

Yuri N Skiba

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5235934/publications.pdf>

Version: 2024-02-01

52
papers

315
citations

933447

10
h-index

996975

15
g-index

53
all docs

53
docs citations

53
times ranked

66
citing authors

#	ARTICLE	IF	CITATIONS
1	Elements of the mathematical modeling in the control of pollutants emissions. <i>Ecological Modelling</i> , 2003, 167, 263-275.	2.5	31
2	On the spectral problem in the linear stability study of flows on a sphere. <i>Journal of Mathematical Analysis and Applications</i> , 2002, 270, 165-180.	1.0	21
3	Spectral approximation in the numerical stability study of nondivergent viscous flows on a sphere. <i>Numerical Methods for Partial Differential Equations</i> , 1998, 14, 143-157.	3.6	20
4	Dual oil concentration estimates in ecologically sensitive zones. <i>Environmental Monitoring and Assessment</i> , 1996, 43, 139-151.	2.7	16
5	Industrial pollution transport. Part 1. Formulation of the problem and air pollution estimates. <i>Environmental Modeling and Assessment</i> , 2000, 5, 169-175.	2.2	16
6	Industrial pollution transport. Part 2. Control of industrial emissions. <i>Environmental Modeling and Assessment</i> , 2000, 5, 177-184.	2.2	15
7	On a method of detecting the industrial plants which violate prescribed emission rates. <i>Ecological Modelling</i> , 2003, 159, 125-132.	2.5	14
8	On the linear stability study of zonal incompressible flows on a sphere. <i>Numerical Methods for Partial Differential Equations</i> , 1998, 14, 649-665.	3.6	13
9	Air Pollution Estimates in Guadalajara City. <i>Environmental Modeling and Assessment</i> , 2002, 7, 153-162.	2.2	12
10	On the estimation of impact of vehicular emissions. <i>Ecological Modelling</i> , 2003, 166, 169-184.	2.5	11
11	Conservative arbitrary order finite difference schemes for shallow-water flows. <i>Journal of Computational and Applied Mathematics</i> , 2008, 218, 579-591.	2.0	11
12	On the long-time behavior of solutions to the barotropic atmosphere model. <i>Geophysical and Astrophysical Fluid Dynamics</i> , 1994, 78, 143-167.	1.2	10
13	On dimensions of attractive sets of viscous fluids on a sphere under quasi-periodic forcing. <i>Geophysical and Astrophysical Fluid Dynamics</i> , 1997, 85, 233-242.	1.2	10
14	Direct and Adjoint Oil Spill Estimates. <i>Environmental Monitoring and Assessment</i> , 1999, 59, 95-109.	2.7	10
15	On the existence and uniqueness of solution to problems of fluid dynamics on a sphere. <i>Journal of Mathematical Analysis and Applications</i> , 2012, 388, 627-644.	1.0	10
16	On the normal mode instability of modons and Wu-Verkley waves. <i>Geophysical and Astrophysical Fluid Dynamics</i> , 2000, 93, 39-54.	1.2	8
17	Linear instability of ideal flows on a sphere. <i>Mathematical Methods in the Applied Sciences</i> , 2009, 32, 284-306.	2.3	8
18	A non-iterative implicit algorithm for the solution of advection-diffusion equation on a sphere. <i>International Journal for Numerical Methods in Fluids</i> , 2015, 78, 257-282.	1.6	8

#	ARTICLE	IF	CITATIONS
19	On optimal solution of an inverse air pollution problem: Theory and numerical approach. <i>Mathematical and Computer Modelling</i> , 2006, 43, 766-778.	2.0	7
20	On splitting-based mass and total energy conserving arbitrary order shallow-water schemes. <i>Numerical Methods for Partial Differential Equations</i> , 2007, 23, 534-552.	3.6	7
21	On the structure and growth rate of unstable modes to the Rossby-Haurwitz wave. <i>Numerical Methods for Partial Differential Equations</i> , 2005, 21, 368-386.	3.6	6
22	Air Quality Assessment And Control Of Emission Rates. <i>Environmental Monitoring and Assessment</i> , 2005, 111, 89-112.	2.7	6
23	On an efficient splitting-based method for solving the diffusion equation on a sphere. <i>Numerical Methods for Partial Differential Equations</i> , 2012, 28, 331-352.	3.6	5
24	A Linear-Programming-Based Strategy for Bioremediation of Oil-Polluted Marine Environments. <i>Environmental Modeling and Assessment</i> , 2013, 18, 135-146.	2.2	5
25	Mathematical Problems of the Dynamics of Incompressible Fluid on a Rotating Sphere. , 2017, , .		5
26	On Liapunov and Exponential Stability of Rossby-Haurwitz Waves in Invariant Sets of Perturbations. <i>Journal of Mathematical Fluid Mechanics</i> , 2018, 20, 1137-1154.	1.0	4
27	SPECTRAL STRUCTURE OF GROWING NORMAL MODES FOR EXACT SOLUTIONS TO THE BAROTROPIC VORTICITY EQUATION ON A SPHERE. , 2001, , .		4
28	Splitting-based schemes for numerical solution of nonlinear diffusion equations on a sphere. <i>Applied Mathematics and Computation</i> , 2013, 219, 8467-8485.	2.2	3
29	Role of forcing in large-time behavior of vorticity equation solutions on a sphere. <i>Atmosfera</i> , 2015, 28, 283-296.	0.8	3
30	Numerical Modelling of Nonlinear Diffusion Phenomena on a Sphere. <i>Advances in Intelligent Systems and Computing</i> , 2013, , 57-70.	0.6	2
31	Phenomena of Nonlinear Diffusion in Complex 3D Media. <i>Procedia Computer Science</i> , 2017, 108, 2383-2387.	2.0	2
32	Application of Adjoint Approach to Oil Spill Problems. <i>Environmental Modeling and Assessment</i> , 2017, 22, 379-395.	2.2	2
33	A numerical study of nonlinear diffusion phenomena in heterogeneous media: energy transfer at diverse blow-up modes and self-organisation processes. <i>European Physical Journal: Special Topics</i> , 2017, 226, 3303-3314.	2.6	2
34	An implicit direct unconditionally stable numerical algorithm for the solution of advection-diffusion equation on a sphere. <i>Applied Numerical Mathematics</i> , 2019, 142, 1-15.	2.1	2
35	Solution of the linear and nonlinear advection-diffusion problems on a sphere. <i>Numerical Methods for Partial Differential Equations</i> , 2020, 36, 1922-1937.	3.6	2
36	Modelling of Combustion and Diverse Blow-Up Regimes in a Spherical Shell. <i>Mathematics in Industry</i> , 2017, , 729-735.	0.3	2

#	ARTICLE	IF	CITATIONS
37	Simulation of soliton-like waves generated by topography with conservative fully discrete shallow-water arbitrary-order schemes. International Journal of Numerical Methods for Heat and Fluid Flow, 2009, 19, 982-1007.	2.8	1
38	Asymptotic behavior of solutions to barotropic vorticity equation on a sphere. Applied Mathematics and Nonlinear Sciences, 2020, 5, 229-238.	1.6	1
39	Nonlinear and linear instability of the Rossby-Haurwitz wave. Proceedings in Applied Mathematics and Mechanics, 2007, 7, 2100081-2100082.	0.2	0
40	Stability of Zonal Flows on a Sphere. IFAC-PapersOnLine, 2015, 48, 581-586.	0.9	0
41	Recuperación de la Tasa de Emisión de una Fuente Contaminante: Análisis de la Existencia, la Unicidad y la Estabilidad de las Soluciones. Informacion Tecnologica (discontinued), 2016, 27, 251-262.	0.3	0
42	Qualitative properties of solutions to vorticity equation for a viscous incompressible fluid on a rotating sphere. Zeitschrift Fur Angewandte Mathematik Und Physik, 2020, 71, 1.	1.4	0
43	Dinámica de las olas del tsunami. Revista Digital Universitaria, 2021, 22, .	0.0	0
44	A Strategy for Bioremediation of Marine Shorelines by Using Several Nutrient Release Points. The Reacting Atmosphere, 2015, , 23-55.	0.8	0
45	Dynamics of Ideal Fluid on a Sphere. , 2017, , 79-108.		0
46	Numerical Study of Linear Stability. , 2017, , 193-220.		0
47	Stability of Modons and Wu-Verkley Waves. , 2017, , 135-156.		0
48	Stability of Rossby-Haurwitz (RH) Waves. , 2017, , 109-133.		0
49	Solvability of Vorticity Equation on a Sphere. , 2017, , 43-77.		0
50	Linear and Nonlinear Stability of Flows. , 2017, , 157-192.		0
51	Application of Splitting Algorithm for Solving Advection-Diffusion Equation on a Sphere. Mathematics in Industry, 2019, , 285-290.	0.3	0
52	Optimal emission control and identification of an unknown pollution source. Journal of Physics: Conference Series, 2021, 2090, 012142.	0.4	0