

Xing-Bin Pan

List of Publications by Year in descending order

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68
papers

1,052
citations

430874

18
h-index

454955

30
g-index

69
all docs

69
docs citations

69
times ranked

186
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Divâ€Curl System with Potential and Maxwellâ€Stokes System with Natural Boundary Condition. Journal of Dynamics and Differential Equations, 2022, 34, 1769-1821. | 1.9 | 3 |
| 2 | The general magneto-static model and Maxwell-Stokes system with topological parameters. Journal of Differential Equations, 2021, 270, 1079-1137. | 2.2 | 5 |
| 3 | Long time behavior and field-induced instabilities of smectic liquid crystals. Journal of Functional Analysis, 2021, 281, 109036. | 1.4 | 0 |
| 4 | Regularity of a parabolic system involving curl. Journal of Elliptic and Parabolic Equations, 2021, 7, 923-944. | 0.9 | 0 |
| 5 | On a Quasilinear Parabolic Curl System Motivated by Time Evolution of Meissner States of Superconductors. SIAM Journal on Mathematical Analysis, 2021, 53, 6471-6516. | 1.9 | 1 |
| 6 | Oscillatory patterns in the Ginzburg-Landau model driven by the Aharonov-Bohm potential. Journal of Functional Analysis, 2020, 279, 108718. | 1.4 | 6 |
| 7 | Maxwellâ€Stokes system with L^2 boundary data and Divâ€Curl system with potential. SN Partial Differential Equations and Applications, 2020, 1, 1. | 0.6 | 3 |
| 8 | Professor Dajun Guo: a true mathematician and educator. SN Partial Differential Equations and Applications, 2020, 1, 1. | 0.6 | 0 |
| 9 | Editorial of the special issue for the 70th birthday of Michel Chipot. Journal of Elliptic and Parabolic Equations, 2020, 6, 1-3. | 0.9 | 0 |
| 10 | Anisotropic nematic liquid crystals in an applied magnetic field. Nonlinearity, 2020, 33, 2035-2076. | 1.4 | 3 |
| 11 | Singular limits of anisotropic Ginzburg-Landau functional. Journal of Elliptic and Parabolic Equations, 2020, 6, 27-54. | 0.9 | 0 |
| 12 | Variational and operator methods for Maxwell-Stokes system. Discrete and Continuous Dynamical Systems, 2020, 40, 3909-3955. | 0.9 | 8 |
| 13 | Existence and regularity of weak solutions for a thermoelectric model. Nonlinearity, 2019, 32, 3342-3366. | 1.4 | 2 |
| 14 | Superconductivity and the Aharonovâ€Bohm effect. Comptes Rendus Mathematique, 2019, 357, 216-220. | 0.3 | 8 |
| 15 | Concentration Behavior and Lattice Structure of 3D Surface Superconductivity in the Half Space. Mathematical Physics Analysis and Geometry, 2019, 22, 1. | 1.0 | 4 |
| 16 | Quasilinear systems involving curl. Proceedings of the Royal Society of Edinburgh Section A: Mathematics, 2018, 148, 243-279. | 1.2 | 4 |
| 17 | Existence of surface smectic states of liquid crystals. Journal of Functional Analysis, 2018, 274, 900-958. | 1.4 | 3 |
| 18 | Meissner states of type II superconductors. Journal of Elliptic and Parabolic Equations, 2018, 4, 441-523. | 0.9 | 5 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Mixed Normal-Superconducting States in the Presence of Strong Electric Currents. Archive for Rational Mechanics and Analysis, 2017, 223, 419-462. | 2.4 | 4 |
| 20 | Directional curl spaces and applications to the Meissner states of anisotropic superconductors. Journal of Mathematical Physics, 2017, 58, . | 1.1 | 3 |
| 21 | Existence and regularity of solutions to quasilinear systems of Maxwell type and Maxwell-Stokes type. Calculus of Variations and Partial Differential Equations, 2016, 55, 1. | 1.7 | 15 |
| 22 | Regularity of weak solutions to nonlinear Maxwell systems. Journal of Mathematical Physics, 2015, 56, . | 1.1 | 10 |
| 23 | Partial Sobolev spaces and anisotropic smectic liquid crystals. Calculus of Variations and Partial Differential Equations, 2014, 51, 963-998. | 1.7 | 3 |
| 24 | An extended magnetostatic Born-Infeld model with a concave lower order term. Journal of Mathematical Physics, 2013, 54, . | 1.1 | 5 |
| 25 | Functionals with Operator Curl in an Extended Magnetostatic Born-Infeld Model. SIAM Journal on Mathematical Analysis, 2013, 45, 2253-2284. | 1.9 | 9 |
| 26 | Superconductivity near the normal state in a half-plane under the action of a perpendicular electric current and an induced magnetic field. Transactions of the American Mathematical Society, 2012, 365, 1183-1217. | 0.9 | 11 |
| 27 | Superconductivity near the Normal State in A Half-Plane under the Action of A Perpendicular Electric Current and an Induced Magnetic Field, Part II: The Large Conductivity Limit. SIAM Journal on Mathematical Analysis, 2012, 44, 3671-3733. | 1.9 | 9 |
| 28 | Phase transition for potentials of high-dimensional wells. Communications on Pure and Applied Mathematics, 2012, 65, 833-888. | 3.1 | 19 |
| 29 | Asymptotics of solutions of a quasilinear system involving curl. Journal of Mathematical Physics, 2011, 52, . | 1.1 | 6 |
| 30 | On a quasilinear system arising in the theory of superconductivity. Proceedings of the Royal Society of Edinburgh Section A: Mathematics, 2011, 141, 397-407. | 1.2 | 9 |
| 31 | Superconductivity Near the Normal State Under the Action of Electric Currents and Induced Magnetic Fields in \mathbb{R}^2 . Communications in Mathematical Physics, 2010, 300, 147-184. | 2.2 | 18 |
| 32 | Minimizing curl in a multiconnected domain. Journal of Mathematical Physics, 2009, 50, . | 1.1 | 14 |
| 33 | On a quasilinear system involving the operator curl. Calculus of Variations and Partial Differential Equations, 2009, 36, 317-342. | 1.7 | 19 |
| 34 | An eigenvalue variation problem of magnetic Schrödinger operator in three dimensions. Discrete and Continuous Dynamical Systems, 2009, 24, 933-978. | 0.9 | 1 |
| 35 | Critical Elastic Coefficient of Liquid Crystals and Hysteresis. Communications in Mathematical Physics, 2008, 280, 77-121. | 2.2 | 4 |
| 36 | Reduced Landau-de Gennes functional and surface smectic state of liquid crystals. Journal of Functional Analysis, 2008, 255, 3008-3069. | 1.4 | 9 |

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|----|--|-----|-----------|
| 37 | Nodal sets of solutions of equations involving magnetic Schrödinger operator in three dimensions. Journal of Mathematical Physics, 2007, 48, 053521. | 1.1 | 3 |
| 38 | Nucleation of Instability of the Meissner State of 3-Dimensional Superconductors. Communications in Mathematical Physics, 2007, 276, 571-610. | 2.2 | 30 |
| 39 | Landau-de Gennes Model of Liquid Crystals with Small Ginzburg-Landau Parameter. SIAM Journal on Mathematical Analysis, 2006, 37, 1616-1648. | 1.9 | 6 |
| 40 | Surface superconductivity in $3\mathbb{S}$ dimensions. Transactions of the American Mathematical Society, 2004, 356, 3899-3937. | 0.9 | 25 |
| 41 | Landau-de Gennes Model of Liquid Crystals and Critical Wave Number. Communications in Mathematical Physics, 2003, 239, 343-382. | 2.2 | 24 |
| 42 | Upper critical field and location of surface nucleation of superconductivity. Annales De L'Institut Henri Poincare (C) Analyse Non Lineaire, 2003, 20, 145-181. | 1.4 | 47 |
| 43 | Superconducting Films in Perpendicular Fields and the Effect of the de Gennes Parameter. SIAM Journal on Mathematical Analysis, 2003, 34, 957-991. | 1.9 | 7 |
| 44 | Superconductivity near critical temperature. Journal of Mathematical Physics, 2003, 44, 2639. | 1.1 | 10 |
| 45 | Schrödinger operators with non-degenerately vanishing magnetic fields in bounded domains. Transactions of the American Mathematical Society, 2002, 354, 4201-4227. | 0.9 | 42 |
| 46 | On a Problem Related to Vortex Nucleation of Superconductivity. Journal of Differential Equations, 2002, 182, 141-168. | 2.2 | 14 |
| 47 | Surface Superconductivity in Applied Magnetic Fields Above $H_C 2$. Communications in Mathematical Physics, 2002, 228, 327-370. | 2.2 | 56 |
| 48 | Upper critical field for superconductors with edges and corners. Calculus of Variations and Partial Differential Equations, 2002, 14, 447-482. | 1.7 | 28 |
| 49 | GINZBURG-LANDAU SYSTEM AND SUPERCONDUCTIVITY NEAR CRITICAL TEMPERATURE. , 2002, , . | | 0 |
| 50 | Ginzburg-Landau system and surface nucleation of superconductivity. Methods and Applications of Analysis, 2001, 8, 279-300. | 0.5 | 3 |
| 51 | Surface Nucleation of Superconductivity in 3-Dimensions. Journal of Differential Equations, 2000, 168, 386-452. | 2.2 | 62 |
| 52 | Asymptotics of minimizers of variational problems involving curl functional. Journal of Mathematical Physics, 2000, 41, 5033-5063. | 1.1 | 13 |
| 53 | Eigenvalue problems of Ginzburg-Landau operator in bounded domains. Journal of Mathematical Physics, 1999, 40, 2647-2670. | 1.1 | 66 |
| 54 | Yamabe equations on half-spaces. Nonlinear Analysis: Theory, Methods & Applications, 1999, 37, 161-186. | 1.1 | 12 |

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|----|--|-----|-----------|
| 55 | Estimates of the upper critical field for the Ginzburg-Landau equations of superconductivity. <i>Physica D: Nonlinear Phenomena</i> , 1999, 127, 73-104. | 2.8 | 80 |
| 56 | Gauge Invariant Eigenvalue Problems in \mathbb{R}^n and in \mathbb{R}^n_+ . <i>Transactions of the American Mathematical Society</i> , 1999, 352, 1247-1276. | 0.9 | 36 |
| 57 | Semilinear Neumann problem in exterior domains. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 1998, 31, 791-821. | 1.1 | 10 |
| 58 | Ginzburg-Landau Equation with DeGennes Boundary Condition. <i>Journal of Differential Equations</i> , 1996, 129, 136-165. | 2.2 | 18 |
| 59 | Least Energy Solutions of Semilinear Neumann Problems and Asymptotics. <i>Journal of Mathematical Analysis and Applications</i> , 1996, 201, 532-554. | 1.0 | 4 |
| 60 | Singular limit of quasilinear Neumann problems. <i>Proceedings of the Royal Society of Edinburgh Section A: Mathematics</i> , 1995, 125, 205-223. | 1.2 | 1 |
| 61 | Condensation of least-energy solutions: The effect of boundary conditions. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 1995, 24, 195-222. | 1.1 | 15 |
| 62 | Singular solutions of the elliptic equation $\hat{\Gamma}u^{\alpha}u^{\beta}=0$. <i>Annali Di Matematica Pura Ed Applicata</i> , 1994, 166, 203-225. | 1.0 | 14 |
| 63 | Singular ground states of semilinear elliptic equations via invariant manifold theory. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 1993, 20, 1279-1302. | 1.1 | 20 |
| 64 | Positive solutions of super-critical elliptic equations and asymptotics. <i>Communications in Partial Differential Equations</i> , 1993, 18, 977-1019. | 2.2 | 34 |
| 65 | On an elliptic equation related to the blow-up phenomenon in the nonlinear Schrödinger equation. <i>Proceedings of the Royal Society of Edinburgh Section A: Mathematics</i> , 1993, 123, 763-782. | 1.2 | 15 |
| 66 | Singular behavior of least-energy solutions of a semilinear Neumann problem involving critical Sobolev exponents. <i>Duke Mathematical Journal</i> , 1992, 67, 1. | 1.5 | 99 |
| 67 | Blow-up behavior of ground states of semilinear elliptic equations in \mathbb{R}^n involving critical Sobolev exponents. <i>Journal of Differential Equations</i> , 1992, 99, 78-107. | 2.2 | 22 |
| 68 | Existence of singular solutions of semi-linear elliptic equation in \mathbb{R}^n . <i>Journal of Differential Equations</i> , 1991, 94, 191-203. | 2.2 | 3 |