Karl-Erich Lindenschmidt

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/645049/publications.pdf Version: 2024-02-01

		257357	330025
122	2,173	24	37
papers	citations	h-index	g-index
129 all docs	129 docs citations	129 times ranked	2055 citing authors

#	Article	IF	CITATIONS
1	Evidence-based identification of integrated water quality systems. Journal of Environmental Planning and Management, 2023, 66, 1431-1452.	2.4	1
2	Modelling of ice jam floods under past and future climates: A review. Journal of Hydrology X, 2022, 15, 100120.	0.8	5
3	Buffalo Pound Lake—Modelling Water Resource Management Scenarios of a Large Multi-Purpose Prairie Reservoir. Water (Switzerland), 2022, 14, 584.	1.2	6
4	Climate change impacts on ice jam behavior in an inland delta: a new ice jam projection framework. Climatic Change, 2022, 171, 1.	1.7	1
5	Modelling transverse mixing of sediment and vanadium in a river impacted by oil sands mining operations. Journal of Hydrology: Regional Studies, 2022, 40, 101043.	1.0	3
6	Advances in modelling large river basins in cold regions with Modélisation Environmentale Communautaire—Surface and Hydrology (MESH), the Canadian hydrological land surface scheme. Hydrological Processes, 2022, 36, .	1.1	14
7	Stochastic bias correction for RADARSAT-2 soil moisture retrieved over vegetated areas. Geocarto International, 2022, 37, 9190-9203.	1.7	2
8	A stochastic modelling approach to forecast real-time ice jam flood severity along the transborder (New Brunswick/Maine) Saint John River of North America. Stochastic Environmental Research and Risk Assessment, 2022, 36, 1903-1915.	1.9	4
9	The impact of a bias-correction approach (delta change) applied directly to hydrological model output when modelling the severity of ice jam flooding under future climate scenarios. Climatic Change, 2022, 172, .	1.7	1
10	Climate change effects on the thermal stratification of Lake Diefenbaker, a large multi-purpose reservoir. Canadian Water Resources Journal, 2021, 46, 1-16.	0.5	6
11	An ice jam flood hazard assessment of a lowland river and its terminus inland delta. Natural Hazards, 2021, 105, 2799-2817.	1.6	3
12	Evaluation of the implications of iceâ€jam flood mitigation measures. Journal of Flood Risk Management, 2021, 14, e12697.	1.6	5
13	Measuring the skill of an operational ice jam flood forecasting system. International Journal of Disaster Risk Reduction, 2021, 52, 102001.	1.8	6
14	Evaluating transdisciplinary research practices: insights from social network analysis. Sustainability Science, 2021, 16, 631-645.	2.5	15
15	Evaluation of the sensitivity of hydraulic model parameters, boundary conditions and digital elevation models on ice-jam flood delineation. Cold Regions Science and Technology, 2021, 183, 103218.	1.6	2
16	The impacts of changing climate and streamflow on nutrient speciation in a large Prairie reservoir. Journal of Environmental Management, 2021, 288, 112262.	3.8	15
17	A generic approach to evaluate costs and effectiveness of agricultural Beneficial Management Practices to improve water quality management. Journal of Environmental Management, 2021, 287, 112336.	3.8	6
18	Exploring the Potential of Zoning Regulation for Reducing Ice-Jam Flood Risk Using a Stochastic Modelling Framework. Water (Switzerland), 2021, 13, 2202.	1.2	1

#	Article	IF	CITATIONS
19	Modelling climatic impacts on ice-jam floods: a review of current models, modelling capabilities, challenges, and future prospects. Environmental Reviews, 2021, 29, 378-390.	2.1	7
20	Synthesis of science: findings on Canadian Prairie wetland drainage. Canadian Water Resources Journal, 2021, 46, 229-241.	0.5	15
21	Proof-of-Concept of a Quasi-2D Water-Quality Modelling Approach to Simulate Transverse Mixing in Rivers. Water (Switzerland), 2021, 13, 3071.	1.2	0
22	River Ice Processes and Ice Flood Forecasting. , 2020, , .		18
23	Incorporating social dimensions in hydrological and water quality modeling to evaluate the effectiveness of agricultural beneficial management practices in a Prairie River Basin. Environmental Science and Pollution Research, 2020, 27, 14271-14287.	2.7	7
24	Impacts of Varying Dam Outflow Elevations on Water Temperature, Dissolved Oxygen, and Nutrient Distributions in a Large Prairie Reservoir. Environmental Engineering Science, 2020, 37, 78-97.	0.8	20
25	Impacts of future climate on the hydrology of a northern headwaters basin and its implications for a downstream deltaic ecosystem. Hydrological Processes, 2020, 34, 1630-1646.	1.1	13
26	Correlation among parameters and boundary conditions in river ice models. Modeling Earth Systems and Environment, 2020, 6, 499-512.	1.9	5
27	Water Quality Modeling of Phytoplankton and Nutrient Cycles of a Complex Cold-Region River-Lake System. Environmental Modeling and Assessment, 2020, 25, 293-306.	1.2	2
28	Current status and advancement suggestions of ice-jam flood hazard and risk assessment. Environmental Reviews, 2020, 28, 373-379.	2.1	5
29	Sensitivity of boundary data in a shallow prairie lake model. Canadian Water Resources Journal, 2020, 45, 204-215.	0.5	1
30	Ice-Jam Flood Risk Assessment and Hazard Mapping under Future Climate. Journal of Water Resources Planning and Management - ASCE, 2020, 146, .	1.3	21
31	A physically-based modelling framework for operational forecasting of river ice breakup. Advances in Water Resources, 2020, 139, 103554.	1.7	11
32	A multi-objective calibration approach using in-situ soil moisture data for improved hydrological simulation of the Prairies. Hydrological Sciences Journal, 2020, 65, 638-649.	1.2	14
33	Numerical Modelling of River-Ice Processes (Application). , 2020, , 145-174.		1
34	Ice-Cover Monitoring. , 2020, , 39-77.		0
35	Freeze-Up. , 2020, , 11-38.		0
36	Effects of River Geomorphology on River Ice Freeze-up and Break-up Rates Using MODIS Imagery. Canadian Journal of Remote Sensing, 2019, 45, 176-191.	1.1	4

#	Article	IF	CITATIONS
37	Climatic effects on ice phenology and ice-jam flooding of the Athabasca River in western Canada. Hydrological Sciences Journal, 2019, 64, 1265-1278.	1.2	23
38	Modelling the possible impacts of climate change on the thermal regime and macroinvertebrate species of a regulated prairie river. Ecohydrology, 2019, 12, e2102.	1.1	16
39	Variable withdrawal elevations as a management tool to counter the effects of climate warming in Germany's largest drinking water reservoir. Environmental Sciences Europe, 2019, 31, .	2.6	29
40	Editorial Note – Special Issue on "Advanced Remote Sensing Technologies for Natural Resource Management and Disaster Monitoring - 39th Canadian Symposium on Remote Sensing― Canadian Journal of Remote Sensing, 2019, 45, 113-115.	1.1	0
41	A novel stochastic modelling approach for operational real-time ice-jam flood forecasting. Journal of Hydrology, 2019, 575, 381-394.	2.3	33
42	Vanadium and thallium exhibit biodilution in a northern river food web. Chemosphere, 2019, 233, 381-386.	4.2	14
43	Modelling the effects of climate and flow regulation on iceâ€affected backwater staging in a large northern river. River Research and Applications, 2019, 35, 587-600.	0.7	19
44	Feasibility of using continuous, stiff materials for reinforcing freshwater ice covers. SN Applied Sciences, 2019, 1, 1.	1.5	1
45	Radar Scatter Decomposition to Differentiate between Running Ice Accumulations and Intact Ice Covers along Rivers. Remote Sensing, 2019, 11, 307.	1.8	11
46	Development of an Ice Jam Flood Forecasting System for the Lower Oder River—Requirements for Real-Time Predictions of Water, Ice and Sediment Transport. Water (Switzerland), 2019, 11, 95.	1.2	17
47	Potential of RADARSAT-2 to Improve Ice Thickness Calculations in Remote, Poorly Accessible Areas: A Case Study on the Slave River, Canada. Canadian Journal of Remote Sensing, 2019, 45, 234-245.	1.1	7
48	CE-QUAL-W2 model of dam outflow elevation impact on temperature, dissolved oxygen and nutrients in a reservoir. Scientific Data, 2019, 6, 312.	2.4	19
49	Interfacing Stakeholder Involvement into a Surface Water-Quality Modelling System for Water Management and Policy Development. Green Energy and Technology, 2019, , 312-316.	0.4	0
50	Promoting Sustainable Ice-Jam Flood Management along the Peace River and Peace-Athabasca Delta. Journal of Water Resources Planning and Management - ASCE, 2019, 145, .	1.3	24
51	A framework for engaging stakeholders in water quality modeling and management: Application to the Qu'Appelle River Basin, Canada. Journal of Environmental Management, 2019, 231, 1117-1126.	3.8	28
52	Comparison of aquatic ecosystem functioning between eutrophic and hypereutrophic cold-region river-lake systems. Ecological Modelling, 2019, 393, 25-36.	1.2	6
53	Improving in-lake water quality modeling using variable chlorophyll a/algal biomass ratios. Environmental Modelling and Software, 2018, 101, 73-85.	1.9	50
54	Coherence of Radarsat-2, Sentinel-1, and ALOS-1 PALSAR for monitoring spatiotemporal variations of river ice covers. Canadian Journal of Remote Sensing, 2018, 44, 11-25.	1.1	4

#	Article	IF	CITATIONS
55	Lessons learned from past ice-jam floods concerning the challenges of flood mapping. International Journal of River Basin Management, 2018, 16, 457-468.	1.5	23
56	Ecological patterns of fish distribution in the Slave River Delta region, Northwest Territories, Canada, as relayed by traditional knowledge and Western science. International Journal of Water Resources Development, 2018, 34, 305-324.	1.2	8
57	River and Lake Ice Processes—Impacts of Freshwater Ice on Aquatic Ecosystems in a Changing Globe. Water (Switzerland), 2018, 10, 1586.	1.2	16
58	Sustainable Ice-Jam Flood Management for Socio-Economic and Socio-Ecological Systems. Water (Switzerland), 2018, 10, 135.	1.2	14
59	Potential Changes of Annual-Averaged Nutrient Export in the South Saskatchewan River Basin under Climate and Land-Use Change Scenarios. Water (Switzerland), 2018, 10, 1438.	1.2	13
60	Water quality modeling of a prairie river-lake system. Environmental Science and Pollution Research, 2018, 25, 31190-31204.	2.7	9
61	Ice-jam flood research: a scoping review. Natural Hazards, 2018, 94, 1439-1457.	1.6	22
62	Geospatial Modeling of River Systems. Water (Switzerland), 2018, 10, 282.	1.2	5
63	Challenges of modelling water quality in a shallow prairie lake with seasonal ice cover. Ecological Modelling, 2018, 384, 43-52.	1.2	15
64	Trends in the Timing and Magnitude of Ice-Jam Floods in Canada. Scientific Reports, 2018, 8, 5834.	1.6	55
65	Monitoring river ice cover development using the Freeman–Durden decomposition of quad-pol Radarsat-2 images. Journal of Applied Remote Sensing, 2018, 12, 1.	0.6	13
66	Bridging science and traditional knowledge to assess cumulative impacts of stressors on ecosystem health. Environment International, 2017, 102, 125-137.	4.8	101
67	Comparison and Validation of Digital Elevation Models Derived from InSAR for a Flat Inland Delta in the High Latitudes of Northern Canada. Canadian Journal of Remote Sensing, 2017, 43, 109-123.	1.1	29
68	Air pockets and water lenses in the ice cover of the Slave River. Cold Regions Science and Technology, 2017, 136, 72-80.	1.6	9
69	Using stage frequency distributions as objective functions for model calibration and global sensitivity analyses. Environmental Modelling and Software, 2017, 92, 169-175.	1.9	24
70	Stable sulfur isotopes identify habitat-specific foraging and mercury exposure in a highly mobile fish community. Science of the Total Environment, 2017, 586, 338-346.	3.9	24
71	Parameter Sensitivity of a Surface Water Quality Model of the Lower South Saskatchewan River—Comparison Between Ice-On and Ice-Off Periods. Environmental Modeling and Assessment, 2017, 22, 291-307.	1.2	13
72	The ecohydrological vulnerability of a large inland delta to changing regional streamflows and upstream irrigation expansion. Ecohydrology, 2017, 10, e1824.	1.1	18

#	Article	IF	CITATIONS
73	Sedimentation and erosion in Lake Diefenbaker, Canada: solutions for shoreline retreat monitoring. Environmental Monitoring and Assessment, 2017, 189, 507.	1.3	8
74	Surface water retention systems for cattail production as a biofuel. Journal of Environmental Management, 2017, 203, 500-509.	3.8	9
75	Improved Understanding of River Ice Processes Using Global Sensitivity Analysis Approaches. Journal of Hydrologic Engineering - ASCE, 2017, 22, .	0.8	24
76	Openâ€water and underâ€ice seasonal variations in trace element content and physicochemical associations in fluvial bed sediment. Environmental Toxicology and Chemistry, 2017, 36, 2916-2924.	2.2	2
77	An economic assessment of local farm multi-purpose surface water retention systems in a Canadian Prairie setting. Applied Water Science, 2017, 7, 4461-4478.	2.8	3
78	Sediment plume model—a comparison between use of measured turbidity data and satellite images for model calibration. Environmental Science and Pollution Research, 2017, 24, 19583-19598.	2.7	13
79	An Economic Assessment of Local Farm Multi-Purpose Surface Water Retention Systems under Future Climate Uncertainty. Sustainability, 2017, 9, 456.	1.6	12
80	Modelling Dissolved Oxygen/Sediment Oxygen Demand under Ice in a Shallow Eutrophic Prairie Reservoir. Water (Switzerland), 2017, 9, 131.	1.2	36
81	Impacts of Climate Change on the Water Quality of a Regulated Prairie River. Water (Switzerland), 2017, 9, 199.	1.2	34
82	RIVICE—A Non-Proprietary, Open-Source, One-Dimensional River-Ice Model. Water (Switzerland), 2017, 9, 314.	1.2	58
83	Topography- and nightlight-based national flood risk assessment in Canada. Hydrology and Earth System Sciences, 2017, 21, 2219-2232.	1.9	19
84	Seasonal Variation in Sediment Oxygen Demand in a Northern Chained River-Lake System. Water (Switzerland), 2017, 9, 254.	1.2	18
85	Using Remote Sensing Data to Parameterize Ice Jam Modeling for a Northern Inland Delta. Water (Switzerland), 2017, 9, 306.	1.2	25
86	Using a Geospatial Model to Relate Fluvial Geomorphology to Macroinvertebrate Habitat in a Prairie River—Part 1: Genus-Level Relationships with Geomorphic Typologies. Water (Switzerland), 2016, 8, 42.	1.2	4
87	Using a Geospatial Model to Relate Fluvial Geomorphology to Macroinvertebrate Habitat in a Prairie River—Part 2: Matching Family-Level Indices to Geomorphological Response Units (GRUs). Water (Switzerland), 2016, 8, 107.	1.2	3
88	Quantifying Spatial Changes in the Structure of Water Quality Constituents in a Large Prairie River within Two Frameworks of a Water Quality Model. Water (Switzerland), 2016, 8, 158.	1.2	9
89	Identifying links between Fluvial Geomorphic Response Units (FGRUs) and fish species in the Assiniboine River, Manitoba. Ecohydrology, 2016, 9, 1154-1165.	1.1	3
90	Iceâ€jam flood risk assessment and mapping. Hydrological Processes, 2016, 30, 3754-3769.	1.1	55

#	Article	IF	CITATIONS
91	Integration of space-borne and air-borne data in monitoring river ice processes in the Slave River, Canada. Remote Sensing of Environment, 2016, 181, 65-81.	4.6	26
92	Influence of hydrological connectivity on winter limnology in floodplain lakes of the Saskatchewan River Delta, Saskatchewan. Canadian Journal of Fisheries and Aquatic Sciences, 2016, 73, 140-152.	0.7	19
93	Development of geomorphic typologies for identifying Lake Sturgeon (Acipenser fulvescens) habitat in the Saskatchewan River System. River Systems, 2015, 21, 215-227.	0.2	8
94	Assessing the transport of total phosphorus from a prairie river basin using SPARROW. Hydrological Processes, 2015, 29, 4144-4160.	1.1	11
95	Geospatial modeling of the Birch River: Distribution of Carmine Shiner (<i>Notropis percobromus</i>) in Geomorphic Response Units (GRU). International Review of Hydrobiology, 2015, 100, 129-140.	0.5	9
96	Monitoring the Variation in Ice-Cover Characteristics of the Slave River, Canada Using RADARSAT-2 Data—A Case Study. Remote Sensing, 2015, 7, 13664-13691.	1.8	22
97	The upper Qu'Appelle water supply project in Saskatchewan, Canada: upland canal ice study. Osterreichische Wasser- Und Abfallwirtschaft, 2015, 67, 230-239.	0.3	5
98	A geospatial model to determine patterns of ice cover breakup along the Slave River. Canadian Journal of Civil Engineering, 2015, 42, 675-685.	0.7	15
99	Lake Diefenbaker temperature model. Journal of Great Lakes Research, 2015, 41, 8-21.	0.8	34
100	Evidence for internal phosphorus loading in a large prairie reservoir (Lake Diefenbaker,) Tj ETQq0 0 0 rgBT /Overl	ock 10 Tf 5 0.8	50 382 Td (Sa
101	A water coverage extraction approach to track inundation in the Saskatchewan River Delta, Canada. International Journal of Remote Sensing, 2015, 36, 764-781.	1.3	29
102	Monitoring the freeze-up and ice cover progression of the Slave River. Canadian Journal of Civil Engineering, 2015, 42, 609-621.	0.7	19
103	Dynamic water quality modelling and uncertainty analysis of phytoplankton and nutrient cycles for the upper South Saskatchewan River. Environmental Science and Pollution Research, 2015, 22, 18239-18251.	2.7	22
104	The importance of RADARSAT-2 imagery in monitoring river ice cover characteristics and behaviour. , 2014, , .		1
105	Geospatial modelling to determine the behaviour of ice cover formation during freeze-up of the Dauphin River in Manitoba. Hydrology Research, 2014, 45, 645-659.	1.1	14
106	The impact of macrophytes on winter flows along the Upper Qu'Appelle River. Canadian Water Resources Journal, 2014, 39, 342-355.	0.5	17
107	Evaluating the impact of fluvial geomorphology on river ice cover formation based on a global sensitivity analysis of a river ice model. Canadian Journal of Civil Engineering, 2013, 40, 623-632.	0.7	16
108	A GIS approach to define the hydro-geomorphological regime for instream flow requirements using	0.2	11

A GIS approach to define the hydro-geomorphological regime for instra geomorphic response units (GRU). River Systems, 2013, 20, 261-275. 108

#	Article	IF	CITATIONS
109	Modelling ice cover formation of a lake–river system with exceptionally high flows (Lake St. Martin) Tj ETQq1	1 0,78431 1.6	.4 rgBT /Overl
110	Analysis of a detention basin impact on dike failure probabilities and flood risk for a channel-dike-floodplain system along the river Elbe, Germany. Journal of Hydrology, 2012, 436-437, 120-131.	2.3	86
111	Ice Jam Modelling of the Lower Red River. Journal of Water Resource and Protection, 2012, 04, 1-11.	0.3	29
112	Measuring Ice Thicknesses along the Red River in Canada Using RADARSAT-2 Satellite Imagery. Journal of Water Resource and Protection, 2010, 02, 923-933.	0.3	20
113	Environmental risk of dissolved oxygen depletion of diverted flood waters in river polder systems – A quasi-2D flood modelling approach. Science of the Total Environment, 2009, 407, 1598-1612.	3.9	24
114	A quasi-2D flood modeling approach to simulate substance transport in polder systems for environment flood risk assessment. Science of the Total Environment, 2008, 397, 86-102.	3.9	20
115	Quasi-2D Approach in Modeling the Transport of Contaminated Sediments in Floodplains during River Flooding—Model Coupling and Uncertainty Analysis. Environmental Engineering Science, 2008, 25, 333-352.	0.8	9
116	Structural uncertainty in a river water quality modelling system. Ecological Modelling, 2007, 204, 289-300.	1.2	77
117	Monitoring, assessment and modelling using water quality data in the Saale River Basin, Germany. Environmental Monitoring and Assessment, 2007, 135, 227-240.	1.3	8
118	Modelling of snowmelt erosion and sediment yield in a small low-mountain catchment in Germany. Catena, 2006, 68, 161-176.	2.2	53
119	The effect of complexity on parameter sensitivity and model uncertainty in river water quality modelling. Ecological Modelling, 2006, 190, 72-86.	1.2	92
120	Impact of morphological parameters on water quality variables of a regulated lowland river. Water Science and Technology, 2005, 52, 187-93.	1.2	5
121	The effect of water column mixing on phytoplankton succession, diversity and similarity. Journal of Plankton Research, 1998, 20, 1927-1951.	0.8	76
122	Effects of quality controlled measured and re-analysed meteorological data on the performance of water temperature simulations. Hydrological Sciences Journal, 0, , .	1.2	3