

# Dmitry Vorotnikov

## List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Partial Differential Equations with Quadratic Nonlinearities Viewed as Matrix-Valued Optimal Ballistic Transport Problems. <i>Archive for Rational Mechanics and Analysis</i> , 2022, 243, 1653.	2.4	0
2	The Schrödinger problem on the non-commutative Fisher-Rao space. <i>Calculus of Variations and Partial Differential Equations</i> , 2021, 60, 1.	1.7	3
3	Convex Sobolev inequalities related to unbalanced optimal transport. <i>Journal of Differential Equations</i> , 2020, 268, 3705-3724.	2.2	2
4	Nonlinear Fokker-Planck equations with reaction as gradient flows of the free energy. <i>Journal of Functional Analysis</i> , 2020, 278, 108310.	1.4	2
5	On Optimal Transport of Matrix-Valued Measures. <i>SIAM Journal on Mathematical Analysis</i> , 2020, 52, 2849-2873.	1.9	10
6	Spherical Hellinger-Kantorovich Gradient Flows. <i>SIAM Journal on Mathematical Analysis</i> , 2019, 51, 2053-2084.	1.9	9
7	The gradient flow of the potential energy on the space of arcs. <i>Calculus of Variations and Partial Differential Equations</i> , 2019, 58, 1.	1.7	3
8	Uniformly Compressing Mean Curvature Flow. <i>Journal of Geometric Analysis</i> , 2019, 29, 3055-3097.	1.0	3
9	On time adaptive critical variable exponent vectorial diffusion flows and their applications in image processing I: Analysis. <i>Nonlinear Analysis: Theory, Methods &amp; Applications</i> , 2018, 168, 176-197.	1.1	3
10	Generalized solutions for inextensible string equations. <i>Journal of Differential Equations</i> , 2017, 262, 3610-3641.	2.2	4
11	A new multicomponent Poincaré-Beckner inequality. <i>Journal of Functional Analysis</i> , 2017, 272, 3281-3310.	1.4	4
12	On the Bulk Velocity of Brownian Ratchets. <i>SIAM Journal on Mathematical Analysis</i> , 2016, 48, 950-980.	1.9	0
13	A fitness-driven cross-diffusion system from population dynamics as a gradient flow. <i>Journal of Differential Equations</i> , 2016, 261, 2784-2808.	2.2	12
14	Analysis of adaptive forward-backward diffusion flows with applications in image processing. <i>Inverse Problems</i> , 2015, 31, 105008.	2.0	14
15	Multiscale Tikhonov-Total Variation Image Restoration Using Spatially Varying Edge Coherence Exponent. <i>IEEE Transactions on Image Processing</i> , 2015, 24, 5220-5235.	9.8	64
16	Analytical aspects of the Brownian motor effect in randomly flashing ratchets. <i>Journal of Mathematical Biology</i> , 2014, 68, 1677-1705.	1.9	6
17	Global generalized solutions for Maxwell-alpha and Euler-alpha equations. <i>Nonlinearity</i> , 2012, 25, 309-327.	1.4	14
18	The flashing ratchet and unidirectional transport of matter. <i>Discrete and Continuous Dynamical Systems - Series B</i> , 2011, 16, 963-971.	0.9	3