70, 123-147.	1.2	22
34	Sorption of trace metals (Cu, Pb, Zn) by suspended lake particles in artificial (0.005 M NaNO3) and natural (Esthwaite Water) freshwaters. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1997, 120, 205-219.	2.3	21
35	A three-dimensional reactive transport model for sediments, incorporating microniches. Environmental Chemistry, 2008, 5, 218.	0.7	19
36	Understanding small-scale features in DGT measurements in sediments. Environmental Chemistry, 2009, 6, 477.	0.7	17

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37	Identifying step changes in single streamflow and evaporation records due to forest cover change. Hydrological Processes, 2012, 26, 100-116.	1.1	17
38	A Matlab software framework for dynamic model emulation. Environmental Modelling and Software, 2012, 34, 19-29.	1.9	16
39	Strong and recurring seasonality revealed within stream diatom assemblages. Scientific Reports, 2019, 9, 3313.	1.6	16
40	Role of rainstorm intensity underestimated by data-derived flood models: Emerging global evidence from subsurface-dominated watersheds. Environmental Modelling and Software, 2017, 88, 1-9.	1,9	14
41	Does the Establishment of Sustainable Use Reserves Affect Fire Management in the Humid Tropics?. PLoS ONE, 2016, 11, e0149292.	1.1	14
42	Multi-state dependent parameter model identification and estimation for nonlinear dynamic systems. Electronics Letters, 2010, 46, 1265.	0.5	13
43	Calibrated digital images of Campbell–Stokes recorder card archives for direct solar irradiance studies. Atmospheric Measurement Techniques, 2013, 6, 1371-1379.	1.2	13
44	Exploratory studies into seasonal flow forecasting potential for large lakes. Hydrology and Earth System Sciences, 2018, 22, 127-141.	1,9	12
45	Hydrological functioning of cattle ranching impoundments in the Dry Chaco rangelands of Argentina. Hydrology Research, 2019, 50, 1596-1608.	1.1	12
46	Reversing hydrology: Estimation of sub-hourly rainfall time-series from streamflow. Environmental Modelling and Software, 2014, 60, 290-301.	1,9	11
47	Tropical Montane Forest Conversion Is a Critical Driver for Sediment Supply in East African Catchments. Water Resources Research, 2020, 56, e2020WR027495.	1.7	11
48	Modelling rainfall and canopy controls on net-precipitation beneath selectively-logged tropical forest. Forestry Sciences, 2001, , 215-229.	0.4	11
49	Prediction of storm transfers and annual loads with data-based mechanistic models using high-frequency data. Hydrology and Earth System Sciences, 2017, 21, 6425-6444.	1.9	9
50	Extended State Dependent Parameter modelling with a Data-Based Mechanistic approach to nonlinear model structure identification. Environmental Modelling and Software, 2018, 104, 81-93.	1.9	9
51	True digital control: A unified design procedure for linear sampled data control systems. , 1991, , 71-109.		8
52	Nierji reservoir flood forecasting based on a Data-Based Mechanistic methodology. Journal of Hydrology, 2018, 567, 227-237.	2.3	8
53	The effect of hedgerow wildâ∈margins on topsoil hydraulic properties, and overlandâ€flow incidence, magnitude and waterâ€quality. Hydrological Processes, 2021, 35, e14098.	1.1	8
54	Quantification of the effect of forest harvesting <i>versus </i> climate on streamflow cycles and trends in an evergreen broadleaf catchment. Hydrological Sciences Journal, 2016, 61, 1716-1727.	1.2	7

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55	New developments in the CAPTAIN Toolbox for Matlab with case study examples. IFAC-PapersOnLine, 2018, 51, 694-699.	0.5	7
56	A non-minimal state variable feedback approach to multivariable control of glasshouse climate. Transactions of the Institute of Measurement and Control, 1995, 17, 200-211.	1.1	6
57	The Captain Toolbox for Matlab. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 758-763.	0.4	6
58	Long-term variations in the net inflow record for Lake Malawi. Hydrology Research, 2017, 48, 851-866.	1.1	6
59	Development of the forSIM model to quantify positive and negative hydrological impacts of tropical reforestation. Forest Ecology and Management, 2007, 251, 52-64.	1.4	5
60	Simulating hourly rainfall occurrence within an equatorial rainforest, Borneo Island / Simulation de l'occurrence de pluie horaire au sein de la forêt ©quatoriale, lle de Bornéo. Hydrological Sciences Journal, 2009, 54, 571-581.	1.2	5
61	A Simple Transfer-Function-Based Approach for Estimating Material Parameters From Terahertz Time-Domain Data. IEEE Photonics Journal, 2014, 6, 1-11.	1.0	5
62	Managing Heterogeneous Data Flows in Wireless Sensor Networks Using a "Split Personality' Mote Platform., 2008,,.		4
63	Reversing hydrology: quantifying the temporal aggregation effect of catchment rainfall estimation using sub-hourly data. Hydrology Research, 2016, 47, 630-645.	1.1	4
64	What Really Happens at the End of the Rainbow? – Paying the Price for Reducing Uncertainty (Using) Tj ETQq(0 0 orgBT 1.2	/Oyerlock 10
65	Dynamic harmonic regression and irregular sampling; avoiding pre-processing and minimising modelling assumptions. Environmental Modelling and Software, 2019, 121, 104503.	1.9	4
66	The provision of site specific flood warnings using wireless sensor networks. , 2008, , 1241-1247.		4
67	TDC: Computer Aided True Digital Control of Multivariable Delta Operator Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1996, 29, 5617-5622.	0.4	3
68	Stochastic unobserved component models for adaptive signal extraction and forecasting., 0,,.		3
69	Spatially significant effects of selective tropical forestry on water, nutrient and sediment flows: a modelling-supported review., 2005,, 513-532.		3
70	Linear and Nonlinear Non-minimal State Space Control System Design. , 2012, , 559-581.		3
71	Texture dependence of the persistent NMR signal in superfluid3He-B. European Physical Journal D, 1996, 46, 233-234.	0.4	1
72	Extending Manley's Lancashire Plain Temperature Record: 1753–2007. International Journal of Climatology, 2012, 32, 1899-1908.	1.5	1

#	Article	lF	CITATIONS
73	Reflections on almost a century of hydrological studies on Africa's largest lake. Proceedings of the International Association of Hydrological Sciences, 0, 384, 141-147.	1.0	1
74	Seasonal flow forecasting in Africa; exploratory studies for large lakes. Proceedings of the International Association of Hydrological Sciences, 0, 384, 289-293.	1.0	0