Loukas Grafakos

List of Publications by Year
in descending order

77 papers	4,150 citations	218677 26 h-index	118850 62 g-index
78 all docs	78 docs citations	78 times ranked	1154 citing authors

#	Article	IF	Citations
1	The multilinear Hörmander multiplier theorem with a Lorentz–Sobolev condition. Annali Di Matematica Pura Ed Applicata, 2022, 201, 111-126.	1.0	1
2	Bilinear maximal functions associated with surfaces. Proceedings of the American Mathematical Society, 2022, 150, 1635-1639.	0.8	1
3	Some Remarks on the Mikhlin–Hörmander and Marcinkiewicz Multiplier Theorems: A Short Historical Account and a Recent Improvement. Journal of Geometric Analysis, 2021, 31, 6987-7007.	1.0	3
4	Maximal Operators Associated with Bilinear Multipliers of Limited Decay. Journal D'Analyse Mathematique, 2021, 143, 231.	0.8	8
5	Characterization of multilinear multipliers in terms of Sobolev space regularity. Transactions of the American Mathematical Society, 2021, 374, 6483-6530.	0.9	2
6	An improvement of the Marcinkiewicz multiplier theorem. Israel Journal of Mathematics, 2021, 244, 163-184.	0.8	1
7	Multiplier conditions for Boundedness into Hardy spaces. Annales De L'Institut Fourier, 2021, 71, 1047-1064.	0.6	3
8	Fractional Fourier transforms on L and applications. Applied and Computational Harmonic Analysis, 2021, 55, 71-96.	2.2	32
9	A sharp variant of the Marcinkiewicz theorem with multipliers in Sobolev spaces of Lorentz type. Journal of Functional Analysis, 2021, 282, 109295.	1.4	0
10	On families between the Hardy–Littlewood and spherical maximal functions. Arkiv for Matematik, 2021, 59, 323-343.	0.5	2
11	$$L^2 \times L^2 \rightarrow L^1$$ L2×L2→L1 boundedness criteria. Mathematische Annalen, 2020, 376, 431-455.	1.4	15
12	Conditions for boundedness into Hardy spaces. Mathematische Nachrichten, 2019, 292, 2383-2410.	0.8	5
13	The Hörmander multiplier theorem, III: the complete bilinear case via interpolation. Monatshefte Fur Mathematik, 2019, 190, 735-753.	0.9	7
14	Failure of the Hörmander kernel condition for multilinear Calderón–Zygmund operators. Comptes Rendus Mathematique, 2019, 357, 382-388.	0.3	5
15	The Marcinkiewicz multiplier theorem revisited. Archiv Der Mathematik, 2019, 112, 191-203.	0.5	4
16	Multilinear Multiplier Theorems and Applications. Journal of Fourier Analysis and Applications, 2019, 25, 959-994.	1.0	11
17	A Sharp Version of the Hörmander Multiplier Theorem. International Mathematics Research Notices, 2019, 2019, 4764-4783.	1.0	14
18	The Hörmander multiplier theorem, II: The bilinear local $$L^2$$ L 2 case. Mathematische Zeitschrift, 2018, 289, 875-887.	0.9	10

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19	Rough bilinear singular integrals. Advances in Mathematics, 2018, 326, 54-78.	1.1	25
20	Bilinear spherical maximal function. Mathematical Research Letters, 2018, 25, 1369-1388.	0.5	13
21	Multilinear Fourier multipliers with minimal Sobolev regularity, II. Journal of the Mathematical Society of Japan, 2017, 69, .	0.4	18
22	The HÃ¶rmander multiplier theorem, I: The linear case revisited. Illinois Journal of Mathematics, 2017, 61, .	0.1	9
23	Certain Multi(sub)linear Square Functions. Potential Analysis, 2016, 45, 55-64.	0.9	1
24	Multilinear paraproducts revisited. Revista Matematica Iberoamericana, 2015, 31, 609-616.	0.9	1
25	Multilinear generalized Radon transforms and point configurations. Forum Mathematicum, 2015, 27, 2323-2360.	0.7	22
26	Weighted weak-type <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:mo stretchy="false">(</mml:mo><mml:mn>1</mml:mn><mml:mo>,</mml:mo><mml:mn>1</mml:mn><mml:mo) Tj ETQq0 0 0 rgBT /Overl Functional Analysis, 2015, 269, 1203-1233.		
27	The bilinear Bochner-Riesz problem. Journal D'Analyse Mathematique, 2015, 127, 179-217.	0.8	19
28	Best bounds for the Hilbert transform on $L^p(\mathbb{R}^1)$: A corrigendum. Mathematical Research Letters, 2015, 22, 1333-1335.	0.5	4
29	Multilinear Harmonic Analysis. Graduate Texts in Mathematics, 2014, , 479-588.	0.5	2
30	The Fourier transform of multiradial functions. Monatshefte Fur Mathematik, 2014, 175, 43-64.	0.9	1
31	Classical Fourier Analysis. Graduate Texts in Mathematics, 2014, , .	0.5	671
32	Modern Fourier Analysis. Graduate Texts in Mathematics, 2014, , .	0.5	282
33	The Kato-Ponce Inequality. Communications in Partial Differential Equations, 2014, 39, 1128-1157.	2.2	141
34	Analytic families of multilinear operators. Nonlinear Analysis: Theory, Methods & Applications, 2014, 107, 47-62.	1.1	12
35	On Multilinear Fourier Multipliers of Limited Smoothness. Canadian Journal of Mathematics, 2013, 65, 299-330.	0.6	54
36	On Fourier Transforms of Radial Functions and Distributions. Journal of Fourier Analysis and Applications, 2013, 19, 167-179.	1.0	42

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37	The HÃ¶rmander multiplier theorem for multilinear operators. Journal Fur Die Reine Und Angewandte Mathematik, 2012, 2012, .	0.9	19
38	A Weak-Type Estimate for Commutators. International Mathematics Research Notices, 2012, 2012, 4785-4796.	1.0	9
39	Carleson measures associated with families of multilinear operators. Studia Mathematica, 2012, 211, 71-94.	0.7	9
40	The multilinear Marcinkiewicz interpolation theorem revisited: The behavior of the constant. Journal of Functional Analysis, 2012, 262, 2289-2313.	1.4	17
41	The Multilinear Strong Maximal Function. Journal of Geometric Analysis, 2011, 21, 118-149.	1.0	34
42	Multiple-weighted norm inequalities for maximal multi-linear singular integrals with non-smooth kernels. Proceedings of the Royal Society of Edinburgh Section A: Mathematics, 2011, 141, 755-775.	1.2	27
43	Multilinear operators with non-smooth kernels and commutators of singular integrals. Transactions of the American Mathematical Society, 2010, 362, 2089-2113.	0.9	47
44	Translation-Invariant Bilinear Operators with Positive Kernels. Integral Equations and Operator Theory, 2010, 66, 253-264.	0.8	5
45	Boundedness of paraproduct operators on RD-spaces. Science China Mathematics, 2010, 53, 2097-2114.	1.7	13
46	Bilinear Fourier integral operators. Journal of Pseudo-Differential Operators and Applications, 2010, 1, 161-182.	0.7	9
47	The bilinear multiplier problem for strictly convex compact sets. Forum Mathematicum, 2010, 22, .	0.7	1
48	On an inequality of Sagher and Zhou concerning Stein's lemma. Collectanea Mathematica, 2009, 60, 297-306.	0.9	3
49	Modern Fourier Analysis. Graduate Texts in Mathematics, 2009, , .	0.5	353
50	vector-valued singular integrals and maximal functions on spaces of homogeneous type. Mathematica Scandinavica, 2009, 104, 296.	0.2	88
51	Maximal function characterizations of Hardy spaces on RD-spaces and their applications. Science in China Series A: Mathematics, 2008, 51, 2253-2284.	0.5	64
52	Classical Fourier Analysis. Graduate Texts in Mathematics, 2008, , .	0.5	666
53	On the p-independence boundedness property of CalderÃ³n-Zygmund theory. Journal Fur Die Reine Und Angewandte Mathematik, 2007, 2007, .	0.9	5
54	Unboundedness of the Ball Bilinear Multiplier Operator. Nagoya Mathematical Journal, 2007, 185, 151-159.	0.8	16

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55	The disc as a bilinear multiplier. American Journal of Mathematics, 2006, 128, 91-119.	1.1	32
56	Maximal transference and summability of multilinear Fourier series. Journal of the Australian Mathematical Society, 2006, 80, 65-80.	0.4	12
57	Interpolation of Bilinear Operators Between Quasi-Banach Spaces. Positivity, 2006, 10, 409-429.	0.7	8
58	Distributional estimates for the bilinear Hilbert transform. Journal of Geometric Analysis, 2006, 16, 563-584.	1.0	8
59	Weighted norm inequalities for maximally modulated singular integral operators. Mathematische Annalen, 2005, 331, 359-394.	1.4	30
60	Maximal functions associated with Fourier multipliers of Mikhlin-Hï¿½rmander type. Mathematische Zeitschrift, 2005, 249, 223-240.	0.9	18
61	INTERPLAY BETWEEN DISTRIBUTIONAL ESTIMATES AND BOUNDEDNESS IN HARMONIC ANALYSIS. Bulletin of the London Mathematical Society, 2005, 37, 427-434.	0.8	1
62	Extrapolation of Weighted norm inequalities for multivariable operators and applications. Journal of Geometric Analysis, 2004, 14, 19-46.	1.0	80
63	L p bounds for a maximal dyadic sum operator. Mathematische Zeitschrift, 2004, 246, 321-337.	0.9	19
64	Uniform bounds for the bilinear Hilbert transforms, I. Annals of Mathematics, 2004, 159, 889-933.	4.2	62
65	Multilinear interpolation between adjoint operators. Journal of Functional Analysis, 2003, 199, 379-385.	1.4	25
66	Maximal operator and weighted norm inequalities for multilinear singular integrals. Indiana University Mathematics Journal, 2002, 51, 1261-1276.	0.9	154
67	Multilinear CalderÃ³nâ€"Zygmund Theory. Advances in Mathematics, 2002, 165, 124-164.	1.1	440
68	Discrete decompositions for bilinear operators and almost diagonal conditions. Transactions of the American Mathematical Society, 2001, 354, 1153-1176.	0.9	35
69	Some remarks on multilinear maps and interpolation. Mathematische Annalen, 2001, 319, 151-180.	1.4	88
70	Characterization ofL p (R n) using Gabor frames. Journal of Fourier Analysis and Applications, 2001, 7, 101-126.	1.0	18
71	A Multilinear Schur Test and Multiplier Operators. Journal of Functional Analysis, 2001, 187, 1-24.	1.4	29
72	The Marcinkiewicz multiplier condition for bilinear operators. Studia Mathematica, 2001, 146, 115-156.	0.7	51

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73	Best Constants for Uncentred Maximal Functions. Bulletin of the London Mathematical Society, 1997, 29, 60-64.	0.8	57
74	On multilinear fractional integrals. Studia Mathematica, 1992, 102, 49-56.	0.7	83
75	Multilinear analysis on metric spaces. Dissertationes Mathematicae, 0, 497, 1-121.	1.0	22
76	Multilinear Fourier multiplierscr with minimal Sobolev regularity, I. Colloquium Mathematicum, 0, , 1-30.	0.3	18
77	On Sharp Olsenâ€™s and Trace Inequalities for Multilinear Fractional Integrals. Potential Analysis, 0, , 1.	0.9	0