Binliang Lin

List of Publications by Year
in descending order

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	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
2	Microbial diversity accumulates in a downstream direction in the Three Gorges Reservoir. Journal of Environmental Sciences, 2021, 101, 156-167.	6.1	20
3	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
4	A dynamic bidirectional coupled surface flow model for flood inundation simulation. Natural Hazards and Earth System Sciences, 2021, 21, 497-515.	3.6	5
5	Damâ€influenced seasonally varying water temperature in the Three Gorges Reservoir. River Research and Applications, 2021, 37, 579-590.	1.7	7
6	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
7	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
8	Longitudinal transport timescales in a large dammed river - The Changjiang River. Science of the Total Environment, 2021, 771, 144886.	8.0	12
9	Wake structure and mechanical energy transformation induced by a horizontal axis tidal stream turbine. Renewable Energy, 2021, 171, 1344-1356.	8.9	4
10	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
11	Severely Declining Suspended Sediment Concentration in the Heavily Dammed Changjiang Fluvial System. Water Resources Research, 2021, 57, e2021WR030370.	4.2	18
12	Vertical water renewal in a large estuary and implications for water quality. Science of the Total Environment, 2020, 710, 135593.	8.0	16
13	Thermal-hydrodynamic circulations and water fluxes in a tributary bay of the Three Gorges Reservoir. Journal of Hydrology, 2020, 585, 124319.	5.4	19
14	Spatial variation in bacterial biomass, community composition and driving factors across a eutrophic river. Ecotoxicology and Environmental Safety, 2020, 205, 111113.	6.0	10
15	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
16	Decadal changes in sediment budget and morphology in the tidal reach of the Yangtze River. Catena, 2020, 188, 104438.	5.0	13
17	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
18	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

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19	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
20	Combined Effect of Tides and Wind on Water Exchange in a Semi-Enclosed Shallow Sea. Water (Switzerland), 2019, 11, 1762.	2.7	19
21	Regional Administrative Measures Promote Safe Development of Chemical Industrial Parks in Shandong Province of China. , 2019, , .		0
22	Current reversals in a large tidal river. Estuarine, Coastal and Shelf Science, 2019, 223, 74-84.	2.1	6
23	Hydrodynamic effects of the ratio of rotor diameter to water depth: An experimental study. Renewable Energy, 2019, 136, 331-341.	8.9	10
24	Building performance in dam-break flow â€" an experimental study. Urban Water Journal, 2018, 15, 251-258.	2.1	19
25	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
26	Avulsions in a Simulated Large Lowland Braided River. Water Resources Management, 2018, 32, 2301-2314.	3.9	8
27	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
28	Seasonal hydrodynamic interactions between tidal waves and river flows in the Yangtze Estuary. Journal of Marine Systems, 2018, 186, 17-28.	2.1	47
29	Experimental study of wake structure behind a horizontal axis tidal stream turbine. Applied Energy, 2017, 196, 82-96.	10.1	65
30	3D Layer-Integrated Modelling of Morphodynamic Processes Near River Regulated Structures. Water Resources Management, 2017, 31, 443-460.	3.9	6
31	Integrated hydro-bacterial modelling for predicting bathing water quality. Estuarine, Coastal and Shelf Science, 2017, 188, 145-155.	2.1	22
32	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
33	Simulating Laboratory Braided Rivers with Bed-Load Sediment Transport. Water (Switzerland), 2017, 9, 686.	2.7	13
34	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
35	Modelling hydrodynamic processes in tidal stream energy extraction. Journal of Hydrodynamics, 2016, 28, 1058-1064.	3.2	5
36	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

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37	A fully coupled depth-integrated model for surface water and groundwater flows. Journal of Hydrology, 2016, 542, 172-184.	5.4	22
38	Modelling the fate and transport of faecal bacteria in estuarine and coastal waters. Marine Pollution Bulletin, 2015, 100, 162-168.	5.0	46
39	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
40	Integrated River and Coastal Flow, Sediment and Escherichia coli Modelling for Bathing Water Quality. Water (Switzerland), 2015, 7, 4752-4777.	2.7	11
41	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
42	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
43	Numerical modelling of channel migration with application to laboratory rivers. International Journal of Sediment Research, 2015, 30, 13-27.	3.5	16
44	Effects of stream turbine array configuration on tidal current energy extraction near an island. Computers and Geosciences, 2015, 77, 20-28.	4.2	29
45	Development and application of a braided river model with non-uniform sediment transport. Advances in Water Resources, 2015, 81, 62-74.	3.8	47
46	Lowland fluvial phosphorus altered by dams. Water Resources Research, 2015, 51, 2211-2226.	4.2	27
47	Physicsâ€based numerical modelling of large braided rivers dominated by suspended sediment. Hydrological Processes, 2015, 29, 1925-1941.	2.6	19
48	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
49	Modelling study on environmental indicators in an estuary. Water Management, 2014, 167, 141-151.	1.2	9
50	Turbulence characteristics in free-surface flow over two-dimensional dunes. Journal of Hydro-Environment Research, 2014, 8, 200-209.	2.2	17
51	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
52	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
53	Modelling tidal current energy extraction in large area using a three-dimensional estuary model. Computers and Geosciences, 2014, 72, 76-83.	4.2	14
54	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

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55	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
56	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
57	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
58	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
59	Pore Structure Model of Bimodal Catalyst Supports. Journal of the Japan Petroleum Institute, 2014, 57, 230-234.	0.6	1
60	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
61	Modelling Graded Sediment Transport and Bed Evolution in a Tidal Harbour. Journal of Coastal Research, 2013, 288, 736-744.	0.3	4
62	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
63	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
64	Large-eddy simulation of the turbulent structure in compound open-channel flows. Advances in Water Resources, 2013, 53, 66-75.	3.8	38
65	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
66	Numerical simulation of shallow-water flooding using a two-dimensional finite volume model. Journal of Hydrodynamics, 2013, 25, 520-527.	3.2	2
67	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
68	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
69	Modelling of man-made flood routing in the lower Yellow River, China. Water Management, 2012, 165, 377-391.	1.2	14
70	Experimental studies on the interaction between vehicles and floodplain flows. International Journal of River Basin Management, 2012, 10, 149-160.	2.7	43
71	A finite volume model for coupling surface and subsurface flows. Procedia Engineering, 2012, 31, 62-67.	1.2	5
72	Estimation of annual energy output from a tidal barrage using two different methods. Applied Energy, 2012, 93, 327-336.	10.1	49

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73	Numerical modelling of sediment–bacteria interaction processes in surface waters. Water Research, 2011, 45, 1951-1960.	11.3	64
74	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
75	Formula of incipient velocity for flooded vehicles. Natural Hazards, 2011, 58, 1-14.	3.4	66
76	Numerical assessment of flood hazard risk to people and vehicles in flash floods. Environmental Modelling and Software, 2011, 26, 987-998.	4.5	88
77	Notice of Retraction: Modelling Suspended Sediment Concentrations in Estuarine and Coastal Waters. , 2011, , .		1
78	Incipient velocity for partially submerged vehicles in floodwaters. Journal of Hydraulic Research/De Recherches Hydrauliques, 2011, 49, 709-717.	1.7	55
79	Modelling flash flood risk in urban areas. Water Management, 2011, 164, 267-282.	1.2	21
80	Numerical Modelling Sediment-Bacteria Interaction Processes in the Severn Estuary. Journal of Water Resource and Protection, 2011, 03, 22-31.	0.8	15
81	Hydro-environmental modeling of proposed Severn barrage, UK. Proceedings of Institution of Civil Engineers: Energy, 2010, 163, 107-117.	0.6	18
82	Modelling dam-break flows over mobile beds using a 2D coupled approach. Advances in Water Resources, 2010, 33, 171-183.	3.8	144
83	A modelling assessment of contaminant distributions in the Severn Estuary. Marine Pollution Bulletin, 2010, 61, 124-131.	5.0	5
84	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
85	Hydrodynamic impact of a tidal barrage in the Severn Estuary, UK. Renewable Energy, 2010, 35, 1455-1468.	8.9	69
86	Simulation of Land Reclamation's Effect on the Water Exchange in Tianjin Coastal Area. , 2010, , .		0
87	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
88	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
89	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
90	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

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91	Modelling coastal ground-and surface-water interactions using an integrated approach. Hydrological Processes, 2009, 23, 2804-2817.	2.6	18
92	Modelling sediment transport processes in macro-tidal estuary. Science in China Series D: Earth Sciences, 2009, 52, 3368-3375.	0.9	9
93	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
94	Transport and reactivity of nickel in estuarine sediments: Results from a high capacity flume. Marine Chemistry, 2009, 117, 71-76.	2.3	12
95	Simulation of Water Exchange in Bohai Bay. , 2009, , 1341-1346.		7
96	MODEL SIMULATIONS OF AN ARTIFICIAL MANGROVE SHELTER FOR COASTAL PROTECTION. , 2009, , .		0
97	CFD and experimental model studies for water disinfection tanks with low Reynolds number flows. Chemical Engineering Journal, 2008, 137, 550-560.	12.7	29
98	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
99	Simulating moving boundary using a linked groundwater and surface water flow model. Journal of Hydrology, 2008, 349, 524-535.	5.4	34
100	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
101	A boundary-fitted numerical model for flood routing with shock-capturing capability. Journal of Hydrology, 2007, 332, 477-486.	5.4	71
102	Coupling surface and subsurface flows in a depth averaged flood wave model. Journal of Hydrology, 2007, 337, 147-158.	5.4	91
103	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
104	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
105	Flow and solute fluxes in integrated wetland and coastal systems. Environmental Modelling and Software, 2007, 22, 1337-1348.	4.5	25
106	A modelling study of residence time in a macro-tidal estuary. Estuarine, Coastal and Shelf Science, 2007, 71, 401-411.	2.1	64
107	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
108	Modelling the fate of faecal indicators in a coastal basin. Water Research, 2006, 40, 1413-1425.	11.3	60

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109	Comparison between TVD-MacCormack and ADI-type solvers of the shallow water equations. Advances in Water Resources, 2006, 29, 1833-1845.	3.8	140
110	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
111	Modelling trace metal concentration distributions in estuarine waters. Estuarine, Coastal and Shelf Science, 2005, 64, 699-709.	2.1	52
112	Environmental modelling in river basin management. International Journal of River Basin Management, 2005, 3, 169-184.	2.7	8
113	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
114	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
115	Modelling estuarine and coastal flows using an unstructured triangular finite volume algorithm. Advances in Water Resources, 2004, 27, 1179-1197.	3.8	34
116	Hydroenvironmental modelling of riverine basins using dynamic rate and partitioning coefficients. International Journal of River Basin Management, 2003, 1, 81-89.	2.7	16
117	Hydro-environmental modelling for bathing water compliance of an estuarine basin. Water Research, 2002, 36, 1854-1868.	11.3	114
118	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
119	Integration of a 1-D river model with object-oriented methodology. Environmental Modelling and Software, 2002, 17, 693-701.	4.5	15
120	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
121	Modelling and assessment of waterquality indicators in a semi-enclosed shallow bay. Journal of Hydraulic Research/De Recherches Hydrauliques, 2001, 39, 611-617.	1.7	18
122	Modelling disinfection by-products in contact tanks. Journal of Hydroinformatics, 2000, 2, 123-132.	2.4	11
123	Tidal Flow and Transport Modeling Using ULTIMATE QUICKEST Scheme. Journal of Hydraulic Engineering, 1997, 123, 303-314.	1.5	93
124	Three-dimensional modelling of water quality in the Humber Estuary. Water Research, 1997, 31, 1092-1102.	11.3	24
125	Three-dimensional Layer-integrated Modelling of Estuarine Flows with Flooding and Drying. Estuarine, Coastal and Shelf Science, 1997, 44, 737-751.	2.1	49
126	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

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127	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
128	Modelling sediment fluxes in estuarine waters using a curvilinear coordinate grid system. Estuarine, Coastal and Shelf Science, 1995, 41, 413-428.	2.1	32
129	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