

# Astrid Blom

## List of Publications by Year in descending order

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Version: 2024-02-01

32  
papers

870  
citations

567281

15  
h-index

501196

28  
g-index

38  
all docs

38  
docs citations

38  
times ranked

591  
citing authors

#	ARTICLE	IF	CITATIONS
1	Sediment Nourishments to Mitigate Channel Bed Incision in Engineered Rivers. <i>Journal of Hydraulic Engineering</i> , 2022, 148, .	1.5	5
2	River Response to Anthropogenic Modification: Channel Steepening and Gravel Front Fading in an Incising River. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091338.	4.0	22
3	A Framework to Evaluate the SDG Contribution of Fluvial Nature-Based Solutions. <i>Sustainability</i> , 2021, 13, 11320.	3.2	5
4	Erosional Cyclic Steps Governed by Plunge Pool Erosion: A Parametric Study Based on Field, Laboratory, and Model Data. <i>Journal of Geophysical Research F: Earth Surface</i> , 2021, 126, e2020JF006034.	2.8	4
5	A Rapid Method for Modeling Transient River Response Under Stochastic Controls With Applications to Sea Level Rise and Sediment Nourishment. <i>Journal of Geophysical Research F: Earth Surface</i> , 2021, 126, e2021JF006177.	2.8	6
6	A Well-Posed Alternative to the Hirano Active Layer Model for Rivers With Mixed-Size Sediment. <i>Journal of Geophysical Research F: Earth Surface</i> , 2019, 124, 2491-2520.	2.8	7
7	The Quasi-Equilibrium Longitudinal Profile in Backwater Reaches of the Engineered Alluvial River: A Space-Marching Method. <i>Journal of Geophysical Research F: Earth Surface</i> , 2019, 124, 2542-2560.	2.8	15
8	A regularization strategy for modeling mixed-sediment river morphodynamics. <i>Advances in Water Resources</i> , 2019, 127, 291-309.	3.8	9
9	Ill-posedness in modelling two-dimensional morphodynamic problems: effects of bed slope and secondary flow. <i>Journal of Fluid Mechanics</i> , 2019, 868, 461-500.	3.4	13
10	Ill-posedness in modeling mixed sediment river morphodynamics. <i>Advances in Water Resources</i> , 2018, 114, 219-235.	3.8	17
11	Morphodynamic assessment of side channel systems using a simple one-dimensional bifurcation model and a comparison with aerial images. <i>Earth Surface Processes and Landforms</i> , 2018, 43, 1169-1182.	2.5	24
12	Degradational response of engineered channels to changes in the upstream controls and channel width: Simplified 1D numerical simulations. <i>E3S Web of Conferences</i> , 2018, 40, 03035.	0.5	0
13	A reduced complexity model of a gravel-sand river bifurcation: Equilibrium states and their stability. <i>Advances in Water Resources</i> , 2018, 121, 9-21.	3.8	8
14	A Sand-Gravel Gilbert Delta Subject to Base Level Change. <i>Journal of Geophysical Research F: Earth Surface</i> , 2018, 123, 1160-1179.	2.8	11
15	Advance, Retreat, and Halt of Abrupt Gravel-Sand Transitions in Alluvial Rivers. <i>Geophysical Research Letters</i> , 2017, 44, 9751-9760.	4.0	49
16	The equilibrium alluvial river under variable flow and its channel-forming discharge. <i>Journal of Geophysical Research F: Earth Surface</i> , 2017, 122, 1924-1948.	2.8	104
17	Armor breakup and reformation in a degradational laboratory experiment. <i>Earth Surface Dynamics</i> , 2016, 4, 461-470.	2.4	16
18	A new technique for measuring the bed surface texture during flow and application to a degradational sand-gravel laboratory experiment. <i>Water Resources Research</i> , 2016, 52, 7005-7022.	4.2	12

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19	The graded alluvial river: Profile concavity and downstream fining. <i>Geophysical Research Letters</i> , 2016, 43, 6285-6293.	4.0	75
20	An accurate numerical solution to the Saint-Venant-Hirano model for mixed-sediment morphodynamics in rivers. <i>Advances in Water Resources</i> , 2016, 93, 39-61.	3.8	25
21	Comparison between experimental and numerical stratigraphy emplaced by a prograding delta. <i>Earth Surface Dynamics</i> , 2014, 2, 323-338.	2.4	11
22	Mathematical analysis of the Saint-Venant-Hirano model for mixed-sediment morphodynamics. <i>Water Resources Research</i> , 2014, 50, 7563-7589.	4.2	35
23	Image analysis for measuring the size stratification in sand-gravel laboratory experiments. <i>Earth Surface Dynamics</i> , 2014, 2, 217-232.	2.4	8
24	Vertical sorting and the morphodynamics of bed form-dominated rivers: A sorting evolution model. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	36
25	Different approaches to handling vertical and streamwise sorting in modeling river morphodynamics. <i>Water Resources Research</i> , 2008, 44, .	4.2	41
26	Quantification of variability in bedform geometry. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	109
27	Variability in bedform characteristics using flume and river data. , 2007, , 923-930.		5
28	Vertical sorting and the morphodynamics of bed-form-dominated rivers: An equilibrium sorting model. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	32
29	Modelling sorting over the lee face of individual bed forms. , 2006, , .		5
30	Vertical sorting and the morphodynamics of bed form-dominated rivers: A modeling framework. <i>Journal of Geophysical Research</i> , 2004, 109, n/a-n/a.	3.3	57
31	Vertical sorting in bed forms: Flume experiments with a natural and a trimodal sediment mixture. <i>Water Resources Research</i> , 2003, 39, .	4.2	86
32	A Qualitative Analysis of the Distribution of Bed-Surface Elevation and the Characteristics of Associated Deposits for Subaqueous Dunes. , 0, , 121-134.		7