Sergiu Klainerman

List of Publications by Year in descending order

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172457 206112 4,612 57 29 48 citations h-index g-index papers 57 57 57 934 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Singular limits of quasilinear hyperbolic systems with large parameters and the incompressible limit of compressible fluids. Communications on Pure and Applied Mathematics, 1981, 34, 481-524.	3.1	694
2	Compressible and incompressible fluids. Communications on Pure and Applied Mathematics, 1982, 35, 629-651.	3.1	464
3	Uniform decay estimates and the lorentz invariance of the classical wave equation. Communications on Pure and Applied Mathematics, 1985, 38, 321-332.	3.1	380
4	Global existence for nonlinear wave equations. Communications on Pure and Applied Mathematics, 1980, 33, 43-101.	3.1	302
5	Global, small amplitude solutions to nonlinear evolution equations. Communications on Pure and Applied Mathematics, 1983, 36, 133-141.	3.1	213
6	Global existence of small amplitude solutions to nonlinear klein-gordon equations in four space-time dimensions. Communications on Pure and Applied Mathematics, 1985, 38, 631-641.	3.1	196
7	Formation of singularities for wave equations including the nonlinear vibrating string. Communications on Pure and Applied Mathematics, 1980, 33, 241-263.	3.1	166
8	Almost global existence to nonlinear wave equations in three space dimensions. Communications on Pure and Applied Mathematics, 1984, 37, 443-455.	3.1	163
9	On almost global existence for nonrelativistic wave equations in 3D. Communications on Pure and Applied Mathematics, 1996, 49, 307-321.	3.1	134
10	Long-time behavior of solutions to nonlinear evolution equations. Archive for Rational Mechanics and Analysis, 1982, 78, 73-98.	2.4	133
11	The Global Nonlinear Stability of the Minkowski Space (PMS-41). , 1994, , .		133
12	On the Maxwell-Klein-Gordon equation with finite energy. Duke Mathematical Journal, 1994, 74, 19.	1.5	107
13	Remarks on the global sobolev inequalities in the minkowski space Rn+1. Communications on Pure and Applied Mathematics, 1987, 40, 111-117.	3.1	99
14	Rough solutions of the Einstein-vacuum equations. Annals of Mathematics, 2005, 161, 1143-1193.	4.2	97
15	On the Uniqueness of Solutions to the Gross-Pitaevskii Hierarchy. Communications in Mathematical Physics, 2008, 279, 169-185.	2.2	94
16	The Evolution Problem in General Relativity. , 2003, , .		88
17	Decay and regularity for the schrödinger equation. Journal D'Analyse Mathematique, 1992, 58, 25-37.	0.8	84
18	BILINEAR ESTIMATES AND APPLICATIONS TO NONLINEAR WAVE EQUATIONS. Communications in Contemporary Mathematics, 2002, 04, 223-295.	1.2	84

#	Article	IF	CITATIONS
19	On the optimal local regularity for the Yang-Mills equations in R^{-4+1} . Journal of the American Mathematical Society, 1999, 12, 93-116.	3.9	77
20	The causal structure of microlocalized rough Einstein metrics. Annals of Mathematics, 2005, 161, 1195-1243.	4.2	64
21	The bounded \$\$L^2\$\$ L 2 curvature conjecture. Inventiones Mathematicae, 2015, 202, 91-216.	2.5	62
22	Remark on the optimal regularity for equations of wave maps type. Communications in Partial Differential Equations, 1997, 22, 99-133.	2.2	60
23	Title is missing!. International Mathematics Research Notices, 1996, 1996, 201.	1.0	57
24	On local and global aspects of the Cauchy problem in general relativity. Classical and Quantum Gravity, 1999, 16, R73-R157.	4.0	56
25	Peeling properties of asymptotically flat solutions to the Einstein vacuum equations. Classical and Quantum Gravity, 2003, 20, 3215-3257.	4.0	51
26	On the regularity properties of a model problem related to wave maps. Duke Mathematical Journal, 1997, 87, 553.	1.5	47
27	On the uniqueness of smooth, stationary black holes in vacuum. Inventiones Mathematicae, 2009, 175, 35-102.	2.5	46
28	On the formation of trapped surfaces. Acta Mathematica, 2012, 208, 211-333.	3.9	45
29	Causal geometry of Einstein-Vacuum spacetimes with finite curvature flux. Inventiones Mathematicae, 2005, 159, 437-529.	2.5	39
30	Small-data shock formation in solutions to 3D quasilinear wave equations: An overview. Journal of Hyperbolic Differential Equations, 2016 , 13 , $1-105$.	0.5	32
31	PDE as a Unified Subject. , 2010, , 279-315.		32
32	Weighted Lâ^ž and L1 estimates for solutions to the classical wave equation in three space dimensions. Communications on Pure and Applied Mathematics, 1984, 37, 269-288.	3.1	31
33	Hawking's Local Rigidity Theorem Without Analyticity. Geometric and Functional Analysis, 2010, 20, 845-869.	1.8	28
34	Uniqueness Results for Ill-Posed Characteristic Problems in Curved Space-Times. Communications in Mathematical Physics, 2009, 285, 873-900.	2.2	27
35	Global Solution for Massive Maxwellâ€Kleinâ€Gordon Equations. Communications on Pure and Applied Mathematics, 2020, 73, 63-109.	3.1	24
36	On the radius of injectivity of null hypersurfaces. Journal of the American Mathematical Society, 2008, 21, 775-795.	3.9	24

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37	On the breakdown criterion in general relativity. Journal of the American Mathematical Society, 2009, 23, 345-382.	3.9	23
38	A fully anisotropic mechanism for formation of trapped surfaces in vacuum. Inventiones Mathematicae, 2014, 198, 1-26.	2.5	23
39	On the Global Stability of the Wave-map Equation in Kerr Spaces with Small Angular Momentum. Annals of PDE, 2015, $1, 1$.	1.8	20
40	A physical space approach to wave equation bilinear estimates. Journal D'Analyse Mathematique, 2002, 87, 299-336.	0.8	15
41	On the local extension of Killing vector-fields in Ricci flat manifolds. Journal of the American Mathematical Society, 2013, 26, 563-593.	3.9	13
42	On emerging scarred surfaces for the Einstein vacuum equations. Discrete and Continuous Dynamical Systems, 2010, 28, 1007-1031.	0.9	13
43	RICCI DEFECTS OF MICROLOCALIZED EINSTEIN METRICS. Journal of Hyperbolic Differential Equations, 2004, 01, 85-113.	0.5	12
44	A KIRCHOFF–SOBOLEV PARAMETRIX FOR THE WAVE EQUATION AND APPLICATIONS. Journal of Hyperbolic Differential Equations, 2007, 04, 401-433.	0.5	12
45	On Nash's unique contribution to analysis in just three of his papers. Bulletin of the American Mathematical Society, 2016, 54, 283-305.	1.5	10
46	BILINEAR ESTIMATES ON CURVED SPACE–TIMES. Journal of Hyperbolic Differential Equations, 2005, 02, 279-291.	0.5	9
47	Rough solutions of the Einstein vacuum equations. Comptes Rendus Mathematique, 2002, 334, 125-130.	0.3	8
48	Rigidity results in general relativity: A review. Journal of Differential Geometry, 2015, 20, 123-156.	1.0	7
49	On the Formation of Trapped Surfaces. Abel Symposia, 2012, , 181-206.	0.3	6
50	Mathematical Theory of Classical Fields and General Relativity. , 1992, , 213-236.		5
51	Sharp L^1 estimates for singular transport equations. Journal of the European Mathematical Society, 2008, 10, 477-505.	1.4	2
52	RECENT RESULTS IN MATHEMATICAL GR. International Journal of Modern Physics D, 2013, 22, 1330012.	2.1	1
53	Chapter Ten. On the Bounded L ² Curvature Conjecture., 2014,, 224-244.		0
54	RECENT RESULTS IN MATHEMATICAL GR. , 2015, , .		0

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#	Article	IF	CITATIONS
55	The resolution of the bounded L 2 curvature conjecture in general relativity. Bulletin of the Brazilian Mathematical Society, 2016, 47, 445-456.	0.8	O
56	The resolution of the bounded L^2 curvature conjecture in general relativity. Séminaire Laurent Schwartz â€" EDP Et Applications, 0, , 1-18.	0.0	0
57	The Unity of Partial Differential Equations. Inference, 2020, 5, .	0.0	O