Konstantin Koshel

List of Publications by Year
in descending order

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64	680	516215 16	610482 24
papers	citations	h-index	g-index

68	68	68	153
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	THE STUDY OF ACOUSTIC MODES BACK-SCATTERING BY BOTTOM RELIEF INHOMOGENEITIES USING THE INVARIANT IMBEDDING METHOD. Podvodnye Issledovaniia I Robototehnika, 2021, , 76-81.	0.1	0
2	Generalized Form of the Invariant Imbedding Method and Its Application to the Study of Back-Scattering in Shallow-Water Acoustics. Journal of Marine Science and Engineering, 2021, 9, 1033.	1.2	5
3	Clustering of Floating Tracer Due to Mesoscale Vortex and Submesoscale Fields. Geophysical Research Letters, 2020, 47, e2019GL086504.	1.5	5
4	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
5	N-symmetric interaction of N hetons. I. Analysis of the case N = 2. Physics of Fluids, 2020, 32, .	1.6	6
6	Vortex Interactions Subjected to Deformation Flows: A Review. Fluids, 2019, 4, 14.	0.8	12
7	The life cycle of submesoscale eddies generated by topographic interactions. Ocean Science, 2019, 15, 1531-1543.	1.3	21
8	Clustering of floating tracers in weakly divergent velocity fields. Physical Review E, 2019, 100, 063108.	0.8	7
9	Advection of passive scalars induced by a bay-trapped nonstationary vortex. Ocean Dynamics, 2018, 68, 411-422.	0.9	2
10	Interaction of an along-shore propagating vortex with a vortex enclosed in a circular bay. Physics of Fluids, 2018, 30, 016602.	1.6	5
11	Entrapping of a vortex pair interacting with a fixed point vortex revisited. I. Point vortices. Physics of Fluids, 2018, 30, .	1.6	14
12	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
13	Impact of diffusion on surface clustering in random hydrodynamic flows. Physical Review E, 2017, 95, 013109.	0.8	4
14	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
15	Resonance phenomena in a two-layer two-vortex shear flow. Chaos, 2016, 26, 113116.	1.0	8
16	Statistical structuring theory in parametrically excitable dynamical systems with a Gaussian pump. Theoretical and Mathematical Physics(Russian Federation), 2016, 186, 411-429.	0.3	0
17	Local parametric instability near elliptic points in vortex flows under shear deformation. Chaos, 2016, 26, 083111.	1.0	3
18	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

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19	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
20	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
21	Global chaotization of fluid particle trajectories in a sheared two-layer two-vortex flow. Chaos, 2015, 25, 103108.	1.0	7
22	Anomalous sea surface structures as an object of statistical topography. Physical Review E, 2015, 91, 063003.	0.8	2
23	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
24	Two-point-vortex evolution in an oscillatory shear flow with rotation. Europhysics Letters, 2014, 108, 24002.	0.7	4
25	Vortex dynamics of a fluid near a boundary with a circular cavity. Izvestiya - Atmospheric and Oceanic Physics, 2014, 50, 420-425.	0.2	2
26	Toroidal vortices over isolated topography in geophysical flows. Fluid Dynamics Research, 2014, 46, 031405.	0.6	3
27	Vortex tori above bottom perturbations in a rotating fluid. Doklady Physics, 2013, 58, 186-190.	0.2	0
28	Dynamics of a vortex pair interacting with a fixed point vortex. Europhysics Letters, 2013, 102, 44004.	0.7	15
29	Three-vortex quasi-geostrophic dynamics in a two-layer fluid. Part 1. Analysis of relative and absolute motions. Journal of Fluid Mechanics, 2013, 717, 232-254.	1.4	21
30	Three-vortex quasi-geostrophic dynamics in a two-layer fluid. Part 2. Regular and chaotic advection around the perturbed steady states. Journal of Fluid Mechanics, 2013, 717, 255-280.	1.4	19
31	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
32	Diffusion-affected passive scalar transport in an ellipsoidal vortex in a shear flow. Nonlinear Processes in Geophysics, 2013, 20, 437-444.	0.6	22
33	Comments on â€œPeristaltic flow of a Williamson fluid in an asymmetric channelâ€•(Commun. Nonlinear) Tj ETQq1 1 0.784314 rgBT /O 17, 483-484.	1.7	3
34	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
35	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
36	Estimating the size of the regular region of a topographically trapped vortex. Geophysical and Astrophysical Fluid Dynamics, 2011, 105, 536-551.	0.4	21

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37	Ellipsoidal vortex in a nonuniform flow: Dynamics and chaotic advections. Journal of Marine Research, 2011, 69, 435-461.	0.3	25
38	The effects of chaotic advection in a three-layer ocean model. Izvestiya - Atmospheric and Oceanic Physics, 2011, 47, 241-251.	0.2	14
39	Ventilation of a trapped topographic eddy by a captured free eddy. Izvestiya - Atmospheric and Oceanic Physics, 2011, 47, 780-791.	0.2	6
40	Baroclinic multipole evolution in shear and strain. Geophysical and Astrophysical Fluid Dynamics, 2011, 105, 506-535.	0.4	21
41	Background current concept and chaotic advection in an oceanic vortex flow. Theoretical and Computational Fluid Dynamics, 2010, 24, 59-64.	0.9	20
42	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
43	Chaotic advection and nonlinear resonances in an oceanic flow above submerged obstacle. Fluid Dynamics Research, 2008, 40, 695-736.	0.6	37
44	Evaluating the stochastic layer thickness in a two-layer topographic vortex model. Technical Physics Letters, 2008, 34, 531-534.	0.2	7
45	Estimation of Optimal for Chaotic Transport Frequency of Non-Stationary Flow Oscillation. , 2008, , 393-402.		0
46	Chaotic Advection and Nonlinear Resonances in a Periodic Flow above Submerged Obstacle. , 2008, , 415-423.		1
47	Determination of the optimal excitation frequency range in background flows. Chaos, 2008, 18, 013107.	1.0	27
48	Chaotic advection induced by a topographic vortex in baroclinic ocean. Doklady Earth Sciences, 2006, 407, 455-459.	0.2	9
49	Determining the optimal frequency of perturbation in the problem of chaotic transport of particles. Doklady Physics, 2006, 51, 219-222.	0.2	12
50	Chaotic advection in the ocean. Physics-Uspekhi, 2006, 49, 1151-1178.	0.8	92
51	Properties of chaotic advection in a 2-layer model of vortex flow. , 2006, , .		0
52	Boundary Effect on the Mixing and Transport of Passive Impurities in a Nonstationary Flow. Technical Physics Letters, 2005, 31, 135.	0.2	7
53	Some specific features of chaotization of the pulsating barotropic flow over elliptic and axisymmetric sea-mounts. Physics of Fluids, 2004, 16, 3173-3190.	1.6	31
54	Title is missing!. Regular and Chaotic Dynamics, 2004, 9, 439.	0.3	4

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55	Various regimes of motion of a spherical cavity at a negative external pressure. Doklady Physics, 2003, 48, 649-653.	0.2	0
56	Some features of chaotization of a pulsating barotropic flow over a seamount with elliptic cross-section. Russian Journal of Numerical Analysis and Mathematical Modelling, 2003, 18, .	0.2	4
57	Simple example of the development of cluster structure of a passive tracer field in random flows. Physics-Uspekhi, 2000, 43, 717-723.	0.8	26
58	The embedding method and differential run equations for the inverse scattering problem in a layered medium. Radio Science, 1995, 30, 1689-1698.	0.8	3
59	Time-pulse propagation and inverse problem solution for layered medium. , 1994, 2222, 759.		0
60	<title>Rough-surface scattering at low grazing angles</title>. , 1994, , .		0
61	Influence of layer and anisotropic fluctuations of the refractive index on the beyond-the-horizon SHF propagation in the troposphere over the sea when there is an evaporation duct. Waves in Random and Complex Media, 1993, 3, 25-38.	1.5	4
62	<title>Influence of layer and anisotropic fluctuations of the refractive index on the beyond-the-horizon SHF propagation in the troposphere over the sea when there is an evaporation duct</title>. , 1993, 1968, 784.		0
63	<title>Application of invariant imbedding method to simulate numerically beyond-the-horizon propagation of SHF over the sea</title>. , 1992, , .		0
64	<title>Spatial structure of radar sea return: influence of refraction</title>. , 1992, 1688, 704.		0