Slim Tayachi

List of Publications by Year
in descending order

28 papers	332 citations	840776 11 h-index	839539 18 g-index
28 all docs	28 docs citations	28 times ranked	96 citing authors

#	Article	IF	Citations
1	Optimal condition for non-simultaneous blow-up in a reaction-diffusion system. Journal of the Mathematical Society of Japan, 2004, 56, 571.	0.4	56
2	Asymptotically self-similar global solutions of a general semilinear heat equation. Mathematische Annalen, 2001, 321, 131-155.	1.4	31
3	Asymptotically self-similar global solutions of a semilinear parabolic equation with a nonlinear gradient term. Proceedings of the Royal Society of Edinburgh Section A: Mathematics, 1999, 129, 1291-1307.	1.2	28
4	Exact self-similar blow-up of solutions of a semilinear parabolic equation with a nonlinear gradient term. Indiana University Mathematics Journal, 1996, 45, 0-0.	0.9	25
5	Global existence, asymptotic behavior and self-similar solutions for a class of semilinear parabolic systems. Nonlinear Analysis: Theory, Methods & Applications, 2002, 48, 13-35.	1.1	21
6	Well-posedness, global existence and large time behavior for Hardy–Hénon parabolic equations. Nonlinear Analysis: Theory, Methods & Applications, 2017, 152, 116-148.	1.1	19
7	Blowup rates for nonlinear heat equations with gradient terms and for parabolic inequalities. Colloquium Mathematicum, 2001, 88, 135-154.	0.3	18
8	Existence of a stable blow-up profile for the nonlinear heat equation with a critical power nonlinear gradient term. Transactions of the American Mathematical Society, 2019, 371, 5899-5972.	0.9	16
9	Local well-posedness for the inhomogeneous nonlinear Schrödinger equation. Discrete and Continuous Dynamical Systems, 2021, 41, 5409.	0.9	16
10	Improved conditions for single-point blow-up in reaction–diffusion systems. Journal of Differential Equations, 2015, 259, 1898-1932.	2.2	14
11	Uniqueness and non-uniqueness of solutions for critical Hardy-Hénon parabolic equations. Journal of Mathematical Analysis and Applications, 2020, 488, 123976.	1.0	13
12	The nonlinear heat equation with high order mixed derivatives of the Dirac delta as initial values. Transactions of the American Mathematical Society, 2013, 366, 505-530.	0.9	11
13	ASYMPTOTIC SELF-SIMILAR BEHAVIOR OF SOLUTIONS FOR A SEMILINEAR PARABOLIC SYSTEM. Communications in Contemporary Mathematics, 2001, 03, 363-392.	1.2	10
14	Large time behavior of solutions for parabolic equations with nonlinear gradient terms. Hokkaido Mathematical Journal, 2007, 36, .	0.3	9
15	Single-point blow-up for parabolic systems with exponential nonlinearities and unequal diffusivities. Nonlinear Analysis: Theory, Methods & Applications, 2016, 138, 428-447.	1.1	7
16	The heat semigroup on sectorial domains, highly singular initial values and applications. Journal of Evolution Equations, 2016, 16, 341-364.	1.1	7
17	Remarks on the Cauchy problem for the one-dimensional quadratic (fractional) heat equation. Journal of Functional Analysis, 2015, 269, 2305-2327.	1.4	6
18	Uniqueness for the thin-film equation with a Dirac mass as initial data. Proceedings of the American Mathematical Society, 2018, 146, 2623-2635.	0.8	5

#	Article	IF	Citations
19	The nonlinear heat equation involving highly singular initial values and new blowup and life span results. Journal of Elliptic and Parabolic Equations, 2018, 4, 141-176.	0.9	4
20	Nonglobal Existence of Solutions for a Generalized Ginzburgâ€"Landau Equation Coupled with a Poisson Equation. Journal of Mathematical Analysis and Applications, 2001, 254, 558-570.	1.0	3
21	Relaxation to Equilibrium in the One-Dimensional Thin-Film Equation with Partial Wetting and Linear Mobility. Communications in Mathematical Physics, 2021, 385, 837-857.	2.2	3
22	WELL-POSEDNESS, GLOBAL EXISTENCE AND DECAY ESTIMATES FOR THE HEAT EQUATION WITH GENERAL POWER-EXPONENTIAL NONLINEARITIES. , 2019, , .		3
23	Large time behavior of solutions for a complex-valued quadratic heat equation. Nonlinear Differential Equations and Applications, 2015, 22, 1005-1045.	0.8	2
24	Global Existence and Decay Estimates for the Heat Equation with Exponential Nonlinearity. Funkcialaj Ekvacioj, 2021, 64, 237-259.	0.3	2
25	ASYMPTOTICALLY SELF-SIMILAR GLOBAL SOLUTIONS OF A DAMPED WAVE EQUATION. Communications in Contemporary Mathematics, 2007, 09, 253-277.	1.2	1
26	Different asymptotic behavior of global solutions for a parabolic system with nonlinear gradient terms. Journal of Mathematical Analysis and Applications, 2012, 387, 970-992.	1.0	1
27	Global existence and asymptotic behavior of solutions for the complex-valued nonlinear heat equation. Annales Polonici Mathematici, 2018, 121, 99-131.	0.5	1
28	Large Time Behavior of Solutions to the Nonlinear Heat Equation with Absorption with Highly Singular Antisymmetric Initial Values. Advanced Nonlinear Studies, 2020, 20, 311-337.	1.7	0