

Wlodek Tych

List of Publications by Year in descending order

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Version: 2024-02-01

74
papers

3,157
citations

186209

28
h-index

161767

54
g-index

78
all docs

78
docs citations

78
times ranked

3137
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Tropical Montane Forest Conversion Is a Critical Driver for Sediment Supply in East African Catchments. Water Resources Research, 2020, 56, e2020WR027495.	1.7	11
3	Dynamic harmonic regression and irregular sampling; avoiding pre-processing and minimising modelling assumptions. Environmental Modelling and Software, 2019, 121, 104503.	1.9	4
4	Strong and recurring seasonality revealed within stream diatom assemblages. Scientific Reports, 2019, 9, 3313.	1.6	16
5	Polycyclic Aromatic Hydrocarbons Not Declining in Arctic Air Despite Global Emission Reduction. Environmental Science & Technology, 2019, 53, 2375-2382.	4.6	88
6	Hydrological functioning of cattle ranching impoundments in the Dry Chaco rangelands of Argentina. Hydrology Research, 2019, 50, 1596-1608.	1.1	12
7	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
8	New developments in the CAPTAIN Toolbox for Matlab with case study examples. IFAC-PapersOnLine, 2018, 51, 694-699.	0.5	7
9	Nierji reservoir flood forecasting based on a Data-Based Mechanistic methodology. Journal of Hydrology, 2018, 567, 227-237.	2.3	8
10	Exploratory studies into seasonal flow forecasting potential for large lakes. Hydrology and Earth System Sciences, 2018, 22, 127-141.	1.9	12
11	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
12	Long-term variations in the net inflow record for Lake Malawi. Hydrology Research, 2017, 48, 851-866.	1.1	6
13	Major agricultural changes required to mitigate phosphorus losses under climate change. Nature Communications, 2017, 8, 161.	5.8	121
14	Sampling frequency for water quality variables in streams: Systems analysis to quantify minimum monitoring rates. Water Research, 2017, 123, 49-57.	5.3	26
15	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
16	Reversing hydrology: quantifying the temporal aggregation effect of catchment rainfall estimation using sub-hourly data. Hydrology Research, 2016, 47, 630-645.	1.1	4
17	North Atlantic forcing of moisture delivery to Europe throughout the Holocene. Scientific Reports, 2016, 6, 24745.	1.6	74
18	What Really Happens at the End of the Rainbow? â€™ Paying the Price for Reducing Uncertainty (Using) Tj ETQq0 0,0,rgBT /Oyerlock 10	1.2	4

#	ARTICLE	IF	CITATIONS
19	Quantification of the effect of forest harvesting versus climate on streamflow cycles and trends in an evergreen broadleaf catchment. <i>Hydrological Sciences Journal</i> , 2016, 61, 1716-1727.	1.2	7
20	Does the Establishment of Sustainable Use Reserves Affect Fire Management in the Humid Tropics?. <i>PLoS ONE</i> , 2016, 11, e0149292.	1.1	14
21	A Simple Transfer-Function-Based Approach for Estimating Material Parameters From Terahertz Time-Domain Data. <i>IEEE Photonics Journal</i> , 2014, 6, 1-11.	1.0	5
22	First Dynamic Model of Dissolved Organic Carbon Derived Directly from High-Frequency Observations through Contiguous Storms. <i>Environmental Science & Technology</i> , 2014, 48, 13289-13297.	4.6	30
23	Reversing hydrology: Estimation of sub-hourly rainfall time-series from streamflow. <i>Environmental Modelling and Software</i> , 2014, 60, 290-301.	1.9	11
24	Calibrated digital images of Campbell's Stokes recorder card archives for direct solar irradiance studies. <i>Atmospheric Measurement Techniques</i> , 2013, 6, 1371-1379.	1.2	13
25	Changing sources and environmental factors reduce the rates of decline of organochlorine pesticides in the Arctic atmosphere. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 4033-4044.	1.9	62
26	Temporal Trends of Persistent Organic Pollutants: A Comparison of Different Time Series Models. <i>Environmental Science & Technology</i> , 2012, 46, 3928-3934.	4.6	45
27	Linear and Nonlinear Non-minimal State Space Control System Design. , 2012, , 559-581.		3
28	A Matlab software framework for dynamic model emulation. <i>Environmental Modelling and Software</i> , 2012, 34, 19-29.	1.9	16
29	Identifying step changes in single streamflow and evaporation records due to forest cover change. <i>Hydrological Processes</i> , 2012, 26, 100-116.	1.1	17
30	Extending Manley's Lancashire Plain Temperature Record: 1753-2007. <i>International Journal of Climatology</i> , 2012, 32, 1899-1908.	1.5	1
31	Long-term responses of rainforest erosional systems at different spatial scales to selective logging and climatic change. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2011, 366, 3340-3353.	1.8	49
32	Multi-state dependent parameter model identification and estimation for nonlinear dynamic systems. <i>Electronics Letters</i> , 2010, 46, 1265.	0.5	13
33	Towards the provision of site specific flood warnings using wireless sensor networks. <i>Meteorological Applications</i> , 2009, 16, 57-64.	0.9	25
34	Simulating hourly rainfall occurrence within an equatorial rainforest, Borneo Island / Simulation de l'occurrence de pluie horaire au sein de la forêt équatoriale, Ile de Bornéo. <i>Hydrological Sciences Journal</i> , 2009, 54, 571-581.	1.2	5
35	Understanding small-scale features in DGT measurements in sediments. <i>Environmental Chemistry</i> , 2009, 6, 477.	0.7	17
36	The Captain Toolbox for Matlab. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2009, 42, 758-763.	0.4	6

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37	Long-term trends in atmospheric concentrations of $\hat{1}\pm$ - and $\hat{1}^3$ -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
38	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
39	Managing Heterogeneous Data Flows in Wireless Sensor Networks Using a "Split Personality" Mote Platform. , 2008, , .		4
40	A three-dimensional reactive transport model for sediments, incorporating microniches. Environmental Chemistry, 2008, 5, 218.	0.7	19
41	The provision of site specific flood warnings using wireless sensor networks. , 2008, , 1241-1247.		4
42	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
43	2D DGT induced fluxes in sediments and soils (2D DIFS). Environmental Modelling and Software, 2007, 22, 14-23.	1.9	89
44	Environmental time series analysis and forecasting with the Captain toolbox. Environmental Modelling and Software, 2007, 22, 797-814.	1.9	226
45	An Evaluation of DGT Performance Using a Dynamic Numerical Model. Environmental Science & Technology, 2006, 40, 6368-6376.	4.6	45
46	Resolving the Long-Term Trends of Polycyclic Aromatic Hydrocarbons in the Canadian Arctic Atmosphere. Environmental Science & Technology, 2006, 40, 3217-3222.	4.6	61
47	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
48	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
49	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
50	Spatially significant effects of selective tropical forestry on water, nutrient and sediment flows: a modelling-supported review. , 2005, , 513-532.		3
51	Sources of suspended sediment within a tropical catchment recovering from selective logging. Hydrological Processes, 2004, 18, 685-701.	1.1	68
52	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
53	Sodium-related partial stomatal closure and salt tolerance of Aster tripolium. New Phytologist, 2002, 153, 509-515.	3.5	48
54	Title is missing!. Plant Ecology, 2001, 153, 215-229.	0.7	63

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55	Modelling rainfall and canopy controls on net-precipitation beneath selectively-logged tropical forest. <i>Forestry Sciences</i> , 2001, , 215-229.	0.4	11
56	DIFSâ€™a modelling and simulation tool for DGT induced trace metal remobilisation in sediments and soils. <i>Environmental Modelling and Software</i> , 2000, 15, 55-66.	1.9	182
57	Estimation of Pore Water Concentrations from DGT Profiles: A Modelling Approach. <i>Aquatic Geochemistry</i> , 1999, 5, 337-355.	1.5	49
58	Characterizing solute transport in undisturbed soil cores using electrical and X-ray tomographic methods. , 1999, 13, 211-221.		34
59	Dynamic harmonic regression. <i>Journal of Forecasting</i> , 1999, 18, 369-394.	1.6	254
60	One-Dimensional Views of Three-Dimensional Sediments. <i>Environmental Science & Technology</i> , 1999, 33, 2611-2616.	4.6	33
61	Kinetics of metal exchange between solids and solutions in sediments and soils interpreted from DGT measured fluxes. <i>Geochimica Et Cosmochimica Acta</i> , 1998, 62, 2757-2770.	1.6	302
62	Proportional-integral-plus (PIP) design for delta (delta) operator systems Part 1. SISO systems. <i>International Journal of Control</i> , 1998, 70, 123-147.	1.2	22
63	Proportional-integral-plus (PIP) design for delta (delta) operator systems Part 2. MIMO systems. <i>International Journal of Control</i> , 1998, 70, 149-168.	1.2	47
64	Temporal, Spatial, and Resolution Constraints for in Situ Sampling Devices Using Diffusional Equilibration: A Dialysis and DET. <i>Environmental Science & Technology</i> , 1997, 31, 3110-3119.	4.6	102
65	Sorption of trace metals (Cu, Pb, Zn) by suspended lake particles in artificial (0.005 M NaNO ₃) and natural (Esthwaite Water) freshwaters. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 1997, 120, 205-219.	2.3	21
66	TDC: Computer Aided True Digital Control of Multivariable Delta Operator Systems. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 1996, 29, 5617-5622.	0.4	3
67	Texture dependence of the persistent NMR signal in superfluid ³ He-B. <i>European Physical Journal D</i> , 1996, 46, 233-234.	0.4	1
68	A non-minimal state variable feedback approach to multivariable control of glasshouse climate. <i>Transactions of the Institute of Measurement and Control</i> , 1995, 17, 200-211.	1.1	6
69	In situ high resolution measurements of fluxes of Ni, Cu, Fe, and Mn and concentrations of Zn and Cd in porewaters by DGT. <i>Geochimica Et Cosmochimica Acta</i> , 1995, 59, 4181-4192.	1.6	322
70	Modelling and PIP control of a glasshouse micro-climate. <i>Control Engineering Practice</i> , 1994, 2, 591-604.	3.2	74
71	True digital control: A unified design procedure for linear sampled data control systems. , 1991, , 71-109.		8
72	Stochastic unobserved component models for adaptive signal extraction and forecasting. , 0, , .		3

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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