Alistair Borthwick

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

2,645 48 31 120 h-index g-index citations papers 5.61 3,180 136 4.3 avg, IF L-index ext. citations ext. papers

| # | Paper | IF | Citations |
|-----|--|------------------|-----------|
| 120 | Quantifying multiple uncertainties in modelling shallow water-sediment flows: A stochastic Galerkin framework with Haar wavelet expansion and an operator-splitting approach. <i>Applied Mathematical Modelling</i> , 2022 , 106, 259-259 | 4.5 | 1 |
| 119 | Microbial selenate detoxification linked to elemental sulfur oxidation: Independent and synergic pathways. <i>Journal of Hazardous Materials</i> , 2022 , 422, 126932 | 12.8 | 3 |
| 118 | Weakly nonlinear theory for dispersive waves generated by moving seabed deformation. <i>Journal of Fluid Mechanics</i> , 2022 , 937, | 3.7 | 2 |
| 117 | Global syndromes induced by changes in solutes of the world's large rivers. <i>Nature Communications</i> , 2021 , 12, 5940 | 17.4 | 1 |
| 116 | Environmental Impacts of Conventional versus Organic Eggplant Cultivation Systems: Influence of Electricity Mix, Yield, Over-Fertilization, and Transportation. <i>Environments - MDPI</i> , 2021 , 8, 23 | 3.2 | 2 |
| 115 | Anomalous wave statistics following sudden depth transitions: application of an alternative Boussinesq-type formulation. <i>Journal of Ocean Engineering and Marine Energy</i> , 2021 , 7, 145-155 | 1.5 | |
| 114 | Steady-state harmonic resonance of periodic interfacial waves with free-surface boundary conditions based on the homotopy analysis method. <i>Journal of Fluid Mechanics</i> , 2021 , 916, | 3.7 | 3 |
| 113 | Plant Roots Steer Resilience to Perturbation of River Floodplains. <i>Geophysical Research Letters</i> , 2021 , 48, e2021GL092388 | 4.9 | 0 |
| 112 | Uncertainty quantification in shallow water-sediment flows: A stochastic Galerkin shallow water hydro-sediment-morphodynamic model. <i>Applied Mathematical Modelling</i> , 2021 , 99, 458-477 | 4.5 | 4 |
| 111 | Decadal link between longitudinal morphological changes in branching channels of Yangtze estuary and movement of the offshore depo-center. <i>Earth Surface Processes and Landforms</i> , 2020 , 45, 2689-270 | 5 ^{3.7} | 1 |
| 110 | Erosion-deposition patterns and depo-center movements in branching channels at the near-estuary reach of the Yangtze River. <i>Frontiers of Earth Science</i> , 2020 , 14, 537-552 | 1.7 | |
| 109 | Piston-Driven Numerical Wave Tank Based on WENO Solver of Well-Balanced Shallow Water Equations. <i>KSCE Journal of Civil Engineering</i> , 2020 , 24, 1959-1982 | 1.9 | 1 |
| 108 | Sustainability of global Golden Inland Waterways. <i>Nature Communications</i> , 2020 , 11, 1553 | 17.4 | 5 |
| 107 | Aerodynamic Analysis of a Two-Bladed Vertical-Axis Wind Turbine Using a Coupled Unsteady RANS and Actuator Line Model. <i>Energies</i> , 2020 , 13, 776 | 3.1 | 6 |
| 106 | Grain-energy release governs mobility of debris flow due to solid[]quid mass release. <i>Earth Surface Processes and Landforms</i> , 2020 , 45, 2912-2926 | 3.7 | О |
| 105 | Alternate erosion and deposition in the Yangtze Estuary and the future change. <i>Journal of Chinese Geography</i> , 2020 , 30, 145-163 | 3.7 | 3 |
| 104 | Vanadium contamination and associated health risk of farmland soil near smelters throughout China. <i>Environmental Pollution</i> , 2020 , 263, 114540 | 9.3 | 26 |

(2019-2020)

| 103 | Power extraction by a water turbine in inviscid free surface flow with vertical shear. <i>European Journal of Mechanics, B/Fluids</i> , 2020 , 79, 401-418 | 2.4 | |
|-----|---|------|-----|
| 102 | The role of natural Fe(II)-bearing minerals in chemoautotrophic chromium (VI) bio-reduction in groundwater. <i>Journal of Hazardous Materials</i> , 2020 , 389, 121911 | 12.8 | 39 |
| 101 | Barrier lake formation due to landslide impacting a river: A numerical study using a double layer-averaged two-phase flow model. <i>Applied Mathematical Modelling</i> , 2020 , 80, 574-601 | 4.5 | 8 |
| 100 | Dynamic flood topographies in the Terai region of Nepal. <i>Earth Surface Processes and Landforms</i> , 2020 , 45, 3092-3102 | 3.7 | 3 |
| 99 | Steady-state multiple near resonances of periodic interfacial waves with rigid boundary. <i>Physics of Fluids</i> , 2020 , 32, 087104 | 4.4 | 5 |
| 98 | Flow and magnetic structures in a kinematic ABC-dynamo. <i>Science China: Physics, Mechanics and Astronomy</i> , 2020 , 63, 1 | 3.6 | |
| 97 | Global trends in water and sediment fluxes of the world large rivers. Science Bulletin, 2020, 65, 62-69 | 10.6 | 66 |
| 96 | Offshore conversion of wind power to gaseous fuels: Feasibility study in a depleted gas field. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2020, 234, 226-236 | 1.6 | 2 |
| 95 | The effect of bed roughness uncertainty on tidal stream power estimates for the Pentland Firth. <i>Royal Society Open Science</i> , 2020 , 7, 191127 | 3.3 | 4 |
| 94 | Microbial Community Responses to Vanadium Distributions in Mining Geological Environments and Bioremediation Assessment. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019 , 124, 601-615 | 3.7 | 100 |
| 93 | The effect of uncertain bottom friction on estimates of tidal current power. <i>Royal Society Open Science</i> , 2019 , 6, 180941 | 3.3 | 6 |
| 92 | Active and passive in-plane wall fluctuations in turbulent channel flows. <i>Journal of Fluid Mechanics</i> , 2019 , 866, 689-720 | 3.7 | 12 |
| 91 | On the arrangement of tidal turbines in rough and oscillatory channel flow. <i>Journal of Fluid Mechanics</i> , 2019 , 865, 790-810 | 3.7 | 4 |
| 90 | Multi-directional focused wave group interactions with a plane beach. <i>Coastal Engineering</i> , 2019 , 152, 103531 | 4.8 | 6 |
| 89 | Insights into interactions between vanadium (V) bio-reduction and pentachlorophenol dechlorination in synthetic groundwater. <i>Chemical Engineering Journal</i> , 2019 , 375, 121965 | 14.7 | 75 |
| 88 | Experimental Observation of Modulational Instability in Crossing Surface Gravity Wavetrains. <i>Fluids</i> , 2019 , 4, 105 | 1.6 | 3 |
| 87 | Hydrodynamic X Waves. <i>Physical Review Letters</i> , 2019 , 123, 184501 | 7.4 | 4 |
| 86 | Laboratory study of the wave-induced mean flow and set-down in unidirectional surface gravity wave packets on finite water depth. <i>Physical Review Fluids</i> , 2019 , 4, | 2.8 | 9 |

| 85 | Solving the mystery of vanishing rivers in China. <i>National Science Review</i> , 2019 , 6, 1239-1246 | 10.8 | 4 |
|----|--|------|----|
| 84 | Molecular biogeography of planktonic and benthic diatoms in the Yangtze River. <i>Microbiome</i> , 2019 , 7, 153 | 16.6 | 21 |
| 83 | Enhanced sulfide removal and bioelectricity generation in microbial fuel cells with anodes modified by vertically oriented nanosheets. <i>Environmental Technology (United Kingdom)</i> , 2019 , 40, 1770-1779 | 2.6 | 6 |
| 82 | Spatiotemporal variations in vegetation cover on the Loess Plateau, China, between 1982 and 2013: possible causes and potential impacts. <i>Environmental Science and Pollution Research</i> , 2018 , 25, 13633-13644 | 5.1 | 39 |
| 81 | Approximate Solutions for Ideal Dam-Break Sediment-Laden Flows on Uniform Slopes. <i>Water Resources Research</i> , 2018 , 54, 2731-2748 | 5.4 | 4 |
| 80 | Quasi-two-layer morphodynamic model for bedload-dominated problems: bed slope-induced morphological diffusion. <i>Royal Society Open Science</i> , 2018 , 5, 172018 | 3.3 | 11 |
| 79 | Tracer advection in a pair of adjacent side-wall cavities, and in a rectangular channel containing two groynes in series. <i>Journal of Hydrodynamics</i> , 2018 , 30, 564-572 | 3.3 | 2 |
| 78 | A 2DH hybrid Boussinesq-NSWE solver for near-shore hydrodynamics. <i>Coastal Engineering</i> , 2018 , 142, 9-26 | 4.8 | 2 |
| 77 | Risks of airborne pollution accidents in a major conurbation: case study of Zhangjiakou, a host city for the 2022 Winter Olympics. <i>Stochastic Environmental Research and Risk Assessment</i> , 2018 , 32, 3257-3 | 272 | 2 |
| 76 | Extreme coastal responses using focused wave groups: Overtopping and horizontal forces exerted on an inclined seawall. <i>Coastal Engineering</i> , 2018 , 140, 292-305 | 4.8 | 9 |
| 75 | Offshore monopile in the southern North Sea: part II, simulated hydrodynamics and loading. <i>Proceedings of the Institution of Civil Engineers: Maritime Engineering</i> , 2018 , 171, 70-85 | 1.8 | 1 |
| 74 | Performance of non-uniform tidal turbine arrays in uniform flow. <i>Journal of Ocean Engineering and Marine Energy</i> , 2018 , 4, 231-241 | 1.5 | 2 |
| 73 | Tracer advection in an idealised river bend with groynes. <i>Journal of Hydrodynamics</i> , 2018 , 30, 780-790 | 3.3 | |
| 72 | Synchronous microbial vanadium (V) reduction and denitrification in groundwater using hydrogen as the sole electron donor. <i>Water Research</i> , 2018 , 141, 289-296 | 12.5 | 74 |
| 71 | Advances in Numerical Techniques for Modelling Water Flows. <i>Mathematical Problems in Engineering</i> , 2018 , 2018, 1-2 | 1.1 | |
| 70 | Regional-scale probabilistic shoreline evolution modelling for flood-risk assessment. <i>Coastal Engineering</i> , 2017 , 121, 129-144 | 4.8 | 4 |
| 69 | One-dimensional and two-dimensional GreenNaghdi equations for sloshing in shallow basins. <i>Proceedings of the Institution of Civil Engineers: Engineering and Computational Mechanics</i> , 2017 , 170, 49-70 | 0.3 | О |
| 68 | Flow through a very porous obstacle in a shallow channel. <i>Proceedings of the Royal Society A:</i> Mathematical, Physical and Engineering Sciences, 2017 , 473, 20160672 | 2.4 | 5 |

(2015-2017)

| Wave directional spreading from point field measurements. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2017 , 473, 20160781 | 2.4 | 4 |
|---|--|--|
| Life cycle assessment of the environmental performance of conventional and organic methods of open field pepper cultivation system. <i>International Journal of Life Cycle Assessment</i> , 2017 , 22, 896-908 | 4.6 | 32 |
| A finite volume shock-capturing solver of the fully coupled shallow water-sediment equations. <i>International Journal for Numerical Methods in Fluids</i> , 2017 , 84, 509-542 | 1.9 | 4 |
| Optimisation of focused wave group runup on a plane beach. <i>Coastal Engineering</i> , 2017 , 121, 44-55 | 4.8 | 25 |
| Effects of Support Structures in an LES Actuator Line Model of a Tidal Turbine with Contra-Rotating Rotors. <i>Energies</i> , 2017 , 10, 726 | 3.1 | 15 |
| Environmental impact assessments of the Xiaolangdi Reservoir on the most hyperconcentrated laden river, Yellow River, China. <i>Environmental Science and Pollution Research</i> , 2017 , 24, 4337-4351 | 5.1 | 50 |
| Offshore monopile in the southern North Sea: Part I, calibrated input sea state. <i>Proceedings of the Institution of Civil Engineers: Maritime Engineering</i> , 2017 , 170, 122-132 | 1.8 | 2 |
| Improving global accessibility to offshore wind power through decreased operations and maintenance costs: a hydrodynamic analysis. <i>Energy Procedia</i> , 2017 , 138, 1055-1060 | 2.3 | 4 |
| Acceptable Risk Analysis for Abrupt Environmental Pollution Accidents in Zhangjiakou City, China. <i>International Journal of Environmental Research and Public Health</i> , 2017 , 14, | 4.6 | 2 |
| Irregular wave runup statistics on plane beaches: Application of a Boussinesq-type model incorporating a generating bsorbing sponge layer and second-order wave generation. <i>Coastal Engineering</i> , 2016 , 114, 309-324 | 4.8 | 10 |
| Marine Renewable Energy Seascape. <i>Engineering</i> , 2016 , 2, 69-78 | 9.7 | 84 |
| Lateral transport of soil carbon and land-atmosphere CO2 flux induced by water erosion in China. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 6617-22 | 11.5 | 86 |
| Enhanced bioelectricity generation of double-chamber air-cathode catalyst free microbial fuel cells with the addition of non-consumptive vanadium(V). <i>RSC Advances</i> , 2016 , 6, 32940-32946 | 3.7 | 6 |
| Linkage Between Hourly Precipitation Events and Atmospheric Temperature Changes over China during the Warm Season. <i>Scientific Reports</i> , 2016 , 6, 22543 | 4.9 | 43 |
| Microbial reduction and precipitation of vanadium (V) in groundwater by immobilized mixed anaerobic culture. <i>Bioresource Technology</i> , 2015 , 192, 410-7 | 11 | 65 |
| Social and ecological impacts of marine energy development. <i>Renewable and Sustainable Energy Reviews</i> , 2015 , 47, 486-495 | 16.2 | 77 |
| Dual-Enhanced Photocatalytic Activity of Fe-Deposited Titanate Nanotubes Used for Simultaneous Removal of As(III) and As(V). ACS Applied Materials & The Samp; Interfaces, 2015, 7, 19726-35 | 9.5 | 52 |
| Sensitivity Analysis and Statistical Convergence of a Saltating Particle Model. <i>Journal of Hydraulic Engineering</i> , 2015 , 141, 04014091 | 1.8 | 5 |
| | Mathematical, Physical and Engineering Sciences, 2017, 473, 20160781 Life cycle assessment of the environmental performance of conventional and organic methods of open field pepper cultivation system. International Journal of Life Cycle Assessment, 2017, 22, 896-908 A finite volume shock-capturing solver of the fully coupled shallow water-sediment equations. International Journal for Numerical Methods in Fluids, 2017, 84, 509-542 Optimisation of focused wave group runup on a plane beach. Coastal Engineering, 2017, 121, 44-55 Effects of Support Structures in an LES Actuator Line Model of a Tidal Turbine with Contra-Rotating Rotors. Energies, 2017, 10, 726 Environmental impact assessments of the Xiaolangdi Reservoir on the most hyperconcentrated laden river, Yellow River, China. Environmental Science and Pollution Research, 2017, 24, 4337-4351 Offshore monopile in the southern North Sea: Part I, calibrated input sea state. Proceedings of the Institution of Civil Engineers: Maritime Engineering, 2017, 170, 122-132 Improving global accessibility to offshore wind power through decreased operations and maintenance costs: a hydrodynamic analysis. Energy Procedia, 2017, 138, 1055-1060 Acceptable Risk Analysis for Abrupt Environmental Pollution Accidents in Zhangjiakou City, China. International Journal of Environmental Research and Public Health, 2017, 14, Irregular wave runup statistics on plane beaches: Application of a Boussinesq-type model incorporating a generatingibsorbing sponge layer and second-order wave generation. Coastal Engineering, 2016, 114, 309-324 Marine Renewable Energy Seascape. Engineering, 2016, 2, 69-78 Lateral transport of soil carbon and land-atmosphere CO2 flux induced by water erosion in China. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 6617-22 Enhanced bioelectricity generation of double-chamber air-cathode catalyst free microbial fuel cells with the addition of non-consumptive vanadium (V). RSC Advances, 2016, 6, 32940-32946 Linka | Adhematical, Physical and Engineering Sciences, 2017, 473, 20160781 Life cycle assessment of the environmental performance of conventional and organic methods of open field pepper cultivation system. International Journal of Life Cycle Assessment, 2017, 22, 896-908 A finite volume shock-capturing solver of the fully coupled shallow water-sediment equations. International Journal for Numerical Methods in Fluids, 2017, 84, 509-542 Optimisation of focused wave group runup on a plane beach. Coastal Engineering, 2017, 121, 44-55 Effects of Support Structures in an LES Actuator Line Model of a Tidal Turbine with Contra-Rotating Rotors. Energies, 2017, 10, 726 Environmental impact assessments of the Xiaolangdi Reservoir on the most hyperconcentrated laden river, Yellow River, China. Environmental Science and Pollution Research, 2017, 24, 4337-4351 Offshore monopile in the southern North Sea: Part I, calibrated input sea state. Proceedings of the Institution of Civil Engineers: Maritime Engineering, 2017, 170, 122-132 Improving global accessibility to offshore wind power through decreased operations and maintenance costs: a hydrodynamic analysis. Energy Procedia, 2017, 138, 1055-1060 2.3 Acceptable Risk Analysis for Abrupt Environmental Pollution Accidents in Zhangjiakou City, China. International Journal of Environmental Research and Public Health, 2017, 14, Irregular wave runup statistics on plane beaches: Application of a Boussinesq-type model incorporating a generating Bisorbing sponge layer and second-order wave generation. Coastal Engineering, 2016, 114, 309-324 Marine Renewable Energy Seascape. Engineering, 2016, 2, 69-78 Lateral transport of soil carbon and land-atmosphere CO2 flux induced by water erosion in China. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 6617-22 Enhanced bioelectricity generation of double-chamber air-cathode catalyst free microbial fuel cells with the addition of non-consumptive vanadium(V). RSC Advances, 2016, 6, 32940-32946 L |

| 49 | Accidental Water Pollution Risk Analysis of Mine Tailings Ponds in Guanting Reservoir Watershed, Zhangjiakou City, China. <i>International Journal of Environmental Research and Public Health</i> , 2015 , 12, 15289-8 | 4 26 |
|----|--|------|
| 48 | Estimate of the tidal stream power resource of the Pentland Firth. <i>Renewable Energy</i> , 2014 , 63, 650-6578.1 | 63 |
| 47 | Tidal stream power in the Pentland Firth 🛘 long-term variability, multiple constituents and capacity factor. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2014, 228, 854-861 | 15 |
| 46 | Importance of second-order wave generation for focused wave group run-up and overtopping. **Coastal Engineering*, 2014 , 94, 63-79** 4.8 | 40 |
| 45 | Wind-induced chaotic mixing in a two-layer density-stratified shallow flow. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2014 , 52, 219-227 | 3 |
| 44 | Tracer dynamics in two-layer density-stratified estuarine flow. <i>Proceedings of the Institution of Civil Engineers: Engineering and Computational Mechanics</i> , 2014 , 167, 41-49 | 2 |
| 43 | An electrical analogy for the Pentland Firth tidal stream power resource. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2014 , 470, 20130207 | 12 |
| 42 | Environmental risk mapping of accidental pollution and its zonal prevention in a city. <i>Chemical Engineering Research and Design</i> , 2013 , 91, 397-404 | 17 |
| 41 | Tidal stream energy resource assessment of the Anglesey Skerries. <i>International Journal of Marine Energy</i> , 2013 , 3-4, e98-e111 | 44 |
| 40 | The importance of understanding computer analyses in civil engineering. <i>Proceedings of the Institution of Civil Engineers: Civil Engineering</i> , 2013 , 166, 137-143 | 1 |
| 39 | The available power from tidal stream turbines in the Pentland Firth. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2013 , 469, 20130072 | 81 |
| 38 | From the paddle to the beach IA Boussinesq shallow water numerical wave tank based on Madsen and SEensenEl equations. <i>Journal of Computational Physics</i> , 2012 , 231, 328-344 | 38 |
| 37 | Separation of structure and ripples on sand mounds using Hermite functions. <i>Proceedings of the Institution of Civil Engineers: Engineering and Computational Mechanics</i> , 2012 , 165, 15-24 | О |
| 36 | A three-dimensional PSME model for rotating flows in an annular cavity. <i>International Journal of Computational Fluid Dynamics</i> , 2012 , 26, 181-191 | 1 |
| 35 | Diagnosis of river basins as CO2 sources or sinks subject to sediment movement. <i>Earth Surface Processes and Landforms</i> , 2012 , 37, 1398-1406 | 3 |
| 34 | Run-Up of Solitary Waves on Twin Conical Islands Using a Boussinesq Model. <i>Journal of Offshore Mechanics and Arctic Engineering</i> , 2012 , 134, | 7 |
| 33 | Variable density bore interaction with block obstacles. <i>International Journal of Computational Fluid Dynamics</i> , 2011 , 25, 223-237 | 4 |
| 32 | Experimental measurement of focused wave group and solitary wave overtopping. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2011 , 49, 450-464 | 33 |

| 31 | Vortex-induced chaotic mixing in wavy channels. <i>Journal of Fluid Mechanics</i> , 2010 , 654, 501-538 | 3.7 | 7 |
|----|---|-----|-----|
| 30 | Adaptive quadtree simulation of sediment transport. <i>Proceedings of the Institution of Civil Engineers: Engineering and Computational Mechanics</i> , 2010 , 163, 101-110 | 0.3 | 1 |
| 29 | 1-D numerical modelling of shallow flows with variable horizontal density. <i>International Journal for Numerical Methods in Fluids</i> , 2009 , 62, n/a-n/a | 1.9 | 4 |
| 28 | Adaptive quadtree simulation of shallow flows with wet l ry fronts over complex topography. <i>Computers and Fluids</i> , 2009 , 38, 221-234 | 2.8 | 248 |
| 27 | One-dimensional modelling of fluvial bed morphodynamics. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2008 , 46, 636-647 | 1.9 | 10 |
| 26 | A COMPARATIVE STUDY OF FINITE VOLUME AND FINITE ELEMENT ON SOME TRANSCRITICAL FREE SURFACE FLOW PROBLEMS. <i>International Journal of Computational Methods</i> , 2008 , 05, 413-431 | 1.1 | 8 |
| 25 | Simple treatment of non-aligned boundaries in a Cartesian grid shallow flow model. <i>International Journal for Numerical Methods in Fluids</i> , 2008 , 56, 2091-2110 | 1.9 | 8 |
| 24 | Shallow flow simulation on dynamically adaptive cut cell quadtree grids. <i>International Journal for Numerical Methods in Fluids</i> , 2007 , 53, 1777-1799 | 1.9 | 37 |
| 23 | Wind-induced chaotic advection in shallow flow geometries. Part II: Non-circular basins. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2006 , 44, 180-188 | 1.9 | 11 |
| 22 | Godunov-type solution of the shallow water equations on adaptive unstructured triangular grids. <i>International Journal of Computational Fluid Dynamics</i> , 2006 , 20, 621-636 | 1.2 | 22 |
| 21 | Wind-induced chaotic advection in shallow flow geometries. Part I: Circular basins. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2006 , 44, 170-79 | 1.9 | 10 |
| 20 | Solitary wave transformation, breaking and run-up at a beach. <i>Proceedings of the Institution of Civil Engineers: Maritime Engineering</i> , 2006 , 159, 97-105 | 1.8 | 32 |
| 19 | Flow kinematics of focused wave groups on a plane beach in the U.K. Coastal Research Facility. <i>Coastal Engineering</i> , 2006 , 53, 1033-1044 | 4.8 | 28 |
| 18 | Chaotic mixing in a basin due to a sinusoidal wind field. <i>International Journal for Numerical Methods in Fluids</i> , 2005 , 47, 871-877 | 1.9 | 3 |
| 17 | Finite-volume-type VOF method on dynamically adaptive quadtree grids. <i>International Journal for Numerical Methods in Fluids</i> , 2004 , 45, 485-508 | 1.9 | 37 |
| 16 | Simulation of dam- and dyke-break hydrodynamics on dynamically adaptive quadtree grids. <i>International Journal for Numerical Methods in Fluids</i> , 2004 , 46, 127-162 | 1.9 | 88 |
| 15 | Godunov-type adaptive grid model of wavedurrent interaction at cuspate beaches. <i>International Journal for Numerical Methods in Fluids</i> , 2004 , 46, 569-606 | 1.9 | 8 |
| 14 | Numerical wave tank based on a Etransformed finite element inviscid flow solver. <i>International Journal for Numerical Methods in Fluids</i> , 2003 , 42, 641-663 | 1.9 | 44 |

| 13 | Mathematical balancing of flux gradient and source terms prior to using Roell approximate Riemann solver. <i>Journal of Computational Physics</i> , 2003 , 192, 422-451 | 4.1 | 146 |
|----|---|------|-----|
| 12 | Wavelltructure interaction using coupled structured Instructured finite element meshes. <i>Applied Ocean Research</i> , 2003 , 25, 63-77 | 3.4 | 28 |
| 11 | Quadtree grid numerical model of nearshore wavedurrent interaction. <i>Coastal Engineering</i> , 2001 , 42, 219-239 | 4.8 | 21 |
| 10 | Adaptive Q-tree Godunov-type scheme for shallow water equations. <i>International Journal for Numerical Methods in Fluids</i> , 2001 , 35, 247-280 | 1.9 | 85 |
| 9 | Simulation of non-linear free surface motions in a cylindrical domain using a Chebyshev Bourier spectral collocation method. <i>International Journal for Numerical Methods in Fluids</i> , 2001 , 36, 465-496 | 1.9 | 13 |
| 8 | Adaptive quadtree model of shallow-flow hydrodynamics. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2001 , 39, 413-424 | 1.9 | 24 |
| 7 | Water wave diffraction by a cylinder array. Part 1. Regular waves. <i>Journal of Fluid Mechanics</i> , 2001 , 442, 1-32 | 3.7 | 40 |
| 6 | Water wave diffraction by a cylinder array. Part 2. Irregular waves. <i>Journal of Fluid Mechanics</i> , 2001 , 442, 33-66 | 3.7 | 19 |
| 5 | On the use of adaptive hierarchical meshes for numerical simulation of separated flows. <i>International Journal for Numerical Methods in Fluids</i> , 1998 , 26, 303-322 | 1.9 | 25 |
| 4 | Shallow flow modelling using curvilinear depth-averaged stream function and vorticity transport equations. <i>International Journal for Numerical Methods in Fluids</i> , 1993 , 17, 417-445 | 1.9 | 8 |
| 3 | River and reservoir flow modelling using the transformed shallow water equations. <i>International Journal for Numerical Methods in Fluids</i> , 1992 , 14, 1193-1217 | 1.9 | 38 |
| 2 | Numerical simulation of jet-forced flow in a circular reservoir using discrete and random vortex methods. <i>International Journal for Numerical Methods in Fluids</i> , 1992 , 14, 1453-1472 | 1.9 | 6 |
| 1 | Three Gorges Dam: Friend or Foe of Riverine Greenhouse Gases?. <i>National Science Review</i> , | 10.8 | 1 |