Binliang Lin

List of Publications by Year
in descending order

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129 papers	3,659 citations	101543 36 h-index	168389 53 g-index
130 all docs	130 docs citations	130 times ranked	2823 citing authors

#	Article	IF	Citations
1	Modelling dam-break flows over mobile beds using a 2D coupled approach. Advances in Water Resources, 2010, 33, 171-183.	3.8	144
2	Comparison between TVD-MacCormack and ADI-type solvers of the shallow water equations. Advances in Water Resources, 2006, 29, 1833-1845.	3.8	140
3	Simulation of rapidly varying flow using an efficient TVDâ€“MacCormack scheme. International Journal for Numerical Methods in Fluids, 2007, 53, 811-826.	1.6	116
4	Hydro-environmental modelling for bathing water compliance of an estuarine basin. Water Research, 2002, 36, 1854-1868.	11.3	114
5	Tidal Flow and Transport Modeling Using ULTIMATE QUICKEST Scheme. Journal of Hydraulic Engineering, 1997, 123, 303-314.	1.5	93
6	Coupling surface and subsurface flows in a depth averaged flood wave model. Journal of Hydrology, 2007, 337, 147-158.	5.4	91
7	Numerical assessment of flood hazard risk to people and vehicles in flash floods. Environmental Modelling and Software, 2011, 26, 987-998.	4.5	88
8	Impact of different tidal renewable energy projects on the hydrodynamic processes in the Severn Estuary, UK. Ocean Modelling, 2010, 32, 86-104.	2.4	86
9	Numerical modelling of three-dimensional suspended sediment for estuarine and coastal waters. Journal of Hydraulic Research/De Recherches Hydrauliques, 1996, 34, 435-456.	1.7	78
10	Impact of different operating modes for a Severn Barrage on the tidal power and flood inundation in the Severn Estuary, UK. Applied Energy, 2010, 87, 2374-2391.	10.1	78
11	Decay of intestinal enterococci concentrations in high-energy estuarine and coastal waters: towards real-time T90 values for modelling faecal indicators in recreational waters. Water Research, 2005, 39, 655-667.	11.3	75
12	A boundary-fitted numerical model for flood routing with shock-capturing capability. Journal of Hydrology, 2007, 332, 477-486.	5.4	71
13	Hydrodynamic impact of a tidal barrage in the Severn Estuary, UK. Renewable Energy, 2010, 35, 1455-1468.	8.9	69
14	Formula of incipient velocity for flooded vehicles. Natural Hazards, 2011, 58, 1-14.	3.4	66
15	Experimental study of wake structure behind a horizontal axis tidal stream turbine. Applied Energy, 2017, 196, 82-96.	10.1	65
16	A modelling study of residence time in a macro-tidal estuary. Estuarine, Coastal and Shelf Science, 2007, 71, 401-411.	2.1	64
17	Numerical modelling of sedimentâ€“bacteria interaction processes in surface waters. Water Research, 2011, 45, 1951-1960.	11.3	64
18	An implicit numerical algorithm for solving non-hydrostatic free-surface flow problems. International Journal for Numerical Methods in Fluids, 2001, 35, 341-356.	1.6	63

#	Article	IF	Citations
19	Three-dimensional numerical modelling of free surface flows with non-hydrostatic pressure. International Journal for Numerical Methods in Fluids, 2002, 40, 1145-1162.	1.6	60
20	Modelling the fate of faecal indicators in a coastal basin. Water Research, 2006, 40, 1413-1425.	11.3	60
21	Incipient velocity for partially submerged vehicles in floodwaters. Journal of Hydraulic Research/De Recherches Hydrauliques, 2011, 49, 709-717.	1.7	55
22	Modelling trace metal concentration distributions in estuarine waters. Estuarine, Coastal and Shelf Science, 2005, 64, 699-709.	2.1	52
23	Three-dimensional Layer-integrated Modelling of Estuarine Flows with Flooding and Drying. Estuarine, Coastal and Shelf Science, 1997, 44, 737-751.	2.1	49
24	Estimation of annual energy output from a tidal barrage using two different methods. Applied Energy, 2012, 93, 327-336.	10.1	49
25	Development and application of a braided river model with non-uniform sediment transport. Advances in Water Resources, 2015, 81, 62-74.	3.8	47
26	Seasonal hydrodynamic interactions between tidal waves and river flows in the Yangtze Estuary. Journal of Marine Systems, 2018, 186, 17-28.	2.1	47
27	Modelling the fate and transport of faecal bacteria in estuarine and coastal waters. Marine Pollution Bulletin, 2015, 100, 162-168.	5.0	46
28	The Severn Barrage and other tidal energy options: Hydrodynamic and power output modeling. Science in China Series D: Earth Sciences, 2009, 52, 3413-3424.	0.9	45
29	Predicting near-field dam-break flow and impact force using a 3D model. Journal of Hydraulic Research/De Recherches Hydrauliques, 2010, 48, 784-792.	1.7	45
30	Development of an integrated model for assessing the impact of diffuse and point source pollution on coastal waters. Environmental Modelling and Software, 2007, 22, 871-879.	4.5	44
31	Refinements to the EFDC model for predicting the hydro-environmental impacts of a barrage across the Severn Estuary. Renewable Energy, 2014, 62, 490-505.	8.9	44
32	Predicting faecal indicator levels in estuarine receiving waters â€“ An integrated hydrodynamic and ANN modelling approach. Environmental Modelling and Software, 2008, 23, 729-740.	4.5	43
33	Experimental studies on the interaction between vehicles and floodplain flows. International Journal of River Basin Management, 2012, 10, 149-160.	2.7	43
34	Fabrication of active Cuâ€“Zn nanoalloys on H-ZSM5 zeolite for enhanced dimethyl ether synthesis via syngas. Journal of Materials Chemistry A, 2014, 2, 8637.	10.3	43
35	A modelling study of residence time and exposure time in the Pearl River Estuary, China. Journal of Hydro-Environment Research, 2014, 8, 281-291.	2.2	40
36	Large-eddy simulation of the turbulent structure in compound open-channel flows. Advances in Water Resources, 2013, 53, 66-75.	3.8	38

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37	Modelling estuarine and coastal flows using an unstructured triangular finite volume algorithm. Advances in Water Resources, 2004, 27, 1179-1197.	3.8	34
38	Simulating moving boundary using a linked groundwater and surface water flow model. Journal of Hydrology, 2008, 349, 524-535.	5.4	34
39	Filter and buffer-pot confinement effect of hollow sphere catalyst for promoted activity and enhanced selectivity. Journal of Materials Chemistry A, 2013, 1, 5670.	10.3	33
40	Modelling sediment fluxes in estuarine waters using a curvilinear coordinate grid system. Estuarine, Coastal and Shelf Science, 1995, 41, 413-428.	2.1	32
41	Combining wet impregnation and dry sputtering to prepare highly-active CoPd/H-ZSM5 ternary catalysts applied for tandem catalytic synthesis of isoparaffins. Catalysis Science and Technology, 2014, 4, 1260.	4.1	32
42	Pt Nanoparticles Loaded on Reduced Graphene Oxide as an Effective Catalyst for the Direct Oxidation of 5-Hydroxymethylfurfural (HMF) to Produce 2,5-Furandicarboxylic Acid (FDCA) under Mild Conditions. Bulletin of the Chemical Society of Japan, 2014, 87, 1124-1129.	3.2	32
43	Predicting water age distribution in the Pearl River Estuary using a three-dimensional model. Journal of Marine Systems, 2014, 139, 276-287.	2.1	31
44	CFD and experimental model studies for water disinfection tanks with low Reynolds number flows. Chemical Engineering Journal, 2008, 137, 550-560.	12.7	29
45	Effects of stream turbine array configuration on tidal current energy extraction near an island. Computers and Geosciences, 2015, 77, 20-28.	4.2	29
46	Lowland fluvial phosphorus altered by dams. Water Resources Research, 2015, 51, 2211-2226.	4.2	27
47	Flow and solute fluxes in integrated wetland and coastal systems. Environmental Modelling and Software, 2007, 22, 1337-1348.	4.5	25
48	Ruthenium promoted cobalt catalysts prepared by an autocombustion method directly used for Fischerâ€“Tropsch synthesis without further reduction. Catalysis Science and Technology, 2014, 4, 3099.	4.1	25
49	Three-dimensional modelling of water quality in the Humber Estuary. Water Research, 1997, 31, 1092-1102.	11.3	24
50	Modelling flood routing on initially dry beds with the refined treatment of wetting and drying. International Journal of River Basin Management, 2010, 8, 225-243.	2.7	24
51	Modelling importance of sediment effects on fate and transport of enterococci in the Severn Estuary, UK. Marine Pollution Bulletin, 2013, 67, 45-54.	5.0	23
52	A fully coupled depth-integrated model for surface water and groundwater flows. Journal of Hydrology, 2016, 542, 172-184.	5.4	22
53	Integrated hydro-bacterial modelling for predicting bathing water quality. Estuarine, Coastal and Shelf Science, 2017, 188, 145-155.	2.1	22
54	Modelling suspended sediment transport using an integrated numerical and ANNs model. Journal of Hydraulic Research/De Recherches Hydrauliques, 2005, 43, 302-310.	1.7	21

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55	Mathematical development and verification of a non-orthogonal finite volume model for groundwater flow applications. Advances in Water Resources, 2007, 30, 29-42.	3.8	21
56	Modelling flash flood risk in urban areas. Water Management, 2011, 164, 267-282.	1.2	21
57	Modelling habitat suitability for fish in the fluvial and lacustrine regions of a new Eco-City. Ecological Modelling, 2013, 267, 115-126.	2.5	21
58	Microbial diversity accumulates in a downstream direction in the Three Gorges Reservoir. Journal of Environmental Sciences, 2021, 101, 156-167.	6.1	20
59	Physicsâ€based numerical modelling of large braided rivers dominated by suspended sediment. Hydrological Processes, 2015, 29, 1925-1941.	2.6	19
60	Building performance in dam-break flow â€“ an experimental study. Urban Water Journal, 2018, 15, 251-258.	2.1	19
61	Combined Effect of Tides and Wind on Water Exchange in a Semi-Enclosed Shallow Sea. Water (Switzerland), 2019, 11, 1762.	2.7	19
62	Thermal-hydrodynamic circulations and water fluxes in a tributary bay of the Three Gorges Reservoir. Journal of Hydrology, 2020, 585, 124319.	5.4	19
63	Modelling and assessment ofwaterquality indicators in a semi-enclosed shallow bay. Journal of Hydraulic Research/De Recherches Hydrauliques, 2001, 39, 611-617.	1.7	18
64	Modelling coastal groundâ€•and surfaceâ€•water interactions using an integrated approach. Hydrological Processes, 2009, 23, 2804-2817.	2.6	18
65	Hydro-environmental modeling of proposed Severn barrage, UK. Proceedings of Institution of Civil Engineers: Energy, 2010, 163, 107-117.	0.6	18
66	Large-eddy simulation of turbulent open-channel flow over three-dimensional dunes. Journal of Hydraulic Research/De Recherches Hydrauliques, 2013, 51, 494-505.	1.7	18
67	Severely Declining Suspended Sediment Concentration in the Heavily Dammed Changjiang Fluvial System. Water Resources Research, 2021, 57, e2021WR030370.	4.2	18
68	Turbulence characteristics in free-surface flow over two-dimensional dunes. Journal of Hydro-Environment Research, 2014, 8, 200-209.	2.2	17
69	Hydroâ€•environmental modelling of riverine basins using dynamic rate and partitioning coefficients. International Journal of River Basin Management, 2003, 1, 81-89.	2.7	16
70	Numerical modelling of channel migration with application to laboratory rivers. International Journal of Sediment Research, 2015, 30, 13-27.	3.5	16
71	Vertical water renewal in a large estuary and implications for water quality. Science of the Total Environment, 2020, 710, 135593.	8.0	16
72	Integration of a 1-D river model with object-oriented methodology. Environmental Modelling and Software, 2002, 17, 693-701.	4.5	15

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73	Numerical Modelling Sediment-Bacteria Interaction Processes in the Severn Estuary. Journal of Water Resource and Protection, 2011, 03, 22-31.	0.8	15
74	Modelling of man-made flood routing in the lower Yellow River, China. Water Management, 2012, 165, 377-391.	1.2	14
75	Modelling tidal current energy extraction in large area using a three-dimensional estuary model. Computers and Geosciences, 2014, 72, 76-83.	4.2	14
76	Numerical model simulation of island-headland induced eddies in a site for tidal current energy extraction. Renewable Energy, 2017, 101, 204-213.	8.9	14
77	Hydrodynamics and water circulation in the New York/New Jersey Harbor: A study from the perspective of water age. Journal of Marine Systems, 2019, 199, 103219.	2.1	14
78	Simulating Laboratory Braided Rivers with Bed-Load Sediment Transport. Water (Switzerland), 2017, 9, 686.	2.7	13
79	Decadal changes in sediment budget and morphology in the tidal reach of the Yangtze River. Catena, 2020, 188, 104438.	5.0	13
80	Transport and reactivity of nickel in estuarine sediments: Results from a high capacity flume. Marine Chemistry, 2009, 117, 71-76.	2.3	12
81	Application of a 3D Layer Integrated Numerical Model of Flow and Sediment Transport Processes to a Reservoir. Water (Switzerland), 2015, 7, 5239-5257.	2.7	12
82	A theoretical model to predict suffusionâ€induced particle movement in cohesionless soil under seepage flow. European Journal of Soil Science, 2021, 72, 1395-1409.	3.9	12
83	Longitudinal transport timescales in a large dammed river - The Changjiang River. Science of the Total Environment, 2021, 771, 144886.	8.0	12
84	A DEPTH-INTEGRATED 2D COASTAL AND ESTUARINE MODEL WITH CONFORMAL BOUNDARY-FITTED MESH GENERATION. International Journal for Numerical Methods in Fluids, 1996, 23, 819-846.	1.6	11
85	Modelling disinfection by-products in contact tanks. Journal of Hydroinformatics, 2000, 2, 123-132.	2.4	11
86	Integrated River and Coastal Flow, Sediment and Escherichia coli Modelling for Bathing Water Quality. Water (Switzerland), 2015, 7, 4752-4777.	2.7	11
87	Long-term morphodynamics of a large estuary subject to decreasing sediment supply and sea level rise. Global and Planetary Change, 2020, 191, 103212.	3.5	11
88	Transition from wavelets to ripples in a laboratory flume with a diverging channel. International Journal of Sediment Research, 2008, 23, 1-12.	3.5	10
89	Refined representation of turbines using a 3D SWE model for predicting distributions of velocity deficit and tidal energy density. International Journal of Energy Research, 2015, 39, 1828-1842.	4.5	10
90	Hydrodynamic effects of the ratio of rotor diameter to water depth: An experimental study. Renewable Energy, 2019, 136, 331-341.	8.9	10

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91	Spatial variation in bacterial biomass, community composition and driving factors across a eutrophic river. Ecotoxicology and Environmental Safety, 2020, 205, 111113.	6.0	10
92	Spatial evolution and kinetic energy restoration in the wake zone behind a tidal turbine: An experimental study. Ocean Engineering, 2021, 228, 108920.	4.3	10
93	Modelling sediment transport processes in macro-tidal estuary. Science in China Series D: Earth Sciences, 2009, 52, 3368-3375.	0.9	9
94	Modelling study on environmental indicators in an estuary. Water Management, 2014, 167, 141-151.	1.2	9
95	Suspended Sediment Transport Responses to Increasing Human Activities in a High-Altitude River: A Case Study in a Typical Sub-Catchment of the Yarlung Tsangpo River. Water (Switzerland), 2020, 12, 952.	2.7	9
96	Environmental modelling in river basin management. International Journal of River Basin Management, 2005, 3, 169-184.	2.7	8
97	Bed-load transport rate based on the entrainment probabilities of sediment grains by rolling and lifting. International Journal of Sediment Research, 2018, 33, 126-136.	3.5	8
98	Avulsions in a Simulated Large Lowland Braided River. Water Resources Management, 2018, 32, 2301-2314.	3.9	8
99	Modelling the Fate and Transport of Nickel in the Mersey Estuary. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2006, 41, 825-847.	1.7	7
100	Damâ€influenced seasonally varying water temperature in the Three Gorges Reservoir. River Research and Applications, 2021, 37, 579-590.	1.7	7
101	Simulation of Water Exchange in Bohai Bay. , 2009, , 1341-1346.		7
102	Modelling ripple development under non-uniform flow and sediment supply-limited conditions in a laboratory flume. Estuarine, Coastal and Shelf Science, 2009, 82, 452-460.	2.1	6
103	Modeling effects of a tidal barrage on water quality indicator distribution in the Severn Estuary. Frontiers of Environmental Science and Engineering, 2013, 7, 211-218.	6.0	6
104	Cloud to coast: integrated assessment of environmental exposure, health impacts and risk perceptions of faecal organisms in coastal waters. International Journal of River Basin Management, 2015, 13, 73-86.	2.7	6
105	Linking structural equation modeling with Bayesian network and its application to coastal phytoplankton dynamics in the Bohai Bay. China Ocean Engineering, 2016, 30, 733-748.	1.6	6
106	3D Layer-Integrated Modelling of Morphodynamic Processes Near River Regulated Structures. Water Resources Management, 2017, 31, 443-460.	3.9	6
107	Investigation on hydrothermal processes in a large channel-type reservoir using an integrated physics-based model. Journal of Hydroinformatics, 2019, 21, 493-509.	2.4	6
108	Current reversals in a large tidal river. Estuarine, Coastal and Shelf Science, 2019, 223, 74-84.	2.1	6

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109	Experimentally validated study of the impact of operating strategies on power efficiency of a turbine array in a bi-directional tidal channel. Renewable Energy, 2021, 163, 1408-1426.	8.9	6
110	A modelling assessment of contaminant distributions in the Severn Estuary. Marine Pollution Bulletin, 2010, 61, 124-131.	5.0	5
111	A finite volume model for coupling surface and subsurface flows. Procedia Engineering, 2012, 31, 62-67.	1.2	5
112	Modelling hydrodynamic processes in tidal stream energy extraction. Journal of Hydrodynamics, 2016, 28, 1058-1064.	3.2	5
113	A dynamic bidirectional coupled surface flow model for flood inundation simulation. Natural Hazards and Earth System Sciences, 2021, 21, 497-515.	3.6	5
114	The geochemical behavior of trace metals and nutrients in submerged sediments of the Three Gorges Reservoir and a critical review on risk assessment methods. Environmental Science and Pollution Research, 2021, 28, 33400-33415.	5.3	5
115	Estimation of future coastal flood risk in the Severn Estuary due to a barrage. Journal of Flood Risk Management, 2011, 4, 247-259.	3.3	4
116	Modelling Graded Sediment Transport and Bed Evolution in a Tidal Harbour. Journal of Coastal Research, 2013, 288, 736-744.	0.3	4
117	Evaluation of E.coli losses in a tidal river network using a refined 1-D numerical model. Environmental Modelling and Software, 2018, 108, 91-101.	4.5	4
118	Wake structure and mechanical energy transformation induced by a horizontal axis tidal stream turbine. Renewable Energy, 2021, 171, 1344-1356.	8.9	4
119	Processes of dike-break induced flows: A combined experimental and numerical model study. International Journal of Sediment Research, 2017, 32, 465-471.	3.5	4
120	Nitrate Combustion Methods to Prepare Highly Active Cu/ZnO Catalysts for Low-Temperature Methanol Synthesis: Comparative Behaviors of Citric Acid in Air or Argon Atmosphere. Bulletin of the Chemical Society of Japan, 2013, 86, 1202-1209.	3.2	3
121	Large-eddy simulation of turbulent free surface flow over a gravel bed. Journal of Hydraulic Research/De Recherches Hydrauliques, 0, , 1-15.	1.7	3
122	Numerical simulation of shallow-water flooding using a two-dimensional finite volume model. Journal of Hydrodynamics, 2013, 25, 520-527.	3.2	2
123	Notice of Retraction: Modelling Suspended Sediment Concentrations in Estuarine and Coastal Waters. , 2011, , .		1
124	Historic records on mineralogical and chemical compositions of a long sediment core from the Three Gorges Reservoir and implications for future studies. Environmental Earth Sciences, 2021, 80, 1.	2.7	1
125	Pore Structure Model of Bimodal Catalyst Supports. Journal of the Japan Petroleum Institute, 2014, 57, 230-234.	0.6	1
126	Simulation of Land Reclamation's Effect on the Water Exchange in Tianjin Coastal Area. , 2010, , .		0

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127	Regional Administrative Measures Promote Safe Development of Chemical Industrial Parks in Shandong Province of China. , 2019, , .		0
128	MODEL SIMULATIONS OF AN ARTIFICIAL MANGROVE SHELTER FOR COASTAL PROTECTION. , 2009, , .		0
129	MÃ©thode des volumes finis et prÃ©cision des modÃ¨les numÃ©riques des Ã©coulements souterrains. Houille Blanche, 2015, 101, 39-44.	0.3	0