

Christophe Cudennec

List of Publications by Year in descending order

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85
papers

4,464
citations

255307

23
h-index

87963

66
g-index

101
all docs

101
docs citations

101
times ranked

5901
citing authors

#	ARTICLE	IF	CITATIONS
1	Can we use indicator-based farm sustainability assessment tools for the WEF Nexus?. Proceedings of the International Association of Hydrological Sciences, 2024, 385, 91-96.	0.3	1
2	Use of the HEC RAS model for the analysis of exceptional floods in the OuÃ©mÃ© basin. Proceedings of the International Association of Hydrological Sciences, 2024, 385, 141-146.	0.3	2
3	Uptake by end-users of a PUB approach made available as a Web Service. Proceedings of the International Association of Hydrological Sciences, 2024, 385, 85-89.	0.3	1
4	The IAHS Science for Solutions decade, with Hydrology Engaging Local People IN one Global world (HELPING). Hydrological Sciences Journal, 2024, 69, 1417-1435.	2.5	8
5	The transfR toolbox for transferring observed streamflow series to ungauged basins based on their hydrogeomorphology. Environmental Modelling and Software, 2023, 159, 105562.	4.5	7
6	An end-user-friendly hydrological Web Service for hydrograph prediction in ungauged basins. Hydrological Sciences Journal, 2022, 67, 2420-2428.	2.5	10
7	Intergovernmental cooperation for hydrometry â€“ what, why and how?. Hydrological Sciences Journal, 2022, 67, 2552-2566.	2.5	29
8	Citizens AND Hydrology (CANDHY): conceptualizing a transdisciplinary framework for citizen science addressing hydrological challenges. Hydrological Sciences Journal, 2022, 67, 2534-2551.	2.5	48
9	Ensuring consideration of water quality in nexus approaches in the scienceâ€“practice continuum: reply to discussion of â€œWater quality: the missing dimension of water in the waterâ€“energyâ€“food nexus?â€• Hydrological Sciences Journal, 2022, 67, 1291-1293.	2.5	1
10	Governing Open Science. Hydrological Sciences Journal, 2022, 67, 2359-2362.	2.5	9
11	Editorial â€“ Operational, epistemic and ethical value chaining of hydrological data to knowledge and services: a watershed moment. Hydrological Sciences Journal, 2022, 67, 2363-2368.	2.5	4
12	Water quality: the missing dimension of water in the waterâ€“energyâ€“food nexus. Hydrological Sciences Journal, 2021, 66, 745-758.	2.5	21
13	Preface: Hydrology of Large River Basins in Africa. Proceedings of the International Association of Hydrological Sciences, 2021, 384, 1-4.	0.3	1
14	Invigorating Hydrological Research Through Journal Publications. Water Resources Research, 2020, 56, .	4.6	5
15	Editorial â€“ Towards FAIR and SQUARE hydrological data. Hydrological Sciences Journal, 2020, 65, 681-682.	2.5	25
16	A Framework to Consider Soil Ecosystem Services in Territorial Planning. Frontiers in Environmental Science, 2020, 8, .	3.3	32
17	Geomorphometry-based modelling of discharge series in ungauged basins â€“ Robustness regarding DEM sources. Proceedings of the International Association of Hydrological Sciences, 2020, 383, 129-134.	0.3	2
18	Preface: Hydrological processes and water security in a changing world. Proceedings of the International Association of Hydrological Sciences, 2020, 383, 3-4.	0.3	5

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19	Relevance of a near infrared spectral index for assessing tillage and fertilization effects on soil water retention. <i>Soil and Tillage Research</i> , 2019, 194, 104345.	6.6	6
20	Sociohydrology: Scientific Challenges in Addressing the Sustainable Development Goals. <i>Water Resources Research</i> , 2019, 55, 6327-6355.	4.6	291
21	PUB in Québec: A robust geomorphology-based deconvolution-reconvolution framework for the spatial transposition of hydrographs. <i>Journal of Hydrology</i> , 2019, 570, 378-392.	5.9	12
22	Twenty-three unsolved problems in hydrology (UPH) – a community perspective. <i>Hydrological Sciences Journal</i> , 2019, 64, 1141-1158.	2.5	568
23	Assessment of freshwater discharge into a coastal bay through multi-basin ensemble hydrological modelling. <i>Science of the Total Environment</i> , 2019, 669, 812-820.	8.4	9
24	Net rainfall estimation by the inversion of a geomorphology-based transfer function and discharge deconvolution. <i>Hydrological Sciences Journal</i> , 2018, 63, 285-301.	2.5	10
25	Measurements and Observations in the XXI century (MOXXI): innovation and multi-disciplinarity to sense the hydrological cycle. <i>Hydrological Sciences Journal</i> , 2018, 63, 169-196.	2.5	154
26	Joint Editorial: Invigorating hydrological research through journal publications. <i>Hydrology Research</i> , 2018, 49, iii-ix.	2.6	0
27	Epistemological dimensions of the water–energy–food nexus approach: reply to discussions of “Challenges in operationalizing the water–energy–food nexus”. <i>Hydrological Sciences Journal</i> , 2018, 63, 1868-1871.	2.5	15
28	Statistical detection and no-detection of rainfall change trends and breaks in semiarid Tunisia’s 50+ years over the Merguellil agro-hydro-climatic reference basin. <i>Arabian Journal of Geosciences</i> , 2018, 11, .	1.5	9
29	Joint editorial: Invigorating hydrological research through journal publications. <i>Hydrology and Earth System Sciences</i> , 2018, 22, 5735-5739.	4.8	4
30	Invigorating Hydrological Research through Journal Publications. <i>Journal of Hydrometeorology</i> , 2018, 19, 1713-1719.	4.4	0
31	Joint Editorial: Invigorating hydrological research through journal publications. <i>Journal of Hydrology: Regional Studies</i> , 2018, 19, 365-369.	2.6	0
32	Invigorating hydrological research through journal publications. <i>Journal of Hydrology</i> , 2018, 567, 560-563.	5.9	0
33	Joint Editorial: Invigorating Hydrological Research through Journal Publications. <i>Vadose Zone Journal</i> , 2018, 17, 180001ed.	2.7	0
34	Valuing scarce observation of rainfall variability with flexible semi-distributed hydrological modelling – Mountainous Mediterranean context. <i>Science of the Total Environment</i> , 2018, 643, 346-356.	8.4	17
35	Invigorating hydrological research through journal publications. <i>Ecohydrology</i> , 2018, 11, .	2.3	0
36	Invigorating hydrological research through journal publications. <i>Hydrological Sciences Journal</i> , 2018, 63, 1113-1117.	2.5	4

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37	Joint Editorial Invigorating Hydrological Research through Journal Publications. Journal of Hydrology and Hydromechanics, 2018, 66, 257-260.	2.0	1
38	Joint editorial: Invigorating hydrological research through journal publications. Proceedings of the International Association of Hydrological Sciences, 2018, 380, 3-8.	0.3	0
39	Regional watershed characterization and classification with river network analyses. Earth Surface Processes and Landforms, 2017, 42, 2068-2081.	2.8	17
40	Geostatistically based optimization of a rainfall monitoring network extension: case of the climatically heterogeneous Tunisia. Hydrology Research, 2017, 48, 514-541.	2.6	28
41	Challenges in operationalizing the water-“energy”-food nexus. Hydrological Sciences Journal, 2017, 62, 1714-1720.	2.5	176
42	Joint Editorial-“Fostering Innovation and Improving Impact Assessment for Journal Publications in Hydrology. Vadose Zone Journal, 2016, 15, 1-4.	2.7	1
43	Hydrometeorology and Hydroclimate. Advances in Meteorology, 2016, 2016, 1-4.	1.9	7
44	Joint editorial: Fostering innovation and improving impact assessment for journal publications in hydrology. Water Resources Research, 2016, 52, 2399-2402.	4.6	12
45	Evaluation of potential evapotranspiration assessment methods for hydrological modelling with SWAT-“Application in data-scarce rural Tunisia. Agricultural Water Management, 2016, 174, 39-51.	6.2	81
46	Joint editorial -“ Fostering innovation and improving impact assessment for journal publications in hydrology. Journal of Hydrology, 2016, 537, A1-A4.	5.9	1
47	Plausible and desirable futures in the Anthropocene: A new research agenda. Global Environmental Change, 2016, 39, 351-362.	9.1	402
48	Adaptation of water resources systems to changing society and environment: a statement by the International Association of Hydrological Sciences. Hydrological Sciences Journal, 2016, 61, 2803-2817.	2.5	63
49	Joint editorial-“Fostering innovation and improving impact assessment for journal publications in hydrology. Journal of Hydrology: Regional Studies, 2016, 6, 112-115.	2.6	0
50	Re-conceptualizing the Anthropocene: A call for collaboration. Global Environmental Change, 2016, 39, 318-327.	9.1	218
51	Joint Editorial: Fostering innovation and improving impact assessment for journal publications in hydrology. Hydrology and Earth System Sciences, 2016, 20, 1081-1084.	4.8	3
52	G-“oSAS: A modular and interoperable Open Source Spatial Data Infrastructure for research. Proceedings of the International Association of Hydrological Sciences, 2015, 368, 9-14.	0.3	4
53	Online watershed boundary delineation: sharing models through Spatial Data Infrastructures. Proceedings of the International Association of Hydrological Sciences, 2015, 368, 144-149.	0.3	3
54	Editorial: Hydrogeomorphology -“ a long-term scientific interface. Hydrology Research, 2015, 46, 175-179.	2.6	8

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55	Prediction of streamflow from the set of basins flowing into a coastal bay. Proceedings of the International Association of Hydrological Sciences, 2015, 365, 55-60.	0.3	4
56	Assessing the hydrological impacts of agricultural changes upstream of the Tunisian World Heritage sea-connected Ichkeul Lake. Proceedings of the International Association of Hydrological Sciences, 2015, 365, 61-65.	0.3	10
57	Hydrological sciences and water security: An overview. Proceedings of the International Association of Hydrological Sciences, 2015, 366, 1-9.	0.3	26
58	Autopsie des Événements hydrométéorologiques extrêmes de 1969 en Tunisie. Proceedings of the International Association of Hydrological Sciences, 2015, 369, 169-173.	0.3	1
59	Valuing knowledge on temporal dynamics from long-term monitored basins for neighbouring sites. Proceedings of the International Association of Hydrological Sciences, 2015, 366, 179-180.	0.3	0
60	Preface: Extreme Hydrological Events. Proceedings of the International Association of Hydrological Sciences, 2015, 369, 1-2.	0.3	0
61	Modeling Water Quality to Improve Agricultural Practices and Land Management in a Tunisian Catchment Using the Soil and Water Assessment Tool. Journal of Environmental Quality, 2014, 43, 18-25.	4.1	36
62	Sensitivity analysis of SWAT model to the spatial rainfall distribution and watershed subdivision in streamflow simulations in the Mediterranean context: A case study in the Joumine watershed. Tunisia, 2013, 1-6.		3
63	A decade of Predictions in Ungauged Basins (PUB) – a review. Hydrological Sciences Journal, 2013, 58, 1198-1255.	2.5	847
64	“Panta Rhei” Everything Flows – Change in hydrology and society – The IAHS Scientific Decade 2013–2022. Hydrological Sciences Journal, 2013, 58, 1256-1275.	2.5	564
65	Joint spatial, topological and scaling analysis framework of river-network geomorphometry. Geomorphologie Relief, Processus, Environnement, 2013, 19, 7-16.	0.0	10
66	Structures spatiales de l'évapotranspiration de référence et des variables climatiques corrélées en Tunisie. Hydrological Sciences Journal, 2012, 57, 818-829.	2.5	11
67	Incorporating elevation in rainfall interpolation in Tunisia using geostatistical methods. Hydrological Sciences Journal, 2012, 57, 1294-1314.	2.5	44
68	Interpolation of reference evapotranspiration in Tunisia using ordinary kriging. S@cheresse, 2012, 23, 121-132.	0.4	3
69	Plant functional traits capture species richness variations along a flooding gradient. Oikos, 2011, 120, 389-398.	2.7	64
70	Contrasting behaviour of two riparian wetlands in relation to their location in the hydrographic network. Journal of Hydrology, 2011, 406, 39-53.	5.9	13
71	Statistical distribution of rainy events characteristics and instantaneous hyetographs generation (Merguellil watershed in central Tunisia). Arabian Journal of Geosciences, 2011, 6, 1581-1590.	1.5	11
72	The multi-objective role of HSJ in processing and disseminating hydrological knowledge. Hydrological Sciences Journal, 2008, 53, 485-487.	2.5	23

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73	Structure du gradient pluviométrique de la transition Méditerranéenne-Sahara en Tunisie: déterminants géographiques et saisonnalité /<i>Structure of the rainfall gradient in the Mediterranean-Sahara transition in Tunisia: geographical determinants and seasonality</i>. Hydrological Sciences Journal, 2007, 52, 1088-1102.	2.5	43
74	On width function-based unit hydrographs deduced from separately random self-similar river networks and rainfall variability: Discussion of "Coding random self-similar river networks and calculating geometric distances: 1. General methodology" and "2. Application to runoff simulations". Hydrological Sciences Journal, 2007, 52, 230-237.	2.5	16
75	Dryland hydrology in Mediterranean regions—a review. Hydrological Sciences Journal, 2007, 52, 1077-1087.	2.5	165
76	Gestion de l'eau en milieu aride: considérations physiques et sociales pour l'identification des territoires pertinents dans le Sud-Est tunisien. Développement Durable Et Territoires, 2006, , .	0.2	10
77	Structural patterns in river network organization at both infra- and supra-basin levels: the case of a granitic relief. Earth Surface Processes and Landforms, 2006, 31, 369-381.	2.8	15
78	Application of morphological approaches to determine unit hydrographs of urban catchments. Hydrological Processes, 2005, 19, 1021-1035.	2.6	43
79	On the transposition and the improvement of an allometric model from river networks to trees: identification of analogous objects, variables and modellings. Journal of Theoretical Biology, 2005, 233, 151-157.	1.8	2
80	Accounting for sparsely observed rainfall space-time variability in a rainfall-runoff model of a semiarid Tunisian basin/Prise en compte d'observations peu denses de la variabilité spatiotemporelle de la pluie dans une modélisation pluie-runoff d'un bassin semi-aride Tunisien. Hydrological Sciences Journal, 2005, 50, .	2.5	29
81	Hydrological processes in macrocatchment water harvesting in the arid region of Tunisia: the traditional system of tabias/Processus hydrologiques au sein d'un aménagement de collecte des eaux dans la région aride tunisienne: le système traditionnel des tabias. Hydrological Sciences Journal, 2004, 49, .	2.5	24
82	Use of a geomorphological transfer function to model design floods in small hillside catchments in semiarid Tunisia. Journal of Hydrology, 2004, 287, 197-213.	5.9	34
83	Panta Rhei 2013-2015: global perspectives on hydrology, society and change. Hydrological Sciences Journal, 0, , 1-18.	2.5	60
84	Joint editorial "Fostering innovation and improving impact assessment for journal publications in hydrology. Hydrological Sciences Journal, 0, , 1-4.	2.5	8
85	Should old acquaintance be forgot? Comment on "Farewell, HSI" address from the retiring editor-by Z.W. Kundzewicz. Hydrological Sciences Journal, 0, , 1-2.	2.5	1