

Fu-Chun Wu

List of Publications by Year in descending order

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Version: 2024-02-01

31
papers

981
citations

471509

17
h-index

454955

30
g-index

31
all docs

31
docs citations

31
times ranked

789
citing authors

#	ARTICLE	IF	CITATIONS
1	Rolling and Lifting Probabilities for Sediment Entrainment. Journal of Hydraulic Engineering, 2003, 129, 110-119.	1.5	125
2	Pareto-optimal solutions for environmental flow schemes incorporating the intra-annual and interannual variability of the natural flow regime. Water Resources Research, 2007, 43, .	4.2	88
3	Assessment of hydrologic alterations caused by Chi-Chi diversion weir in Chou-Shui Creek, Taiwan: opportunities for restoring natural flow conditions. River Research and Applications, 2004, 20, 401-412.	1.7	81
4	A Histogram Matching Approach for assessment of flow regime alteration: application to environmental flow optimization. River Research and Applications, 2008, 24, 914-928.	1.7	77
5	COMPROMISE PROGRAMMING METHODOLOGY FOR DETERMINING INSTREAM FLOW UNDER MULTIOBJECTIVE WATER ALLOCATION CRITERIA. Journal of the American Water Resources Association, 2006, 42, 1179-1191.	2.4	66
6	Feasible Diversion and Instream Flow Release Using Range of Variability Approach. Journal of Water Resources Planning and Management - ASCE, 2004, 130, 395-404.	2.6	62
7	Modeling embryo survival affected by sediment deposition into salmonid spawning gravels: Application to flushing flow prescriptions. Water Resources Research, 2000, 36, 1595-1603.	4.2	52
8	Pickup Probability of Sediment under Log-Normal Velocity Distribution. Journal of Hydraulic Engineering, 2002, 128, 438-442.	1.5	49
9	Optimizing environmental flows for multiple reaches affected by a multipurpose reservoir system in Taiwan: Restoring natural flow regimes at multiple temporal scales. Water Resources Research, 2013, 49, 565-584.	4.2	44
10	Numerical Investigation of the Role of Turbulent Bursting in Sediment Entrainment. Journal of Hydraulic Engineering, 2007, 133, 329-334.	1.5	39
11	A stochastic partial transport model for mixed-size sediment: Application to assessment of fractional mobility. Water Resources Research, 2004, 40, .	4.2	35
12	Tradeoffs associated with sediment-maintenance flushing flows: a simulation approach to exploring non-inferior options. River Research and Applications, 2004, 20, 591-604.	1.7	26
13	Forced bars induced by variations of channel width: Implications for incipient bifurcation. Journal of Geophysical Research, 2005, 110, .	3.3	26
14	Simulation of gravel-sand bed response to flushing flows using a two-fraction entrainment approach: Model development and flume experiment. Water Resources Research, 2003, 39, .	4.2	23
15	A dynamic corridor-searching algorithm to seek time-varying instream flow releases for optimal weir operation: comparing three indices of overall hydrologic alteration. River Research and Applications, 2007, 23, 35-53.	1.7	23
16	A dual active-restrictive approach to incorporating environmental flow targets into existing reservoir operation rules. Water Resources Research, 2010, 46, .	4.2	20
17	Quantifying the forcing effect of channel width variations on free bars: Morphodynamic modeling based on characteristic dissipative Galerkin scheme. Journal of Geophysical Research, 2011, 116, .	3.3	18
18	Bayesian Updating of Parameters for a Sediment Entrainment Model via Markov Chain Monte Carlo. Journal of Hydraulic Engineering, 2009, 135, 22-37.	1.5	17

#	ARTICLE	IF	CITATIONS
19	Entrainment of sediment particles by retrograde vortices: Test of hypothesis using near-particle observations. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	16
20	Regionalization of natural flow regime: application to environmental flow optimization at ungauged sites. <i>River Research and Applications</i> , 2009, 25, 1071-1089.	1.7	15
21	Effect of flow-related substrate alteration on physical habitat: a case study of the endemic river loach <i>Sinogastromyzon puliensis</i> (Cypriniformes, Homalopteridae) downstream of Chi-Chi Diversion Weir, Chou-Shui Creek, Taiwan. <i>River Research and Applications</i> , 2002, 18, 155-169.	1.7	14
22	Assessment of flow regime alterations over a spectrum of temporal scales using wavelet-based approaches. <i>Water Resources Research</i> , 2015, 51, 3317-3338.	4.2	14
23	Delineation of gravel-bed clusters via factorial kriging. <i>Geomorphology</i> , 2018, 308, 161-174.	2.6	14
24	Mesoscale Terrestrial Laser Scanning of Fluvial Gravel Surfaces. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2011, 8, 1075-1079.	3.1	13
25	Asymmetric Effects of Subaerial and Subaqueous Basement Slopes on Self-Similar Morphology of Prograding Deltas. <i>Journal of Geophysical Research F: Earth Surface</i> , 2017, 122, 2506-2526.	2.8	11
26	Hyporheic Exchange Under Undular Flows Over a Coarse Granular Bed. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL089114.	4.0	5
27	FKgrain: A topography-based software tool for grain segmentation and sizing using factorial kriging. <i>Earth Science Informatics</i> , 2021, 14, 2411-2421.	3.2	3
28	Anisotropy Characteristics of Exposed Gravel Beds Revealed in High-Point-Density Airborne Laser Scanning Data. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2016, 13, 1044-1048.	3.1	2
29	A heuristic probabilistic approach to estimating size-dependent mobility of nonuniform sediment. <i>Stochastic Environmental Research and Risk Assessment</i> , 2018, 32, 1771-1782.	4.0	2
30	Self-Similar Morphodynamics of Gilbert and Hyperpycnal Deltas Over Segmented Two-Slope Bedrock Channels. <i>Water Resources Research</i> , 2019, 55, 3689-3707.	4.2	1
31	Two-Stage Transition From Gilbert to Hyperpycnal Delta in Reservoir. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL093661.	4.0	0