

Sergey Zelik

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117
papers

2,348
citations

26
h-index

45
g-index

120
ext. papers

2,602
ext. citations

1.3
avg, IF

5.37
L-index

#	Paper	IF	Citations
117	Chapter 3 Attractors for Dissipative Partial Differential Equations in Bounded and Unbounded Domains. <i>Handbook of Differential Equations: Evolutionary Equations</i> , 2008 , 4, 103-200		158
116	Exponential attractors for a nonlinear reaction-diffusion system in. <i>Comptes Rendus Mathematique</i> , 2000 , 330, 713-718		118
115	The Cahn-Hilliard Equation with Logarithmic Potentials. <i>Milan Journal of Mathematics</i> , 2011 , 79, 561-596		112
114	Smooth attractors for strongly damped wave equations. <i>Nonlinearity</i> , 2006 , 19, 1495-1506	1.7	102
113	Robust exponential attractors for Cahn-Hilliard type equations with singular potentials. <i>Mathematical Methods in the Applied Sciences</i> , 2004 , 27, 545-582	2.3	102
112	Uniform exponential attractors for a singularly perturbed damped wave equation. <i>Discrete and Continuous Dynamical Systems</i> , 2003 , 10, 211-238	2	94
111	The attractor for a nonlinear reaction-diffusion system in an unbounded domain. <i>Communications on Pure and Applied Mathematics</i> , 2001 , 54, 625-688	2.5	89
110	Exponential attractors and finite-dimensional reduction for non-autonomous dynamical systems*. <i>Proceedings of the Royal Society of Edinburgh Section A: Mathematics</i> , 2005 , 135, 703-730	1	77
109	Exponential attractors for the Cahn-Hilliard equation with dynamic boundary conditions. <i>Mathematical Methods in the Applied Sciences</i> , 2005 , 28, 709-735	2.3	75
108	Exponential attractors for a singularly perturbed Cahn-Hilliard system. <i>Mathematische Nachrichten</i> , 2004 , 272, 11-31	0.8	64
107	Finite-dimensional attractors for the quasi-linear strongly-damped wave equation. <i>Journal of Differential Equations</i> , 2009 , 247, 1120-1155	2.1	62
106	Asymptotic regularity of solutions of a nonautonomous damped wave equation with a critical growth exponent. <i>Communications on Pure and Applied Analysis</i> , 2004 , 3, 921-934	1.9	62
105	A result on the existence of global attractors for semigroups of closed operators. <i>Communications on Pure and Applied Analysis</i> , 2007 , 6, 481-486	1.9	52
104	Attractors of reaction-diffusion systems in unbounded domains and their spatial complexity. <i>Communications on Pure and Applied Mathematics</i> , 2003 , 56, 584-637	2.5	51
103	Long-range interaction and synchronization of oscillating dissipative solitons. <i>Physical Review Letters</i> , 2012 , 108, 263906	7.4	50
102	On the 2D Cahn-Hilliard Equation with Inertial Term. <i>Communications in Partial Differential Equations</i> , 2009 , 34, 137-170	1.6	49
101	The Cahn-Hilliard equation with singular potentials and dynamic boundary conditions. <i>Discrete and Continuous Dynamical Systems</i> , 2010 , 28, 275-310	2	48

100	Smooth attractors for the Brinkman-Forchheimer equations with fast growing nonlinearities. <i>Communications on Pure and Applied Analysis</i> , 2012 , 11, 2037-2054	1.9	43
99	On the 3D Cahn-Hilliard equation with inertial term. <i>Journal of Evolution Equations</i> , 2009 , 9, 371-404	1.2	35
98	The attractor for a nonlinear hyperbolic equation in the unbounded domain. <i>Discrete and Continuous Dynamical Systems</i> , 2001 , 7, 593-641	2	33
97	Asymptotic regularity of solutions of singularly perturbed damped wave equations with supercritical nonlinearities. <i>Discrete and Continuous Dynamical Systems</i> , 2004 , 11, 351-392	2	33
96	Well-posedness and long time behavior of a parabolic-hyperbolic phase-field system with singular potentials. <i>Mathematische Nachrichten</i> , 2007 , 280, 1475-1509	0.8	32
95	SPATIALLY NONDECAYING SOLUTIONS OF THE 2D NAVIER-STOKES EQUATION IN A STRIP. <i>Glasgow Mathematical Journal</i> , 2007 , 49, 525-588	0.4	29
94	Inertial manifolds and finite-dimensional reduction for dissipative PDEs*. <i>Proceedings of the Royal Society of Edinburgh Section A: Mathematics</i> , 2014 , 144, 1245-1327	1	28
93	Existence and longtime behavior of a biofilm model. <i>Communications on Pure and Applied Analysis</i> , 2009 , 8, 509-531	1.9	28
92	A remark on the damped wave equation. <i>Communications on Pure and Applied Analysis</i> , 2006 , 5, 611-616	1.9	28
91	Trajectory and smooth attractors for Cahn-Hilliard equations with inertial term. <i>Nonlinearity</i> , 2010 , 23, 707-737	1.7	26
90	Chaotic bound state of localized structures in the complex Ginzburg-Landau equation. <i>Physical Review E</i> , 2007 , 75, 045601	2.4	26
89	Attractors for Semi-Linear Equations of Viscoelasticity with Very Low Dissipation. <i>Rocky Mountain Journal of Mathematics</i> , 2008 , 38,	1.4	25
88	On a generalized Cahn-Hilliard equation with biological applications. <i>Discrete and Continuous Dynamical Systems - Series B</i> , 2014 , 19, 2013-2026	1.3	25
87	Strong trajectory attractors for dissipative Euler equations. <i>Journal Des Mathematiques Pures Et Appliquees</i> , 2011 , 96, 395-407	1.7	24
86	Finite- and infinite-dimensional attractors for porous media equations. <i>Proceedings of the London Mathematical Society</i> , 2008 , 96, 51-77	1.2	23
85	Infinite Energy Solutions for Damped Navier-Stokes Equations in (\mathbb{R}^2) . <i>Journal of Mathematical Fluid Mechanics</i> , 2013 , 15, 717-745	1.4	22
84	Strong trajectory attractor for a dissipative reaction-diffusion system. <i>Doklady Mathematics</i> , 2010 , 82, 869-873	0.7	22
83	Attractors of the reaction-diffusion systems with rapidly oscillating coefficients and their homogenization. <i>Annales De L'Institut Henri Poincare (C) Analyse Non Lineaire</i> , 2002 , 19, 961-989	1.6	22

82	Attractors for Damped Quintic Wave Equations in Bounded Domains. <i>Annales Henri Poincare</i> , 2016 , 17, 2555-2584	1.2	22
81	On the strongly damped wave equation with memory. <i>Indiana University Mathematics Journal</i> , 2008 , 57, 757-780	0.6	21
80	Global and exponential attractors for 3-D wave equations with displacement dependent damping. <i>Mathematical Methods in the Applied Sciences</i> , 2006 , 29, 1291-1306	2.3	19
79	Finite-dimensional attractors and exponential attractors for degenerate doubly nonlinear equations. <i>Mathematical Methods in the Applied Sciences</i> , 2009 , 32, 1638-1668	2.3	17
78	Global averaging and parametric resonances in damped semilinear wave equations. <i>Proceedings of the Royal Society of Edinburgh Section A: Mathematics</i> , 2006 , 136, 1053-1097	1	17
77	Infinite dimensional exponential attractors for a nonautonomous reaction-diffusion system. <i>Mathematische Nachrichten</i> , 2003 , 248-249, 72-96	0.8	16
76	Asymptotic expansions and extremals for the critical Sobolev and Gagliardo-Nirenberg inequalities on a torus. <i>Proceedings of the Royal Society of Edinburgh Section A: Mathematics</i> , 2013 , 143, 445-482	1	14
75	Finite-dimensionality of attractors for degenerate equations of elliptic-parabolic type. <i>Nonlinearity</i> , 2007 , 20, 1773-1797	1.7	14
74	Continuous families of exponential attractors for singularly perturbed equations with memory. <i>Proceedings of the Royal Society of Edinburgh Section A: Mathematics</i> , 2010 , 140, 329-366	1	13
73	Spatial and Dynamical Chaos Generated by Reaction-Diffusion Systems in Unbounded Domains. <i>Journal of Dynamics and Differential Equations</i> , 2006 , 19, 1-74	1.3	13
72	Smooth attractors for the quintic wave equations with fractional damping. <i>Asymptotic Analysis</i> , 2014 , 87, 191-221	0.7	12
71	A Gronwall-type lemma with parameter and dissipative estimates for PDEs. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 2009 , 70, 2337-2343	1.3	12
70	Strong uniform attractors for non-autonomous dissipative PDEs with non translation-compact external forces. <i>Discrete and Continuous Dynamical Systems - Series B</i> , 2015 , 20, 781-810	1.3	12
69	Inertial manifolds for the 3D Cahn-Hilliard equations with periodic boundary conditions. <i>Communications on Pure and Applied Analysis</i> , 2015 , 14, 2069-2094	1.9	11
68	Regular attractors and nonautonomous perturbations of them. <i>Sbornik Mathematics</i> , 2013 , 204, 1-42	1	11
67	Doubly nonlinear Cahn-Hilliard-Gurtin equations. <i>Hokkaido Mathematical Journal</i> , 2009 , 38,	2.8	11
66	The trajectory attractor of a non-linear elliptic system in a cylindrical domain. <i>Sbornik Mathematics</i> , 1996 , 187, 1755-1789	1	10
65	Infinite-dimensional exponential attractors for nonlinear reaction-diffusion systems in unbounded domains and their approximation. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2004 , 460, 1107-1129	2.4	10

64	An attractor of a nonlinear system of reaction-diffusion equations in (\mathbb{R}^n) and estimates of its entropy and estimates of its entropy. <i>Mathematical Notes</i> , 1999 , 65, 790-793	0.5	10
63	Counterexamples to regularity of Maff projections in the theory of attractors. <i>Russian Mathematical Surveys</i> , 2013 , 68, 199-226	1.2	9
62	Global and exponential attractors for nonlinear reaction-diffusion systems in unbounded domains. <i>Proceedings of the Royal Society of Edinburgh Section A: Mathematics</i> , 2004 , 134, 271-315	1	9
61	Inertial manifolds for 1D reaction-diffusion-advection systems. Part I: Dirichlet and Neumann boundary conditions. <i>Communications on Pure and Applied Analysis</i> , 2017 , 16, 2357-2376	1.9	9
60	Upper bounds for the attractor dimension of damped Navier-Stokes equations in \mathbb{R}^2 . <i>Discrete and Continuous Dynamical Systems</i> , 2015 , 36, 2085-2102	2	9
59	Multi-pulse evolution and space-time chaos in dissipative systems. <i>Memoirs of the American Mathematical Society</i> , 2009 , 198, 0-0	1.5	9
58	One-Dimensional Interpolation Inequalities, Carlson-Landau Inequalities, and Magnetic Schrödinger Operators. <i>International Mathematics Research Notices</i> , 2016 , 2016, 1190-1222	0.8	8
57	Asymptotic uniform boundedness of energy solutions to the Penrose-Fife model. <i>Journal of Evolution Equations</i> , 2012 , 12, 863-890	1.2	8
56	Existence of solutions and separation from singularities for a class of fourth order degenerate parabolic equations. <i>Transactions of the American Mathematical Society</i> , 2012 , 365, 3799-3829	1	8
55	Weak Spatially Nondecaying Solutions of 3D Navier-Stokes Equations in Cylindrical Domains 2008 , 255-327		7
54	Recent progress in attractors for quintic wave equations. <i>Mathematica Bohemica</i> , 2014 , 139, 657-665		7
53	Large dispersion, averaging and attractors: three 1D paradigms. <i>Nonlinearity</i> , 2018 , 31, R317-R350	1.7	7
52	Infinite Energy Solutions for Dissipative Euler Equations in (\mathbb{R}^2) . <i>Journal of Mathematical Fluid Mechanics</i> , 2015 , 17, 513-532	1.4	6
51	Exponential attractors for random dynamical systems and applications. <i>Stochastics and Partial Differential Equations: Analysis and Computations</i> , 2013 , 1, 241-281	0.9	6
50	Analytical proof of space-time chaos in Ginzburg-Landau equations. <i>Discrete and Continuous Dynamical Systems</i> , 2010 , 28, 1713-1751	2	6
49	Infinite-Dimensional Hyperbolic Sets and Spatio-Temporal Chaos in Reaction Diffusion Systems in (\mathbb{R}^n) . <i>Journal of Dynamics and Differential Equations</i> , 2007 , 19, 333-389	1.3	6
48	Regular attractor for a non-linear elliptic system in a cylindrical domain. <i>Sbornik Mathematics</i> , 1999 , 190, 803-834	1	6
47	Green's function asymptotics and sharp interpolation inequalities. <i>Russian Mathematical Surveys</i> , 2014 , 69, 209-260	1.2	5

46	Infinite-energy solutions for the Cahn-Hilliard equation in cylindrical domains. <i>Mathematical Methods in the Applied Sciences</i> , 2014 , 37, 1884-1908	2.3	5
45	Infinite-energy solutions for the Navier-Stokes equations in a strip revisited. <i>Communications on Pure and Applied Analysis</i> , 2014 , 13, 1361-1393	1.9	5
44	Finite-dimensional global and exponential attractors for the reaction-diffusion problem with an obstacle potential. <i>Nonlinearity</i> , 2009 , 22, 2733-2760	1.7	5
43	Sharp dimension estimates of the attractor of the damped 2D Euler-Bardina equations 2021 , 209-229		5
42	Sharp upper and lower bounds of the attractor dimension for 3D damped Euler-Bardina equations. <i>Physica D: Nonlinear Phenomena</i> , 2022 , 432, 133156	3.3	4
41	Inertial manifolds for 1D reaction-diffusion-advection systems. Part II: periodic boundary conditions. <i>Communications on Pure and Applied Analysis</i> , 2018 , 17, 285-317	1.9	4
40	Global well-posedness and attractors for the hyperbolic Cahn-Hilliard-Ono equation in the whole space. <i>Mathematical Models and Methods in Applied Sciences</i> , 2016 , 26, 1357-1384	3.5	4
39	Vanishing viscosity limit for global attractors for the damped Navier-Stokes system with stress free boundary conditions. <i>Physica D: Nonlinear Phenomena</i> , 2018 , 376-377, 31-38	3.3	3
38	Hyperbolic relaxation of the 2D Navier-Stokes equations in a bounded domain. <i>Physica D: Nonlinear Phenomena</i> , 2018 , 376-377, 171-179	3.3	3
37	Finite dimensionality of the attractor for the hyperbolic Cahn-Hilliard-Ono equation in. <i>Mathematical Methods in the Applied Sciences</i> , 2016 , 39, 1254-1267	2.3	3
36	Degenerate Hyperbolic Conservation Laws with Dissipation: Reduction to and Validity of a Class of Burgers-Type Equations. <i>Archive for Rational Mechanics and Analysis</i> , 2014 , 214, 671-716	2.3	3
35	A note on a strongly damped wave equation with fast growing nonlinearities. <i>Journal of Mathematical Physics</i> , 2015 , 56, 011501	1.2	3
34	Global well-posedness in uniformly local spaces for the Cahn-Hilliard equation in \mathbb{R}^3 . <i>Communications on Pure and Applied Analysis</i> , 2012 , 12, 461-480	1.9	3
33	Global solvability and blow up for the convective Cahn-Hilliard equations with concave potentials. <i>Journal of Mathematical Physics</i> , 2013 , 54, 041502	1.2	3
32	The long-time behaviour of the thermoconvective flow in a porous medium. <i>Mathematical Methods in the Applied Sciences</i> , 2004 , 27, 907-930	2.3	3
31	Classification of positive solutions of semilinear elliptic equations. <i>Comptes Rendus Mathematique</i> , 2004 , 338, 7-11	0.4	3
30	The attractor of a quasilinear hyperbolic equation with dissipation in \mathbb{R}^n : Dimension and Entropy. <i>Mathematical Notes</i> , 2000 , 67, 248-251	0.5	3
29	Inertial manifolds for the hyperbolic relaxation of semilinear parabolic equations. <i>Discrete and Continuous Dynamical Systems - Series B</i> , 2019 , 24, 1115-1142	1.3	3

28	On the vanishing-viscosity limit in parabolic systems with rate-independent dissipation terms. <i>Annali Della Scuola Normale Superiore Di Pisa Classe Di Scienze</i> , 2014 , 67-135	0.9	3
27	Uniform attractors for measure-driven quintic wave equations. <i>Russian Mathematical Surveys</i> , 2020 , 75, 253-320	1.2	2
26	Homoclinic bifurcations and dimension of attractors for damped nonlinear hyperbolic equations. <i>Nonlinearity</i> , 2003 , 16, 2163-2198	1.7	2
25	A trajectory attractor of a nonlinear elliptic system in an unbounded domain. <i>Mathematical Notes</i> , 1996 , 63, 120-123	0.5	2
24	Strong trajectory and global $\mathbf{W}^{1,p}$ -attractors for the damped-driven Euler system in \mathbb{R}^2 . <i>Discrete and Continuous Dynamical Systems - Series B</i> , 2017 , 22, 1835-1855	1.3	2
23	Validity of the hyperbolic Whitham modulation equations in Sobolev spaces. <i>Journal of Differential Equations</i> , 2021 , 274, 971-995	2.1	2
22	Computing Interacting Multi-fronts in One Dimensional Real Ginzburg Landau Equations. <i>Journal of Scientific Computing</i> , 2015 , 63, 799-819	2.3	1
21	Attractors for the nonlinear elliptic boundary value problems and their parabolic singular limit. <i>Communications on Pure and Applied Analysis</i> , 2014 , 13, 2059-2093	1.9	1
20	Regular attractors of autonomous and nonautonomous dynamical systems. <i>Doklady Mathematics</i> , 2014 , 89, 92-97	0.7	1
19	The mathieu-hill operator equation with dissipation and estimates of its instability index. <i>Mathematical Notes</i> , 1997 , 61, 451-464	0.5	1
18	Boundedness of the solutions of a nonlinear elliptic system in a cylindrical domain. <i>Mathematical Notes</i> , 1997 , 61, 365-369	0.5	1
17	Inertial Manifolds via Spatial Averaging Revisited. <i>SIAM Journal on Mathematical Analysis</i> , 2022 , 54, 268-305		1
16	Sharp Dimension Estimates for the Attractors of the Regularized Damped Euler System. <i>Doklady Mathematics</i> , 2021 , 104, 169-172	0.7	1
15	Lieb-Thirring constant on the sphere and on the torus. <i>Journal of Functional Analysis</i> , 2020 , 279, 108784	1.4	1
14	On a singular heat equation with dynamic boundary conditions. <i>Asymptotic Analysis</i> , 2016 , 97, 27-59	0.7	1
13	On the Lieb-Thirring Constant on the Torus. <i>Mathematical Notes</i> , 2019 , 106, 1019-1023	0.5	1
12	Kwak Transform and Inertial Manifolds revisited. <i>Journal of Dynamics and Differential Equations</i> , 1	1.3	1
11	Infinite energy solutions for weakly damped quintic wave equations in \mathbb{R}^1 . <i>Transactions of the American Mathematical Society</i> , 2021 , 374, 3093-3129	1	0

10	Asymptotic Regularity and Attractors for Slightly Compressible Brinkman-Ericksen Equations. <i>Applied Mathematics and Optimization</i> , 2021 , 84, 3137-3171	1.5	0
9	Applications of the Lieb-Thirring and other bounds for orthonormal systems in mathematical hydrodynamics 2022 , 583-608		0
8	Sharp interpolation inequalities for discrete operators and applications. <i>Bulletin of Mathematical Sciences</i> , 2015 , 5, 19-57	0.9	
7	Sharp interpolation inequalities for discrete operators. <i>Doklady Mathematics</i> , 2015 , 91, 215-219	0.7	
6	Preventing Blow up by Convective Terms in Dissipative PDEs. <i>Journal of Mathematical Fluid Mechanics</i> , 2016 , 18, 463-479	1.4	
5	Energy growth for a nonlinear oscillator coupled to a monochromatic wave. <i>Regular and Chaotic Dynamics</i> , 2014 , 19, 513-522	1.6	
4	Almost-periodic solutions of a class of linear hyperbolic equations. <i>Mathematical Notes</i> , 1994 , 56, 865-868	0.5	
3	Cesaro summation by spheres of lattice sums and Madelung constants. <i>Communications on Pure and Applied Analysis</i> , 2021 , 20, 4195	1.9	
2	Reaction-diffusion systems with supercritical nonlinearities revisited. <i>Mathematische Annalen</i> , 2011 , 349, 111-127	1	
1	Trajectory attractors for 3D damped Euler equations and their approximation. <i>Discrete and Continuous Dynamical Systems - Series S</i> , 2022 , 15(1), 1-15	2.8	