Andrew Simon

List of Publications by Year
in descending order

93 papers	5,928 citations	101496 36 h-index	138417 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. Earth-Science Reviews, 2019, 194, 350-373.	4.0	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. E3S Web of Conferences, 2018, 40, 02046.	0.2	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. Earth Surface Processes and Landforms, 2017, 42, 439-459.	1.2	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. Geomorphology, 2015, 248, 172-184.	1.1	25
6	Modeling of multilayer cohesive bank erosion with a coupled bank stability and mobile-bed model. Geomorphology, 2015, 243, 116-129.	1.1	33
7	Physical-scale model designs for engineered log jams in rivers. Journal of Hydro-Environment Research, 2014, 8, 115-128.	1.0	44
8	Morphological evolution of the North Fork Toutle River following the eruption of Mount St. Helens, Washington. Geomorphology, 2014, 208, 102-116.	1.1	40
9	Scale-Dependent Effects of Bank Vegetation on Channel Processes: Field Data, Computational Fluid Dynamics Modeling, and Restoration Design. Geophysical Monograph Series, 2013, , 151-165.	0.1	1
10	Pool-Riffle Design Based on Geomorphological Principles for Naturalizing Straight Channels. Geophysical Monograph Series, 2013, , 367-384.	0.1	5
11	Seeing the Forest and the Trees: Wood in Stream Restoration in the Colorado Front Range, United States. Geophysical Monograph Series, 2013, , 399-418.	0.1	5
12	Development and Application of a Deterministic Bank Stability and Toe Erosion Model for Stream Restoration. Geophysical Monograph Series, 2013, , 453-474.	0.1	38
13	Bank Vegetation, Bank Strength, and Application of the University of British Columbia Regime Model to Stream Restoration. Geophysical Monograph Series, 2013, , 475-485.	0.1	2
14	Application of the CONCEPTS Channel Evolution Model in Stream Restoration Strategies. Geophysical Monograph Series, 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. Journal of Hydraulic Engineering, 2012, 138, 974-978.	0.7	11
17	Use of fish functional traits to associate in-stream suspended sediment transport metrics with biological impairment. Environmental Monitoring and Assessment, 2011, 179, 347-369.	1.3	19
18	Cyclical Fluvial Response Caused by Rechannelization. , 2011, , .		0

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19	A comparison of average rates of alluvial erosion between the southâ€western and southâ€eastern United States. Earth Surface Processes and Landforms, 2010, 35, 447-459.	1.2	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.	1.1	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.	0.7	25
23	Streambank dewatering for increased stability. Hydrological Processes, 2009, 23, 1537-1547.	1.1	7
24	Assessing the impact of riparian processes on streambank stability. Ecohydrology, 2009, 2, 360-369.	1.1	35
25	Enhanced application of rootâ€reinforcement algorithms for bankâ€stability modeling. Earth Surface Processes and Landforms, 2009, 34, 471-480.	1.2	103
26	Quantifying Reductions of Massâ€Failure Frequency and Sediment Loadings From Streambanks Using Toe Protection and Other Means: Lake Tahoe, United States¹. Journal of the American Water Resources Association, 2009, 45, 170-186.	1.0	45
27	Destabilization of streambanks by removal of invasive species in Canyon de Chelly National Monument, Arizona. Geomorphology, 2009, 103, 363-374.	1.1	54
28	Influence of seepage undercutting on the stability of rootâ€reinforced streambanks. Earth Surface Processes and Landforms, 2008, 33, 1769-1786.	1.2	57
29	Fine-Sediment Loadings to Lake Tahoe. Journal of the American Water Resources Association, 2008, 44, 618-639.	1.0	13
30	Magnitude, Frequency, and Duration Relations for Suspended Sediment in Stable (â€œReferenceâ€) Southeastern Streams¹. Journal of the American Water Resources Association, 2008, 44, 1270-1283.	1.0	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.	1.1	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.	0.7	125

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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.	1.2	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.	1.0	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.	1.1	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.	1.0	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, .	1.7	488
54	Measurement and Analysis of Alluvial Channel Form. , 2005, , 289-322.		9

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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.	1.1	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.	0.7	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.	0.7	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.	1.1	72
64	Quantifying the mechanical and hydrologic effects of riparian vegetation on streambank stability. Earth Surface Processes and Landforms, 2002, 27, 527-546.	1.2	638
65	Processes and forms of an unstable alluvial system with resistant, cohesive streambeds. Earth Surface Processes and Landforms, 2002, 27, 699-718.	1.2	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.	1.1	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.	1.1	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.	1.2	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

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73	Reservoir effects on downstream river channel migration. Environmental Conservation, 2000, 27, 54-66.	0.7	151
74	CHANNEL INSTABILITY IN THE LOESS AREA OF THE MIDWESTERN UNITED STATES. Journal of the American Water Resources Association, 2000, 36, 133-150.	1.0	139
75	Bank and near-bank processes in an incised channel. Geomorphology, 2000, 35, 193-217.	1.1	387
76	Bed-level adjustments in the Arno River, central Italy. Geomorphology, 1998, 22, 57-71.	1.1	133
77	Effect of Channel Adjustment Processes on Reliability of Bridge Foundations. Journal of Hydraulic Engineering, 1997, 123, 648-651.	0.7	3
78	Process-form interactions in unstable sand-bed river channels: A numerical modeling approach. Geomorphology, 1997, 21, 85-106.	1.1	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.	1.2	79
80	Numerical Simulation of Widening and Bed Deformation of Straight Sand-Bed Rivers.â€ƒII: Modelâ€‰Evaluation. Journal of Hydraulic Engineering, 1996, 122, 194-202.	0.7	50
81	Adjustment and recovery of unstable alluvial channels: Identification and approaches for engineering management. Earth Surface Processes and Landforms, 1995, 20, 611-628.	1.2	59
82	An interdisciplinary approach to evaluation of potential instability in alluvial channels. Geomorphology, 1995, 12, 215-232.	1.1	85
83	Energy, time, and channel evolution in catastrophically disturbed fluvial systems. Geomorphology, 1992, 5, 345-372.	1.1	166
84	Bank accretion and the development of vegetated depositional surfaces along modified alluvial channels. Geomorphology, 1991, 4, 111-124.	1.1	138
85	A model of channel response in disturbed alluvial channels. Earth Surface Processes and Landforms, 1989, 14, 11-26.	1.2	397
86	THE DISCHARGE OF SEDIMENT IN CHANNELIZED ALLUVIAL STREAMS. Journal of the American Water Resources Association, 1989, 25, 1177-1188.	1.0	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

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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