# Slobodan Djordjevic

List of Publications by Year
in descending order



| 90 | 3,684 | 126858 | 138417 |
|---|---|---|---|
| papers | citations | 33 h-index | 58 g-index |

| 92 | 92 | 92 | 2686 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Urban flood impact assessment: A state-of-the-art review. Urban Water Journal, 2015, 12, 14-29. | 1.0 | 441 |
| 2 | Potential and limitations of 1D modelling of urban flooding. Journal of Hydrology, 2004, 299, 284-299. | 2.3 | 253 |
| 3 | Comparison of 1D/1D and 1D/2D Coupled (Sewer/Surface) Hydraulic Models for Urban Flood Simulation. Journal of Hydraulic Engineering, 2009, 135, 495-504. | 0.7 | 246 |
| 4 | An integrated framework for high-resolution urban flood modelling considering multiple information sources and urban features. Environmental Modelling and Software, 2018, 107, 85-95. | 1.9 | 150 |
| 5 | A weighted cellular automata 2D inundation model for rapid flood analysis. Environmental Modelling and Software, 2016, 84, 378-394. | 1.9 | 147 |
| 6 | Overland flow and pathway analysis for modelling of urban pluvial flooding. Journal of Hydraulic Research/De Recherches Hydrauliques, 2009, 47, 512-523. | 0.7 | 132 |
| 7 | SIPSON â€“ Simulation of Interaction between Pipe flow and Surface Overland flow in Networks. Water Science and Technology, 2005, 52, 275-283. | 1.2 | 116 |
| 8 | Attribution of flood risk in urban areas. Journal of Hydroinformatics, 2008, 10, 275-288. | 1.1 | 98 |
| 9 | Formulation of a fast 2D urban pluvial flood model using a cellular automata approach. Journal of Hydroinformatics, 2013, 15, 676-686. | 1.1 | 95 |
| 10 | An approach to simulation of dual drainage. Water Science and Technology, 1999, 39, 95-103. | 1.2 | 94 |
| 11 | New policies to deal with climate change and other drivers impacting on resilience to flooding in urban areas: the CORFU approach. Environmental Science and Policy, 2011, 14, 864-873. | 2.4 | 89 |
| 12 | Experimental calibration and validation of sewer/surface flow exchange equations in steady and unsteady flow conditions. Journal of Hydrology, 2017, 552, 421-432. | 2.3 | 64 |
| 13 | Stability criteria for flooded vehicles: a stateâ€ofâ€theâ€art review. Journal of Flood Risk Management, 2018, 11, . | 1.6 | 63 |
| 14 | Calibration of a 1D/1D urban flood model using 1D/2D model results in the absence of field data. Water Science and Technology, 2011, 64, 1016-1024. | 1.2 | 59 |
| 15 | A coarse-grid approach to representing building blockage effects in 2D urban flood modelling. Journal of Hydrology, 2012, 426-427, 1-16. | 2.3 | 59 |
| 16 | A new experiments-based methodology to define the stability threshold for any vehicle exposed to flooding. Urban Water Journal, 2017, 14, 930-939. | 1.0 | 59 |
| 17 | From hazard to impact: flood damage assessment tools for mega cities. Natural Hazards, 2016, 82, 857-890. | 1.6 | 55 |
| 18 | An analysis of the combined consequences of pluvial and fluvial flooding. Water Science and Technology, 2010, 62, 1491-1498. | 1.2 | 54 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Analysis of extreme flooding events through a calibrated 1D/2D coupled model: the case of Barcelona (Spain). Journal of Hydroinformatics, 2015, 17, 473-491. | 1.1 | 54 |
| 20 | An approach to simulation of dual drainage. Water Science and Technology, 1999, 39, 95. | 1.2 | 53 |
| 21 | Modelling sewer failure by evolutionary computing. Water Management, 2006, 159, 111-118. | 0.4 | 51 |
| 22 | The effect of inclusion of inlets in dual drainage modelling. Journal of Hydrology, 2018, 559, 541-555. | 2.3 | 49 |
| 23 | Exploring the potential climate change impact on urban growth in London by a cellular automata-based Markov chain model. Computers, Environment and Urban Systems, 2018, 68, 121-132. | 3.3 | 49 |
| 24 | Multi-layered coarse grid modelling in 2D urban flood simulations. Journal of Hydrology, 2012, 470-471, 1-11. | 2.3 | 48 |
| 25 | Experimental and numerical investigation of interactions between above and below ground drainage systems. Water Science and Technology, 2013, 67, 535-542. | 1.2 | 48 |
| 26 | Integration of research advances in modelling and monitoring in support of WFD river basin management planning in the context of climate change. Science of the Total Environment, 2012, 440, 167-177. | 3.9 | 45 |
| 27 | Modelling sewer discharge via displacement of manhole covers during flood events using 1D/2D SIPSON/P-DWave dual drainage simulations. Urban Water Journal, 2016, 13, 830-840. | 1.0 | 45 |
| 28 | Assessing the knock-on effects of flooding on road transportation. Journal of Environmental Management, 2019, 244, 48-60. | 3.8 | 45 |
| 29 | A comparison of three dual drainage models: shallow water vs local inertial vs diffusive wave. Journal of Hydroinformatics, 2017, 19, 331-348. | 1.1 | 42 |
| 30 | Assessing and visualising hazard impacts to enhance the resilience of Critical Infrastructures to urban flooding. Science of the Total Environment, 2020, 707, 136078. | 3.9 | 40 |
| 31 | Separating aleatory and epistemic uncertainties: Probabilistic sewer flooding evaluation using probability box. Journal of Hydrology, 2012, 420-421, 360-372. | 2.3 | 39 |
| 32 | Influence of sewer network models on urban flood damage assessment based on coupled <scp>1D</scp>/<scp>2D</scp> models. Journal of Flood Risk Management, 2018, 11, . | 1.6 | 37 |
| 33 | On the Characteristics of Velocities Fields in the Vicinity of Manhole Inlet Grates During Flood Events. Water Resources Research, 2018, 54, 6408-6422. | 1.7 | 37 |
| 34 | A general framework for flood risk-based storm sewer network design. Urban Water Journal, 2011, 8, 13-27. | 1.0 | 35 |
| 35 | Accuracy and Computational Efficiency of 2D Urban Surface Flood Modelling Based on Cellular Automata. Procedia Engineering, 2016, 154, 801-810. | 1.2 | 33 |
| 36 | Simulation of Transcritical Flow in Pipe/Channel Networks. Journal of Hydraulic Engineering, 2004, 130, 1167-1178. | 0.7 | 32 |

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|---|---|---|---|
| 37 | Experimental Study on Scour at a Sharp-Nose Bridge Pier with Debris Blockage. Journal of Hydraulic Engineering, 2018, 144, . | 0.7 | 32 |
| 38 | A new flood risk assessment framework for evaluating the effectiveness of policies to improve urban flood resilience. Urban Water Journal, 2018, 15, 427-436. | 1.0 | 31 |
| 39 | A practical method to assess risks from large wood debris accumulations at bridge piers. Science of the Total Environment, 2020, 728, 138575. | 3.9 | 28 |
| 40 | Resilience to Cope with Climate Change in Urban Areasâ€"A Multisectorial Approach Focusing on Waterâ€"The RESCCUE Project. Water (Switzerland), 2018, 10, 1356. | 1.2 | 26 |
| 41 | The Nile Water-Food-Energy Nexus under Uncertainty: Impacts of the Grand Ethiopian Renaissance Dam. Journal of Water Resources Planning and Management - ASCE, 2020, 146, . | 1.3 | 26 |
| 42 | A well balanced Roe scheme for the local inertial equations with an unstructured mesh. Advances in Water Resources, 2015, 83, 351-363. | 1.7 | 25 |
| 43 | Validation of 2D shock capturing flood models around a surcharging manhole. Urban Water Journal, 2017, 14, 892-899. | 1.0 | 25 |
| 44 | A multi-model approach to the simulation of large scale karst flows. Journal of Hydrology, 2008, 348, 412-424. | 2.3 | 24 |
| 45 | Investigating the Effects of Pluvial Flooding and Climate Change on Traffic Flows in Barcelona and Bristol. Sustainability, 2020, 12, 2330. | 1.6 | 23 |
| 46 | Assessing the potential for real-time urban flood forecasting based on a worldwide survey on data availability. Urban Water Journal, 2014, 11, 573-583. | 1.0 | 21 |
| 47 | Incorporating spatial and temporal information for urban drainage model calibration: An approach using preference ordering genetic algorithm. Advances in Water Resources, 2006, 29, 1168-1181. | 1.7 | 18 |
| 48 | Quick and accurate Cellular Automata sewer simulator. Journal of Hydroinformatics, 2014, 16, 1359-1374. | 1.1 | 18 |
| 49 | Analytical Solution of the Classical Dam-Break Problem for the Gravity Waveâ€"Model Equations. Journal of Hydraulic Engineering, 2016, 142, . | 0.7 | 17 |
| 50 | Methodological Framework for Analysing Cascading Effects from Flood Events: The Case of Sukhumvit Area, Bangkok, Thailand. Water (Switzerland), 2018, 10, 81. | 1.2 | 17 |
| 51 | Mathematical model of unsteady transport and its experimental verification in a compound open channel flow. Journal of Hydraulic Research/De Recherches Hydrauliques, 1993, 31, 229-248. | 0.7 | 16 |
| 52 | The influence of channel geometry on tidal energy extraction in estuaries. Renewable Energy, 2017, 101, 514-525. | 4.3 | 15 |
| 53 | A realâ€time pluvial flood forecasting system for Castries, St. Lucia. Journal of Flood Risk Management, 2018, 11, . | 1.6 | 14 |
| 54 | Mapping urban infrastructure interdependencies and fuzzy risks. Procedia Engineering, 2018, 212, 816-823. | 1.2 | 13 |

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| 55 | Back to the future: assessing the damage of 2004 Dhaka flood in the 2050 urban environment. Journal of Flood Risk Management, 2018, 11, . | 1.6 | 13 |
| 56 | A method for evaluating local scour depth at bridge piers due to debris accumulation. Proceedings of the Institution of Civil Engineers: Bridge Engineering, 2020, 173, 86-99. | 0.3 | 13 |
| 57 | Predictive risk modelling of real-world wastewater network incidents. Procedia Engineering, 2015, 119, 1288-1298. | 1.2 | 12 |
| 58 | Implications of rising flood-risk for employment location: a GMM spatial model with agglomeration and endogenous house price effects. Journal of Property Research, 2013, 30, 298-323. | 1.7 | 11 |
| 59 | Wetting and drying numerical treatments for the Roe Riemann scheme. Journal of Hydraulic Research/De Recherches Hydrauliques, 2018, 56, 256-267. | 0.7 | 11 |
| 60 | Land-Use and Legislation-Based Methodology for the Implementation of Sustainable Drainage Systems in the Semi-Arid Region of Brazil. Sustainability, 2020, 12, 661. | 1.6 | 11 |
| 61 | 3D visualisation tool for improving the resilience to urban and coastal flooding in Torbay, UK. Procedia Engineering, 2018, 212, 809-815. | 1.2 | 10 |
| 62 | An integrated socio-environmental framework for mapping hazard-specific vulnerability and exposure in urban areas. Urban Water Journal, 2021, 18, 530-543. | 1.0 | 10 |
| 63 | Place-Based Citizen Science for Assessing Risk Perception and Coping Capacity of Households Affected by Multiple Hazards. Sustainability, 2021, 13, 302. | 1.6 | 10 |
| 64 | Decision making in flood risk based storm sewer network design. Water Science and Technology, 2011, 64, 247-254. | 1.2 | 9 |
| 65 | A fast approach for multiobjective design of water distribution networks under demand uncertainty. Journal of Hydroinformatics, 2011, 13, 143-152. | 1.1 | 9 |
| 66 | Analytical and numerical solutions of the Local Inertial Equations. International Journal of Non-Linear Mechanics, 2016, 81, 222-229. | 1.4 | 9 |
| 67 | Developing Decision Tree Models to Create a Predictive Blockage Likelihood Model for Real-World Wastewater Networks. Procedia Engineering, 2016, 154, 1209-1216. | 1.2 | 8 |
| 68 | Interlinking Bristol Based Models to Build Resilience to Climate Change. Sustainability, 2020, 12, 3233. | 1.6 | 8 |
| 69 | Hydrodynamic effects of debris blockage and scour on masonry bridges: Towards experimental modelling. , 2016, , . | | 8 |
| 70 | Uncertainties in Flood Modelling in Urban Areas. , 2014, , 297-334. | | 7 |
| 71 | The impacts of tidal turbines on water levels in a shallow estuary. International Journal of Marine Energy, 2017, 19, 177-197. | 1.8 | 7 |
| 72 | Targeting property flood resilience in flood risk management. Journal of Flood Risk Management, 2021, 14, e12723. | 1.6 | 7 |

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|---|---|---|---|
| 73 | Understanding the NEEDS for ACTING: An integrated framework for applying nature-based solutions in Brazil. Water Science and Technology, 2022, 85, 987-1010. | 1.2 | 7 |
| 74 | Case study of the cascading effects on critical infrastructure in Torbay coastal/pluvial flooding with climate change and 3D visualisation. Journal of Hydroinformatics, 2020, 22, 77-92. | 1.1 | 6 |
| 75 | Water-food-energy nexus for transboundary cooperation in Eastern Africa. Water Science and Technology: Water Supply, 2022, 22, 3567-3587. | 1.0 | 6 |
| 76 | The Use of Telemetry Data for the Identification of Issues at Combined Sewer Overflows. Procedia Engineering, 2016, 154, 1201-1208. | 1.2 | 5 |
| 77 | Exploring the implications of tidal farms deployment for wetland-birds habitats in a highly protected estuary. Marine Policy, 2017, 81, 359-367. | 1.5 | 5 |
| 78 | Using public participation within land use change scenarios for analysing environmental and socioeconomic drivers. Environmental Research Letters, 2022, 17, 025002. | 2.2 | 5 |
| 79 | Sampling rainfall events: a novel approach to generate large correlated samples. Hydrology Research, 2013, 44, 351-361. | 1.1 | 4 |
| 80 | Increased Urban Resilience to Climate Changeâ€"Key Outputs from the RESCCUE Project. Sustainability, 2020, 12, 9881. | 1.6 | 4 |
| 81 | Multi-Temporal Built-Up Grids of Brazilian Cities: How Trends and Dynamic Modelling Could Help on Resilience Challenges?. Sustainability, 2021, 13, 748. | 1.6 | 4 |
| 82 | A novel approach to flood risk assessment: the Exposure-Vulnerability matrices. E3S Web of Conferences, 2016, 7, 08007. | 0.2 | 3 |
| 83 | Prediction of flow around a sharp-nosed bridge pier: influence of the Froude number and free-surface variation on the flow field. Journal of Hydraulic Research/De Recherches Hydrauliques, 2020, 58, 582-593. | 0.7 | 3 |
| 84 | Hydroinformatics education â€“ the Water Informatics in Science and Engineering (WISE) Centre for Doctoral Training. Hydrology and Earth System Sciences, 2021, 25, 2721-2738. | 1.9 | 3 |
| 85 | Flume experiments on the impact of a cross-flow turbine on an erodible bed. Renewable Energy, 2020, 153, 1219-1225. | 4.3 | 2 |
| 86 | Cellular automata predictive model for man-made environment growth in a Brazilian semi-arid watershed. Environmental Monitoring and Assessment, 2021, 193, 323. | 1.3 | 2 |
| 87 | Application of Open Source CFD in Urban Water Management. , 2011, , . | | 1 |
| 88 | Wastewater System Ventilation â€“ A Friend or Adversary?. Green Energy and Technology, 2019, , 712-716. | 0.4 | 1 |
| 89 | Water systems modelling, data and control. Urban Water Journal, 2020, 17, 681-681. | 1.0 | 0 |
| 90 | SIPSON--simulation of interaction between pipe flow and surface overland flow in networks. Water Science and Technology, 2005, 52, 275-83. | 1.2 | 0 |