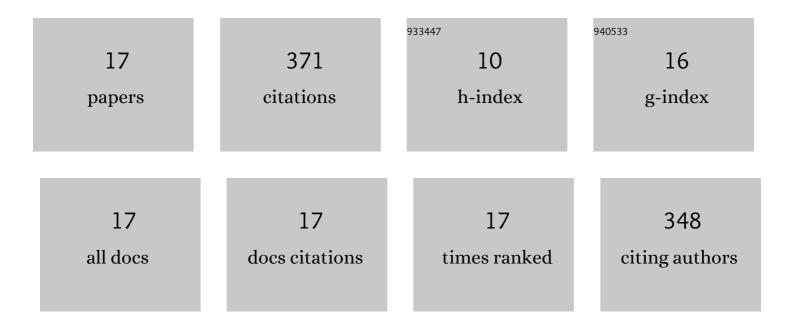
Daniel Karrasch

List of Publications by Year in descending order

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DANIEL KARRASCH

#	Article	IF	CITATIONS
1	Carriers of <i>Sargassum</i> and mechanism for coastal inundation in the Caribbean Sea. Physics of Fluids, 2022, 34, .	4.0	13
2	Heat-content and diffusive leakage from material sets in the low-diffusivity limit [*] . Nonlinearity, 2021, 34, 7303-7321.	1.4	1
3	Barriers to the Transport of Diffusive Scalars in Compressible Flows. SIAM Journal on Applied Dynamical Systems, 2020, 19, 85-123.	1.6	14
4	A Geometric Heat-Flow Theory of Lagrangian Coherent Structures. Journal of Nonlinear Science, 2020, 30, 1849-1888.	2.1	15
5	Genesis, evolution, and apocalypse of Loop Current rings. Physics of Fluids, 2020, 32, .	4.0	16
6	Lagrangian Transport through Surfaces in Compressible Flows. SIAM Journal on Applied Dynamical Systems, 2018, 17, 526-546.	1.6	1
7	Material barriers to diffusive and stochastic transport. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 9074-9079.	7.1	46
8	Lagrangian Transport Through Surfaces in Volume-Preserving Flows. SIAM Journal on Applied Mathematics, 2016, 76, 1178-1190.	1.8	6
9	Spectral-clustering approach to Lagrangian vortex detection. Physical Review E, 2016, 93, 063107.	2.1	112
10	Attracting Lagrangian coherent structures on Riemannian manifolds. Chaos, 2015, 25, 087411.	2.5	9
11	Automated detection of coherent Lagrangian vortices in two-dimensional unsteady flows. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2015, 471, 20140639.	2.1	38
12	Attraction-based computation of hyperbolic Lagrangian coherent structures. Journal of Computational Dynamics, 2015, 2, 83-93.	1.1	10
13	Linearization of hyperbolic finite-time processes. Journal of Differential Equations, 2013, 254, 256-282.	2.2	11
14	Do Finite-Size Lyapunov Exponents detect coherent structures?. Chaos, 2013, 23, 043126.	2.5	44
15	Comment on "A variational theory of hyperbolic Lagrangian coherent structures, Physica D 240 (2011) 574–598― Physica D: Nonlinear Phenomena, 2012, 241, 1470-1473.	2.8	10
16	A unified approach to finite-time hyperbolicity which extends finite-time Lyapunov exponents. Journal of Differential Equations, 2012, 252, 5535-5554.	2.2	14
17	Fast and robust computation of coherent Lagrangian vortices on very large two-dimensional domains. SMAI Journal of Computational Mathematics, 0, 6, 101-124.	0.0	11