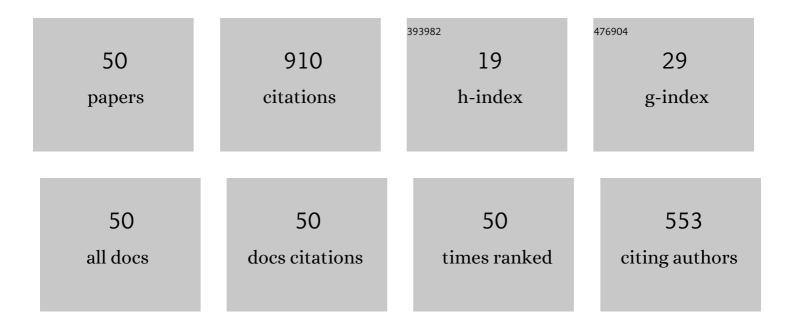
Valeriy Slastikov

List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Another Thin-Film Limit of Micromagnetics. Archive for Rational Mechanics and Analysis, 2005, 178, 227-245. | 1.1 | 95 |
| 2 | Critical points of the Onsager functional on a sphere. Nonlinearity, 2005, 18, 2565-2580. | 0.6 | 73 |
| 3 | Stability of the Melting Hedgehog in the Landau–de Gennes Theory of Nematic Liquid Crystals. Archive for Rational Mechanics and Analysis, 2015, 215, 633-673. | 1.1 | 49 |
| 4 | Reduced models for ferromagnetic nanowires. IMA Journal of Applied Mathematics, 2012, 77, 220-235. | 0.8 | 46 |
| 5 | Effective dynamics for ferromagnetic thin films: a rigorous justification. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2005, 461, 143-154. | 1.0 | 40 |
| 6 | Magnetization in narrow ribbons: curvature effects. Journal of Physics A: Mathematical and Theoretical, 2017, 50, 385401. | 0.7 | 40 |
| 7 | Surfactants in Foam Stability: A Phase-Field Model. Archive for Rational Mechanics and Analysis, 2007, 183, 411-456. | 1.1 | 38 |
| 8 | MICROMAGNETICS OF THIN SHELLS. Mathematical Models and Methods in Applied Sciences, 2005, 15, 1469-1487. | 1.7 | 33 |
| 9 | Variational Principles of Micromagnetics Revisited. SIAM Journal on Mathematical Analysis, 2020, 52, 3580-3599. | 0.9 | 29 |
| 10 | Domain-Wall Motion in Ferromagnetic Nanowires Driven by Arbitrary Time-Dependent Fields: An Exact Result. Physical Review Letters, 2010, 104, 147202. | 2.9 | 26 |
| 11 | Domain wall motion in magnetic nanowires: an asymptotic approach. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2013, 469, 20130308. | 1.0 | 25 |
| 12 | Instability of point defects in a two-dimensional nematic liquid crystal model. Annales De L'Institut Henri Poincare (C) Analyse Non Lineaire, 2016, 33, 1131-1152. | 0.7 | 25 |
| 13 | Half-Integer Point Defects in the Q-Tensor Theory of Nematic Liquid Crystals. Journal of Nonlinear Science, 2016, 26, 121-140. | 1.0 | 25 |
| 14 | Uniqueness Results for an ODE Related to a Generalized GinzburgLandau Model for Liquid Crystals. SIAM Journal on Mathematical Analysis, 2014, 46, 3390-3425. | 0.9 | 24 |
| 15 | Stability of point defects of degree \$\$pm rac{1}{2}\$\$ ± 1 2 in a two-dimensional nematic liquid crystal model. Calculus of Variations and Partial Differential Equations, 2016, 55, 1. | 0.9 | 24 |
| 16 | Engineering Curvature-Induced Anisotropy in Thin Ferromagnetic Films. Physical Review Letters, 2017, 119, 077203. | 2.9 | 24 |
| 17 | Theory of the Dzyaloshinskii domain-wall tilt in ferromagnetic nanostrips. Physical Review B, 2017, 96, | 1.1 | 24 |
| 18 | A Note on the Onsager Model of Nematic Phase Transitions. Communications in Mathematical | 0.5 | 24 |

Sciences, 2005, 3, 21-26.

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| # | Article | IF | CITATIONS |
|----|--|-----------|-----------|
| 19 | Liquid crystal defects in the Landau–de Gennes theory in two dimensions — Beyond the one-constant approximation. Mathematical Models and Methods in Applied Sciences, 2016, 26, 2769-2808. | 1.7 | 20 |
| 20 | Domain structure of ultrathin ferromagnetic elements in the presence of Dzyaloshinskii–Moriya interaction. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2017, 473, 20160666. | 1.0 | 20 |
| 21 | Fast domain-wall propagation in uniaxial nanowires with transverse fields. Physical Review B, 2013, 88, | 1.1 | 19 |
| 22 | Dzyaloshinskii-Moriya domain walls in magnetic nanotubes. Physical Review B, 2016, 93, . | 1.1 | 19 |
| 23 | Walker solution for Dzyaloshinskii domain wall in ultrathin ferromagnetic films. Physical Review B, 2019, 99, . | 1.1 | 15 |
| 24 | Stability of the vortex defect in the Landau–de Gennes theory for nematic liquid crystals. Comptes Rendus Mathematique, 2013, 351, 533-537. | 0.1 | 13 |
| 25 | Chiral magnetism: a geometric perspective. SciPost Physics, 2021, 10, . | 1.5 | 12 |
| 26 | On spatial variations of nematic ordering. Physica D: Nonlinear Phenomena, 2008, 237, 2577-2586. | 1.3 | 11 |
| 27 | Stability of precessing domain walls in ferromagnetic nanowires. Physical Review B, 2011, 84, . | 1.1 | 11 |
| 28 | Domain wall motion in thin ferromagnetic nanotubes: Analytic results. Europhysics Letters, 2014, 105, 67006. | 0.7 | 11 |
| 29 | On a Sharp Poincaré-Type Inequality on the 2-Sphere and its Application in Micromagnetics. SIAM Journal on Mathematical Analysis, 2019, 51, 3373-3387. | 0.9 | 11 |
| 30 | Vortices in two-dimensional nematics. Communications in Mathematical Sciences, 2009, 7, 917-938. | 0.5 | 11 |
| 31 | On the uniqueness of minimisers of Ginzburg-Landau functionals. Annales Scientifiques De L'Ecole Normale Superieure, 2020, 53, 589-613. | 0.2 | 9 |
| 32 | Landau-de Gennes Corrections to the Oseen-Frank Theory of Nematic Liquid Crystals. Archive for Rational Mechanics and Analysis, 2020, 236, 1089-1125. | 1.1 | 8 |
| 33 | Symmetry and Multiplicity of Solutions in a Two-Dimensional Landau–de Gennes Model for Liquid Crystals. Archive for Rational Mechanics and Analysis, 2020, 237, 1421-1473. | 1.1 | 8 |
| 34 | Geometrically constrained walls. Calculus of Variations and Partial Differential Equations, 2006, 28, 33-57. | 0.9 | 7 |
| 35 | Uniqueness of degree-one Ginzburg–Landau vortex in the unit ball in dimensions N ≥ 7. Comptes Rend Mathematique, 2018, 356, 922-926. | us 0.1 | 6 |
| 36 | Reduced Models for Ferromagnetic Thin Films with Periodic Surface Roughness. Journal of Nonlinear Science, 2018, 28, 513-542. | 1.0 | 5 |

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| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Dynamic cohesive fracture: Models and analysis. Mathematical Models and Methods in Applied Sciences, 2014, 24, 1857-1875. | 1.7 | 4 |
| 38 | Limit Shapes for Gibbs Ensembles of Partitions. Journal of Statistical Physics, 2018, 172, 1545-1563. | 0.5 | 4 |
| 39 | One-dimensional in-plane edge domain walls in ultrathin ferromagnetic films. Nonlinearity, 2018, 31, 728-754. | 0.6 | 4 |
| 40 | A note on configurational anisotropy. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2010, 466, 3167-3179. | 1.0 | 3 |
| 41 | Geometrically Constrained Walls in Two Dimensions. Archive for Rational Mechanics and Analysis, 2012, 203, 621-692. | 1.1 | 3 |
| 42 | Edge Domain Walls in Ultrathin Exchange-Biased Films. Journal of Nonlinear Science, 2020, 30, 1165-1205. | 1.0 | 3 |
| 43 | Symmetry Properties of Minimizers of a Perturbed Dirichlet Energy with a Boundary Penalization. SIAM Journal on Mathematical Analysis, 2022, 54, 3636-3653. | 0.9 | 3 |
| 44 | An estimate of the blow-up of Lebesgue norms in the non-tempered case. Journal of Mathematical Analysis and Applications, 2021, 493, 124550. | 0.5 | 2 |
| 45 | Geometrically induced phase transitions in two-dimensional dumbbell-shaped domains. Journal of Differential Equations, 2015, 259, 1560-1605. | 1.1 | 1 |
| 46 | Dynamics of ferromagnetic domain walls under extreme fields. Physical Review B, 2020, 101, . | 1.1 | 1 |
| 47 | Topics in the mathematical design of materials. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2021, 379, 20200108. | 1.6 | 1 |
| 48 | Domain walls in the coupled Gross–Pitaevskii equations with the harmonic potential. Calculus of Variations and Partial Differential Equations, 2022, 61, . | 0.9 | 1 |
| 49 | Existence of travelling-wave solutions representing domain wall motion in a thin ferromagnetic nanowire. Proceedings of the Royal Society of Edinburgh Section A: Mathematics, 2018, 148, 395-407. | 0.8 | Ο |
| 50 | Diffusive transport in two-dimensional nematics. Discrete and Continuous Dynamical Systems - Series S, 2015, 8, 323-340. | 0.6 | 0 |