# Alexander N Sukhodolov

List of Publications by Year
in descending order



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|---|---|---|---|
| 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 | Modelling of flexible aquatic plants from silicone syntactic foams. Journal of Hydraulic Research/De Recherches Hydrauliques, 2022, 60, 173-181. | 1.7 | 3 |
| 2 | Flowing Water, Turbulent and Laminar Flows. , 2022, , . | | 0 |
| 3 | Dynamics of shallow wakes on gravel-bed floodplains: dataset from field experiments. Earth System Science Data, 2021, 13, 1519-1529. | 9.9 | 3 |
| 4 | Advective Lateral Transport of Streamwise Momentum Governs Mixing at Small River Confluences. Water Resources Research, 2020, 56, e2019WR026817. | 4.2 | 21 |
| 5 | Density Effects at a Concordant Bed Natural River Confluence. Water Resources Research, 2020, 56, e2019WR026217. | 4.2 | 29 |
| 6 | Dynamics of Flow at Concordant Gravel Bed River Confluences: Effects of Junction Angle and Momentum Flux Ratio. Journal of Geophysical Research F: Earth Surface, 2019, 124, 588-615. | 2.8 | 59 |
| 7 | Sampling strategies to improve scaling parameter estimates in rivers. Journal of Hydraulic Research/De Recherches Hydrauliques, 2019, 57, 798-807. | 1.7 | 4 |
| 8 | Turbulent flow structure at a discordant river confluence: Asymmetric jet dynamics with implications for channel morphology. Journal of Geophysical Research F: Earth Surface, 2017, 122, 1278-1293. | 2.8 | 72 |
| 9 | Effects of vegetation on turbulent flow structure in groyne fields. Journal of Hydraulic Research/De Recherches Hydrauliques, 2017, 55, 1-15. | 1.7 | 24 |
| 10 | Influence of planform geometry and momentum ratio on thermal mixing at a stream confluence with a concordant bed. Environmental Fluid Mechanics, 2016, 16, 845-873. | 1.6 | 64 |
| 11 | Field-based research in fluvial hydraulics: potential, paradigms and challenges. Journal of Hydraulic Research/De Recherches Hydrauliques, 2015, 53, 1-19. | 1.7 | 48 |
| 12 | A study of flow dynamics and implications for benthic fauna in a meander bend of a lowland river. Journal of Hydraulic Research/De Recherches Hydrauliques, 2015, 53, 488-504. | 1.7 | 7 |
| 13 | Aquatic interfaces: a hydrodynamic and ecological perspective. Journal of Hydraulic Research/De Recherches Hydrauliques, 2014, 52, 744-758. | 1.7 | 73 |
| 14 | Shallow wake behind exposed wood-induced bar in a gravel-bed river. Environmental Fluid Mechanics, 2014, 14, 1071-1083. | 1.6 | 15 |
| 15 | 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. Journal of Geophysical Research F: Earth Surface, 2014, 119, 2079-2097. | 2.8 | 68 |
| 16 | Non-hydrostatic versus hydrostatic modelings of free surface flows. Journal of Hydrodynamics, 2014, 26, 512-522. | 3.2 | 15 |
| 17 | Hydrodynamics of groyne fields in a straight river reach: insight from field experiments. Journal of Hydraulic Research/De Recherches Hydrauliques, 2014, 52, 105-120. | 1.7 | 40 |
| 18 | Vegetated mixing layer around a finiteâ€size patch of submerged plants: 1. Theory and field experiments. Water Resources Research, 2012, 48, . | 4.2 | 52 |

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|---|---|---|---|
| 19 | Vegetated mixing layer around a finiteâ€size patch of submerged plants: Part 2. Turbulence statistics and structures. Water Resources Research, 2012, 48, . | 4.2 | 31 |
| 20 | Numerical analysis of the effect of momentum ratio on the dynamics and sedimentâ€entrainment capacity of coherent flow structures at a stream confluence. Journal of Geophysical Research, 2012, 117, . | 3.3 | 112 |
| 21 | Structure of turbulent flow in a meander bend of a lowland river. Water Resources Research, 2012, 48, . | 4.2 | 41 |
| 22 | Flow dynamics in alluvial channels: the legacy of Kirill V. Grishanin. Journal of Hydraulic Research/De Recherches Hydrauliques, 2011, 49, 285-292. | 1.7 | 19 |
| 23 | Structure of turbulent flow at a river confluence with momentum and velocity ratios close to 1: Insight provided by an eddyâ€resolving numerical simulation. Water Resources Research, 2011, 47, . | 4.2 | 153 |
| 24 | Effects of aquatic macrophytes on organic matter deposition, resuspension and phosphorus entrainment in a lowland river. Freshwater Biology, 2010, 55, 326-345. | 2.4 | 75 |
| 25 | Case Study: Effect of Submerged Aquatic Plants on Turbulence Structure in a Lowland River. Journal of Hydraulic Engineering, 2010, 136, 434-446. | 1.5 | 67 |
| 26 | Assessment of a River Reach for Environmental Fluid Dynamics Studies. Journal of Hydraulic Engineering, 2010, 136, 880-888. | 1.5 | 16 |
| 27 | Dynamics of shallow lateral shear layers: Experimental study in a river with a sandy bed. Water Resources Research, 2010, 46, . | 4.2 | 67 |
| 28 | Mass exchange in a shallow channel flow with a series of groynes: LES study and comparison with laboratory and field experiments. Environmental Fluid Mechanics, 2009, 9, 587-615. | 1.6 | 61 |
| 29 | Implications of channel processes for juvenile fish habitats in Alpine rivers. Aquatic Sciences, 2009, 71, 338-349. | 1.5 | 23 |
| 30 | Reconstruction of pristine morphology, flow, nutrient conditions and submerged vegetation of lowland river spree (Germany) from palaeomeanders. River Research and Applications, 2008, 24, 310-329. | 1.7 | 17 |
| 31 | Random displacement versus habitat choice of fish larvae in rivers. River Research and Applications, 2008, 24, 661-672. | 1.7 | 36 |
| 32 | Lateral momentum flux and the spatial evolution of flow within a confluence mixing interface. Water Resources Research, 2008, 44, . | 4.2 | 116 |
| 33 | Structure of flow over alluvial bedforms: an experiment on linking field and laboratory methods. Earth Surface Processes and Landforms, 2006, 31, 1292-1310. | 2.5 | 38 |
| 34 | Comment on drag and reconfiguration of macrophytes. Freshwater Biology, 2005, 50, 194-195. | 2.4 | 18 |
| 35 | Case Study: Turbulent Flow and Sediment Distributions in a Groyne Field. Journal of Hydraulic Engineering, 2004, 130, 1-9. | 1.5 | 61 |
| 36 | A Model of Navigation-Induced Currents in Inland Waterways and Implications for Juvenile Fish Displacement. Environmental Management, 2004, 34, 656-668. | 2.7 | 37 |

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|---|---|---|---|
| 37 | Spatial and temporal structure of shear layer turbulence at a stream confluence. Water Resources Research, 2004, 40, . | 4.2 | 116 |
| 38 | Comment on â€œdetermination of areal sedimentation rates in rivers by using plate sediment trap measurements and flow velocityâ€”settling flux relationshipâ€•by Hans-Peter Kozerski. Water Research, 2003, 37, 2794-2795. | 11.3 | 2 |
| 39 | On the correspondence between morphological and hydrodynamical patterns of groyne fields. Earth Surface Processes and Landforms, 2002, 27, 289-305. | 2.5 | 81 |
| 40 | Field investigation of three-dimensional flow structure at stream confluences: 1. Thermal mixing and time-averaged velocities. Water Resources Research, 2001, 37, 2393-2410. | 4.2 | 198 |
| 41 | Field investigation of three-dimensional flow structure at stream confluences: 2. Turbulence. Water Resources Research, 2001, 37, 2411-2424. | 4.2 | 147 |
| 42 | Turbulence structure in an ice-covered, sand-bed river. Water Resources Research, 1999, 35, 889-894. | 4.2 | 21 |
| 43 | Turbulence structure in a river reach with sand bed. Water Resources Research, 1998, 34, 1317-1334. | 4.2 | 151 |
| 44 | Experimental and numerical validation of the dead-zone model for longitudinal dispersion in rivers. Journal of Hydraulic Research/De Recherches Hydrauliques, 1998, 36, 269-280. | 1.7 | 55 |
| 45 | Statistical sand wave dynamics in one-directional water flows. Journal of Fluid Mechanics, 1997, 351, 17-39. | 3.4 | 94 |
| 46 | A case study of longitudinal dispersion in small lowland rivers. Water Environment Research, 1997, 69, 1246-1253. | 2.7 | 32 |