

# Tuomas Kärnä

## List of Publications by Year in descending order

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Version: 2024-02-01

24  
papers

631  
citations

758635

12  
h-index

676716

22  
g-index

36  
all docs

36  
docs citations

36  
times ranked

568  
citing authors

#	ARTICLE	IF	CITATIONS
1	A fully implicit wetting–drying method for DG-FEM shallow water models, with an application to the Scheldt Estuary. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2011, 200, 509-524.	3.4	96
2	CosmoFlow: Using Deep Learning to Learn the Universe at Scale. , 2018, , .		66
3	A finite-element, multi-scale model of the Scheldt tributaries, river, estuary and ROFI. <i>Coastal Engineering</i> , 2010, 57, 850-863.	1.7	60
4	Numerical modeling of circulation in high-energy estuaries: A Columbia River estuary benchmark. <i>Ocean Modelling</i> , 2015, 88, 54-71.	1.0	60
5	Thetis coastal ocean model: discontinuous Galerkin discretization for the three-dimensional hydrostatic equations. <i>Geoscientific Model Development</i> , 2018, 11, 4359-4382.	1.3	60
6	A flux-limiting wetting–drying method for finite-element shallow-water models, with application to the Scheldt Estuary. <i>Advances in Water Resources</i> , 2009, 32, 1726-1739.	1.7	40
7	Evaluation of a long-term hindcast simulation for the Columbia River estuary. <i>Ocean Modelling</i> , 2016, 99, 1-14.	1.0	38
8	A baroclinic discontinuous Galerkin finite element model for coastal flows. <i>Ocean Modelling</i> , 2013, 61, 1-20.	1.0	27
9	Preliminary results of a finite-element, multi-scale model of the Mahakam Delta (Indonesia). <i>Ocean Dynamics</i> , 2011, 61, 1107-1120.	0.9	26
10	Water age in the Columbia River estuary. <i>Estuarine, Coastal and Shelf Science</i> , 2016, 183, 249-259.	0.9	25
11	Infrastructure for collaborative science and societal applications in the Columbia River estuary. <i>Frontiers of Earth Science</i> , 2015, 9, 659-682.	0.9	24
12	Nemo-Nordic 2.0: operational marine forecast model for the Baltic Sea. <i>Geoscientific Model Development</i> , 2021, 14, 5731-5749.	1.3	20
13	Discontinuous Galerkin modeling of the Columbia River’s coupled estuary-plume dynamics. <i>Ocean Modelling</i> , 2018, 124, 111-124.	1.0	17
14	Metagenomic evidence for reciprocal particle exchange between the mainstem estuary and lateral bay sediments of the lower Columbia River. <i>Frontiers in Microbiology</i> , 2015, 6, 1074.	1.5	11
15	Improving Baltic Sea wave forecasts using modelled surface currents. <i>Ocean Dynamics</i> , 2021, 71, 635-653.	0.9	11
16	Plume spreading test case for coastal ocean models. <i>Geoscientific Model Development</i> , 2021, 14, 6945-6975.	1.3	9
17	Design of a sampling strategy to optimally calibrate a reactive transport model: Exploring the potential for <i>Escherichia coli</i> in the Scheldt Estuary. <i>Environmental Modelling and Software</i> , 2009, 24, 969-981.	1.9	8
18	Coupling of a discontinuous Galerkin finite element marine model with a finite difference turbulence closure model. <i>Ocean Modelling</i> , 2012, 47, 55-64.	1.0	7

#	ARTICLE	IF	CITATIONS
19	Comparing non-hydrostatic extensions to a discontinuous finite element coastal ocean model. Ocean Modelling, 2020, 151, 101634.	1.0	7
20	Gaussian basis functions for chemometrics. Journal of Chemometrics, 2008, 22, 701-707.	0.7	4
21	Simple test cases for validating a finite element unstructured grid fecal bacteria transport model. Applied Mathematical Modelling, 2010, 34, 3055-3070.	2.2	4
22	Discontinuous Galerkin discretization for two-equation turbulence closure model. Ocean Modelling, 2020, 150, 101619.	1.0	4
23	Discontinuous Galerkin finite element discretization of a strongly anisotropic diffusion operator. International Journal for Numerical Methods in Fluids, 2014, 75, 365-384.	0.9	3
24	Gaussian Fitting Based FDA for Chemometrics. , 2007, , 186-193.		0