

Igor Brovchenko

List of Publications by Year in descending order

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Version: 2024-02-01

26
papers

602
citations

623574

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610775

24
g-index

30
all docs

30
docs citations

30
times ranked

485
citing authors

#	ARTICLE	IF	CITATIONS
1	A fully coupled 3D wave-current interaction model on unstructured grids. Journal of Geophysical Research, 2012, 117, .	3.3	123
2	Mathematical modelling of the dynamics and containment of COVID-19 in Ukraine. Scientific Reports, 2020, 10, 19662.	1.6	68
3	Interaction of a large amplitude interfacial solitary wave of depression with a bottom step. Physics of Fluids, 2010, 22, .	1.6	50
4	Internal solitary wave transformation over a bottom step: Loss of energy. Physics of Fluids, 2013, 25, .	1.6	41
5	Marine radionuclide transport modelling: Recent developments, problems and challenges. Environmental Modelling and Software, 2019, 122, 104523.	1.9	41
6	A new comparison of marine dispersion model performances for Fukushima Dai-ichi releases in the frame of IAEA MODARIA program. Journal of Environmental Radioactivity, 2015, 150, 247-269.	0.9	33
7	Internal breather-like wave generation by the second mode solitary wave interaction with a step. Physics of Fluids, 2016, 28, .	1.6	32
8	The marine kd and water/sediment interaction problem. Journal of Environmental Radioactivity, 2018, 192, 635-647.	0.9	29
9	The transformation of an interfacial solitary wave of elevation at a bottom step. Nonlinear Processes in Geophysics, 2009, 16, 33-42.	0.6	27
10	Modelling of marine radionuclide dispersion in IAEA MODARIA program: Lessons learnt from the Baltic Sea and Fukushima scenarios. Science of the Total Environment, 2016, 569-570, 594-602.	3.9	27
11	Development and application of 3D numerical model THREEETOX to the prediction of cooling water transport and mixing in the inland and coastal waters. Hydrological Processes, 2008, 22, 1000-1013.	1.1	24
12	Fukushima 137Cs releases dispersion modelling over the Pacific Ocean. Comparisons of models with water, sediment and biota data. Journal of Environmental Radioactivity, 2019, 198, 50-63.	0.9	22
13	Migration of radioactivity in multi-fraction sediments. Environmental Fluid Mechanics, 2017, 17, 1207-1231.	0.7	21
14	Oil spreading in instantaneous and continuous spills on rotating earth. Environmental Fluid Mechanics, 2012, 12, 361-378.	0.7	15
15	The modelling system for simulation of the oil spills in the Black Sea. Elsevier Oceanography Series, 2003, , 586-591.	0.1	8
16	Integration of 3D model THREEETOX in JRODOS, implementation studies and modelling of Fukushima scenarios. Radioprotection, 2016, 51, S133-S135.	0.5	8
17	3D non-hydrostatic modelling of bottom stability under impact of the turbulent ship propeller jet. Acta Geophysica, 2007, 55, 47-55.	1.0	6
18	Incomplete similarity of internal solitary waves with trapped cores. Fluid Dynamics Research, 2015, 47, 035511.	0.6	5

#	ARTICLE	IF	CITATIONS
19	Scavenging processes in multicomponent medium with first-order reaction kinetics: Lagrangian and Eulerian modeling. <i>Environmental Fluid Mechanics</i> , 2021, 21, 817-842.	0.7	5
20	Transport and Fate of ¹³⁷ Cs Released From Multiple Sources in the North Atlantic and Arctic Oceans. <i>Frontiers in Marine Science</i> , 2021, 8, .	1.2	5
21	Sediment and Radioactivity Transport in the Bohai, Yellow, and East China Seas: A Modeling Study. <i>Journal of Marine Science and Engineering</i> , 2022, 10, 596.	1.2	4
22	A comparison of radionuclide dispersion model performances for the Baltic Sea and Fukushima releases in the Pacific Ocean. <i>Radioprotection</i> , 2016, 51, S149-S151.	0.5	1
23	Classification of Radioactivity Levels in the Regions of the World Ocean Using Compartment Modelling. <i>Advances in Intelligent Systems and Computing</i> , 2020, , 13-20.	0.5	1
24	Modelling Radionuclide Scavenging in the Ocean by a Particle Tracking in Multicomponent Medium with First-Order Reaction Kinetics. <i>Advances in Intelligent Systems and Computing</i> , 2021, , 36-46.	0.5	1
25	3D NON-HYDROSTATIC MODELING OF BOTTOM AND BANK STABILITY SUBJECTED BY SHIP PROPELLER JETS. , 2007, , .		1
26	Modelling of short-term variations of currents, temperature, salinity and sea level in the Strait of Dardanelles. <i>Ocean Engineering</i> , 2022, 245, 110567.	1.9	1