Sanghyun Kim

List of Publications by Year
in descending order

75 papers	1,195 citations	361413 20 h-index	434195 31 g-index
75 all docs	75 docs citations	75 times ranked	969 citing authors

#	Article	IF	Citations
1	Time-domain impedance method for transient analysis and leakage detection in reservoir pipeline valve systems. Mechanical Systems and Signal Processing, 2022, 167, 108527.	8.0	4
2	Novel Polyhydroxybutyrate-Degrading Activity of the *Microbulbifer* Genus as Confirmed by *Microbulbifer* sp. SOL03 from the Marine Environment. Journal of Microbiology and Biotechnology, 2022, 32, 27-36.	2.1	14
3	Spatiotemporal soil moisture response and controlling factors along a hillslope. Journal of Hydrology, 2022, 605, 127382.	5.4	6
4	Selective Recovery of L-pipecolic Acid from L-lysine Bioconversion Mixture by Liquid-liquid Extraction. Biotechnology and Bioprocess Engineering, 2022, 27, 286-293.	2.6	4
5	Adsorptive removal of synthetic plastic components bisphenol-A and solvent black-3 dye from single and binary solutions using pristine pinecone biochar. Chemosphere, 2022, 296, 134034.	8.2	40
6	Dimensionless Impedance Method for General Design of Surge Tank in Simple Pipeline Systems. Energies, 2022, 15, 3603.	3.1	3
7	Biohydrogen production from glycerol by novel Clostridium sp. SH25 and its application to biohydrogen car operation. Korean Journal of Chemical Engineering, 2022, 39, 2156-2164.	2.7	7
8	NaCl Concentration-Dependent Aminoglycoside Resistance of Halomonas socia CKY01 and Identification of Related Genes. Journal of Microbiology and Biotechnology, 2021, 31, 250-258.	2.1	3
9	Screening of the strictly xylose-utilizing Bacillus sp. SM01 for polyhydroxybutyrate and its co-culture with Cupriavidus necator NCIMB 11599 for enhanced production of PHB. International Journal of Biological Macromolecules, 2021, 181, 410-417.	7.5	38
10	Engineering of Shewanella marisflavi BBL25 for biomass-based polyhydroxybutyrate production and evaluation of its performance in electricity production. International Journal of Biological Macromolecules, 2021, 183, 1669-1675.	7.5	25
11	Application of l-glutamate oxidase from Streptomyces sp. X119-6 with catalase (KatE) to whole-cell systems for glutaric acid production in Escherichia coli. Korean Journal of Chemical Engineering, 2021, 38, 2106-2112.	2.7	4
12	Inverse Flow Analysis for Multiple Controls in Pipeline Systems. Journal of Water Resources Planning and Management - ASCE, 2021, 147, 04021051.	2.6	0
13	Comparative Study of the Difference in Behavior of the Accessory Gene Regulator (Agr) in USA300 and USA400 Community-Associated Methicillin-Resistant *Staphylococcus aureus* (CA-MRSA). Journal of Microbiology and Biotechnology, 2021, 31, 1060-1068.	2.1	9
14	Polyhydroxyalkanoates (PHAs) degradation by the newly isolated marine Bacillus sp. JY14. Chemosphere, 2021, 283, 131172.	8.2	38
15	Novel phasins from the Arctic Pseudomonas sp. B14-6 enhance the production of polyhydroxybutyrate and increase inhibitor tolerance. International Journal of Biological Macromolecules, 2021, 190, 722-729.	7.5	13
16	Characterization of soil moisture response patterns and hillslope hydrological processes through a self-organizing map. Hydrology and Earth System Sciences, 2021, 25, 5733-5748.	4.9	5
17	Control-Oriented Impedance Matrix and Alternative Transient Control for Pipe Network Systems. Water Resources Management, 2020, 34, 3499-3513.	3.9	3
18	Characterization of runoff generation in a mountainous hillslope according to multiple threshold behavior and hysteretic loop features. Journal of Hydrology, 2020, 590, 125534.	5.4	10

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19	Multiple leak detection algorithm for pipe network. Mechanical Systems and Signal Processing, 2020, 139, 106645.	8.0	38
20	Wavelet analysis of soil moisture measurements for hillslope hydrological processes. Journal of Hydrology, 2019, 575, 82-93.	5.4	29
21	Valve Maneuver Prediction in Simple and Complicated Pipeline Systems. Water Resources Management, 2019, 33, 4671-4685.	3.9	2
22	Impedance Method for Multiple Reservoir Pipeline Valve Systems. Journal of Hydraulic Engineering, 2019, 145, 04019023.	1.5	1
23	Optimization of pressure relief valve for pipeline system under transient induced cavitation condition. Urban Water Journal, 2019, 16, 718-726.	2.1	7
24	A Generalized Procedure for Pipeline Hydraulic Components in Quasi-Two-Dimensional Unsteady Flow Analysis. Journal of Fluids Engineering, Transactions of the ASME, 2019, 141, .	1.5	2
25	Seasonal and spatial characterization of soil moisture and soil water tension in a steep hillslope. Journal of Hydrology, 2019, 568, 676-685.	5.4	11
26	Characterization and Engineering Properties of Dry and Ponded Class-F Fly Ash. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2019, 145, .	3.0	25
27	Seasonal control of spatial distribution of soil moisture on a steep hillslope. Water Science and Technology, 2019, 79, 556-565.	2.5	0
28	Two dimensional cavitation waterhammer model for a reservoir-pipeline-valve system. Journal of Hydraulic Research/De Recherches Hydrauliques, 2019, 57, 327-336.	1.7	15
29	Development of Multiple Leakage Detection Method for a Reservoir Pipeline Valve System. Water Resources Management, 2018, 32, 2099-2112.	3.9	19
30	Multiple Discrete Blockage Detection Function for Single Pipelines. Proceedings (mdpi), 2018, 2, 582.	0.2	3
31	Hierarchical nanostructured $MnCo_2O_4$–$NiCo_2O_4$ composites as innovative electrodes for supercapacitor applications. New Journal of Chemistry, 2018, 42, 17190-17194.	2.8	43
32	Multiple Leakage Function for a Simple Pipeline System. Water Resources Management, 2017, 31, 2659-2673.	3.9	5
33	Water hammer analysis that uses the impulse response method for a reservoir-pump pipeline system. Journal of Mechanical Science and Technology, 2017, 31, 4833-4840.	1.5	10
34	Pattern similarity based soil moisture analysis for three seasons on a steep hillslope. Journal of Hydrology, 2017, 551, 484-494.	5.4	6
35	The optimization of design parameters for surge relief valve for pipeline systems. AIP Conference Proceedings, 2017, , .	0.4	1
36	Factors affecting soil moisture spatial variability for a humid forest hillslope. Hydrological Processes, 2017, 31, 431-445.	2.6	73

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37	Flow Vector Analysis Methods for a Pressure Sensor Network on a Steep Hillslope. Vadose Zone Journal, 2017, 16, 1-14.	2.2	2
38	Impedance Method for Abnormality Detection of a Branched Pipeline System. Water Resources Management, 2016, 30, 1101-1115.	3.9	35
39	Time series modeling of soil moisture dynamics on a steep mountainous hillside. Journal of Hydrology, 2016, 536, 37-49.	5.4	11
40	A general framework of chlorine decay modeling at a pilot-scale water distribution system. Journal of Water Supply: Research and Technology - AQUA, 2015, 64, 543-557.	1.4	9
41	Modelling Chlorine Decay in a Pilot Scale Water Distribution System Subjected to Transient. Procedia Engineering, 2015, 119, 370-378.	1.2	12
42	Diagnosis of a Pipeline System for Transient Flow in Low Reynolds Number with Impedance Method. Journal of Hydraulic Engineering, 2014, 140, .	1.5	19
43	Connectivity and topographic thresholds in bi-hourly soil moisture measurements along transects on a steep hillslope. Journal of Hydrology, 2014, 512, 563-574.	5.4	8
44	Holistic Diagnosis of Pipeline System with Impedance Method. Procedia Engineering, 2014, 70, 924-933.	1.2	4
45	Hydrometric transit times along transects on a steep hillslope. Water Resources Research, 2014, 50, 7267-7284.	4.2	9
46	Estimation of mean water transit time on a steep hillslope in South Korea using soil moisture measurements and deuterium excess. Hydrological Processes, 2014, 28, 1844-1857.	2.6	20
47	Distribution characteristics of hydraulic properties on a mountainous hillslope. Geosciences Journal, 2013, 17, 339-352.	1.2	7
48	Characterization of annual soil moisture response pattern on a hillslope in Bongsunsa Watershed, South Korea. Journal of Hydrology, 2012, 448-449, 100-111.	5.4	20
49	Configuration of hydrological processes in a steep hillslope through causality analysis of soil moisture measurements. Hydrological Processes, 2012, 26, 3434-3447.	2.6	3
50	Holistic Unsteady-Friction Model for Laminar Transient Flow in Pipeline Systems. Journal of Hydraulic Engineering, 2011, 137, 1649-1658.	1.5	18
51	Configuration of the relationship of soil moistures for vertical soil profiles on a steep hillslope using a vector time series model. Journal of Hydrology, 2011, 399, 353-363.	5.4	10
52	Time series modeling of the spatial distribution of soil moisture in a mountainous hillslope headwater. Geosciences Journal, 2011, 15, 423-431.	1.2	1
53	Dynamic Memory Computation of Impedance Matrix Method. Journal of Hydraulic Engineering, 2011, 137, 122-128.	1.5	6
54	Multivariate analysis of soil moisture history for a hillslope. Journal of Hydrology, 2009, 374, 318-328.	5.4	11

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55	Characterization of soil moisture responses on a hillslope to sequential rainfall events during late autumn and spring. Water Resources Research, 2009, 45, .	4.2	36
56	PIV measurements on the change of the three-dimensional wake structures by an air spoiler of a road vehicle. Journal of Visualization, 2008, 11, 45-54.	1.8	8
57	Impulse Response Method for Pipeline Systems Equipped with Water Hammer Protection Devices. Journal of Hydraulic Engineering, 2008, 134, 961-969.	1.5	28
58	Address-Oriented Impedance Matrix Method for Generic Calibration of Heterogeneous Pipe Network Systems. Journal of Hydraulic Engineering, 2008, 134, 66-75.	1.5	27
59	Impedance matrix method for transient analysis of complicated pipe networks. Journal of Hydraulic Research/De Recherches Hydrauliques, 2007, 45, 818-828.	1.7	29
60	Soil moisture monitoring on a steep hillside. Hydrological Processes, 2007, 21, 2910-2922.	2.6	36
61	Impulse leakage analysis for series pipelines. Journal of Water Supply: Research and Technology - AQUA, 2006, 55, 169-177.	1.4	1
62	Efficient design and operation of a data acquisition system for pressurized pipeline systems. Water Science and Technology, 2006, 53, 393-401.	2.5	0
63	HydroKorea and CarboKorea: cross-scale studies of ecohydrology and biogeochemistry in a heterogeneous and complex forest catchment of Korea. Ecological Research, 2006, 21, 881-889.	1.5	57
64	Topological flow characteristics in a butterfly valve used for a spark ignition engine. Journal of Visualization, 2006, 9, 291-299.	1.8	3
65	Effects of an air spoiler on the wake of a road vehicle by PIV measurements. Journal of Visualization, 2006, 9, 411-418.	1.8	7
66	Measurements in the wake of an airfoil with regular roughness on the upper surface near the leading edge. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2006, 220, 203-208.	1.3	0
67	Extensive Development of Leak Detection Algorithm by Impulse Response Method. Journal of Hydraulic Engineering, 2005, 131, 201-208.	1.5	80
68	Catastrophic failure of submerged slopes in normally consolidated sediments. Geotechnique, 2004, 54, 631-643.	4.0	53
69	A digital elevation analysis: a spatially distributed flow apportioning algorithm. Hydrological Processes, 2004, 18, 1777-1794.	2.6	22
70	The evaluation of a density current experiment as a verification tool of a secondary clarifier model. Water Science and Technology, 2003, 47, 113-118.	2.5	13
71	Evaluation of several respirometry-based activated sludge toxicity control strategies. Water Science and Technology, 2002, 45, 143-150.	2.5	54
72	Prediction of optimal injection protocol for tumor detection in contrast-enhanced dynamic hepatic CT using simulation of lesion-to-liver contrast difference. Computerized Medical Imaging and Graphics, 2000, 24, 317-327.	5.8	14

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73	Lesion characterization using vessel permeability map to new blood pool contrast agent calculated from dynamic magnetic resonance images. Journal of Digital Imaging, 2000, 13, 193-195.	2.9	6
74	Adaptive Metaheuristic Scheme for Generalized Multiple Abnormality Detection in a Reservoir Pipeline Valve System. Water Resources Management, 0, , 1.	3.9	0
75	Hydraulic transient evaluation via fabricable impedance matrix for pipe networks. Journal of Hydraulic Research/De Recherches Hydrauliques, 0, , 1-15.	1.7	0