Seokkoo Kang

List of Publications by Year
in descending order

43 papers	1,650 citations	361413 20 h-index	289244 40 g-index
44 all docs	44 docs citations	44 times ranked	1121 citing authors

#	ARTICLE	IF	CITATIONS
1	Data‐Driven Prediction of Turbulent Flow Statistics Past Bridge Piers in Large‐Scale Rivers Using Convolutional Neural Networks. Water Resources Research, 2022, 58, .	4.2	10
2	Large-Eddy Simulation of Wakes of Waked Wind Turbines. Energies, 2022, 15, 2899.	3.1	7
3	Wake interactions of two horizontal axis tidal turbines in tandem. Ocean Engineering, 2022, 254, 111331.	4.3	11
4	Assessment of Parshall flumes for discharge measurement of open-channel flows: A comparative numerical and field case study. Measurement: Journal of the International Measurement Confederation, 2021, 167, 108292.	5.0	11
5	Mean flow and turbulence characteristics around single-arm instream structures. Journal of Hydraulic Research/De Recherches Hydrauliques, 2021, 59, 404-419.	1.7	8
6	Discharge Characteristics of Drainage Gates on Saemangeum Tidal Dyke, South Korea. KSCE Journal of Civil Engineering, 2021, 25, 1308-1325.	1.9	0
7	Turbulent flow characteristics around a non-submerged rectangular obstacle on the side of an open channel. Physics of Fluids, 2021, 33, .	4.0	13
8	A computational study of expiratory particle transport and vortex dynamics during breathing with and without face masks. Physics of Fluids, 2021, 33, 066605.	4.0	28
9	Water exit dynamics of jumping archer fish: Integrating two-phase flow large-eddy simulation with experimental measurements. Physics of Fluids, 2020, 32, .	4.0	29
10	Experimental study of the wake characteristics of an axial flow hydrokinetic turbine at different tip speed ratios. Ocean Engineering, 2020, 196, 106777.	4.3	13
11	Fluid dynamics simulations show that facial masks can suppress the spread of COVID-19 in indoor environments. AIP Advances, 2020, 10, .	1.3	48
12	On the genesis and evolution of barchan dunes: Hydrodynamics. Physics of Fluids, 2020, 32, 086602.	4.0	18
13	Mean Flow and Turbulence Characteristics around Multiple-Arm Instream Structures and Comparison with Single-Arm Structures. Journal of Hydraulic Engineering, 2020, 146, .	1.5	9
14	Large-eddy simulation of flash flood propagation and sediment transport in a dry-bed desert stream. International Journal of Sediment Research, 2020, 35, 576-586.	3.5	11
15	Fully coupled free‐surface flow and sediment transport modelling of flash floods in a desert stream in the Mojave Desert, California. Hydrological Processes, 2019, 33, 2772-2791.	2.6	18
16	Large-eddy simulation study of turbulent flow around a rectangular spur dike. E3S Web of Conferences, 2018, 40, 05013.	0.5	4
17	Experimental Investigation of Three‐Dimensional Flow Structure and Turbulent Flow Mechanisms Around a Nonsubmerged Spur Dike With a Low Length‐to‐Depth Ratio. Water Resources Research, 2018, 54, 3530-3556.	4.2	52
18	Numerical Modelling of Large Swell Waves using Different Atmospheric Reanalysis Data in East Sea. Journal of Coastal Research, 2017, 79, 164-168.	0.3	2

#	Article	IF	Citations
19	On the turbulent flow structure around an instream structure with realistic geometry. Water Resources Research, 2016, 52, 7869-7891.	4.2	21
20	Optimization of operating variables in a pilot-scale reverse osmosis membrane process for reclamation of tunnel construction wastewater. Desalination and Water Treatment, 2016, 57, 12082-12089.	1.0	1
21	Fully three-dimensional Reynolds-averaged Navier–Stokes modeling for solving free surface flows around coastal drainage gates. Journal of Hydro-Environment Research, 2016, 13, 121-133.	2.2	8
22	Land Surface Models Evaluation for Two Different Land-Cover Types: Cropland and Forest. Terrestrial, Atmospheric and Oceanic Sciences, 2016, 27, 153.	0.6	1
23	Application of KOMSAT-2 Imageries for Change Detection of Land use and Land Cover in the West Coasts of the Korean Peninsula. Korean Journal of Remote Sensing, 2016, 32, 141-153.	0.4	1
24	Numerical study of flow dynamics around a stream restoration structure in a meandering channel. Journal of Hydraulic Research/De Recherches Hydrauliques, 2015, 53, 178-185.	1.7	12
25	Monitoring influential environmental conditions affecting communities of denitrifying and nitrifying bacteria in a combined anoxic–oxic activated sludge system. International Biodeterioration and Biodegradation, 2015, 100, 1-6.	3.9	19
26	An improved near–wall modeling for large–eddy simulation using immersed boundary methods. International Journal for Numerical Methods in Fluids, 2015, 78, 76-88.	1.6	26
27	Remote sensing-based evapotranspiration algorithm: a case study of all sky conditions on a regional scale. GIScience and Remote Sensing, 2015, 52, 627-642.	5.9	10
28	Application of a combined three-stage system for reclamation of tunnel construction wastewater. Environmental Technology (United Kingdom), 2015, 36, 2357-2363.	2.2	0
29	Large-Eddy Simulation of Three-Dimensional Turbulent Free Surface Flow Past a Complex Stream Restoration Structure. Journal of Hydraulic Engineering, 2015, 141, .	1.5	20
30	On the onset of wake meandering for an axial flow turbine in a turbulent open channel flow. Journal of Fluid Mechanics, 2014, 744, 376-403.	3.4	172
31	Achieving enhanced nitrification in communities of nitrifying bacteria in full-scale wastewater treatment plants via optimal temperature and pH. Separation and Purification Technology, 2014, 132, 697-703.	7.9	40
32	Level set immersed boundary method for coupled simulation of air/water interaction with complex floating structures. Journal of Computational Physics, 2014, 277, 201-227.	3.8	93
33	Computational and experimental investigation of scour past laboratory models of stream restoration rock structures. Advances in Water Resources, 2013, 54, 191-207.	3.8	67
34	Experimental and computational investigation of local scour around bridge piers. Advances in Water Resources, 2012, 37, 73-85.	3.8	182
35	Numerical simulation of 3D flow past a real-life marine hydrokinetic turbine. Advances in Water Resources, 2012, 39, 33-43.	3.8	120
36	Numerical modeling of 3D turbulent free surface flow in natural waterways. Advances in Water Resources, 2012, 40, 23-36.	3.8	63

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37	Assessing the predictive capabilities of isotropic, eddy viscosity Reynolds-averaged turbulence models in a natural-like meandering channel. Water Resources Research, 2012, 48, .	4.2	39
38	Computational study and modeling of turbine spacing effects in infinite aligned wind farms. Physics of Fluids, 2012, 24, .	4.0	109
39	Flow phenomena and mechanisms in a field-scale experimental meandering channel with a pool-riffle sequence: Insights gained via numerical simulation. Journal of Geophysical Research, 2011, 116, .	3.3	71
40	On the structure of vortex rings from inclined nozzles. Journal of Fluid Mechanics, 2011, 686, 451-483.	3.4	41
41	High-resolution numerical simulation of turbulence in natural waterways. Advances in Water Resources, 2011, 34, 98-113.	3.8	135
42	Curvilinear immersed boundary method for simulating coupled flow and bed morphodynamic interactions due to sediment transport phenomena. Advances in Water Resources, 2011, 34, 829-843.	3.8	106
43	Lagrangian dynamics of contaminant particles released from a point source in New York City. Physics of Fluids, 0, , .	4.0	1