

Andrew Simon

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/12005629/publications.pdf>

Version: 2024-02-01

93
papers

5,928
citations

101543

36
h-index

138484

58
g-index

98
all docs

98
docs citations

98
times ranked

2897
citing authors

#	ARTICLE	IF	CITATIONS
1	A review of modeling the effects of vegetation on large wood recruitment processes in mountain catchments. <i>Earth-Science Reviews</i> , 2019, 194, 350-373.	9.1	33
2	Quantification of potential recruitment of large woody debris in mountain catchments considering the effects of vegetation on hydraulic and geotechnical bank erosion and shallow landslides. <i>E3S Web of Conferences</i> , 2018, 40, 02046.	0.5	4
3	A combined field, laboratory and numerical study of the forces applied to, and the potential for removal of, bar top vegetation in a braided river. <i>Earth Surface Processes and Landforms</i> , 2017, 42, 439-459.	2.5	25
4	Generation of Boat Traffic Data: Techniques for Temporal and Spatial Extrapolation. , 2016, , .		0
5	Flow, turbulence, and drag associated with engineered log jams in a fixed-bed experimental channel. <i>Geomorphology</i> , 2015, 248, 172-184.	2.6	25
6	Modeling of multilayer cohesive bank erosion with a coupled bank stability and mobile-bed model. <i>Geomorphology</i> , 2015, 243, 116-129.	2.6	33
7	Physical-scale model designs for engineered log jams in rivers. <i>Journal of Hydro-Environment Research</i> , 2014, 8, 115-128.	2.2	44
8	Morphological evolution of the North Fork Toutle River following the eruption of Mount St. Helens, Washington. <i>Geomorphology</i> , 2014, 208, 102-116.	2.6	40
9	Scale-Dependent Effects of Bank Vegetation on Channel Processes: Field Data, Computational Fluid Dynamics Modeling, and Restoration Design. <i>Geophysical Monograph Series</i> , 2013, , 151-165.	0.1	1
10	Pool-Riffle Design Based on Geomorphological Principles for Naturalizing Straight Channels. <i>Geophysical Monograph Series</i> , 2013, , 367-384.	0.1	5
11	Seeing the Forest and the Trees: Wood in Stream Restoration in the Colorado Front Range, United States. <i>Geophysical Monograph Series</i> , 2013, , 399-418.	0.1	5
12	Development and Application of a Deterministic Bank Stability and Toe Erosion Model for Stream Restoration. <i>Geophysical Monograph Series</i> , 2013, , 453-474.	0.1	38
13	Bank Vegetation, Bank Strength, and Application of the University of British Columbia Regime Model to Stream Restoration. <i>Geophysical Monograph Series</i> , 2013, , 475-485.	0.1	2
14	Application of the CONCEPTS Channel Evolution Model in Stream Restoration Strategies. <i>Geophysical Monograph Series</i> , 2013, , 487-502.	0.1	5
15	Coupling a Two-Dimensional Model with a Deterministic Bank Stability Model. , 2012, , .		3
16	Effects of Vegetation Canopy Density and Bank Angle on Near-Bank Patterns of Turbulence and Reynolds Stresses. <i>Journal of Hydraulic Engineering</i> , 2012, 138, 974-978.	1.5	11
17	Use of fish functional traits to associate in-stream suspended sediment transport metrics with biological impairment. <i>Environmental Monitoring and Assessment</i> , 2011, 179, 347-369.	2.7	19
18	Cyclical Fluvial Response Caused by Rechannelization. , 2011, , .		0

#	ARTICLE	IF	CITATIONS
19	A comparison of average rates of alluvial erosion between the south-western and south-eastern United States. Earth Surface Processes and Landforms, 2010, 35, 447-459.	2.5	2
20	Hydrologic and hydraulic effects of riparian root networks on streambank stability: Is mechanical root-reinforcement the whole story?. Geomorphology, 2010, 116, 353-362.	2.6	225
21	Developing Linkages between Biological Impairment and Stream Siltation: A Case Study in the Northern Great Plains Ecoregion. , 2009, , .		0
22	Modeling the Evolution of Incised Streams. III: Model Application. Journal of Hydraulic Engineering, 2009, 135, 476-486.	1.5	25
23	Streambank dewatering for increased stability. Hydrological Processes, 2009, 23, 1537-1547.	2.6	7
24	Assessing the impact of riparian processes on streambank stability. Ecohydrology, 2009, 2, 360-369.	2.4	35
25	Enhanced application of root-reinforcement algorithms for bank-stability modeling. Earth Surface Processes and Landforms, 2009, 34, 471-480.	2.5	103
26	Quantifying Reductions of Mass-Failure Frequency and Sediment Loadings From Streambanks Using Toe Protection and Other Means: Lake Tahoe, United States ¹ . Journal of the American Water Resources Association, 2009, 45, 170-186.	2.4	45
27	Destabilization of streambanks by removal of invasive species in Canyon de Chelly National Monument, Arizona. Geomorphology, 2009, 103, 363-374.	2.6	54
28	Influence of seepage undercutting on the stability of root-reinforced streambanks. Earth Surface Processes and Landforms, 2008, 33, 1769-1786.	2.5	57
29	Fine-Sediment Loadings to Lake Tahoe. Journal of the American Water Resources Association, 2008, 44, 618-639.	2.4	13
30	Magnitude, Frequency, and Duration Relations for Suspended Sediment in Stable (Reference) Southeastern Streams ¹ . Journal of the American Water Resources Association, 2008, 44, 1270-1283.	2.4	20
31	Stream Restoration. , 2008, , 461-503.		26
32	The effects of variability in bank material properties on riverbank stability: Goodwin Creek, Mississippi. Geomorphology, 2008, 101, 533-543.	2.6	66
33	Enhanced Application of Root-Reinforcement Algorithms for Bank-Stability Modeling. , 2008, , .		0
34	Application of a Deterministic Bank-Stability Model to Design a Reach-Scale Restoration Project. , 2008, , .		1
35	Modelling Flow and Vegetation Effects in a Curved Channel. , 2008, , .		1
36	Modeling the Evolution of Incised Streams. II: Streambank Erosion. Journal of Hydraulic Engineering, 2008, 134, 905-915.	1.5	125

#	ARTICLE	IF	CITATIONS
37	Quantifying Existing and Potential Reductions in Sediment Loads from Streambanks. , 2008, , .		0
38	Enhancements of a Bank-Stability and Toe-Erosion Model and the Addition of Improved Mechanical Root-Reinforcement Algorithms. , 2007, , 1.		3
39	Magnitude, Frequency and Duration Relations for Suspended Sediment in Stable ("Reference") Southeastern Streams: Metrics for Linking Suspended Sediment with Aquatic Health. Proceedings of the Water Environment Federation, 2007, 2007, 681-699.	0.0	0
40	Implications for the Removal of Invasive Species in Canyon de Chelly National Monument. , 2007, , .		0
41	Measuring streambank erosion due to ground water seepage: correlation to bank pore water pressure, precipitation and stream stage. Earth Surface Processes and Landforms, 2007, 32, 1558-1573.	2.5	198
42	Modeling Pre- and Post-Dam Removal Sediment Dynamics: The Kalamazoo River, Michigan. Journal of the American Water Resources Association, 2007, 43, 773-785.	2.4	22
43	A Deterministic Bank-Stability and Toe-Erosion Model for Stream Restoration. , 2006, , 1.		1
44	Disturbance, stream incision, and channel evolution: The roles of excess transport capacity and boundary materials in controlling channel response. Geomorphology, 2006, 79, 361-383.	2.6	302
45	Flow Energy, Time, and Evolution of Dynamic Fluvial Systems: Implications for Stabilization and Restoration of Unstable Systems. , 2006, , 1.		0
46	INFLUENCE OF TWO WOODY RIPARIAN SPECIES ON CRITICAL CONDITIONS FOR STREAMBANK STABILITY: UPPER TRUCKEE RIVER, CALIFORNIA. Journal of the American Water Resources Association, 2006, 42, 99-113.	2.4	71
47	A New Approach to Modeling the Mechanical Effects of Riparian Vegetation on Streambank Stability: A Fiber-Bundle Model. , 2005, , 1.		1
48	Modeling the Impact of Riparian Buffer Systems on Bank Stability of an Incised Stream. , 2005, , 1.		7
49	Numerical Simulation of Post Dam Removal Sediment Dynamics along the Kalamazoo River Between Otsego and Plainwell, Michigan. , 2005, , 1.		7
50	Suspended-Sediment Transport Rates and Recurrence Intervals at the Effective Discharge. , 2005, , 1.		0
51	Goodwin Creek Experimental Watershed - Assessment of Conservation and Environmental Effects. , 2005, , .		0
52	Gully Study Revisited. , 2005, , 1.		1
53	Estimating the mechanical effects of riparian vegetation on stream bank stability using a fiber bundle model. Water Resources Research, 2005, 41, .	4.2	488
54	Measurement and Analysis of Alluvial Channel Form. , 2005, , 289-322.		9

#	ARTICLE	IF	CITATIONS
55	Riparian vegetation and fluvial geomorphology: Problems and opportunities. Water Science and Application, 2004, , 1-10.	0.3	22
56	Suspended-sediment transport rates at the 1.5-year recurrence interval for ecoregions of the United States: transport conditions at the bankfull and effective discharge?. Geomorphology, 2004, 58, 243-262.	2.6	155
57	Hydrologic Controls of Riparian Vegetation on the Geotechnical Stability of Streambanks: Experimental Results. , 2004, , 1.		0
58	Advances in assessing the mechanical and hydrologic effects of riparian vegetation on streambank stability. Water Science and Application, 2004, , 125-139.	0.3	67
59	Developing a Bed-Sediment Protocol for Discriminating Between Reference and Impaired Conditions. , 2004, , .		0
60	Design for Stream Restoration. Journal of Hydraulic Engineering, 2003, 129, 575-584.	1.5	252
61	REFERENCE SEDIMENT-TRANSPORT RATES FOR LEVEL III ECOREGIONS AND PRELIMINARY LINKS WITH AQUATIC INDICIES. Proceedings of the Water Environment Federation, 2002, 2002, 1157-1168.	0.0	0
62	Case Study: Channel Stability of the Missouri River, Eastern Montana. Journal of Hydraulic Engineering, 2002, 128, 880-890.	1.5	57
63	Effectiveness of grade-control structures in reducing erosion along incised river channels: the case of Hotophia Creek, Mississippi. Geomorphology, 2002, 42, 229-254.	2.6	72
64	Quantifying the mechanical and hydrologic effects of riparian vegetation on streambank stability. Earth Surface Processes and Landforms, 2002, 27, 527-546.	2.5	638
65	Processes and forms of an unstable alluvial system with resistant, cohesive streambeds. Earth Surface Processes and Landforms, 2002, 27, 699-718.	2.5	69
66	Fluvial geomorphological analysis of the recruitment of large woody debris in the Yalobusha River network, Central Mississippi, USA. Geomorphology, 2001, 37, 65-91.	2.6	73
67	"Reference" and Enhanced Rates of Suspended-Sediment Transport for Use in Developing Clean-Sediment TMDL's: Examples from Mississippi and the Southeastern United States. , 2001, , 1.		2
68	Bank-toe processes in incised channels: the role of apparent cohesion in the entrainment of failed bank materials. Hydrological Processes, 2001, 15, 39-61.	2.6	56
69	Pore-water pressure effects on the detachment of cohesive streambeds: seepage forces and matric suction. Earth Surface Processes and Landforms, 2001, 26, 1421-1442.	2.5	81
70	Mechanisms and Rates of Knickpoint Migration in Cohesive Streambeds: Hydraulic Shear and Mass Failure. , 2001, , 1.		0
71	Modeling Channel Instabilities and Mitigation Strategies in Eastern Nebraska. , 2000, , 1.		5
72	Knickpoint Erosion and Migration in Cohesive Streambeds. , 2000, , 1.		3

#	ARTICLE	IF	CITATIONS
73	Reservoir effects on downstream river channel migration. Environmental Conservation, 2000, 27, 54-66.	1.3	151
74	CHANNEL INSTABILITY IN THE LOESS AREA OF THE MIDWESTERN UNITED STATES. Journal of the American Water Resources Association, 2000, 36, 133-150.	2.4	139
75	Bank and near-bank processes in an incised channel. Geomorphology, 2000, 35, 193-217.	2.6	387
76	Bed-level adjustments in the Arno River, central Italy. Geomorphology, 1998, 22, 57-71.	2.6	133
77	Effect of Channel Adjustment Processes on Reliability of Bridge Foundations. Journal of Hydraulic Engineering, 1997, 123, 648-651.	1.5	3
78	Process-form interactions in unstable sand-bed river channels: A numerical modeling approach. Geomorphology, 1997, 21, 85-106.	2.6	66
79	CHANNEL ADJUSTMENT OF AN UNSTABLE COARSE-GRAINED STREAM: OPPOSING TRENDS OF BOUNDARY AND CRITICAL SHEAR STRESS, AND THE APPLICABILITY OF EXTREMAL HYPOTHESES. Earth Surface Processes and Landforms, 1996, 21, 155-180.	2.5	79
80	Numerical Simulation of Widening and Bed Deformation of Straight Sand-Bed Rivers.â€ŒII: Modelâ€œEvaluation. Journal of Hydraulic Engineering, 1996, 122, 194-202.	1.5	50
81	Adjustment and recovery of unstable alluvial channels: Identification and approaches for engineering management. Earth Surface Processes and Landforms, 1995, 20, 611-628.	2.5	59
82	An interdisciplinary approach to evaluation of potential instability in alluvial channels. Geomorphology, 1995, 12, 215-232.	2.6	85
83	Energy, time, and channel evolution in catastrophically disturbed fluvial systems. Geomorphology, 1992, 5, 345-372.	2.6	166
84	Bank accretion and the development of vegetated depositional surfaces along modified alluvial channels. Geomorphology, 1991, 4, 111-124.	2.6	138
85	A model of channel response in disturbed alluvial channels. Earth Surface Processes and Landforms, 1989, 14, 11-26.	2.5	397
86	THE DISCHARGE OF SEDIMENT IN CHANNELIZED ALLUVIAL STREAMS. Journal of the American Water Resources Association, 1989, 25, 1177-1188.	2.4	103
87	Man-induced gradient adjustment of the South Fork Forked Deer River, west Tennessee. Environmental Geology (New York), 1987, 9, 109-118.	0.3	20
88	"Reference" and Enhanced Rates of Suspended-Sediment Transport for Use in Developing Clean-Sediment TMDL's. , 0, , .		0
89	The Evolving Science of Stream Restoration. Geophysical Monograph Series, 0, , 1-8.	0.1	11
90	Geomorphological Approaches for River Management and Restoration in Italian and French Rivers. Geophysical Monograph Series, 0, , 95-113.	0.1	7

#	ARTICLE	IF	CITATIONS
91	Design Discharge for River Restoration. Geophysical Monograph Series, 0, , 123-149.	0.1	11
92	Closing the Gap Between Watershed Modeling, Sediment Budgeting, and Stream Restoration. Geophysical Monograph Series, 0, , 293-317.	0.1	21
93	The Effects of Riparian Buffer Strips on Streambank Stability: Root Reinforcement, Soil Strength, and Growth Rates. Agronomy, 0, , 15-32.	0.2	0