

Alexander N Sukhodolov

List of Publications by Year in descending order

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Version: 2024-02-01

46
papers

2,482
citations

172457

29
h-index

233421

45
g-index

47
all docs

47
docs citations

47
times ranked

1275
citing authors

#	ARTICLE	IF	CITATIONS
1	Field investigation of three-dimensional flow structure at stream confluences: 1. Thermal mixing and time-averaged velocities. <i>Water Resources Research</i> , 2001, 37, 2393-2410.	4.2	198
2	Structure of turbulent flow at a river confluence with momentum and velocity ratios close to 1: Insight provided by an eddy-resolving numerical simulation. <i>Water Resources Research</i> , 2011, 47, .	4.2	153
3	Turbulence structure in a river reach with sand bed. <i>Water Resources Research</i> , 1998, 34, 1317-1334.	4.2	151
4	Field investigation of three-dimensional flow structure at stream confluences: 2. Turbulence. <i>Water Resources Research</i> , 2001, 37, 2411-2424.	4.2	147
5	Spatial and temporal structure of shear layer turbulence at a stream confluence. <i>Water Resources Research</i> , 2004, 40, .	4.2	116
6	Lateral momentum flux and the spatial evolution of flow within a confluence mixing interface. <i>Water Resources Research</i> , 2008, 44, .	4.2	116
7	Numerical analysis of the effect of momentum ratio on the dynamics and sediment-entrainment capacity of coherent flow structures at a stream confluence. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	112
8	Statistical sand wave dynamics in one-directional water flows. <i>Journal of Fluid Mechanics</i> , 1997, 351, 17-39.	3.4	94
9	On the correspondence between morphological and hydrodynamical patterns of groyne fields. <i>Earth Surface Processes and Landforms</i> , 2002, 27, 289-305.	2.5	81
10	Effects of aquatic macrophytes on organic matter deposition, resuspension and phosphorus entrainment in a lowland river. <i>Freshwater Biology</i> , 2010, 55, 326-345.	2.4	75
11	Aquatic interfaces: a hydrodynamic and ecological perspective. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2014, 52, 744-758.	1.7	73
12	Turbulent flow structure at a discordant river confluence: Asymmetric jet dynamics with implications for channel morphology. <i>Journal of Geophysical Research F: Earth Surface</i> , 2017, 122, 1278-1293.	2.8	72
13	Numerical evaluation of the effects of planform geometry and inflow conditions on flow, turbulence structure, and bed shear velocity at a stream confluence with a concordant bed. <i>Journal of Geophysical Research F: Earth Surface</i> , 2014, 119, 2079-2097.	2.8	68
14	Case Study: Effect of Submerged Aquatic Plants on Turbulence Structure in a Lowland River. <i>Journal of Hydraulic Engineering</i> , 2010, 136, 434-446.	1.5	67
15	Dynamics of shallow lateral shear layers: Experimental study in a river with a sandy bed. <i>Water Resources Research</i> , 2010, 46, .	4.2	67
16	Influence of planform geometry and momentum ratio on thermal mixing at a stream confluence with a concordant bed. <i>Environmental Fluid Mechanics</i> , 2016, 16, 845-873.	1.6	64
17	Case Study: Turbulent Flow and Sediment Distributions in a Groyne Field. <i>Journal of Hydraulic Engineering</i> , 2004, 130, 1-9.	1.5	61
18	Mass exchange in a shallow channel flow with a series of groynes: LES study and comparison with laboratory and field experiments. <i>Environmental Fluid Mechanics</i> , 2009, 9, 587-615.	1.6	61

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19	Dynamics of Flow at Concordant Gravel Bed River Confluences: Effects of Junction Angle and Momentum Flux Ratio. <i>Journal of Geophysical Research F: Earth Surface</i> , 2019, 124, 588-615.	2.8	59
20	Experimental and numerical validation of the dead-zone model for longitudinal dispersion in rivers. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 1998, 36, 269-280.	1.7	55
21	Vegetated mixing layer around a finite-size patch of submerged plants: 1. Theory and field experiments. <i>Water Resources Research</i> , 2012, 48, .	4.2	52
22	Field-based research in fluvial hydraulics: potential, paradigms and challenges. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2015, 53, 1-19.	1.7	48
23	Structure of turbulent flow in a meander bend of a lowland river. <i>Water Resources Research</i> , 2012, 48, .	4.2	41
24	Hydrodynamics of groyne fields in a straight river reach: insight from field experiments. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2014, 52, 105-120.	1.7	40
25	Structure of flow over alluvial bedforms: an experiment on linking field and laboratory methods. <i>Earth Surface Processes and Landforms</i> , 2006, 31, 1292-1310.	2.5	38
26	A Model of Navigation-Induced Currents in Inland Waterways and Implications for Juvenile Fish Displacement. <i>Environmental Management</i> , 2004, 34, 656-668.	2.7	37
27	Random displacement versus habitat choice of fish larvae in rivers. <i>River Research and Applications</i> , 2008, 24, 661-672.	1.7	36
28	A case study of longitudinal dispersion in small lowland rivers. <i>Water Environment Research</i> , 1997, 69, 1246-1253.	2.7	32
29	Vegetated mixing layer around a finite-size patch of submerged plants: Part 2. Turbulence statistics and structures. <i>Water Resources Research</i> , 2012, 48, .	4.2	31
30	Density Effects at a Concordant Bed Natural River Confluence. <i>Water Resources Research</i> , 2020, 56, e2019WR026217.	4.2	29
31	Effects of vegetation on turbulent flow structure in groyne fields. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2017, 55, 1-15.	1.7	24
32	Implications of channel processes for juvenile fish habitats in Alpine rivers. <i>Aquatic Sciences</i> , 2009, 71, 338-349.	1.5	23
33	Turbulence structure in an ice-covered, sand-bed river. <i>Water Resources Research</i> , 1999, 35, 889-894.	4.2	21
34	Advective Lateral Transport of Streamwise Momentum Governs Mixing at Small River Confluences. <i>Water Resources Research</i> , 2020, 56, e2019WR026817.	4.2	21
35	Flow dynamics in alluvial channels: the legacy of Kirill V. Grishanin. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2011, 49, 285-292.	1.7	19
36	Comment on drag and reconfiguration of macrophytes. <i>Freshwater Biology</i> , 2005, 50, 194-195.	2.4	18

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37	Reconstruction of pristine morphology, flow, nutrient conditions and submerged vegetation of lowland river spree (Germany) from palaeomeanders. <i>River Research and Applications</i> , 2008, 24, 310-329.	1.7	17
38	Assessment of a River Reach for Environmental Fluid Dynamics Studies. <i>Journal of Hydraulic Engineering</i> , 2010, 136, 880-888.	1.5	16
39	Shallow wake behind exposed wood-induced bar in a gravel-bed river. <i>Environmental Fluid Mechanics</i> , 2014, 14, 1071-1083.	1.6	15
40	Non-hydrostatic versus hydrostatic modelings of free surface flows. <i>Journal of Hydrodynamics</i> , 2014, 26, 512-522.	3.2	15
41	A study of flow dynamics and implications for benthic fauna in a meander bend of a lowland river. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2015, 53, 488-504.	1.7	7
42	Sampling strategies to improve scaling parameter estimates in rivers. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2019, 57, 798-807.	1.7	4
43	Dynamics of shallow wakes on gravel-bed floodplains: dataset from field experiments. <i>Earth System Science Data</i> , 2021, 13, 1519-1529.	9.9	3
44	Modelling of flexible aquatic plants from silicone syntactic foams. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2022, 60, 173-181.	1.7	3
45	Comment on "determination of areal sedimentation rates in rivers by using plate sediment trap measurements and flow velocity" settling flux relationship" by Hans-Peter Kozerski. <i>Water Research</i> , 2003, 37, 2794-2795.	11.3	2
46	Flowing Water, Turbulent and Laminar Flows. , 2022, , .		0