

Andrej ZlatoÅ¡

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7497045/publications.pdf>

Version: 2024-02-01

46
papers

1,266
citations

331670

21
h-index

361022

35
g-index

47
all docs

47
docs citations

47
times ranked

400
citing authors

#	ARTICLE	IF	CITATIONS
1	Diffusion and mixing in fluid flow. <i>Annals of Mathematics</i> , 2008, 168, 643-674.	4.2	149
2	Sharp transition between extinction and propagation of reaction. <i>Journal of the American Mathematical Society</i> , 2005, 19, 251-263.	3.9	82
3	On divergence-free drifts. <i>Journal of Differential Equations</i> , 2012, 252, 505-540.	2.2	73
4	Finite time singularity for the modified SQG patch equation. <i>Annals of Mathematics</i> , 2016, 184, 909-948.	4.2	68
5	Existence and Non-Existence of Fisher-KPP Transition Fronts. <i>Archive for Rational Mechanics and Analysis</i> , 2012, 203, 217-246.	2.4	61
6	Transition fronts in inhomogeneous Fisher-KPP reaction-diffusion equations. <i>Journal Des Mathematiques Pures Et Appliquees</i> , 2012, 98, 89-102.	1.6	60
7	Exponential growth of the vorticity gradient for the Euler equation on the torus. <i>Advances in Mathematics</i> , 2015, 268, 396-403.	1.1	51
8	KPP pulsating front speed-up by flows. <i>Communications in Mathematical Sciences</i> , 2007, 5, 575-593.	1.0	43
9	Mixing and un-mixing by incompressible flows. <i>Journal of the European Mathematical Society</i> , 2017, 19, 1911-1948.	1.4	42
10	Generalized Traveling Waves in Disordered Media: Existence, Uniqueness, and Stability. <i>Archive for Rational Mechanics and Analysis</i> , 2013, 208, 447-480.	2.4	40
11	Sum Rules and the Szegő Condition for Orthogonal Polynomials on the Real Line. <i>Communications in Mathematical Physics</i> , 2003, 242, 393-423.	2.2	39
12	On the Loss of Continuity for Super-Critical Drift-Diffusion Equations. <i>Archive for Rational Mechanics and Analysis</i> , 2013, 207, 845-877.	2.4	37
13	Local Regularity for the Modified SQG Patch Equation. <i>Communications on Pure and Applied Mathematics</i> , 2017, 70, 1253-1315.	3.1	35
14	Diffusion in Fluid Flow: Dissipation Enhancement by Flows in 2D. <i>Communications in Partial Differential Equations</i> , 2010, 35, 496-534.	2.2	34
15	Higher-order Szegő theorems with two singular points. <i>Journal of Approximation Theory</i> , 2005, 134, 114-129.	0.8	32
16	Coefficients of Orthogonal Polynomials on the Unit Circle and Higher-Order Szegő Theorems. <i>Constructive Approximation</i> , 2007, 26, 361-382.	3.0	31
17	Sharp Asymptotics for KPP Pulsating Front Speed-Up and Diffusion Enhancement by Flows. <i>Archive for Rational Mechanics and Analysis</i> , 2010, 195, 441-453.	2.4	31
18	Title is missing!. <i>International Mathematics Research Notices</i> , 2005, 2005, 2315.	1.0	29

#	ARTICLE	IF	CITATIONS
19	Universal mixers in all dimensions. <i>Advances in Mathematics</i> , 2019, 356, 106807.	1.1	29
20	Quenching of combustion by shear flows. <i>Duke Mathematical Journal</i> , 2006, 132, 49.	1.5	23
21	Existence and non-existence of transition fronts for bistable and ignition reactions. <i>Annales De L'Institut Henri Poincare (C) Analyse Non Lineaire</i> , 2017, 34, 1687-1705.	1.4	23
22	Quenching and propagation of combustion without ignition temperature cutoff. <i>Nonlinearity</i> , 2005, 18, 1463-1475.	1.4	22
23	Convection-induced singularity suppression in the Keller-Segel and other non-linear PDEs. <i>Transactions of the American Mathematical Society</i> , 2021, 374, 6039-6058.	0.9	21
24	Sparse potentials with fractional Hausdorff dimension. <i>Journal of Functional Analysis</i> , 2004, 207, 216-252.	1.4	20
25	Transition fronts for inhomogeneous monostable reaction-diffusion equations via linearization at zero. <i>Nonlinearity</i> , 2014, 27, 2409-2416.	1.4	17
26	A note on stability shifting for the Muskat problem, II: From stable to unstable and back to stable. <i>Analysis and PDE</i> , 2017, 10, 367-378.	1.4	17
27	Reaction-diffusion front speed enhancement by flows. <i>Annales De L'Institut Henri Poincare (C) Analyse Non Lineaire</i> , 2011, 28, 711-726.	1.4	16
28	Blow up for the 2D Euler equation on some bounded domains. <i>Journal of Differential Equations</i> , 2015, 259, 3490-3494.	2.2	15
29	Propagation of Reactions in Inhomogeneous Media. <i>Communications on Pure and Applied Mathematics</i> , 2017, 70, 884-949.	3.1	15
30	Exit Times of Diffusions with Incompressible Drift. <i>SIAM Journal on Mathematical Analysis</i> , 2010, 42, 2484-2498.	1.9	14
31	A note on stability shifting for the Muskat problem. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2015, 373, 20140278.	3.4	14
32	Pulsating front speed-up and quenching of reaction by fast advection. <i>Nonlinearity</i> , 2007, 20, 2907-2921.	1.4	12
33	Speed-up of combustion fronts in shear flows. <i>Mathematische Annalen</i> , 2013, 356, 845-867.	1.4	10
34	On the high intensity limit of interacting corpora. <i>Communications in Mathematical Sciences</i> , 2010, 8, 173-186.	1.0	10
35	Periodic Orbits of the ABC Flow with $A=B=C=1$. <i>SIAM Journal on Mathematical Analysis</i> , 2016, 48, 4087-4093.	1.9	9
36	Sum rules for Jacobi matrices and divergent Lieb-Thirring sums. <i>Journal of Functional Analysis</i> , 2005, 225, 371-382.	1.4	8

#	ARTICLE	IF	CITATIONS
37	Stochastic Homogenization for Reaction-Diffusion Equations. Archive for Rational Mechanics and Analysis, 2019, 232, 813-871.	2.4	7
38	The Euler Equations in Planar Domains with Corners. Archive for Rational Mechanics and Analysis, 2019, 234, 57-79.	2.4	6
39	Ballistic Orbits and Front Speed Enhancement for ABC Flows. SIAM Journal on Applied Dynamical Systems, 2016, 15, 1753-1782.	1.6	5
40	Long Time Dynamics for Combustion in Random Media. Archive for Rational Mechanics and Analysis, 2022, 243, 33-94.	2.4	5
41	The Szegő condition for Coulomb Jacobi matrices. Journal of Approximation Theory, 2003, 121, 119-142.	0.8	3
42	On the Rate of Merging of Vorticity Level Sets for the 2D Euler Equations. Journal of Nonlinear Science, 2018, 28, 2329-2341.	2.1	2
43	Euler Equations on General Planar Domains. Annals of PDE, 2021, 7, 1.	1.8	2
44	On the fast spreading scenario. Communications of the American Mathematical Society, 2022, 2, 149-171.	2.2	2
45	The Harnack Inequality for a Class of Degenerate Elliptic Operators. International Mathematics Research Notices, 2013, 2013, 3732-3743.	1.0	1
46	Multidimensional transition fronts for Fisher-KPP reactions. Nonlinearity, 2019, 32, 927-941.	1.4	1