Eugene A Ryzhov

List of Publications by Year
in descending order

44	413	687220	887953
papers	citations	13 h-index	17 g-index

52	52	52	116
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	On transport tensor of dynamically unresolved oceanic mesoscale eddies. Journal of Fluid Mechanics, 2022, 939, .	1.4	3
2	On dynamically unresolved oceanic mesoscale motions. Journal of Fluid Mechanics, 2021, 920, .	1.4	11
3	Correlation-based flow decomposition and statistical analysis of the eddy forcing. Journal of Fluid Mechanics, 2021, 924, .	1.4	8
4	Clustering of Floating Tracer Due to Mesoscale Vortex and Submesoscale Fields. Geophysical Research Letters, 2020, 47, e2019GL086504.	1.5	5
5	On data-driven induction of the low-frequency variability in a coarse-resolution ocean model. Ocean Modelling, 2020, 153, 101664.	1.0	15
6	Floating tracer clustering in divergent random flows modulated by an unsteady mesoscale ocean field. Geophysical and Astrophysical Fluid Dynamics, 2020, 114, 690-714.	0.4	5
7	Data-adaptive harmonic analysis of oceanic waves and turbulent flows. Chaos, 2020, 30, 061105.	1.0	8
8	10.1063/5.0012077.3. , 2020, , .		0
9	On data-driven augmentation of low-resolution ocean model dynamics. Ocean Modelling, 2019, 142, 101464.	1.0	13
10	Vortex Interactions Subjected to Deformation Flows: A Review. Fluids, 2019, 4, 14.	0.8	12
11	Clustering of floating tracers in weakly divergent velocity fields. Physical Review E, 2019, 100, 063108.	0.8	7
12	Advection of passive scalars induced by a bay-trapped nonstationary vortex. Ocean Dynamics, 2018, 68, 411-422.	0.9	2
13	Interaction of an along-shore propagating vortex with a vortex enclosed in a circular bay. Physics of Fluids, 2018, 30, 016602.	1.6	5
14	Entrapping of a vortex pair interacting with a fixed point vortex revisited. I. Point vortices. Physics of Fluids, 2018, 30, .	1.6	14
15	Entrapping of a vortex pair interacting with a fixed point vortex revisited. II. Finite size vortices and the effect of deformation. Physics of Fluids, 2018, 30, 096604.	1.6	8
16	Nonlinear dynamics of an elliptic vortex embedded in an oscillatory shear flow. Chaos, 2017, 27, 113101.	1.0	2
17	Parametric resonance in the dynamics of an elliptic vortex in a periodically strained environment. Nonlinear Processes in Geophysics, 2017, 24, 1-8.	0.6	9
18	Interaction of a two-layer vortex pair with a submerged cylindrical obstacle in a two layer rotating fluid. Physics of Fluids, 2016, 28, .	1.6	15

#	Article	IF	Citations
19	Resonance phenomena in a two-layer two-vortex shear flow. Chaos, 2016, 26, 113116.	1.0	8
20	Local parametric instability near elliptic points in vortex flows under shear deformation. Chaos, 2016, 26, 083111.	1.0	3
21	Parametric instability of a many point-vortex system in a multi-layer flow under linear deformation. Regular and Chaotic Dynamics, 2016, 21, 254-266.	0.3	5
22	Steady and perturbed motion of a point vortex along a boundary with a circular cavity. Physics Letters, Section A: General, Atomic and Solid State Physics, 2016, 380, 896-902.	0.9	4
23	Effect of the vertical component of diffusion on passive scalar transport in an isolated vortex model. Physical Review E, 2015, 92, 053021.	0.8	13
24	Global chaotization of fluid particle trajectories in a sheared two-layer two-vortex flow. Chaos, 2015, 25, 103108.	1.0	7
25	A modification of the invariant imbedding method for a singular boundary value problem. Communications in Nonlinear Science and Numerical Simulation, 2014, 19, 459-470.	1.7	3
26	Two-point-vortex evolution in an oscillatory shear flow with rotation. Europhysics Letters, 2014, 108, 24002.	0.7	4
27	Vortex dynamics of a fluid near a boundary with a circular cavity. Izvestiya - Atmospheric and Oceanic Physics, 2014, 50, 420-425.	0.2	2
28	Irregular mixing due to a vortex pair interacting with a fixed vortex. Physics Letters, Section A: General, Atomic and Solid State Physics, 2014, 378, 3301-3307.	0.9	7
29	Toroidal vortices over isolated topography in geophysical flows. Fluid Dynamics Research, 2014, 46, 031405.	0.6	3
30	Vortex tori above bottom perturbations in a rotating fluid. Doklady Physics, 2013, 58, 186-190.	0.2	0
31	Dynamics of a vortex pair interacting with a fixed point vortex. Europhysics Letters, 2013, 102, 44004.	0.7	15
32	Interaction of a monopole vortex with an isolated topographic feature in a three-layer geophysical flow. Nonlinear Processes in Geophysics, 2013, 20, 107-119.	0.6	20
33	Diffusion-affected passive scalar transport in an ellipsoidal vortex in a shear flow. Nonlinear Processes in Geophysics, 2013, 20, 437-444.	0.6	22
34	Fluid particle advection in the vicinity of the FÃ¶ppl vortex system. Physics Letters, Section A: General, Atomic and Solid State Physics, 2012, 376, 3208-3212.	0.9	0
35	Passive scalar advection in the vicinity of two point vortices in a deformation flow. European Journal of Mechanics, B/Fluids, 2012, 34, 121-130.	1.2	20
36	Parametric resonance with a point-vortex pair in a nonstationary deformation flow. Physics Letters, Section A: General, Atomic and Solid State Physics, 2012, 376, 744-747.	0.9	16

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37	Estimating the size of the regular region of a topographically trapped vortex. Geophysical and Astrophysical Fluid Dynamics, 2011, 105, 536-551.	0.4	21
38	Ellipsoidal vortex in a nonuniform flow: Dynamics and chaotic advections. Journal of Marine Research, 2011, 69, 435-461.	0.3	25
39	The effects of chaotic advection in a three-layer ocean model. Izvestiya - Atmospheric and Oceanic Physics, 2011, 47, 241-251.	0.2	14
40	Ventilation of a trapped topographic eddy by a captured free eddy. Izvestiya - Atmospheric and Oceanic Physics, 2011, 47, 780-791.	0.2	6
41	On changing the size of the atmosphere of a vortex pair embedded in a periodic external shear flow. Physics Letters, Section A: General, Atomic and Solid State Physics, 2011, 375, 3884-3889.	0.9	10
42	Background current concept and chaotic advection in an oceanic vortex flow. Theoretical and Computational Fluid Dynamics, 2010, 24, 59-64.	0.9	20
43	Chaotic transport and mixing of a passive admixture by vortex flows behind obstacles. Izvestiya - Atmospheric and Oceanic Physics, 2010, 46, 184-191.	0.2	16
44	Evaluating the stochastic layer thickness in a two-layer topographic vortex model. Technical Physics Letters, 2008, 34, 531-534.	0.2	7