Pierre Magal

List of Publications by Year in descending order

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١			186265	161849
	118	3,495	28	54
	papers	citations	h-index	g-index
	125	125	125	2212
	all docs	docs citations	times ranked	citing authors

#	Article	IF	CITATIONS
1	Global Attractors and Steady States for Uniformly Persistent Dynamical Systems. SIAM Journal on Mathematical Analysis, 2005, 37, 251-275.	1.9	419
2	Lyapunov functional and global asymptotic stability for an infection-age model. Applicable Analysis, 2010, 89, 1109-1140.	1.3	247
3	Understanding Unreported Cases in the COVID-19 Epidemic Outbreak in Wuhan, China, and the Importance of Major Public Health Interventions. Biology, 2020, 9, 50.	2.8	192
4	A COVID-19 epidemic model with latency period. Infectious Disease Modelling, 2020, 5, 323-337.	1.9	181
5	A model of antibiotic-resistant bacterial epidemics in hospitals. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 13343-13348.	7.1	135
6	Modeling antibiotic resistance in hospitals: The impact of minimizing treatment duration. Journal of Theoretical Biology, 2007, 249, 487-499.	1.7	119
7	Different Modalities of Intercellular Membrane Exchanges Mediate Cell-to-cell P-glycoprotein Transfers in MCF-7 Breast Cancer Cells. Journal of Biological Chemistry, 2012, 287, 7374-7387.	3.4	114
8	Predicting the cumulative number of cases for the COVID-19 epidemic in China from early data. Mathematical Biosciences and Engineering, 2020, 17, 3040-3051.	1.9	108
9	The Impact of Different Antibiotic Regimens on the Emergence of Antimicrobial-Resistant Bacteria. PLoS ONE, 2008, 3, e4036.	2.5	92
10	Travelling wave solutions for an infection-age structured epidemic model with external supplies. Nonlinearity, 2011, 24, 2891-2911.	1.4	91
11	Travelling Wave Solutions in Multigroup Age-Structured Epidemic Models. Archive for Rational Mechanics and Analysis, 2010, 195, 311-331.	2.4	83
12	Hopf bifurcation for non-densely defined Cauchy problems. Zeitschrift Fur Angewandte Mathematik Und Physik, 2011, 62, 191-222.	1.4	74
13	Theory and Applications of Abstract Semilinear Cauchy Problems. Applied Mathematical Sciences (Switzerland), 2018, , .	0.8	73
14	Predicting the number of reported and unreported cases for the COVID-19 epidemics in China, South Korea, Italy, France, Germany and United Kingdom. Journal of Theoretical Biology, 2021, 509, 110501.	1.7	72
15	Essential growth rate for bounded linear perturbation of non-densely defined Cauchy problems. Journal of Mathematical Analysis and Applications, 2008, 341, 501-518.	1.0	69
16	Center manifolds for semilinear equations with non-dense domain and applications to Hopf bifurcation in age structured models. Memoirs of the American Mathematical Society, 2009, 202, 0-0.	0.9	69
17	On the Basic Reproduction Number of Reaction-Diffusion Epidemic Models. SIAM Journal on Applied Mathematics, 2019, 79, 284-304.	1.8	67
18	Two-Group Infection Age Model Including an Application to Nosocomial Infection. SIAM Journal on Applied Mathematics, 2013, 73, 1058-1095.	1.8	58

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19	Consequences of cell-to-cell P-glycoprotein transfer on acquired multidrug resistance in breast cancer: a cell population dynamics model. Biology Direct, 2011, 6, 5.	4.6	54
20	The parameter identification problem for SIR epidemic models: identifying unreported cases. Journal of Mathematical Biology, 2018, 77, 1629-1648.	1.9	53
21	A model for ovine brucellosis incorporating direct and indirect transmission. Journal of Biological Dynamics, 2010, 4, 2-11.	1.7	51
22	On a vector-host epidemic model with spatial structure. Nonlinearity, 2018, 31, 5589-5614.	1.4	48
23	SI epidemic model applied to COVID-19 data in mainland China. Royal Society Open Science, 2020, 7, 201878.	2.4	44
24	A Model of the 2014 Ebola Epidemic in West Africa with Contact Tracing. PLOS Currents, 2015, 7, .	1.4	44
25	Qualitative analysis and travelling wave solutions for the SI model with vertical transmission. Communications on Pure and Applied Analysis, 2012, 11, 97-113.	0.8	40
26	Final Size of an Epidemic for a Two-Group SIR Model. SIAM Journal on Applied Mathematics, 2016, 76, 2042-2059.	1.8	39
27	Hopf bifurcation in a size-structured population dynamic model with random growth. Journal of Differential Equations, 2009, 247, 956-1000.	2.2	37
28	Normal forms for semilinear equations with non-dense domain with applications to age structured models. Journal of Differential Equations, 2014, 257, 921-1011.	2.2	30
29	Modelling the transmission dynamics of meticillin-resistant Staphylococcus aureus in Beijing Tongren hospital. Journal of Hospital Infection, 2011, 79, 302-308.	2.9	29
30	Existence of Periodic Solutions for a State Dependent Delay Differential Equation. Journal of Differential Equations, 2000, 165, 61-95.	2.2	27
31	AN <i>IN VITRO</i> CELL POPULATION DYNAMICS MODEL INCORPORATING CELL SIZE, QUIESCENCE, AND CONTACT INHIBITION. Mathematical Models and Methods in Applied Sciences, 2011, 21, 871-892.	3.3	27
32	Perturbation of a Globally Stable Steady State and Uniform Persistence. Journal of Dynamics and Differential Equations, 2009, 21, 1-20.	1.9	26
33	Projectors on the generalized eigenspaces for functional differential equations using integrated semigroups. Journal of Differential Equations, 2008, 244, 1784-1809.	2.2	24
34	Integrated semigroups and parabolic equations. Part I: linear perburbation of almost sectorial operators. Journal of Evolution Equations, 2010, 10, 263-291.	1.1	24
35	Susceptible-infectious-recovered models revisited: From the individual level to the population level. Mathematical Biosciences, 2014, 250, 26-40.	1.9	24
36	Final size of a multi-group SIR epidemic model: Irreducible and non-irreducible modes of transmission. Mathematical Biosciences, 2018, 301, 59-67.	1.9	24

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37	Optimal Control of Harvesting in a Nonlinear Elliptic System Arising from Population Dynamics. Journal of Mathematical Analysis and Applications, 2001, 254, 571-586.	1.0	22
38	Sustained oscillations in an evolutionary epidemiological model of influenza A drift. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2010, 466, 965-992.	2.1	21
39	An Environmental Model of Honey Bee Colony Collapse Due to Pesticide Contamination. Bulletin of Mathematical Biology, 2019, 81, 4908-4931.	1.9	21
40	Mathematical Parameters of the COVID-19 Epidemic in Brazil and Evaluation of the Impact of Different Public Health Measures. Biology, 2020, 9, 220.	2.8	21
41	Asymptotic Behavior in a Salmonella Infection Model. Mathematical Modelling of Natural Phenomena, 2007, 2, 1-25.	2.4	20
42	Unreported Cases for Age Dependent COVID-19 Outbreak in Japan. Biology, 2020, 9, 132.	2.8	19
43	A model of Salmonella infection within industrial house hens. Journal of Theoretical Biology, 2006, 242, 755-763.	1.7	17
44	Turing and Turing–Hopf Bifurcations for a Reaction Diffusion Equation with Nonlocal Advection. Journal of Nonlinear Science, 2018, 28, 1959-1997.	2.1	17
45	Oscillations in age-structured models of consumer-resource mutualisms. Discrete and Continuous Dynamical Systems - Series B, 2015, 21, 537-555.	0.9	16
46	Monotone abstract non-densely defined Cauchy problems applied to age structured population dynamic models. Journal of Mathematical Analysis and Applications, 2019, 479, 450-481.	1.0	15
47	Modeling Vaccine Efficacy for COVID-19 Outbreak in New York City. Biology, 2022, 11, 345.	2.8	15
48	Competition for light in forest population dynamics: From computer simulator to mathematical model. Journal of Theoretical Biology, 2017, 419, 290-304.	1.7	14
49	Identifying the number of unreported cases in SIR epidemic models. Mathematical Medicine and Biology, 2020, 37, 243-261.	1.2	14
50	Clarifying predictions for COVID-19 from testing data: The example of New York State. Infectious Disease Modelling, 2021, 6, 273-283.	1.9	14
51	Projectors on the Generalized Eigenspaces for Partial Differential Equations with Time Delay. Fields Institute Communications, 2013, , 353-390.	1.3	14
52	Predicting the Number of Reported and Unreported Cases for the COVID-19 Epidemic in South Korea, Italy, France and Germany. SSRN Electronic Journal, 0 , , .	0.4	14
53	A robust phenomenological approach to investigate COVID-19 data for France. Mathematics in Applied Sciences and Engineering, 0, , 1-12.	0.8	13
54	A spatio-temporal model to describe the spread of Salmonella within a laying flock. Journal of Theoretical Biology, 2010, 267, 595-604.	1.7	12

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55	A spatial model of honey bee colony collapse due to pesticide contamination of foraging bees. Journal of Mathematical Biology, 2020, 80, 2363-2393.	1.9	12
56	What can we learn from COVID-19 data by using epidemic models with unidentified infectious cases?. Mathematical Biosciences and Engineering, 2021, 19, 537-594.	1.9	12
57	Analysis of a Model for Transfer Phenomena in Biological Populations. SIAM Journal on Applied Mathematics, 2009, 70, 40-62.	1.8	11
58	Normal Forms for an Age Structured Model. Journal of Dynamics and Differential Equations, 2016, 28, 733-761.	1.9	11
59	Effect of genetic resistance of the hen toSalmonellacarrier-state on incidence of bacterial contamination: synergy with vaccination. Veterinary Research, 2008, 39, 20.	3.0	11
60	Preface. Journal of Biological Dynamics, 2010, 4, 1-1.	1.7	10
61	Persistence of Exponential Trichotomy for Linear Operators: A Lyapunov–Perron Approach. Journal of Dynamics and Differential Equations, 2016, 28, 93-126.	1.9	10
62	Large speed traveling waves for the Rosenzweig–MacArthur predator–prey model with spatial diffusion. Physica D: Nonlinear Phenomena, 2021, 415, 132730.	2.8	10
63	Hopf bifurcation for a spatially and age structured population dynamics model. Discrete and Continuous Dynamical Systems - Series B, 2015, 20, 1735-1757.	0.9	9
64	A cell–cell repulsion model on a hyperbolic Keller–Segel equation. Journal of Mathematical Biology, 2020, 80, 2257-2300.	1.9	9
65	Semilinear Cauchy Problems with Non-dense Domain. Applied Mathematical Sciences (Switzerland), 2018, , 217-248.	0.8	9
66	Hopf bifurcation in an age-structured population model with two delays. Communications on Pure and Applied Analysis, 2015, 14, 657-676.	0.8	8
67	Predicting the Cumulative Number of Cases for the COVID-19 Epidemic in China from Early Data. SSRN Electronic Journal, 0 , , .	0.4	8
68	Hopf Bifurcation for a Maturity Structured Population Dynamic Model. Journal of Nonlinear Science, 2011, 21, 521-562.	2.1	7
69	Asymptotic Behavior of a Nonlocal Diffusive Logistic Equation. SIAM Journal on Mathematical Analysis, 2014, 46, 1731-1753.	1.9	7
70	A Finite-time Condition for Exponential Trichotomy in Infinite Dynamical Systems. Canadian Journal of Mathematics, 2015, 67, 1065-1090.	0.6	7
71	Bogdanov–Takens bifurcation in a predator–prey model. Zeitschrift Fur Angewandte Mathematik Und Physik, 2016, 67, 1.	1.4	7
72	Singular perturbation for an abstract non-densely defined Cauchy problem. Journal of Evolution Equations, 2017, 17, 1089-1128.	1.1	7

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73	Controllability with Positivity Constraints of the LotkaMcKendrick System. SIAM Journal on Control and Optimization, 2018, 56, 723-750.	2.1	7
74	Hopf bifurcation for a size-structured model with resting phase. Discrete and Continuous Dynamical Systems, 2013, 33, 4891-4921.	0.9	7
75	A system of state-dependent delay differential equation modelling forest growth II: Boundedness of solutions. Nonlinear Analysis: Real World Applications, 2018, 42, 334-352.	1.7	6
76	A Model of Vaccination for Dengue in the Philippines 2016–2018. Frontiers in Applied Mathematics and Statistics, 2021, 7, .	1.3	6
77	Mutation and recombination in a model of phenotype evolution. Journal of Evolution Equations, 2002, 2, 21-39.	1.1	5
78	A center manifold for second order semilinear differential equations on the real line and applications to the existence of wave trains for the Gurtin–McCamy equation. Transactions of the American Mathematical Society, 2019, 372, 3487-3537.	0.9	5
79	Existence and uniqueness of solutions for a hyperbolic Keller�CSegel equation. Discrete and Continuous Dynamical Systems - Series B, 2021, 26, 1931-1966.	0.9	5
80	Spatial spread of epidemic diseases in geographical settings: Seasonal influenza epidemics in Puerto Rico. Discrete and Continuous Dynamical Systems - Series B, 2020, 25, 2185-2202.	0.9	5
81	Projectors on the Generalized Eigenspaces for Neutral Functional Differential Equations in L ^p Spaces. Canadian Journal of Mathematics, 2010, 62, 74-93.	0.6	4
82	A Holling Predator-Prey Model with Handling and Searching Predators. SIAM Journal on Applied Mathematics, 2020, 80, 1778-1795.	1.8	4
83	NONLINEAR BOUNDARY CONDITIONS DERIVED BY SINGULAR PERTUBATION IN AGE STRUCTURED POPULATION DYNAMICS MODEL. Journal of Applied Analysis and Computation, 2011, 1, 373-395.	0.5	4
84	Multiple travelling waves for an \$SI\$-epidemic model. Networks and Heterogeneous Media, 2013, 8, 171-190.	1.1	4
85	Variation of constants formula andÂexponential dichotomy for nonautonomous non-densely defined Cauchy problems. Canadian Journal of Mathematics, 2021, 73, 1347-1389.	0.6	4
86	Bogdanov–Takens bifurcation in a predator–prey model with age structure. Zeitschrift Fur Angewandte Mathematik Und Physik, 2021, 72, 1.	1.4	3
87	Sharp discontinuous traveling waves in a hyperbolic Keller–Segel equation. Mathematical Models and Methods in Applied Sciences, 2021, 31, 861-905.	3.3	3
88	Understanding Unreported Cases in the 2019-Ncov Epidemic Outbreak in Wuhan, China, and the Importance of Major Public Health Interventions (ä¸åɔ½æ-{汉新å†ç–«æƒ…䏿œªæŠ¥å'Šæœ‰ç–‡çжç–	.ä¾:çš"æ•	° <i>é</i> ‡åŠå¬å
89	A Uniqueness Result for Nontrivial Steady States of a Density-dependent Population Dynamics Model. Journal of Mathematical Analysis and Applications, 1999, 233, 148-168.	1.0	2
90	A Model for Transfer of P-Glycoproteins in MCF-7 Breast Cancer Cell Line with Multiple Transfer Rules. Bulletin of Mathematical Biology, 2017, 79, 2049-2067.	1.9	2

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91	Numerical simulations of a population dynamic model describing parasite destruction in a wild type pine forest. Ecological Complexity, 2018, 34, 147-160.	2.9	2
92	A system of state-dependent delay differential equation modeling forest growth I: semiflow properties. Journal of Evolution Equations, 2018, 18, 1853-1888.	1.1	2
93	Persistence of a normally hyperbolic manifold for a system of non densely defined Cauchy problems. Journal of Differential Equations, 2019, 267, 2950-3008.	2.2	2
94	Direct and indirect P-glycoprotein transfers in MCF7 breast cancer cells. Journal of Theoretical Biology, 2019, 461, 239-253.	1.7	2
95	An integrated semigroup approach for age structured equations with diffusion and non-homogeneous boundary conditions. Nonlinear Differential Equations and Applications, 2021, 28, 1.	0.8	2
96	Global stability for differential equations with homogeneous nonlinearity and application to population dynamics. Discrete and Continuous Dynamical Systems - Series B, 2002, 2, 541-560.	0.9	2
97	Functional differential equation with infinite delay in a space of exponentially bounded and uniformly continuous functions. Discrete and Continuous Dynamical Systems - Series B, 2020, 25, 2271-2292.	0.9	2
98	Real-Time Prediction of the End of an Epidemic Wave: COVID-19 in China as a Case-Study. Fields Institute Communications, 2022, , 173-195.	1.3	2
99	Influence of Routine Slaughtering on the Evolution of BSE: Example of British and French Slaughterings. Risk Analysis, 2007, 27, 1151-1167.	2.7	1
100	Age-Structured Models. Applied Mathematical Sciences (Switzerland), 2018, , 357-449.	0.8	1
101	Positively invariant subset for non-densely defined Cauchy problems. Journal of Mathematical Analysis and Applications, 2021, 494, 124600.	1.0	1
102	Asymptotic Behavior of a Nonlocal Advection System with Two Populations. Journal of Dynamics and Differential Equations, 0 , 1 .	1.9	1
103	What Can We Learn from COVID-19 Data by Using Epidemic Models with Unidentified Infectious Cases?. SSRN Electronic Journal, 0, , .	0.4	1
104	Modeling epidemic outbreaks in geographical regions: Seasonal influenza in Puerto Rico. Discrete and Continuous Dynamical Systems - Series S, 2018, .	1.1	1
105	Return-to-home model for short-range human travel. Mathematical Biosciences and Engineering, 2022, 19, 7737-7755.	1.9	1
106	Corrigendum to "Modelling the transmission dynamics of meticillin-resistant Staphylococcus aureus in Beijing Tongren hospital―[Journal of Hospital Infection 2011;79:302–308]. Journal of Hospital Infection, 2012, 81, 141.	2.9	0
107	Functional Differential Equations. Applied Mathematical Sciences (Switzerland), 2018, , 309-356.	0.8	0
108	Integrated Semigroups and Cauchy Problems with Non-dense Domain. Applied Mathematical Sciences (Switzerland), 2018, , 101-164.	0.8	0

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109	Clarifying Predictions for COVID-19 from Testing Data: The Example of New York State. SSRN Electronic Journal, 0, , .	0.4	0
110	SI Epidemic Model Applied to COVID-19 Data in Mainland China. SSRN Electronic Journal, 0, , .	0.4	0
111	Qualitative analysis of a model for co-culture of bacteria and amoebae. Mathematical Biosciences and Engineering, 2012, 9, 259-279.	1.9	0
112	Parabolic Equations. Applied Mathematical Sciences (Switzerland), 2018, , 451-521.	0.8	0
113	Center Manifolds, Hopf Bifurcation, and Normal Forms. Applied Mathematical Sciences (Switzerland), 2018, , 249-308.	0.8	0
114	Spectral Theory for Linear Operators. Applied Mathematical Sciences (Switzerland), 2018, , 165-216.	0.8	0
115	Semigroups and Hille-Yosida Theorem. Applied Mathematical Sciences (Switzerland), 2018, , 57-99.	0.8	0
116	Preface: Population dynamics in epidemiology and ecology. Discrete and Continuous Dynamical Systems - Series B, 2020, 25, â°-â±.	0.9	0
117	Global Analysis of SARS-CoV-2 Mitigation Impact Reveals an Arabian Peninsula Cluster with High Infection Rates and Shared Indicators. SSRN Electronic Journal, 0, , .	0.4	0
118	Unreported Cases for Age Dependent COVID-19 Outbreak in Japan. SSRN Electronic Journal, 0, , .	0.4	0