

# Sergiu Klainerman

## List of Publications by Year in descending order

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57  
papers

4,612  
citations

172457

29  
h-index

206112

48  
g-index

57  
all docs

57  
docs citations

57  
times ranked

934  
citing authors

#	ARTICLE	IF	CITATIONS
1	Global Solution for Massive Maxwell-Klein-Gordon Equations. Communications on Pure and Applied Mathematics, 2020, 73, 63-109.	3.1	24
2	The Unity of Partial Differential Equations. Inference, 2020, 5, .	0.0	0
3	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
4	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
5	The resolution of the bounded $L^2$ curvature conjecture in general relativity. Bulletin of the Brazilian Mathematical Society, 2016, 47, 445-456.	0.8	0
6	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
7	The bounded $L^2$ curvature conjecture. Inventiones Mathematicae, 2015, 202, 91-216.	2.5	62
8	RECENT RESULTS IN MATHEMATICAL GR. , 2015, , .		0
9	Rigidity results in general relativity: A review. Journal of Differential Geometry, 2015, 20, 123-156.	1.0	7
10	Chapter Ten. On the Bounded $L^2$ Curvature Conjecture. , 2014, , 224-244.		0
11	A fully anisotropic mechanism for formation of trapped surfaces in vacuum. Inventiones Mathematicae, 2014, 198, 1-26.	2.5	23
12	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
13	RECENT RESULTS IN MATHEMATICAL GR. International Journal of Modern Physics D, 2013, 22, 1330012.	2.1	1
14	On the Formation of Trapped Surfaces. Abel Symposia, 2012, , 181-206.	0.3	6
15	On the formation of trapped surfaces. Acta Mathematica, 2012, 208, 211-333.	3.9	45
16	Hawking's Local Rigidity Theorem Without Analyticity. Geometric and Functional Analysis, 2010, 20, 845-869.	1.8	28
17	PDE as a Unified Subject. , 2010, , 279-315.		32
18	On emerging scarred surfaces for the Einstein vacuum equations. Discrete and Continuous Dynamical Systems, 2010, 28, 1007-1031.	0.9	13

#	ARTICLE	IF	CITATIONS
19	On the breakdown criterion in general relativity. <i>Journal of the American Mathematical Society</i> , 2009, 23, 345-382.	3.9	23
20	Uniqueness Results for Ill-Posed Characteristic Problems in Curved Space-Times. <i>Communications in Mathematical Physics</i> , 2009, 285, 873-900.	2.2	27
21	On the uniqueness of smooth, stationary black holes in vacuum. <i>Inventiones Mathematicae</i> , 2009, 175, 35-102.	2.5	46
22	On the Uniqueness of Solutions to the Gross-Pitaevskii Hierarchy. <i>Communications in Mathematical Physics</i> , 2008, 279, 169-185.	2.2	94
23	Sharp $L^1$ estimates for singular transport equations. <i>Journal of the European Mathematical Society</i> , 2008, 10, 477-505.	1.4	2
24	On the radius of injectivity of null hypersurfaces. <i>Journal of the American Mathematical Society</i> , 2008, 21, 775-795.	3.9	24
25	A KIRCHOFF-SOBOLEV PARAMETRIX FOR THE WAVE EQUATION AND APPLICATIONS. <i>Journal of Hyperbolic Differential Equations</i> , 2007, 04, 401-433.	0.5	12
26	Causal geometry of Einstein-Vacuum spacetimes with finite curvature flux. <i>Inventiones Mathematicae</i> , 2005, 159, 437-529.	2.5	39
27	BILINEAR ESTIMATES ON CURVED SPACE-TIMES. <i>Journal of Hyperbolic Differential Equations</i> , 2005, 02, 279-291.	0.5	9
28	Rough solutions of the Einstein-vacuum equations. <i>Annals of Mathematics</i> , 2005, 161, 1143-1193.	4.2	97
29	The causal structure of microlocalized rough Einstein metrics. <i>Annals of Mathematics</i> , 2005, 161, 1195-1243.	4.2	64
30	RICCI DEFECTS OF MICROLOCALIZED EINSTEIN METRICS. <i>Journal of Hyperbolic Differential Equations</i> , 2004, 01, 85-113.	0.5	12
31	Peeling properties of asymptotically flat solutions to the Einstein vacuum equations. <i>Classical and Quantum Gravity</i> , 2003, 20, 3215-3257.	4.0	51
32	The Evolution Problem in General Relativity. , 2003, , .		88
33	BILINEAR ESTIMATES AND APPLICATIONS TO NONLINEAR WAVE EQUATIONS. <i>Communications in Contemporary Mathematics</i> , 2002, 04, 223-295.	1.2	84
34	A physical space approach to wave equation bilinear estimates. <i>Journal D'Analyse Mathematique</i> , 2002, 87, 299-336.	0.8	15
35	Rough solutions of the Einstein vacuum equations. <i>Comptes Rendus Mathematique</i> , 2002, 334, 125-130.	0.3	8
36	On the optimal local regularity for the Yang-Mills equations in $\mathbb{R}^{4+1}$ . <i>Journal of the American Mathematical Society</i> , 1999, 12, 93-116.	3.9	77

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37	On local and global aspects of the Cauchy problem in general relativity. Classical and Quantum Gravity, 1999, 16, R73-R157.	4.0	56
38	Remark on the optimal regularity for equations of wave maps type. Communications in Partial Differential Equations, 1997, 22, 99-133.	2.2	60
39	On the regularity properties of a model problem related to wave maps. Duke Mathematical Journal, 1997, 87, 553.	1.5	47
40	On almost global existence for nonrelativistic wave equations in 3D. Communications on Pure and Applied Mathematics, 1996, 49, 307-321.	3.1	134
41	Title is missing!. International Mathematics Research Notices, 1996, 1996, 201.	1.0	57
42	On the Maxwell-Klein-Gordon equation with finite energy. Duke Mathematical Journal, 1994, 74, 19.	1.5	107
43	The Global Nonlinear Stability of the Minkowski Space (PMS-41)., 1994, , .		133
44	Decay and regularity for the schrödinger equation. Journal D'Analyse Mathematique, 1992, 58, 25-37.	0.8	84
45	Mathematical Theory of Classical Fields and General Relativity. , 1992, , 213-236.		5
46	Remarks on the global sobolev inequalities in the minkowski space $R^{n+1}$ . Communications on Pure and Applied Mathematics, 1987, 40, 111-117.	3.1	99
47	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
48	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
49	Weighted $L^\infty$ and $L^1$ 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
50	Almost global existence to nonlinear wave equations in three space dimensions. Communications on Pure and Applied Mathematics, 1984, 37, 443-455.	3.1	163
51	Global, small amplitude solutions to nonlinear evolution equations. Communications on Pure and Applied Mathematics, 1983, 36, 133-141.	3.1	213
52	Compressible and incompressible fluids. Communications on Pure and Applied Mathematics, 1982, 35, 629-651.	3.1	464
53	Long-time behavior of solutions to nonlinear evolution equations. Archive for Rational Mechanics and Analysis, 1982, 78, 73-98.	2.4	133
54	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

#	ARTICLE	IF	CITATIONS
55	Global existence for nonlinear wave equations. Communications on Pure and Applied Mathematics, 1980, 33, 43-101.	3.1	302
56	Formation of singularities for wave equations including the nonlinear vibrating string. Communications on Pure and Applied Mathematics, 1980, 33, 241-263.	3.1	166
57	The resolution of the bounded $L^2$ curvature conjecture in general relativity. Séminaire Laurent Schwartz "EDP Et Applications", 0, , 1-18.	0.0	0