Jason Metcalfe

List of Publications by Year
in descending order

34 papers	809 citations	516710 16 h-index	501196 28 g-index
34 all docs	34 docs citations	34 times ranked	170 citing authors

#	Article	IF	Citations
1	Strichartz Estimates on Schwarzschild Black Hole Backgrounds. Communications in Mathematical Physics, 2010, 293, 37-83.	2.2	76
2	Long-Time Existence of Quasilinear Wave Equations Exterior to Star-Shaped Obstacles via Energy Methods. SIAM Journal on Mathematical Analysis, 2006, 38, 188-209.	1.9	72
3	Strichartz estimates and local smoothing estimates for asymptotically flat Schrödinger equations. Journal of Functional Analysis, 2008, 255, 1497-1553.	1.4	70
4	Price's law on nonstationary space–times. Advances in Mathematics, 2012, 230, 995-1028.	1.1	70
5	Global parametrices and dispersive estimates for variable coefficient wave equations. Mathematische Annalen, 2012, 353, 1183-1237.	1.4	59
6	Global existence of null-form wave equations in exterior domains. Mathematische Zeitschrift, 2007, 256, 521-549.	0.9	53
7	On abstract Strichartz estimates and the Strauss conjecture for nontrapping obstacles. Transactions of the American Mathematical Society, 2010, 362, 2789-2809.	0.9	44
8	Hyperbolic trapped rays and global existence of quasilinear wave equations. Inventiones Mathematicae, 2005, 159, 75-117.	2.5	40
9	Concerning the Strauss Conjecture and Almost Global Existence for Nonlinear Dirichlet-Wave Equations in 4-Dimensions. Communications in Partial Differential Equations, 2008, 33, 1487-1506.	2.2	31
10	The Strauss conjecture on Kerr black hole backgrounds. Mathematische Annalen, 2014, 359, 637-661.	1.4	31
11	Global Existence of Solutions to Multiple Speed Systems of Quasilinear Wave Equations in Exterior Domains. Forum Mathematicum, 2005, 17, .	0.7	25
12	Global existence of quasilinear, nonrelativistic wave equations satisfying the null condition. Japanese Journal of Mathematics, 2005, 31, 391-472.	2.1	23
13	Quasilinear Schrödinger equations I: Small data and quadratic interactions. Advances in Mathematics, 2012, 231, 1151-1172.	1.1	23
14	Nonlinear Hyperbolic Equations in Infinite Homogeneous Waveguides. Communications in Partial Differential Equations, 2005, 30, 643-661.	2.2	20
15	Paraproducts in one and several parameters. Forum Mathematicum, 2007, 19, .	0.7	17
16	Global Existence for Dirichlet-wave Equations with Quadratic Nonlinearities in High Dimensions. Mathematische Annalen, 2006, 336, 391-420.	1.4	16
17	Decay Estimates for Variable Coefficient Wave Equations in Exterior Domains. Progress in Nonlinear Differential Equations and Their Application, 2009, , 201-216.	0.9	15
18	Global existence for high dimensional quasilinear wave equations exterior to star-shaped obstacles. Discrete and Continuous Dynamical Systems, 2010, 28, 1589-1601.	0.9	15

#	Article	IF	Citations
19	Pointwise decay for the Maxwell field on black hole space–times. Advances in Mathematics, 2017, 316, 53-93.	1.1	14
20	Wave packet parametrices for evolutions governed by pdo's with rough symbols. Proceedings of the American Mathematical Society, 2007, 136, 597-604.	0.8	13
21	Quasilinear Schrödinger equations, II: Small data and cubic nonlinearities. Kyoto Journal of Mathematics, 2014, 54, .	0.3	12
22	The Strauss Conjecture on Asymptotically Flat Space-Times. SIAM Journal on Mathematical Analysis, 2017, 49, 4579-4594.	1.9	11
23	Quasilinear Schrödinger Equations III: Large Data and Short Time. Archive for Rational Mechanics and Analysis, 2021, 242, 1119-1175.	2.4	10
24	Nonlinear Bound States on Weakly Homogeneous Spaces. Communications in Partial Differential Equations, 2014, 39, 34-97.	2.2	9
25	Localized energy estimates for wave equations on high-dimensional Schwarzschild space-times. Proceedings of the American Mathematical Society, 2012, 140, 3247-3262.	0.8	8
26	Local energy decay for scalar fields on time dependent non-trapping backgrounds. American Journal of Mathematics, 2020, 142, 821-883.	1.1	7
27	Localized Energy Estimates for Wave Equations on (1+4)-dimensional Myers--Perry Space-times. SIAM Journal on Mathematical Analysis, 2015, 47, 1933-1957.	1.9	6
28	General quasilinear wave equations with localized dissipation in exterior domains. Journal of Differential Equations, 2007, 233, 313-344.	2.2	4
29	Almost global existence for quasilinear wave equations in waveguides with Neumann boundary conditions. Transactions of the American Mathematical Society, 2008, 360, 171-189.	0.9	4
30	The lifespan for 3-dimensional quasilinear wave equations in exterior domains. Forum Mathematicum, 2014, 26, 1883-1918.	0.7	4
31	Localized energy for wave equations with degenerate trapping. Mathematical Research Letters, 2019, 26, 991-1025.	0.5	4
32	Global existence for systems of quasilinear wave equations in (1 + 4)-dimensions. Journal of Differential Equations, 2020, 268, 2309-2331.	2.2	2
33	Global existence for a coupled wave system related to the Strauss conjecture. Communications on Pure and Applied Analysis, 2018, 17, 593-604.	0.8	1
34	Global solutions to quasilinear wave equations in homogeneous waveguides with Neumann boundary conditions. Communications on Pure and Applied Analysis, 2012, 11, 547-556.	0.8	0