Pavel Tkalich

List of Publications by Year
in descending order

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47 papers	1,242 citations	516215 16 h-index	377514 34 g-index
47 all docs	47 docs citations	47 times ranked	1500 citing authors

#	Article	IF	Citations
1	An ANN application for water quality forecasting. Marine Pollution Bulletin, 2008, 56, 1586-1597.	2.3	391
2	Vertical mixing of oil droplets by breaking waves. Marine Pollution Bulletin, 2002, 44, 1219-1229.	2.3	90
3	Mathematical modeling of radionuclide dispersion in the Pripyat-Dnieper aquatic system after the Chernobyl accident. Science of the Total Environment, 1992, 112, 89-114.	3.9	60
4	A multiphase oil spill model. Journal of Hydraulic Research/De Recherches Hydrauliques, 2003, 41, 115-125.	0.7	59
5	An Oil Spillâ€"Food Chain Interaction Model for Coastal Waters. Marine Pollution Bulletin, 2001, 42, 590-597.	2.3	52
6	Impact of biomass burning on ocean water quality in Southeast Asia through atmospheric deposition: field observations. Atmospheric Chemistry and Physics, 2010, 10, 11323-11336.	1.9	48
7	A CFD solution of oil spill problems. Environmental Modelling and Software, 2006, 21, 271-282.	1.9	44
8	Tsunami propagation scenarios in the South China Sea. Journal of Asian Earth Sciences, 2009, 36, 67-73.	1.0	40
9	Hybrid ANNâ€"GA model for predicting turbidity and chlorophyll-a concentrations. Journal of Hydro-Environment Research, 2013, 7, 279-299.	1.0	40
10	Sea level trend and variability around Peninsular Malaysia. Ocean Science, 2015, 11, 617-628.	1.3	39
11	Sea level trend and variability in the Singapore Strait. Ocean Science, 2013, 9, 293-300.	1.3	37
12	Artificial neural network for tsunami forecasting. Journal of Asian Earth Sciences, 2009, 36, 29-37.	1.0	33
13	Breaking wind waves as a source of ambient noise. Journal of the Acoustical Society of America, 2002, 112, 456-463.	0.5	22
14	ANN application for prediction of atmospheric nitrogen deposition to aquatic ecosystems. Marine Pollution Bulletin, 2011, 62, 1198-1206.	2.3	22
15	Storm surges in the Singapore Strait due to winds in the South China Sea. Natural Hazards, 2013, 66, 1345-1362.	1.6	18
16	Modelling of tsunami-like wave run-up, breaking and impact on a vertical wall by SPH method. Natural Hazards and Earth System Sciences, 2013, 13, 3457-3467.	1.5	17
17	Inter-annual sea level variability in the southern South China Sea. Global and Planetary Change, 2015, 133, 17-26.	1.6	17
18	Regime shift of the South China Sea SST in the late 1990s. Climate Dynamics, 2017, 48, 1873-1882.	1.7	17

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19	Impact of biomass burning on ocean water quality in Southeast Asia through atmospheric deposition: eutrophication modeling. Atmospheric Chemistry and Physics, 2010, 10, 11337-11357.	1.9	15
20	The Physical Oceanography of Singapore Coastal Waters and Its Implications for Oil Spills. , 2006, , 393-412.		14
21	Numerical modelling of extreme waves by Smoothed Particle Hydrodynamics. Natural Hazards and Earth System Sciences, 2011, 11, 419-429.	1.5	14
22	Atmospheric fluxes of nutrients onto Singapore Strait. Water Science and Technology, 2009, 59, 2287-2295.	1.2	13
23	Temporal variability and climatology of hydrodynamic, water property and water quality parameters in the West Johor Strait of Singapore. Marine Pollution Bulletin, 2013, 77, 380-395.	2.3	13
24	Tsunami forecasting using proper orthogonal decomposition method. Journal of Geophysical Research, 2008, 113, .	3.3	12
25	Dynamical and thermodynamical analysis of the South China Sea winter cold tongue. Climate Dynamics, 2016, 47, 1629-1646.	1.7	12
26	The forced and free response of the South China Sea to the large-scale monsoon system. Ocean Dynamics, 2012, 62, 377-393.	0.9	10
27	Mixed layer thermodynamics of the Southern South China Sea. Climate Dynamics, 2014, 43, 2061-2075.	1.7	10
28	A high-resolution atmosphereâ€“ocean coupled model for the western Maritime Continent: development and preliminary assessment. Climate Dynamics, 2019, 52, 3951-3981.	1.7	10
29	Modelling the effect of atmospheric nitrogen deposition on marine phytoplankton in the Singapore Strait. Water Science and Technology, 2010, 61, 859-867.	1.2	9
30	Retrieval of missing values in water temperature series using a data-driven model. Earth Science Informatics, 2015, 8, 787-798.	1.6	9
31	Monitoring harmful algal blooms in Singapore: Developing a HABs observing system. , 2012, , .		8
32	TSUNAMI PROPAGATION MODELING AND FORECASTING FOR EARLY WARNING SYSTEM. Journal of Earthquake and Tsunami, 2007, 01, 87-98.	0.7	7
33	Growth rate for a zooxanthellate coral (Leptoseris hawaiiensis) at 90m. Galaxea, 2013, 15, 39-40.	0.2	6
34	Derivation of high-order advectionâ€“diffusion schemes. Journal of Hydroinformatics, 2006, 8, 149-164.	1.1	5
35	Influence of the wind waves dissipation processes on dynamics in the water upper layer. Ocean Modelling, 2006, 11, 193-213.	1.0	5
36	Global mean sea level rise during the recent warming hiatus from satellite-based data. Remote Sensing Letters, 2018, 9, 497-506.	0.6	5

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37	An improved empirical dynamic control system model of global meanÂsea level rise and surface temperature change. Theoretical and Applied Climatology, 2018, 132, 375-385.	1.3	5
38	A storm surge forecasting system for the Singapore Strait. Smart Water, 2016, 1, .	3.1	4
39	Development of a MetUM (v 11.1) and NEMO (v 3.6) coupled operational forecast model for the Maritime Continent â€“ Part 1: Evaluation of ocean forecasts. Geoscientific Model Development, 2021, 14, 1081-1100.	1.3	3
40	Assessment of Kinetic Tidal Energy Resources Using SELFE. The International Journal of Ocean and Climate Systems, 2014, 5, 141-149.	0.8	2
41	The third-order polynomial method for two-dimensional convection and diffusion. International Journal for Numerical Methods in Fluids, 2003, 41, 997-1019.	0.9	1
42	Simulation of Typical Wind-Waves Characteristics in Singapore Strait. , 2006, , .		1
43	Ocean hydrodynamics model with tidal forcing derived using an Artificial Neural Network. , 2006, , .		1
44	Quantitative measurement of oil droplets using compressive digital holography. , 2014, , .		1
45	Long-term regional trend and variability of mean sea level during the satellite altimetry era. Scientia Marina, 2019, 83, 111.	0.3	1
46	Hopping numerical approximations of the hyperbolic equation. International Journal for Numerical Methods in Fluids, 2007, 55, 1171-1188.	0.9	0
47	Author's response to discussion of Derivation of high-order advection-diffusion schemes by Pavel Tkalich, 2006 J. Hydroinf. 8(3), 149â€“164. Journal of Hydroinformatics, 2007, 9, 159-162.	1.1	0