Der-Chen Chang

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/7938094/publications.pdf

Version: 2024-02-01

471509 580821 1,199 137 17 25 citations h-index g-index papers 142 142 142 402 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Boundedness of paraproducts on spaces of homogeneous type I. Applicable Analysis, 2022, 101, 2144-2169.	1.3	4
2	Boundedness of paraproducts on spaces of homogeneous type II. Applicable Analysis, 2022, 101, 2170-2196.	1.3	5
3	Nontriviality of Riesz–Morrey spaces. Applicable Analysis, 2022, 101, 6548-6572.	1.3	6
4	Fourier transform of Hardy spaces associated with ball quasi-Banach function spaces*. Applicable Analysis, 2022, 101, 3825-3840.	1.3	15
5	Pharmacological Role of Functionalized Gold Nanoparticles in Disease Applications. Molecules, 2022, 27, 1551.	3.8	45
6	Methodology to quantify the role of intense precipitation runoff in soil moisture scarcity: a case study in the U.S. South from 1980-2020. J Agricultural Meteorology, 2022, 78, 78-87.	1.5	0
7	Anti-Inflammatory Effects of Cycloheterophyllin on Dinitrochlorobenzene-Induced Atopic Dermatitis in HaCaT Cells and BALB/c Mice. Molecules, 2022, 27, 2610.	3.8	4
8	Vanishing theorem of Kohn–Rossi cohomology class and rigidity of Sasakian space form. Pure and Applied Mathematics Quarterly, 2022, 18, 411-436.	0.4	0
9	Relations Between Product and Flag Hardy Spaces. Journal of Geometric Analysis, 2021, 31, 6601-6623.	1.0	4
10	The heat kernel of sub-Laplace operator on nilpotent Lie groups of step two. Applicable Analysis, 2021, 100, 17-36.	1.3	2
11	Utilizing homogenized observation records and reconstructed time series data to estimate recent trends in Mid-Atlantic soil moisture scarcity. Theoretical and Applied Climatology, 2021, 143, 1063-1076.	2.8	2
12	Analysis on Regular Corner Spaces. Journal of Geometric Analysis, 2021, 31, 9199-9240.	1.0	2
13	Fourier transform of anisotropic mixed-norm Hardy spaces. Frontiers of Mathematics in China, 2021, 16, 119-139.	0.7	16
14	Inhibition of UVA Damage on Human Skin Dermis Fibroblasts by the Isoflavonoid Intermediate Deoxybenzoin-3A. Chemical Research in Toxicology, 2021, 34, 1133-1139.	3.3	2
15	Corner Operators with Symbol Hierarchies. Advances in Applied Clifford Algebras, 2021, 31, 1.	1.0	2
16	Quercetin inhibits histamine-induced calcium influx in human keratinocyte via histamine H4 receptors. International Immunopharmacology, 2021, 96, 107620.	3.8	12
17	Anti-Proliferative and Anti-Migratory Activities of Hispidulin on Human Melanoma A2058 Cells. Biomolecules, 2021, 11, 1039.	4.0	7
18	Effect of Neferine on DNCB-Induced Atopic Dermatitis in HaCaT Cells and BALB/c Mice. International Journal of Molecular Sciences, 2021, 22, 8237.	4.1	26

#	Article	IF	CITATIONS
19	Anti-Allergic and Anti-Inflammatory Effects of Neferine on RBL-2H3 Cells. International Journal of Molecular Sciences, 2021, 22, 10994.	4.1	17
20	The Anti-Inflammatory Effect of Hydrogen Gas Inhalation and Its Influence on Laser-Induced Choroidal Neovascularization in a Mouse Model of Neovascular Age-Related Macular Degeneration. International Journal of Molecular Sciences, 2021, 22, 12049.	4.1	6
21	The Inhibitory Effects of Gold Nanoparticles on VEGF-A-Induced Cell Migration in Choroid-Retina Endothelial Cells. International Journal of Molecular Sciences, 2020, 21, 109.	4.1	24
22	Chrysin Inhibits High Glucose-Induced Migration on Chorioretinal Endothelial Cells via VEGF and VEGFR Down-Regulation. International Journal of Molecular Sciences, 2020, 21, 5541.	4.1	15
23	The utilization of a recursive algorithm to determine trends of soil moisture deficits in the Mid-Atlantic United States. Climatic Change, 2020, 163, 217-235.	3.6	1
24	Existence, uniqueness, and approximation solutions to linearized Chandrasekhar equation with sharp bounds. Analysis and Mathematical Physics, 2020, 10 , 1 .	1.3	1
25	Chrysin alleviates imiquimod-induced psoriasis-like skin inflammation and reduces the release of CCL20 and antimicrobial peptides. Scientific Reports, 2020, 10, 2932.	3 . 3	31
26	Utilizing Recent Climate Data in Eastern Texas to Calculate Trends in Measures of Aridity and Estimate Changes in Watering Demand for Landscape Preservation. Journal of Applied Meteorology and Climatology, 2020, 59, 143-152.	1.5	6
27	Littlewood-Paley Characterizations of Hardy-Type Spaces Associated with Ball Quasi-Banach Function Spaces. Complex Analysis and Operator Theory, 2020, $14, 1$.	0.6	34
28	Construction of Frames on the Heisenberg Groups. Analysis and Geometry in Metric Spaces, 2020, 8, 382-395.	0.5	0
29	On Li–Yau gradient estimate for sum of squares of vector fields up to higher step. Communications in Analysis and Geometry, 2020, 28, 565-606.	0.4	0
30	The Laguerre calculus on the nilpotent Lie groups of step two. Journal of Mathematical Analysis and Applications, 2019, 475, 1855-1882.	1.0	3
31	Ball Average Characterizations of Variable Besov-type Spaces. Taiwanese Journal of Mathematics, 2019, 23, .	0.4	2
32	Evolution equations and diffusion operators for demographic dynamics. Applicable Analysis, 2019, , $1-16$.	1.3	0
33	On an initial boundary value problem for gas dynamics in thermal nonequilibrium. Journal of Mathematical Physics, 2019, 60, 121505.	1.1	2
34	A CR Analogue of Yau's Conjecture on Pseudoharmonic Functions of Polynomial Growth. Canadian Journal of Mathematics, 2019, 71, 1367-1394.	0.6	4
35	Exact Bounds and Approximating Solutions to the Fredholm Integral Equations of Chandrasekhar Type. Taiwanese Journal of Mathematics, 2019, 23, .	0.4	2
36	Global solution to initial boundary value problem for gas dynamics in thermal nonequilibrium. Journal of Differential Equations, 2018, 265, 1875-1893.	2.2	4

#	Article	IF	Citations
37	Variational Analysis for Generalized Kolmogorov Operators. Journal of Geometric Analysis, 2018, 28, 2477-2502.	1.0	1
38	Gradient estimates via rearrangements for solutions of some Schrödinger equations. Analysis and Applications, 2018, 16, 339-361.	2.2	13
39	Poincar \tilde{A} © Lemma on Quaternion-like Heisenberg Groups. Canadian Mathematical Bulletin, 2018, 61, 495-508.	0.5	0
40	Endpoint estimates of linear commutators on Hardy spaces over spaces of homogeneous type. Mathematical Methods in the Applied Sciences, 2018, 41, 5951-5984.	2.3	15
41	Volterra operators in the edge-calculus. Analysis and Mathematical Physics, 2018, 8, 551-570.	1.3	0
42	CR Li–Yau gradient estimate for Witten Laplacian via Bakry–Emery pseudohermitian Ricci curvature. Asian Journal of Mathematics, 2018, 22, 223-256.	0.3	1
43	Integrability conditions on a sub-Riemannian structure on $\$$ mathbb $\{S\}^3$. Analysis and Mathematical Physics, 2017, 7, 9-18.	1.3	1
44	Littlewood-Paley Characterizations of HajÅ, asz-Sobolev and Triebel-Lizorkin Spaces via Averages on Balls. Potential Analysis, 2017, 46, 227-259.	0.9	10
45	Endpoint boundedness of commutators on spaces of homogeneous type. Applicable Analysis, 2017, 96, 2408-2433.	1.3	18
46	Ellipticity on spaces with higher singularities. Science China Mathematics, 2017, 60, 2053-2076.	1.7	4
47	Characterizations of Sobolev spaces associated to operators satisfying offâ€diagonal estimates on balls. Mathematical Methods in the Applied Sciences, 2017, 40, 2907-2929.	2.3	5
48	Initial Value Problem and the Heat Kernel for a Mixed Type Operator. Journal of Geometric Analysis, 2017, 27, 3285-3301.	1.0	0
49	Periodic solutions for Hamiltonian equation associated with Gaussian potential. Analysis and Mathematical Physics, 2017, 7, 459-477.	1.3	1
50	On the Hodge-type decomposition and cohomology groups of k-Cauchy–Fueter complexes over domains in the quaternionic space. Journal of Geometry and Physics, 2016, 107, 15-34.	1.4	6
51	Real-variable characterizations of Musielak-Orlicz-Hardy spaces associated with Schrödinger operators on domains. Mathematical Methods in the Applied Sciences, 2016, 39, 533-569.	2.3	16
52	Real interpolation of weighted tent spaces. Applicable Analysis, 2016, 95, 2415-2443.	1.3	10
53	Heat kernel asymptotic expansions for the Heisenberg sub-Laplacian and the Grushin operator. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2015, 471, 20140943.	2.1	1
54	Newton's method for variational inequality problems: Smale's point estimate theory under the γ-condition. Applicable Analysis, 2015, 94, 44-55.	1.3	4

#	Article	IF	CITATIONS
55	Corner Boundary Value Problems. Complex Analysis and Operator Theory, 2015, 9, 1157-1210.	0.6	5
56	Integrability conditions on Engel-type manifolds. Analysis and Mathematical Physics, 2015, 5, 217-231.	1.3	5
57	Heat kernels for generalized Ornstein–Uhlenbeck operators. Applicable Analysis, 2014, 93, 2277-2311.	1.3	0
58	Estimates for second-order Riesz transforms associated with magnetic SchrĶdinger operators on Musielak-Orlicz-Hardy spaces. Applicable Analysis, 2014, 93, 2519-2545.	1.3	11
59	Geometric Analysis on Ornstein–Uhlenbeck Operators with Quadratic Potentials. Journal of Geometric Analysis, 2014, 24, 1211-1232.	1.0	4
60	Integrability conditions for Heisenberg and Grushin-type distributions. Analysis and Mathematical Physics, 2014, 4, 99-114.	1.3	7
61	The edge algebra structure of the Zaremba problem. Journal of Pseudo-Differential Operators and Applications, 2014, 5, 69-155.	0.7	14
62	Poincaré's lemma on the Heisenberg group. Advances in Applied Mathematics, 2014, 60, 90-102.	0.7	2
63	Heat kernels for a family of Grushin operators. Methods and Applications of Analysis, 2014, 21, 291-312.	0.5	1
64	Boundedness of fractional integrals on weighted Orlicz–Hardy spaces. Mathematical Methods in the Applied Sciences, 2013, 36, 2069-2085.	2.3	5
65	Quantisation on a manifold with singular edge. Journal of Pseudo-Differential Operators and Applications, 2013, 4, 317-343.	0.7	10
66	On the Cauchy–Szegö Kernel for Quaternion Siegel Upper Half-Space. Complex Analysis and Operator Theory, 2013, 7, 1623-1654.	0.6	15
67	THE POSITIVITY OF THE HEAT KERNEL ON HEISENBERG GROUP. Analysis and Applications, 2013, 11, 1350019.	2.2	2
68	Global connectivity and optimization on an infinite step distribution. Advances in Applied Mathematics, 2013, 50, 634-644.	0.7	1
69	Boundedness of Generalized Riesz Transforms on Orlicz–Hardy Spaces Associated to Operators. Integral Equations and Operator Theory, 2013, 76, 225-283.	0.8	4
70	Mathematical modelling and analysis of Asian options with stochastic strike price. Applicable Analysis, 2012, 91, 91-104.	1.3	1
71	Heat kernels for a class of degenerate elliptic operators using stochastic method. Complex Variables and Elliptic Equations, 2012, 57, 155-168.	0.8	3
72	Description of Entire Solutions of Eiconal Type Equations. Canadian Mathematical Bulletin, 2012, 55, 249-259.	0.5	11

#	Article	IF	CITATIONS
73	SubRiemannian Geodesics in the Grushin Plane. Journal of Geometric Analysis, 2012, 22, 800-826.	1.0	7
74	Deconvolution for the Pompeiu Problem on the Heisenberg Group, I. Springer Proceedings in Mathematics, 2012 , , 61 - 94 .	0.5	0
75	Stochastic regression in terms of Brownian motion. Applicable Analysis, 2011, 90, 899-919.	1.3	O
76	Heat Kernels for Differential Operators with Radical Function Coefficients. Taiwanese Journal of Mathematics, $2011,15,.$	0.4	2
77	Geometric analysis on generalized Hermite operators. Advances in Applied Mathematics, 2011, 47, 710-771.	0.7	9
78	Hopf fibration: Geodesics and distances. Journal of Geometry and Physics, 2011, 61, 986-1000.	1.4	14
79	Heat Kernels for Elliptic and Sub-elliptic Operators. Applied and Numerical Harmonic Analysis, 2011, , .	0.3	36
80	Variational analysis and related topics: preface. Applicable Analysis, 2011, 90, 861-864.	1.3	0
81	Pompeiu Problem on Product of Heisenberg Groups. Complex Analysis and Operator Theory, 2010, 4, 619-683.	0.6	6
82	Nonholonomic Systems and Sub-Riemannian Geometry. Communications in Information and Systems, 2010, 10, 293-316.	0.5	3
83	10.1007/s11472-008-1031-2., 2010, 77, 124.		0
84	SubRiemannian Geometry on the Sphere ?3. Canadian Journal of Mathematics, 2009, 61, 721-739.	0.6	18
85	Schrödinger equation with quartic potential and nonlinear filtering problem. , 2009, , .		0
86	Geometric mechanics on product Heisenberg groups. Applicable Analysis, 2009, 88, 243-283.	1.3	1
87	Geometric analysis on <i>H</i> â€type groups related to division algebras. Mathematische Nachrichten, 2009, 282, 44-68.	0.8	15
88	Sub-Riemannian Geodesics on the 3-D Sphere. Complex Analysis and Operator Theory, 2009, 3, 361-377.	0.6	16
89	Laguerre calculus and Paneitz operator on the Heisenberg group. Science in China Series A: Mathematics, 2009, 52, 2549-2569.	0.5	7
90	Trace of heat kernel, spectral zeta function and isospectral problem for sub-laplacians. Science in China Series A: Mathematics, 2009, 52, 2570-2589.	0.5	1

#	Article	IF	CITATIONS
91	The Heat Kernel for Kolmogorov Type Operators andÂits Applications. Journal of Fourier Analysis and Applications, 2009, 15, 816-838.	1.0	5
92	Generalized Hamiltonâ€"Jacobi Equation and Heat Kernel on Step Two Nilpotent Lie Groups. , 2009, , 49-76.		4
93	Quaternion H-type group and differential operator Δ λ. Science in China Series A: Mathematics, 2008, 51, 523-540.	0.5	14
94	Sub-Lorentzian geometry on anti-de Sitter space. Journal Des Mathematiques Pures Et Appliquees, 2008, 90, 82-110.	1.6	21
95	Geometric analysis on quaternion anisotropic Carnot groups. Doklady Mathematics, 2008, 77, 124-129.	0.6	1
96	Generalized Calderón–Zygmund operators on homogeneous groups and applications. Applicable Analysis, 2008, 87, 531-554.	1.3	1
97	POMPEIU PROBLEM FOR SETS OF HIGHER CODIMENSION IN EUCLIDEAN AND HEISENBERG SETTINGS. Taiwanese Journal of Mathematics, 2008, 12, .	0.4	2
98	Tauberian theorem for m-spherical transforms on the Heisenberg group. Mathematische Nachrichten, 2007, 280, 815-837.	0.8	4
99	Anisotropic quaternion Carnot groups: Geometric analysis and Green function. Advances in Applied Mathematics, 2007, 39, 345-394.	0.7	12
100	Hausdorff operator on the unit polydisk in. Complex Variables and Elliptic Equations, 2006, 51, 329-345.	0.8	2
101	Applications of the poincar \tilde{A} inequality to extended Kantorovich method. Journal of Inequalities and Applications, 2006, 2006, 1-21.	1.1	0
102	Laguerre expansion on the Heisenberg group and Fourier-Bessel transform on â,,, n. Science in China Series A: Mathematics, 2006, 49, 1722-1739.	0.5	4
103	Fundamental solutions for hermite and subelliptic operators. Journal D'Analyse Mathematique, 2006, 100, 223-248.	0.8	19
104	Geometric analysis on quaternion â,, type groups. Journal of Geometric Analysis, 2006, 16, 265-294.	1.0	23
105	Addendum to the Paper "A note on Weighted bergman Spaces and the cesaro operator― Nagoya Mathematical Journal, 2005, 180, 77-90.	0.8	17
106	The geometry on a step 3 Grushin model. Applicable Analysis, 2005, 84, 111-129.	1.3	4
107	Geometric analysis on a family of pseudoconvex hypersurfaces. Complex Variables and Elliptic Equations, 2005, 50, 803-835.	0.2	1
108	Mathematical analysis of the two-color partial rainbow options. Applicable Analysis, 2005, 84, 737-757.	1.3	1

#	Article	IF	CITATIONS
109	Analysis of Bending Vibration of Rectangular Plates Using Two-Dimensional Plate Modes. Journal of Aircraft, 2005, 42, 542-550.	2.4	9
110	Geometric Analysis on SubRiemannian Manifolds. , 2005, , .		0
111	A Difference Equation Arising from Logistic Population Growth. Applicable Analysis, 2004, 83, 579-598.	1.3	1
112	On a Step 2(k + 1) sub-Riemannian manifold. Journal of Geometric Analysis, 2004, 14, 1-18.	1.0	13
113	Lp Results for the Pompeiu Problem with Moments on the Heisenberg Group. Journal of Fourier Analysis and Applications, 2004, 10, 545-571.	1.0	8
114	REAL AND COMPLEX HAMILTONIAN MECHANICS ON SOME SUBRIEMANNIAN MANIFOLDS. Asian Journal of Mathematics, 2004, 8, 137-160.	0.3	11
115	SUBRIEMANNIAN GEOMETRY AND SUBELLIPTIC PARTIAL DIFFERENTIAL EQUATIONS. , 2004, , .		0
116	Moment versions of the Morera problem in Cn andÂHn. Advances in Applied Mathematics, 2003, 31, 273-300.	0.7	6
117	Analysis and Applications of Extended Kantorovich–Krylov Method. Applicable Analysis, 2003, 82, 713-740.	1.3	15
118	On the Recursive Sequencexn+1= \hat{l} ±+ (\hat{l} 2xn \hat{a} 2)/(1+g(xn)). Applicable Analysis, 2003, 82, 145-156.	1.3	5
119	Mathematical analysis of pricing of lookback performance options. Applicable Analysis, 2003, 82, 937-959.	1.3	2
120	Analysis of Sandwich Plates with Viscoelastic Damping Using Two-Dimensional Plate Modes. AIAA Journal, 2003, 41, 924-932.	2.6	6
121	A NOTE ON GENERALIZED CESÀRO OPERATORS. , 2003, , .		0
122	A zeta function associated to the sub-laplacian on the unit sphere in â,,,N. Journal D'Analyse Mathematique, 2002, 86, 25-48.	0.8	13
123	MOMENT CONDITIONS FOR POMPEIU PROBLEM EXTENDED TO GENERAL RADIAL SURFACES., 2002,,.		3
124	A note on weighted Bergman spaces and the Cesaro Operator. Nagoya Mathematical Journal, 2000, 159, 25-43.	0.8	33
125	Estimates for powers of sub-Laplacian on the non-isotropic Heisenberg group. Journal of Geometric Analysis, 2000, 10, 653-678.	1.0	20
126	An identity related to the riesz transforms on the heisenberg group. Complex Variables and Elliptic Equations, 2000, 40, 395-421.	0.2	1

#	Article	IF	CITATIONS
127	The uniqueness problem and meromorphic solutions of partial differential equations. Journal D'Analyse Mathematique, 1999, 77, 51-68.	0.8	3
128	Hardy spaces, BMO, and boundary value problems for the Laplacian on a smooth domain in \$mathbf R^N\$. Transactions of the American Mathematical Society, 1999, 351, 1605-1661.	0.9	83
129	Determining a surface breaking crack from steady-state electrical boundary measurements-numerical results. Inverse Problems in Science and Engineering, 1997, 5, 279-308.	0.5	1
130	Sobolev and Lipschitz estimates for weighted Bergman projections. Nagoya Mathematical Journal, 1997, 147, 147-178.	0.8	14
131	Estimates for spectral projection operators of the sub-laplacian on the heisenberg group. Journal D'Analyse Mathematique, 1997, 71, 315-347.	0.8	14
132	Commutation properties and lipschitz estimates for the Bergman and Szeg $\tilde{A}\P$ projections. Mathematische Zeitschrift, 1996, 223, 275-302.	0.9	3
133	Commutation properties and lipschitz estimates for the Bergman and Szeg $\tilde{A}\P$ projections. Mathematische Zeitschrift, 1996, 223, 275-302.	0.9	6
134	A note on wronskians and linear dependence of entire functions in. Complex Variables and Elliptic Equations, 1994, 24, 131-144.	0.2	11
135	A Morera type theorem forL 2 functions in the Heisenberg group. Journal D'Analyse Mathematique, 1991, 57, 282-296.	0.8	10
136	LP solutions to the parameterized Fredholm integral equations associated with Chandrasekhar kernels. Applicable Analysis, 0, , 1-18.	1.3	0
137	A twoâ€weight boundedness criterion on spaces of homogeneous type with its application to some elliptic boundary value problems. Mathematical Methods in the Applied Sciences, 0, , .	2.3	0