Marcel Oliver

List of Publications by Year
in descending order

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60	879	516710	501196
papers	citations	16	28
		h-index	g-index

62	62	62	473
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Breakdown of Liesegang precipitation bands in a simplified fast reaction limit of the Kellerâ€“Rubinow model. Nonlinear Differential Equations and Applications, 2021, 28, 1.	0.8	1
2	Numerical Integration of Functions of a Rapidly Rotating Phase. SIAM Journal on Numerical Analysis, 2021, 59, 2310-2319.	2.3	0
3	Variational balance models for the three-dimensional Eulerâ€“Boussinesq equations with full Coriolis force. Physics of Fluids, 2021, 33, 076606.	4.0	0
4	Optimal balance for rotating shallow water in primitive variables. Geophysical and Astrophysical Fluid Dynamics, 2020, 114, 429-452.	1.2	4
5	A Kinematic Kinetic Energy Backscatter Parametrization: From Implementation to Global Ocean Simulations. Journal of Advances in Modeling Earth Systems, 2020, 12, e2020MS002175.	3.8	11
6	On the Existence of Solutions to a Bi-Planar Monge-AmpÃ¨re Equation. Acta Mathematica Scientia, 2020, 40, 379-388.	1.0	2
7	Ocean Kinetic Energy Backscatter Parametrization on Unstructured Grids: Impact on Global Eddyâ€Permitting Simulations. Journal of Advances in Modeling Earth Systems, 2020, 12, e2019MS001855.	3.8	16
8	Geodesic motion on groups of diffeomorphisms with H1 metric as geometric generalised Lagrangian mean theory. Geophysical and Astrophysical Fluid Dynamics, 2019, 113, 466-490.	1.2	1
9	The Interior Energy Pathway: Inertia-Gravity Wave Emission by Oceanic Flows. Mathematics of Planet Earth, 2019, , 53-85.	0.1	7
10	Multi-scale Methods for Geophysical Flows. Mathematics of Planet Earth, 2019, , 1-51.	0.1	9
11	A direct construction of a slow manifold for a semilinear wave equation of Kleinâ€“Gordon type. Journal of Differential Equations, 2019, 267, 1-14.	2.2	1
12	Ocean kinetic energy backscatter parametrizations on unstructured grids: Impact on mesoscale turbulence in a channel. Ocean Modelling, 2019, 138, 51-67.	2.4	23
13	Toward Consistent Subgrid Momentum Closures in Ocean Models. Mathematics of Planet Earth, 2019, , 145-192.	0.1	9
14	Uniqueness of solutions for weakly degenerate cordial Volterra integral equations. Journal of Integral Equations and Applications, 2019, 31, .	0.6	3
15	An estimate on the Bedrosian commutator in Sobolev space. Journal of Inequalities and Applications, 2018, 2018, 348.	1.1	0
16	Geometric Lagrangian averaged Eulerâ€“Boussinesq and primitive equations. Journal of Physics A: Mathematical and Theoretical, 2018, 51, 455501.	2.1	4
17	Hs-class construction of an almost invariant slow subspace for the Kleinâ€“Gordon equation in the non-relativistic limit. Journal of Mathematical Physics, 2018, 59, 051509.	1.1	4
18	Optimal Balance via Adiabatic Invariance of Approximate Slow Manifolds. Multiscale Modeling and Simulation, 2017, 15, 1404-1422.	1.6	5

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19	Lagrangian averaging with geodesic mean. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2017, 473, 20170558.	2.1	4
20	Comparison of variational balance models for the rotating shallow water equations. Journal of Fluid Mechanics, 2017, 822, 689-716.	3.4	6
21	Generalized large-scale semigeostrophic approximations for thef-plane primitive equations. Journal of Physics A: Mathematical and Theoretical, 2016, 49, 184001.	2.1	6
22	Exponentially accurate Hamiltonian embeddings of symplectic A-stable Rungeâ€“Kutta methods for Hamiltonian semilinear evolution equations. Proceedings of the Royal Society of Edinburgh Section A: Mathematics, 2016, 146, 1265-1301.	1.2	2
23	Sustaining diversity in trait-based models of phytoplankton communities. Frontiers in Ecology and Evolution, 2014, 2, .	2.2	29
24	Slow dynamics via degenerate variational asymptotics. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2014, 470, 20140460.	2.1	9
25	Stability under Galerkin truncation of A-stable Rungeâ€“Kutta discretizations in time. Proceedings of the Royal Society of Edinburgh Section A: Mathematics, 2014, 144, 603-636.	1.2	1
26	A variational derivation of the geostrophic momentum approximation. Journal of Fluid Mechanics, 2014, 751, .	3.4	4
27	Global Well-Posedness for the Generalized Large-Scale Semigeostrophic Equations. Archive for Rational Mechanics and Analysis, 2013, 207, 969-990.	2.4	6
28	Generalized LSG models with spatially varying Coriolis parameter. Geophysical and Astrophysical Fluid Dynamics, 2013, 107, 259-276.	1.2	8
29	On the Rate of Convergence of the Hamiltonian Particle-Mesh Method. Lecture Notes in Computational Science and Engineering, 2013, , 25-43.	0.3	1
30	A-stable Rungeâ€“Kutta methods for semilinear evolution equations. Journal of Functional Analysis, 2012, 263, 1981-2023.	1.4	3
31	Weak solutions for generalized large-scale semigeostrophic equations. Communications on Pure and Applied Analysis, 2012, 12, 939-955.	0.8	2
32	Convergence of the Hamiltonian particle-mesh method for barotropic fluid flow. Mathematics of Computation, 2012, 82, 861-891.	2.1	2
33	Hamiltonian formalism for models of rotating shallow water in semigeostrophic scaling. Discrete and Continuous Dynamical Systems, 2011, 31, 827-846.	0.9	6
34	The Ever-Elusive Blowup in the Mathematical Description of Fluids. , 2011, , 137-164.		1
35	A parcel formulation of Hamiltonian layer models. Geophysical and Astrophysical Fluid Dynamics, 2009, 103, 423-442.	1.2	2
36	Boltzmann's Dilemma: An Introduction to Statistical Mechanics via the Kac Ring. SIAM Review, 2009, 51, 613-635.	9.5	22

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37	Convergence of the Hamiltonian Particle-Mesh Method Applied to Barotropic Fluid Equations. Proceedings in Applied Mathematics and Mechanics, 2008, 8, 10127-10128.	0.2	1
38	Transparent boundary conditions as dissipative closures. Proceedings in Applied Mathematics and Mechanics, 2008, 8, 10601-10602.	0.2	0
39	Transparent boundary conditions as dissipative subgrid closures for the spectral representation of scalar advection by shear flows. Journal of Mathematical Physics, 2007, 48, 065502.	1.1	2
40	Long-Time Accuracy for Approximate Slow Manifolds in a Finite-Dimensional Model of Balance. Journal of Nonlinear Science, 2007, 17, 283-307.	2.1	6
41	Variational asymptotics for rotating shallow water near geostrophy: a transformational approach. Journal of Fluid Mechanics, 2006, 551, 197.	3.4	30
42	Parcel Eulerianâ€“Lagrangian fluid dynamics of rotating geophysical flows. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2006, 462, 2575-2592.	2.1	15
43	Numerical Evaluation of the Evans Function by Magnus Integration. BIT Numerical Mathematics, 2005, 45, 219-258.	2.0	17
44	Approximate momentum conservation for spatial semidiscretizations of semilinear wave equations. Numerische Mathematik, 2004, 97, 493-535.	1.9	38
45	The Lagrangian averaged Euler equations as the short-time inviscid limit of the Navierâ€“Stokes equations with Besov class data in $mathbb{R}^2$. Communications on Pure and Applied Analysis, 2002, 1, 221-235.	0.8	4
46	A new model for shallow water in the low-Rossby-number limit. Journal of Fluid Mechanics, 2002, 450, 287-296.	3.4	2
47	THE VORTEX BLOB METHOD AS A SECOND-GRADE NON-NEWTONIAN FLUID. Communications in Partial Differential Equations, 2001, 26, 295-314.	2.2	39
48	On the Domain of Analyticity for Solutions of Second Order Analytic Nonlinear Differential Equations. Journal of Differential Equations, 2001, 174, 55-74.	2.2	41
49	Gevrey Regularity for the Attractor of a Partially Dissipative Model of BÃ©nard Convection in a Porous Medium. Journal of Differential Equations, 2000, 163, 292-311.	2.2	14
50	Remark on the Rate of Decay of Higher Order Derivatives for Solutions to the Navierâ€“Stokes Equations in Rn. Journal of Functional Analysis, 2000, 172, 1-18.	1.4	116
51	Global well-posedness for the averaged Euler equations in two dimensions. Physica D: Nonlinear Phenomena, 2000, 138, 197-209.	2.8	6
52	Accelerating fronts in autocatalysis. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2000, 456, 1609-1624.	2.1	5
53	Analyticity of the attractor and the number of determining nodes for a weakly damped driven nonlinear Schrodinger equation. Indiana University Mathematics Journal, 1998, 47, 0-0.	0.9	33
54	Distribution-valued initial data for the complex ginzburg-landau equation. Communications in Partial Differential Equations, 1997, 22, 39-48.	2.2	17

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55	Justification of the Shallow-Water Limit for a Rigid-Lid Flow with Bottom Topography. Theoretical and Computational Fluid Dynamics, 1997, 9, 311-324.	2.2	10
56	Analyticity of Solutions for a Generalized Euler Equation. Journal of Differential Equations, 1997, 133, 321-339.	2.2	112
57	Classical Solutions for a Generalized Euler Equation in Two Dimensions. Journal of Mathematical Analysis and Applications, 1997, 215, 471-484.	1.0	31
58	Global well-posedness for models of shallow water in a basin with a varying bottom. Indiana University Mathematics Journal, 1996, 45, 0-0.	0.9	57
59	Length scales in solutions of the complex Ginzburg-Landau equation. Physica D: Nonlinear Phenomena, 1996, 89, 267-286.	2.8	39
60	Global well-posedness for the lake equations. Physica D: Nonlinear Phenomena, 1996, 98, 492-509.	2.8	30