Angkana RÃ¼land

List of Publications by Year
in descending order

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38 papers	467 citations	759233 12 h-index	752698 20 g-index
38 all docs	38 docs citations	38 times ranked	117 citing authors

#	Article	IF	Citations
1	Runge approximation and stability improvement for a partial data CalderÃ³n problem for the acoustic Helmholtz equation. Inverse Problems and Imaging, 2022, 16, 251.	1.1	3
2	Higher regularity for the Signorini problem for the homogeneous, isotropic LamÃ© system. Nonlinear Analysis: Theory, Methods & Applications, 2022, 217, 112762.	1.1	0
3	On the Energy Scaling Behaviour of a Singularly Perturbed Tartar Square. Archive for Rational Mechanics and Analysis, 2022, 243, 401-431.	2.4	9
4	On Single Measurement Stability for the Fractional CalderÃ³n Problem. SIAM Journal on Mathematical Analysis, 2021, 53, 5094-5113.	1.9	3
5	On a probabilistic model for martensitic avalanches incorporating mechanical compatibility. Nonlinearity, 2021, 34, 4844-4896.	1.4	2
6	On some partial data CalderÃ³n type problems with mixed boundary conditions. Journal of Differential Equations, 2021, 288, 141-203.	2.2	3
7	Discrete Carleman estimates and three balls inequalities. Calculus of Variations and Partial Differential Equations, 2021, 60, 1.	1.7	2
8	The fractional CalderÃ³n problem: Low regularity and stability. Nonlinear Analysis: Theory, Methods & Applications, 2020, 193, 111529.	1.1	38
9	Higher Sobolev Regularity of Convex Integration Solutions in Elasticity: The Planar Geometrically Linearized Hexagonal-to-Rhombic Phase Transformation. Journal of Elasticity, 2020, 138, 1-76.	1.9	8
10	On Runge approximation and Lipschitz stability for a finite-dimensional SchrÃ¶dinger inverse problem. Applicable Analysis, 2020, , 1-12.	1.3	4
11	On two methods for quantitative unique continuation results for some nonlocal operators. Communications in Partial Differential Equations, 2020, 45, 1512-1560.	2.2	4
12	Exact Constructions in the (Non-linear) Planar Theory of Elasticity: From Elastic Crystals to Nematic Elastomers. Archive for Rational Mechanics and Analysis, 2020, 237, 383-445.	2.4	12
13	Convex integration solutions for the geometrically nonlinear two-well problem with higher Sobolev regularity. Mathematical Models and Methods in Applied Sciences, 2020, 30, 611-651.	3.3	4
14	The CalderÃ³n Problem for a Space-Time Fractional Parabolic Equation. SIAM Journal on Mathematical Analysis, 2020, 52, 2655-2688.	1.9	26
15	The CalderÃ³n problem for the fractional SchrÃ¶dinger equation with drift. Calculus of Variations and Partial Differential Equations, 2020, 59, 1.	1.7	22
16	Uniqueness and reconstruction for the fractional CalderÃ³n problem with a single measurement. Journal of Functional Analysis, 2020, 279, 108505.	1.4	35
17	Quantitative approximation properties for the fractional heat equation. Mathematical Control and Related Fields, 2020, 10, 1-26.	1.1	21
18	On the fractional Landis conjecture. Journal of Functional Analysis, 2019, 277, 3236-3270.	1.4	9

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19	Convex Integration Arising in the Modelling of Shape-Memory Alloys: Some Remarks on Rigidity, Flexibility and Some Numerical Implementations. Journal of Nonlinear Science, 2019, 29, 2137-2184.	2.1	11
20	A Compactness and Structure Result for a Discrete Multi-well Problem with SO(n) Symmetry in Arbitrary Dimension. Archive for Rational Mechanics and Analysis, 2019, 232, 531-555.	2.4	3
21	Quantitative invertibility and approximation for the truncated Hilbert and Riesz transforms. Revista Matematica Iberoamericana, 2019, 35, 1997-2024.	0.9	9
22	Quantitative Runge Approximation and Inverse Problems. International Mathematics Research Notices, 2019, 2019, 6216-6234.	1.0	15
23	Lipschitz stability for the finite dimensional fractional CalderÃ³n problem with finite Cauchy data. Inverse Problems and Imaging, 2019, 13, 1023-1044.	1.1	20
24	Exponential instability in the fractional CalderÃ³n problem. Inverse Problems, 2018, 34, 045003.	2.0	25
25	Higher Sobolev Regularity of Convex Integration Solutions in Elasticity: The Dirichlet Problem with Affine Data in int(K^{lc}). SIAM Journal on Mathematical Analysis, 2018, 50, 3791-3841.	1.9	13
26	Unique continuation for sublinear elliptic equations based on Carleman estimates. Journal of Differential Equations, 2018, 265, 6009-6035.	2.2	10
27	Surface energies emerging in a microscopic, two-dimensional two-well problem. Proceedings of the Royal Society of Edinburgh Section A: Mathematics, 2017, 147, 1041-1089.	1.2	8
28	The variable coefficient thin obstacle problem: Optimal regularity and regularity of the regular free boundary. Annales De L'Institut Henri Poincare (C) Analyse Non Lineaire, 2017, 34, 845-897.	1.4	9
29	Optimal regularity for the thin obstacle problem with $$C^{0,alpha }$$ C 0 , Î± coefficients. Calculus of Variations and Partial Differential Equations, 2017, 56, 1.	1.7	5
30	The variable coefficient thin obstacle problem: Carleman inequalities. Advances in Mathematics, 2016, 301, 820-866.	1.1	14
31	The Cubic-to-Orthorhombic Phase Transition: Rigidity and Non-Rigidity Properties in the Linear Theory of Elasticity. Archive for Rational Mechanics and Analysis, 2016, 221, 23-106.	2.4	22
32	A Rigidity Result for a Reduced Model of a Cubic-to-Orthorhombic Phase Transition in the Geometrically Linear Theory of Elasticity. Journal of Elasticity, 2016, 123, 137-177.	1.9	16
33	On quantitative unique continuation properties of fractional SchrÃ¶dinger equations: Doubling, vanishing order and nodal domain estimates. Transactions of the American Mathematical Society, 2016, 369, 2311-2362.	0.9	17
34	Surface Energies Arising in Microscopic Modeling of Martensitic Transformations in Shape-Memory Alloys. Key Engineering Materials, 2015, 651-653, 941-943.	0.4	0
35	On the backward uniqueness property for the heat equation in two-dimensional conical domains. Manuscripta Mathematica, 2015, 147, 415-436.	0.6	4
36	Surface energies arising in microscopic modeling of martensitic transformations. Mathematical Models and Methods in Applied Sciences, 2015, 25, 647-683.	3.3	5

#	Article	IF	Citations
37	Unique Continuation for Fractional SchrÃ¶dinger Equations with Rough Potentials. Communications in Partial Differential Equations, 2015, 40, 77-114.	2.2	54
38	Unique Continuation, Runge Approximation and the Fractional CalderÃ³n Problem. JournÃ©es Ã‰quations Aux DÃ©rivÃ©es Partielles, 0, , 1-10.	0.2	2