

Thomas C Sideris

List of Publications by Year in descending order

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citations

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docs citations

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times ranked

498
citing authors

#	ARTICLE	IF	CITATIONS
1	Global existence of small displacement solutions for Hookean incompressible viscoelasticity in 3D. Kinetic and Related Models, 2022, 15, 621.	0.5	1
2	Affine Motion of 2d Incompressible Fluids Surrounded by Vacuum and Flows in $\mathbb{S}^2 \times \mathbb{R}^3$. Communications in Mathematical Physics, 2020, 375, 1003-1040.	1.0	2
3	Global Existence of Near-Affine Solutions to the Compressible Euler Equations. Archive for Rational Mechanics and Analysis, 2019, 234, 115-180.	1.1	13
4	Global Existence and Asymptotic Behavior of Affine Motion of 3D Ideal Fluids Surrounded by Vacuum. Archive for Rational Mechanics and Analysis, 2017, 225, 141-176.	1.1	35
5	Almost global existence for 2-D incompressible isotropic elastodynamics. Transactions of the American Mathematical Society, 2015, 367, 8175-8197.	0.5	42
6	Spreading of the free boundary of an ideal fluid in a vacuum. Journal of Differential Equations, 2014, 257, 1-14.	1.1	26
7	Turbulence properties and global regularity of a modified Navier-Stokes equation. Physica D: Nonlinear Phenomena, 2013, 254, 18-23.	1.3	4
8	Stability in H^1 of circular vortex patches. Proceedings of the American Mathematical Society, 2009, 137, 4199-4202.	0.4	16
9	Global existence for three-dimensional incompressible isotropic elastodynamics. Communications on Pure and Applied Mathematics, 2007, 60, 1707-1730.	1.2	62
10	LOCAL ENERGY DECAY FOR SOLUTIONS OF MULTI-DIMENSIONAL ISOTROPIC SYMMETRIC HYPERBOLIC SYSTEMS. Journal of Hyperbolic Differential Equations, 2006, 03, 673-690.	0.3	23
11	Global existence for three-dimensional incompressible isotropic elastodynamics via the incompressible limit. Communications on Pure and Applied Mathematics, 2005, 58, 750-788.	1.2	80
12	Long Time Behavior of Solutions to the 3D Compressible Euler Equations with Damping. Communications in Partial Differential Equations, 2003, 28, 795-816.	1.0	169
13	Convergence of the ghost fluid method for elliptic equations with interfaces. Mathematics of Computation, 2003, 72, 1731-1747.	1.1	76
14	Global Existence for Systems of Nonlinear Wave Equations in 3D with Multiple Speeds. SIAM Journal on Mathematical Analysis, 2001, 33, 477-488.	0.9	76
15	Nonresonance and Global Existence of Prestressed Nonlinear Elastic Waves. Annals of Mathematics, 2000, 151, 849.	2.1	122
16	On the evolution of compactly supported planar vorticity. Communications in Partial Differential Equations, 1999, 24, 159-182.	1.0	8
17	Delayed singularity formation in 2D compressible flow. American Journal of Mathematics, 1997, 119, 371-422.	0.5	46
18	The null condition and global existence of nonlinear elastic waves. Inventiones Mathematicae, 1996, 123, 323-342.	1.3	59

#	ARTICLE	IF	CITATIONS
19	On almost global existence for nonrelativistic wave equations in 3D. <i>Communications on Pure and Applied Mathematics</i> , 1996, 49, 307-321.	1.2	134
20	The null condition and global existence of nonlinear elastic waves. <i>Inventiones Mathematicae</i> , 1996, 123, 323-342.	1.3	53
21	Finite time singularities in ideal fluids with swirl. <i>Physica D: Nonlinear Phenomena</i> , 1995, 88, 116-132.	1.3	21
22	Local regularity of nonlinear wave equations in three space dimensions. <i>Communications in Partial Differential Equations</i> , 1993, 18, 169-177.	1.0	75
23	Numerical computation of 3D incompressible ideal fluids with swirl. <i>Physical Review Letters</i> , 1991, 67, 3511-3514.	2.9	79
24	Title is missing!. <i>Indiana University Mathematics Journal</i> , 1991, 40, 535.	0.4	30
25	Decay estimates for the three-dimensional inhomogeneous klein-gordon equation and applications. <i>Communications in Partial Differential Equations</i> , 1989, 14, 1421-1455.	1.0	14
26	Global existence of harmonic maps in minkowski space. <i>Communications on Pure and Applied Mathematics</i> , 1989, 42, 1-13.	1.2	45
27	Formation of singularities in three-dimensional compressible fluids. <i>Communications in Mathematical Physics</i> , 1985, 101, 475-485.	1.0	391
28	Nonexistence of global solutions to semilinear wave equations in high dimensions. <i>Journal of Differential Equations</i> , 1984, 52, 378-406.	1.1	212
29	Formation of singularities in solutions to nonlinear hyperbolic equations. <i>Archive for Rational Mechanics and Analysis</i> , 1984, 86, 369-381.	1.1	77
30	Global behavior of solutions to nonlinear wave equations in three dimensions. <i>Communications in Partial Differential Equations</i> , 1983, 8, 1291-1323.	1.0	85