

Lars Diening

List of Publications by Year in descending order

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57
papers

3,311
citations

257357

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62
docs citations

62
times ranked

846
citing authors

#	ARTICLE	IF	CITATIONS
1	A pointwise differential inequality and second-order regularity for nonlinear elliptic systems. <i>Mathematische Annalen</i> , 2022, 383, 1-50.	0.7	10
2	A space-time DPG method for the heat equation. <i>Computers and Mathematics With Applications</i> , 2022, 105, 41-53.	1.4	7
3	Parabolic weighted Sobolev-Poincaré type inequalities. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 2022, 218, 112772.	0.6	1
4	On interpolation of reflexive variable Lebesgue spaces on which the Hardy-Littlewood maximal operator is bounded. <i>Georgian Mathematical Journal</i> , 2022, .	0.2	2
5	Elliptic Equations with Degenerate Weights. <i>SIAM Journal on Mathematical Analysis</i> , 2022, 54, 2373-2412.	0.9	7
6	The parabolic p -Laplacian with fractional differentiability. <i>IMA Journal of Numerical Analysis</i> , 2021, 41, 2110-2138.	1.5	6
7	Three solutions to mixed boundary value problem driven by $p(z)$ -Laplace operator. <i>Mathematische Nachrichten</i> , 2021, 294, 1175-1185.	0.4	2
8	Uniform Hölder-norm bounds for finite element approximations of second-order elliptic equations. <i>IMA Journal of Numerical Analysis</i> , 2021, 41, 1846-1898.	1.5	1
9	On the Sobolev and L^p -Stability of the L^2 -Projection. <i>SIAM Journal on Numerical Analysis</i> , 2021, 59, 2571-2607.	1.1	6
10	Higher Order Regularity Shifts for the p -Poisson Problem. <i>Lecture Notes in Computational Science and Engineering</i> , 2021, , 1147-1155.	0.1	1
11	On the Threshold Condition for Dirfler Marking. <i>Computational Methods in Applied Mathematics</i> , 2021, 21, 557-567.	0.4	2
12	Higher order Calderón-Zygmund estimates for the p -Laplace equation. <i>Journal of Differential Equations</i> , 2020, 268, 590-635.	1.1	30
13	On Problems Driven by the $(p(\cdot), q(\cdot))$ -Laplace Operator. <i>Mediterranean Journal of Mathematics</i> , 2020, 17, 1.	0.4	13
14	New Examples on Lavrentiev Gap Using Fractals. <i>Calculus of Variations and Partial Differential Equations</i> , 2020, 59, 1.	0.9	26
15	Continuity Points Via Riesz Potentials for Δ_{μ} -Elliptic Operators. <i>Quarterly Journal of Mathematics</i> , 2020, 71, 1201-1218.	0.3	2
16	On the trace operator for functions of bounded μ -variation. <i>Analysis and PDE</i> , 2020, 13, 559-594.	0.6	22
17	A Relaxed Káanov iteration for the p -poisson problem. <i>Numerische Mathematik</i> , 2020, 145, 1-34.	0.9	30
18	Regularity for parabolic systems of Uhlenbeck type with Orlicz growth. <i>Journal of Mathematical Analysis and Applications</i> , 2019, 472, 46-60.	0.5	19

#	ARTICLE	IF	CITATIONS
19	Sharp γ -harmonic approximation. <i>Applicable Analysis</i> , 2019, 98, 374-380.	0.6	1
20	Homogeneous variable exponent Besov and Triebel-Lizorkin spaces. <i>Mathematische Nachrichten</i> , 2018, 291, 1177-1190.	0.4	5
21	Pointwise Calderón-Zygmund gradient estimates for the p -Laplace system. <i>Journal Des Mathematiques Pures Et Appliquees</i> , 2018, 114, 146-190.	0.8	28
22	Unconditional Stability of Semi-Implicit Discretizations of Singular Flows. <i>SIAM Journal on Numerical Analysis</i> , 2018, 56, 1896-1914.	1.1	14
23	The inverse of the divergence operator on perforated domains with applications to homogenization problems for the compressible Navier-Stokes system. <i>ESAIM - Control, Optimisation and Calculus of Variations</i> , 2017, 23, 851-868.	0.7	20
24	Existence, uniqueness and optimal regularity results for very weak solutions to nonlinear elliptic systems. <i>Analysis and PDE</i> , 2016, 9, 1115-1151.	0.6	42
25	Besov regularity of solutions to the p -Poisson equation. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 2016, 130, 298-329.	0.6	22
26	Instance Optimality of the Adaptive Maximum Strategy. <i>Foundations of Computational Mathematics</i> , 2016, 16, 33-68.	1.5	25
27	Finite Element Approximation of the p -Laplacian. <i>SIAM Journal on Numerical Analysis</i> , 2015, 53, 551-572.	1.1	22
28	Optimal error estimate for semi-implicit space-time discretization for the equations describing incompressible generalized Newtonian fluids. <i>IMA Journal of Numerical Analysis</i> , 2015, 35, 680-697.	1.5	8
29	Existence of weak solutions for a diffuse interface model of non-Newtonian two-phase flows. <i>Nonlinear Analysis: Real World Applications</i> , 2014, 15, 149-157.	0.9	17
30	Convex hull property and maximum principle for finite element minimisers of general convex functionals. <i>Numerische Mathematik</i> , 2013, 124, 685-700.	0.9	9
31	SOLENOIDAL LIPSCHITZ TRUNCATION FOR PARABOLIC PDEs. <i>Mathematical Models and Methods in Applied Sciences</i> , 2013, 23, 2671-2700.	1.7	57
32	Finite Element Approximation of Steady Flows of Incompressible Fluids with Implicit Power-Law-Like Rheology. <i>SIAM Journal on Numerical Analysis</i> , 2013, 51, 984-1015.	1.1	46
33	Mini-Workshop: The p -Laplacian Operator and Applications. <i>Oberwolfach Reports</i> , 2013, 10, 433-482.	0.0	11
34	Partial Regularity for Minimizers of Quasi-convex Functionals with General Growth. <i>SIAM Journal on Mathematical Analysis</i> , 2012, 44, 3594-3616.	0.9	38
35	Sharp Conditions for Korn Inequalities in Orlicz Spaces. <i>Journal of Mathematical Fluid Mechanics</i> , 2012, 14, 565-573.	0.4	32
36	Optimality of an adaptive finite element method for the p -Laplacian equation. <i>IMA Journal of Numerical Analysis</i> , 2012, 32, 484-510.	1.5	62

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37	The $\dot{W}^{1,p}$ -harmonic approximation and the regularity of $\dot{W}^{1,p}$ -harmonic maps. <i>Journal of Differential Equations</i> , 2012, 253, 1943-1958.	1.1	36
38	Lebesgue and Sobolev Spaces with Variable Exponents. <i>Lecture Notes in Mathematics</i> , 2011, , .	0.1	1,232
39	The maximal operator on weighted variable Lebesgue spaces. <i>Fractional Calculus and Applied Analysis</i> , 2011, 14, 361-374.	1.2	87
40	On potentials in generalized Hölder spaces over uniform domains in \mathbb{R}^n . <i>Revista Matematica Complutense</i> , 2011, 24, 357-373.	0.7	7
41	Lipschitz regularity for some asymptotically convex problems. <i>ESAIM - Control, Optimisation and Calculus of Variations</i> , 2011, 17, 178-189.	0.7	16
42	Dirichlet Energy Integral and Laplace Equation. <i>Lecture Notes in Mathematics</i> , 2011, , 401-436.	0.1	2
43	PDEs and Fluid Dynamics. <i>Lecture Notes in Mathematics</i> , 2011, , 437-481.	0.1	0
44	Existence of Strong Solutions for Incompressible Fluids with Shear Dependent Viscosities. <i>Journal of Mathematical Fluid Mechanics</i> , 2010, 12, 101-132.	0.4	76
45	A decomposition technique for John domains. <i>Annales Academiae Scientiarum Fennicae Mathematica</i> , 2010, 35, 87-114.	0.7	109
46	Everywhere regularity of functionals with $\dot{W}^{1,p}$ -growth. <i>Manuscripta Mathematica</i> , 2009, 129, 449-481.	0.3	99
47	Optimal Error Estimates for a Semi-Implicit Euler Scheme for Incompressible Fluids with Shear Dependent Viscosities. <i>SIAM Journal on Numerical Analysis</i> , 2009, 47, 2177-2202.	1.1	9
48	FURTHER RESULTS ON VARIABLE EXPONENT TRACE SPACES. , 2009, , .		2
49	Linear Convergence of an Adaptive Finite Element Method for the p -Laplacian Equation. <i>SIAM Journal on Numerical Analysis</i> , 2008, 46, 614-638.	1.1	110
50	On Lipschitz truncations of Sobolev functions (with variable exponent) and their selected applications. <i>ESAIM - Control, Optimisation and Calculus of Variations</i> , 2008, 14, 211-232.	0.7	85
51	Fractional estimates for non-differentiable elliptic systems with general growth. <i>Forum Mathematicum</i> , 2008, 20, .	0.3	153
52	Optimal Convergence for the Implicit Space-Time Discretization of Parabolic Systems with p -Structure. <i>SIAM Journal on Numerical Analysis</i> , 2007, 45, 457-472.	1.1	49
53	Variable exponent trace spaces. <i>Studia Mathematica</i> , 2007, 183, 127-141.	0.4	24
54	Semi-implicit Euler Scheme for Generalized Newtonian Fluids. <i>SIAM Journal on Numerical Analysis</i> , 2006, 44, 1172-1190.	1.1	23

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55	Maximal function on Musielak-Orlicz spaces and generalized Lebesgue spaces. Bulletin Des Sciences Mathematiques, 2005, 129, 657-700.	0.5	228
56	Strong Solutions for Generalized Newtonian Fluids. Journal of Mathematical Fluid Mechanics, 2005, 7, 413-450.	0.4	70
57	Riesz potential and Sobolev embeddings on generalized Lebesgue and Sobolev spaces $L_p(\hat{\cdot})$ and $W_{k,p}(\hat{\cdot})$. Mathematische Nachrichten, 2004, 268, 31-43.	0.4	243