

J Dungan Smith

List of Publications by Year in descending order

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39
papers

4,928
citations

172457

29
h-index

345221

36
g-index

39
all docs

39
docs citations

39
times ranked

2391
citing authors

#	ARTICLE	IF	CITATIONS
1	Spatially averaged flow over a wavy surface. <i>Journal of Geophysical Research</i> , 1977, 82, 1735-1746.	3.3	750
2	Calculations of the critical shear stress for motion of uniform and heterogeneous sediments. <i>Water Resources Research</i> , 1987, 23, 1471-1480.	4.2	465
3	Influence of the point bar on flow through curved channels. <i>Water Resources Research</i> , 1983, 19, 1173-1192.	4.2	362
4	Tidal interaction of stratified flow with a sill in Knight Inlet. <i>Deep-sea Research Part A, Oceanographic Research Papers</i> , 1980, 27, 239-254.	1.5	268
5	Bed Load Transport in a River Meander. <i>Water Resources Research</i> , 1984, 20, 1355-1380.	4.2	243
6	A theoretical model for saltating grains in water. <i>Journal of Geophysical Research</i> , 1985, 90, 7341-7354.	3.3	211
7	Flow and Sediment Transport in a Sand Bedded Meander. <i>Journal of Geology</i> , 1979, 87, 305-315.	1.4	198
8	Velocity distribution and bed roughness in high-gradient streams. <i>Water Resources Research</i> , 1991, 27, 825-838.	4.2	198
9	Circulation, density distribution and neap-spring transitions in the Columbia River Estuary. <i>Progress in Oceanography</i> , 1990, 25, 81-112.	3.2	187
10	A Model for Flow in Meandering Streams. <i>Water Resources Research</i> , 1984, 20, 1301-1315.	4.2	175
11	Model for Calculating Bed Load Transport of Sediment. <i>Journal of Hydraulic Engineering</i> , 1989, 115, 101-123.	1.5	157
12	Mechanics of flow over ripples and dunes. <i>Journal of Geophysical Research</i> , 1989, 94, 8146-8162.	3.3	151
13	Shear Instability in a Highly Stratified Estuary. <i>Journal of Physical Oceanography</i> , 1987, 17, 1668-1679.	1.7	145
14	Flow in meandering channels with natural topography. <i>Water Resources Monograph</i> , 1989, , 69-102.	1.0	135
15	A Model for Flow Over Two-Dimensional Bed Forms. <i>Journal of Hydraulic Engineering</i> , 1986, 112, 300-317.	1.5	129
16	A comparison of field data and theoretical models for wave-current interactions at the bed on the continental shelf. <i>Continental Shelf Research</i> , 1983, 2, 147-162.	1.8	121
17	Stability of a sand bed subjected to a shear flow of low Froude number. <i>Journal of Geophysical Research</i> , 1970, 75, 5928-5940.	3.3	115
18	Residual circulation in shallow estuaries: 2. Weakly stratified and partially mixed, narrow estuaries. <i>Journal of Geophysical Research</i> , 1990, 95, 733-748.	3.3	101

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19	Residual circulation in shallow estuaries: 1. Highly stratified, narrow estuaries. <i>Journal of Geophysical Research</i> , 1990, 95, 711-731.	3.3	100
20	Evolution and stability of erodible channel beds. <i>Water Resources Monograph</i> , 1989, , 321-377.	1.0	97
21	Predicting the migration rates of subaqueous dunes. <i>Water Resources Research</i> , 1996, 32, 3207-3217.	4.2	70
22	Critical shear stress for erosion of cohesive soils subjected to temperatures typical of wildfires. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	69
23	Flow and boundary shear stress in channels with woody bank vegetation. <i>Water Science and Application</i> , 2004, , 237-252.	0.3	65
24	Turbulence measurements in the boundary layer over a sand wave field. <i>Journal of Geophysical Research</i> , 1979, 84, 7791-7808.	3.3	60
25	Form drag in rivers due to small-scale natural topographic features: 1. Regular sequences. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	55
26	Test of a Method to Calculate Near-Bank Velocity and Boundary Shear Stress. <i>Journal of Hydraulic Engineering</i> , 2009, 135, 588-601.	1.5	54
27	Boundary Layer Adjustments to Bottom Topography and Suspended Sediment. <i>Elsevier Oceanography Series</i> , 1977, 19, 123-151.	0.1	50
28	Form drag in rivers due to small-scale natural topographic features: 2. Irregular sequences. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	38
29	Nonlinear Internal Waves in a Fjord. <i>Elsevier Oceanography Series</i> , 1978, 23, 465-493.	0.1	36
30	Generation and verification of theoretical rating curves in the Whitewater River basin, Kansas. <i>Journal of Geophysical Research</i> , 2005, 110, n/a-n/a.	3.3	30
31	The role of riparian shrubs in preventing floodplain unraveling along the Clark Fork of the Columbia River in the Deer Lodge Valley, Montana. <i>Water Science and Application</i> , 2004, , 71-85.	0.3	24
32	Turbulent Mixing in a Salt Wedge Estuary. <i>Elsevier Oceanography Series</i> , 1978, 23, 79-106.	0.1	15
33	Calculation of stage-discharge relations for gravel bedded channels. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	14
34	Floodplain stabilization by woody riparian vegetation during an extreme flood. <i>Water Science and Application</i> , 2004, , 221-236.	0.3	13
35	Boundary Shear Stress in Rivers and Estuaries. <i>ASCE Waterways, Harbors, and Coastal Engineering Division Journal</i> , 1970, 96, 335-358.	0.2	10
36	Turbulent Processes in Estuaries. , 1980, , 1-34.		8

#	ARTICLE	IF	CITATIONS
37	Flow and suspended-sediment transport in the Colorado River near National Canyon. Geophysical Monograph Series, 1999, , 99-115.	0.1	5
38	Beaver, Willow Shrubs, and Floods. , 2007, , 603-671.		4
39	Mixing Induced by Internal Hydraulic Disturbances in the Vicinity of Sills. , 1980, , 251-257.		0