

Pierre Magal

List of Publications by Year in descending order

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118
papers

3,495
citations

186209

28
h-index

161767

54
g-index

125
all docs

125
docs citations

125
times ranked

2212
citing authors

#	ARTICLE	IF	CITATIONS
1	Global Attractors and Steady States for Uniformly Persistent Dynamical Systems. <i>SIAM Journal on Mathematical Analysis</i> , 2005, 37, 251-275.	0.9	419
2	Lyapunov functional and global asymptotic stability for an infection-age model. <i>Applicable Analysis</i> , 2010, 89, 1109-1140.	0.6	247
3	Understanding Unreported Cases in the COVID-19 Epidemic Outbreak in Wuhan, China, and the Importance of Major Public Health Interventions. <i>Biology</i> , 2020, 9, 50.	1.3	192
4	A COVID-19 epidemic model with latency period. <i>Infectious Disease Modelling</i> , 2020, 5, 323-337.	1.2	181
5	A model of antibiotic-resistant bacterial epidemics in hospitals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 13343-13348.	3.3	135
6	Modeling antibiotic resistance in hospitals: The impact of minimizing treatment duration. <i>Journal of Theoretical Biology</i> , 2007, 249, 487-499.	0.8	119
7	Different Modalities of Intercellular Membrane Exchanges Mediate Cell-to-cell P-glycoprotein Transfers in MCF-7 Breast Cancer Cells. <i>Journal of Biological Chemistry</i> , 2012, 287, 7374-7387.	1.6	114
8	Predicting the cumulative number of cases for the COVID-19 epidemic in China from early data. <i>Mathematical Biosciences and Engineering</i> , 2020, 17, 3040-3051.	1.0	108
9	The Impact of Different Antibiotic Regimens on the Emergence of Antimicrobial-Resistant Bacteria. <i>PLoS ONE</i> , 2008, 3, e4036.	1.1	92
10	Travelling wave solutions for an infection-age structured epidemic model with external supplies. <i>Nonlinearity</i> , 2011, 24, 2891-2911.	0.6	91
11	Travelling Wave Solutions in Multigroup Age-Structured Epidemic Models. <i>Archive for Rational Mechanics and Analysis</i> , 2010, 195, 311-331.	1.1	83
12	Hopf bifurcation for non-densely defined Cauchy problems. <i>Zeitschrift Fur Angewandte Mathematik Und Physik</i> , 2011, 62, 191-222.	0.7	74
13	Theory and Applications of Abstract Semilinear Cauchy Problems. <i>Applied Mathematical Sciences (Switzerland)</i> , 2018, , .	0.4	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. <i>Journal of Theoretical Biology</i> , 2021, 509, 110501.	0.8	72
15	Essential growth rate for bounded linear perturbation of non-densely defined Cauchy problems. <i>Journal of Mathematical Analysis and Applications</i> , 2008, 341, 501-518.	0.5	69
16	Center manifolds for semilinear equations with non-dense domain and applications to Hopf bifurcation in age structured models. <i>Memoirs of the American Mathematical Society</i> , 2009, 202, 0-0.	0.5	69
17	On the Basic Reproduction Number of Reaction-Diffusion Epidemic Models. <i>SIAM Journal on Applied Mathematics</i> , 2019, 79, 284-304.	0.8	67
18	Two-Group Infection Age Model Including an Application to Nosocomial Infection. <i>SIAM Journal on Applied Mathematics</i> , 2013, 73, 1058-1095.	0.8	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. <i>Biology Direct</i> , 2011, 6, 5.	1.9	54
20	The parameter identification problem for SIR epidemic models: identifying unreported cases. <i>Journal of Mathematical Biology</i> , 2018, 77, 1629-1648.	0.8	53
21	A model for ovine brucellosis incorporating direct and indirect transmission. <i>Journal of Biological Dynamics</i> , 2010, 4, 2-11.	0.8	51
22	On a vector-host epidemic model with spatial structure. <i>Nonlinearity</i> , 2018, 31, 5589-5614.	0.6	48
23	SI epidemic model applied to COVID-19 data in mainland China. <i>Royal Society Open Science</i> , 2020, 7, 201878.	1.1	44
24	A Model of the 2014 Ebola Epidemic in West Africa with Contact Tracing. <i>PLOS Currents</i> , 2015, 7, .	1.4	44
25	Qualitative analysis and travelling wave solutions for the SI model with vertical transmission. <i>Communications on Pure and Applied Analysis</i> , 2012, 11, 97-113.	0.4	40
26	Final Size of an Epidemic for a Two-Group SIR Model. <i>SIAM Journal on Applied Mathematics</i> , 2016, 76, 2042-2059.	0.8	39
27	Hopf bifurcation in a size-structured population dynamic model with random growth. <i>Journal of Differential Equations</i> , 2009, 247, 956-1000.	1.1	37
28	Normal forms for semilinear equations with non-dense domain with applications to age structured models. <i>Journal of Differential Equations</i> , 2014, 257, 921-1011.	1.1	30
29	Modelling the transmission dynamics of meticillin-resistant <i>Staphylococcus aureus</i> in Beijing Tongren hospital. <i>Journal of Hospital Infection</i> , 2011, 79, 302-308.	1.4	29
30	Existence of Periodic Solutions for a State Dependent Delay Differential Equation. <i>Journal of Differential Equations</i> , 2000, 165, 61-95.	1.1	27
31	AN <i>IN VITRO</i> CELL POPULATION DYNAMICS MODEL INCORPORATING CELL SIZE, QUIESCENCE, AND CONTACT INHIBITION. <i>Mathematical Models and Methods in Applied Sciences</i> , 2011, 21, 871-892.	1.7	27
32	Perturbation of a Globally Stable Steady State and Uniform Persistence. <i>Journal of Dynamics and Differential Equations</i> , 2009, 21, 1-20.	1.0	26
33	Projectors on the generalized eigenspaces for functional differential equations using integrated semigroups. <i>Journal of Differential Equations</i> , 2008, 244, 1784-1809.	1.1	24
34	Integrated semigroups and parabolic equations. Part I: linear perturbation of almost sectorial operators. <i>Journal of Evolution Equations</i> , 2010, 10, 263-291.	0.6	24
35	Susceptible-infectious-recovered models revisited: From the individual level to the population level. <i>Mathematical Biosciences</i> , 2014, 250, 26-40.	0.9	24
36	Final size of a multi-group SIR epidemic model: Irreducible and non-irreducible modes of transmission. <i>Mathematical Biosciences</i> , 2018, 301, 59-67.	0.9	24

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37	Optimal Control of Harvesting in a Nonlinear Elliptic System Arising from Population Dynamics. <i>Journal of Mathematical Analysis and Applications</i> , 2001, 254, 571-586.	0.5	22
38	Sustained oscillations in an evolutionary epidemiological model of influenza A drift. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2010, 466, 965-992.	1.0	21
39	An Environmental Model of Honey Bee Colony Collapse Due to Pesticide Contamination. <i>Bulletin of Mathematical Biology</i> , 2019, 81, 4908-4931.	0.9	21
40	Mathematical Parameters of the COVID-19 Epidemic in Brazil and Evaluation of the Impact of Different Public Health Measures. <i>Biology</i> , 2020, 9, 220.	1.3	21
41	Asymptotic Behavior in a Salmonella Infection Model. <i>Mathematical Modelling of Natural Phenomena</i> , 2007, 2, 1-25.	0.9	20
42	Unreported Cases for Age Dependent COVID-19 Outbreak in Japan. <i>Biology</i> , 2020, 9, 132.	1.3	19
43	A model of Salmonella infection within industrial house hens. <i>Journal of Theoretical Biology</i> , 2006, 242, 755-763.	0.8	17
44	Turing and Turing-Hopf Bifurcations for a Reaction Diffusion Equation with Nonlocal Advection. <i>Journal of Nonlinear Science</i> , 2018, 28, 1959-1997.	1.0	17
45	Oscillations in age-structured models of consumer-resource mutualisms. <i>Discrete and Continuous Dynamical Systems - Series B</i> , 2015, 21, 537-555.	0.5	16
46	Monotone abstract non-densely defined Cauchy problems applied to age structured population dynamic models. <i>Journal of Mathematical Analysis and Applications</i> , 2019, 479, 450-481.	0.5	15
47	Modeling Vaccine Efficacy for COVID-19 Outbreak in New York City. <i>Biology</i> , 2022, 11, 345.	1.3	15
48	Competition for light in forest population dynamics: From computer simulator to mathematical model. <i>Journal of Theoretical Biology</i> , 2017, 419, 290-304.	0.8	14
49	Identifying the number of unreported cases in SIR epidemic models. <i>Mathematical Medicine and Biology</i> , 2020, 37, 243-261.	0.8	14
50	Clarifying predictions for COVID-19 from testing data: The example of New York State. <i>Infectious Disease Modelling</i> , 2021, 6, 273-283.	1.2	14
51	Projectors on the Generalized Eigenspaces for Partial Differential Equations with Time Delay. <i>Fields Institute Communications</i> , 2013, , 353-390.	0.6	14
52	Predicting the Number of Reported and Unreported Cases for the COVID-19 Epidemic in South Korea, Italy, France and Germany. <i>SSRN Electronic Journal</i> , 0, , .	0.4	14
53	A robust phenomenological approach to investigate COVID-19 data for France. <i>Mathematics in Applied Sciences and Engineering</i> , 0, , 1-12.	0.3	13
54	A spatio-temporal model to describe the spread of Salmonella within a laying flock. <i>Journal of Theoretical Biology</i> , 2010, 267, 595-604.	0.8	12

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55	A spatial model of honey bee colony collapse due to pesticide contamination of foraging bees. <i>Journal of Mathematical Biology</i> , 2020, 80, 2363-2393.	0.8	12
56	What can we learn from COVID-19 data by using epidemic models with unidentified infectious cases?. <i>Mathematical Biosciences and Engineering</i> , 2021, 19, 537-594.	1.0	12
57	Analysis of a Model for Transfer Phenomena in Biological Populations. <i>SIAM Journal on Applied Mathematics</i> , 2009, 70, 40-62.	0.8	11
58	Normal Forms for an Age Structured Model. <i>Journal of Dynamics and Differential Equations</i> , 2016, 28, 733-761.	1.0	11
59	Effect of genetic resistance of the hen to <i>Salmonella</i> carrier-state on incidence of bacterial contamination: synergy with vaccination. <i>Veterinary Research</i> , 2008, 39, 20.	1.1	11
60	Preface. <i>Journal of Biological Dynamics</i> , 2010, 4, 1-1.	0.8	10
61	Persistence of Exponential Trichotomy for Linear Operators: A Lyapunov-Perron Approach. <i>Journal of Dynamics and Differential Equations</i> , 2016, 28, 93-126.	1.0	10
62	Large speed traveling waves for the Rosenzweig-MacArthur predator-prey model with spatial diffusion. <i>Physica D: Nonlinear Phenomena</i> , 2021, 415, 132730.	1.3	10
63	Hopf bifurcation for a spatially and age structured population dynamics model. <i>Discrete and Continuous Dynamical Systems - Series B</i> , 2015, 20, 1735-1757.	0.5	9
64	A cell-cell repulsion model on a hyperbolic Keller-Segel equation. <i>Journal of Mathematical Biology</i> , 2020, 80, 2257-2300.	0.8	9
65	Semilinear Cauchy Problems with Non-dense Domain. <i>Applied Mathematical Sciences (Switzerland)</i> , 2018, , 217-248.	0.4	9
66	Hopf bifurcation in an age-structured population model with two delays. <i>Communications on Pure and Applied Analysis</i> , 2015, 14, 657-676.	0.4	8
67	Predicting the Cumulative Number of Cases for the COVID-19 Epidemic in China from Early Data. <i>SSRN Electronic Journal</i> , 0, , .	0.4	8
68	Hopf Bifurcation for a Maturity Structured Population Dynamic Model. <i>Journal of Nonlinear Science</i> , 2011, 21, 521-562.	1.0	7
69	Asymptotic Behavior of a Nonlocal Diffusive Logistic Equation. <i>SIAM Journal on Mathematical Analysis</i> , 2014, 46, 1731-1753.	0.9	7
70	A Finite-time Condition for Exponential Trichotomy in Infinite Dynamical Systems. <i>Canadian Journal of Mathematics</i> , 2015, 67, 1065-1090.	0.3	7
71	Bogdanov-Takens bifurcation in a predator-prey model. <i>Zeitschrift Fur Angewandte Mathematik Und Physik</i> , 2016, 67, 1.	0.7	7
72	Singular perturbation for an abstract non-densely defined Cauchy problem. <i>Journal of Evolution Equations</i> , 2017, 17, 1089-1128.	0.6	7

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73	Controllability with Positivity Constraints of the Lotka–McKendrick System. <i>SIAM Journal on Control and Optimization</i> , 2018, 56, 723-750.	1.1	7
74	Hopf bifurcation for a size-structured model with resting phase. <i>Discrete and Continuous Dynamical Systems</i> , 2013, 33, 4891-4921.	0.5	7
75	A system of state-dependent delay differential equation modelling forest growth II: Boundedness of solutions. <i>Nonlinear Analysis: Real World Applications</i> , 2018, 42, 334-352.	0.9	6
76	A Model of Vaccination for Dengue in the Philippines 2016–2018. <i>Frontiers in Applied Mathematics and Statistics</i> , 2021, 7, .	0.7	6
77	Mutation and recombination in a model of phenotype evolution. <i>Journal of Evolution Equations</i> , 2002, 2, 21-39.	0.6	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. <i>Transactions of the American Mathematical Society</i> , 2019, 372, 3487-3537.	0.5	5
79	Existence and uniqueness of solutions for a hyperbolic Keller–Segel equation. <i>Discrete and Continuous Dynamical Systems - Series B</i> , 2021, 26, 1931-1966.	0.5	5
80	Spatial spread of epidemic diseases in geographical settings: Seasonal influenza epidemics in Puerto Rico. <i>Discrete and Continuous Dynamical Systems - Series B</i> , 2020, 25, 2185-2202.	0.5	5
81	Projectors on the Generalized Eigenspaces for Neutral Functional Differential Equations in L^p Spaces. <i>Canadian Journal of Mathematics</i> , 2010, 62, 74-93.	0.3	4
82	A Holling Predator-Prey Model with Handling and Searching Predators. <i>SIAM Journal on Applied Mathematics</i> , 2020, 80, 1778-1795.	0.8	4
83	NONLINEAR BOUNDARY CONDITIONS DERIVED BY SINGULAR PERTUBATION IN AGE STRUCTURED POPULATION DYNAMICS MODEL. <i>Journal of Applied Analysis and Computation</i> , 2011, 1, 373-395.	0.2	4
84	Multiple travelling waves for an SSI-epidemic model. <i>Networks and Heterogeneous Media</i> , 2013, 8, 171-190.	0.5	4
85	Variation of constants formula and exponential dichotomy for nonautonomous non-densely defined Cauchy problems. <i>Canadian Journal of Mathematics</i> , 2021, 73, 1347-1389.	0.3	4
86	Bogdanov–Takens bifurcation in a predator–prey model with age structure. <i>Zeitschrift Fur Angewandte Mathematik Und Physik</i> , 2021, 72, 1.	0.7	3
87	Sharp discontinuous traveling waves in a hyperbolic Keller–Segel equation. <i>Mathematical Models and Methods in Applied Sciences</i> , 2021, 31, 861-905.	1.7	3
88	Understanding Unreported Cases in the 2019-Ncov Epidemic Outbreak in Wuhan, China, and the Importance of Major Public Health Interventions	0.4	3
89	A Uniqueness Result for Nontrivial Steady States of a Density-dependent Population Dynamics Model. <i>Journal of Mathematical Analysis and Applications</i> , 1999, 233, 148-168.	0.5	2
90	A Model for Transfer of P-Glycoproteins in MCF-7 Breast Cancer Cell Line with Multiple Transfer Rules. <i>Bulletin of Mathematical Biology</i> , 2017, 79, 2049-2067.	0.9	2

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91	Numerical simulations of a population dynamic model describing parasite destruction in a wild type pine forest. <i>Ecological Complexity</i> , 2018, 34, 147-160.	1.4	2
92	A system of state-dependent delay differential equation modeling forest growth I: semiflow properties. <i>Journal of Evolution Equations</i> , 2018, 18, 1853-1888.	0.6	2
93	Persistence of a normally hyperbolic manifold for a system of non densely defined Cauchy problems. <i>Journal of Differential Equations</i> , 2019, 267, 2950-3008.	1.1	2
94	Direct and indirect P-glycoprotein transfers in MCF7 breast cancer cells. <i>Journal of Theoretical Biology</i> , 2019, 461, 239-253.	0.8	2
95	An integrated semigroup approach for age structured equations with diffusion and non-homogeneous boundary conditions. <i>Nonlinear Differential Equations and Applications</i> , 2021, 28, 1.	0.4	2
96	Global stability for differential equations with homogeneous nonlinearity and application to population dynamics. <i>Discrete and Continuous Dynamical Systems - Series B</i> , 2002, 2, 541-560.	0.5	2
97	Functional differential equation with infinite delay in a space of exponentially bounded and uniformly continuous functions. <i>Discrete and Continuous Dynamical Systems - Series B</i> , 2020, 25, 2271-2292.	0.5	2
98	Real-Time Prediction of the End of an Epidemic Wave: COVID-19 in China as a Case-Study. <i>Fields Institute Communications</i> , 2022, , 173-195.	0.6	2
99	Influence of Routine Slaughtering on the Evolution of BSE: Example of British and French Slaughtering. <i>Risk Analysis</i> , 2007, 27, 1151-1167.	1.5	1
100	Age-Structured Models. <i>Applied Mathematical Sciences (Switzerland)</i> , 2018, , 357-449.	0.4	1
101	Positively invariant subset for non-densely defined Cauchy problems. <i>Journal of Mathematical Analysis and Applications</i> , 2021, 494, 124600.	0.5	1
102	Asymptotic Behavior of a Nonlocal Advection System with Two Populations. <i>Journal of Dynamics and Differential Equations</i> , 0, , 1.	1.0	1
103	What Can We Learn from COVID-19 Data by Using Epidemic Models with Unidentified Infectious Cases?. <i>SSRN Electronic Journal</i> , 0, , .	0.4	1
104	Modeling epidemic outbreaks in geographical regions: Seasonal influenza in Puerto Rico. <i>Discrete and Continuous Dynamical Systems - Series S</i> , 2018, .	0.6	1
105	Return-to-home model for short-range human travel. <i>Mathematical Biosciences and Engineering</i> , 2022, 19, 7737-7755.	1.0	1
106	Corrigendum to "Modelling the transmission dynamics of meticillin-resistant <i>Staphylococcus aureus</i> in Beijing Tongren hospital" [<i>Journal of Hospital Infection</i> 2011;79:302-308]. <i>Journal of Hospital Infection</i> , 2012, 81, 141.	1.4	0
107	Functional Differential Equations. <i>Applied Mathematical Sciences (Switzerland)</i> , 2018, , 309-356.	0.4	0
108	Integrated Semigroups and Cauchy Problems with Non-dense Domain. <i>Applied Mathematical Sciences (Switzerland)</i> , 2018, , 101-164.	0.4	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.	1.0	0
112	Parabolic Equations. Applied Mathematical Sciences (Switzerland), 2018, , 451-521.	0.4	0
113	Center Manifolds, Hopf Bifurcation, and Normal Forms. Applied Mathematical Sciences (Switzerland), 2018, , 249-308.	0.4	0
114	Spectral Theory for Linear Operators. Applied Mathematical Sciences (Switzerland), 2018, , 165-216.	0.4	0
115	Semigroups and Hille-Yosida Theorem. Applied Mathematical Sciences (Switzerland), 2018, , 57-99.	0.4	0
116	Preface: Population dynamics in epidemiology and ecology. Discrete and Continuous Dynamical Systems - Series B, 2020, 25, 1-10.	0.5	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