Dmitry Vorotnikov

List of Publications by Year
in descending order

		1478505	1199594
18 papers	**156** citations	**6** h-index	**12** g-index
18 all docs	**18** docs citations	**18** times ranked	**98** citing authors

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