Avner Friedman

List of Publications by Year
in descending order

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417 papers	13,477 citations	19657 61 h-index	40979 93 g-index
432 all docs	432 docs citations	432 times ranked	6064 citing authors

#	Article	IF	Citations
1	Title is missing!. Indiana University Mathematics Journal, 1985, 34, 425.	0.9	527
2	MicroRNA regulation of a cancer network: Consequences of the feedback loops involving miR-17-92, E2F, and Myc. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 19678-19683.	7.1	366
3	Variational problems with two phases and their free boundaries. Transactions of the American Mathematical Society, 1984, 282, 431-461.	0.9	301
4	Hypoxia inducible microRNA 210 attenuates keratinocyte proliferation and impairs closure in a murine model of ischemic wounds. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 6976-6981.	7.1	250
5	Analysis of a mathematical model for the growth of tumors. Journal of Mathematical Biology, 1999, 38, 262-284.	1.9	243
6	Glioma Virotherapy: Effects of Innate Immune Suppression and Increased Viral Replication Capacity. Cancer Research, 2006, 66, 2314-2319.	0.9	194
7	The Stefan problem in several space variables. Transactions of the American Mathematical Society, 1968, 133, 51-87.	0.9	186
8	Wound angiogenesis as a function of tissue oxygen tension: A mathematical model. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 2628-2633.	7.1	156
9	Identification of small inhomogeneities of extreme conductivity by boundary measurements: a theorem on continuous dependence. Archive for Rational Mechanics and Analysis, 1989, 105, 299-326.	2.4	155
10	The LDL-HDL Profile Determines the Risk of Atherosclerosis: A Mathematical Model. PLoS ONE, 2014, 9, e90497.	2.5	151
11	Convexity of solutions of semilinear elliptic equations. Duke Mathematical Journal, 1985, 52, 431.	1.5	149
12	Title is missing!. Indiana University Mathematics Journal, 1980, 29, 361.	0.9	149
13	Monotonic decay of solutions of parabolic equations with nonlocal boundary conditions. Quarterly of Applied Mathematics, 1986, 44, 401-407.	0.7	145
14	Symmetry-breaking bifurcation of analytic solutions to free boundary problems: An application to a model of tumor growth. Transactions of the American Mathematical Society, 2000, 353, 1587-1634.	0.9	132
15	Modeling the immune rheostat of macrophages in the lung in response to infection. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 11246-11251.	7.1	131
16	Parabolic variational inequalities in one space dimension and smoothness of the free boundary. Journal of Functional Analysis, 1975, 18, 151-176.	1.4	118
17	Optimal stochastic switching and the Dirichlet problem for the Bellman equation. Transactions of the American Mathematical Society, 1979, 253, 365-389.	0.9	113
18	Combination therapy of cancer with cancer vaccine and immune checkpoint inhibitors: A mathematical model. PLoS ONE, 2017, 12, e0178479.	2.5	112

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19	A Free Boundary Problem for an Elliptic-Hyperbolic System: An Application to Tumor Growth. SIAM Journal on Mathematical Analysis, 2003, 35, 974-986.	1.9	109
20	Volterra integral equations in Banach space. Transactions of the American Mathematical Society, 1967, 126, 131-179.	0.9	108
21	Analysis of a mathematical model of the effect of inhibitors on the growth of tumors. Mathematical Biosciences, 2000, 164, 103-137.	1.9	108
22	Transcriptome-wide analysis of blood vessels laser captured from human skin and chronic wound-edge tissue. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 14472-14477.	7.1	108
23	A mathematical model of ischemic cutaneous wounds. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 16782-16787.	7.1	107
24	HÃ¶lder estimates for nonlinear degenerate parabolic sytems.. Journal Fur Die Reine Und Angewandte Mathematik, 1985, 1985, 1-22.	0.9	102
25	A mathematical model for pancreatic cancer growth and treatments. Journal of Theoretical Biology, 2014, 351, 74-82.	1.7	102
26	Continuity of the density of a gas flow in a porous medium. Transactions of the American Mathematical Society, 1979, 252, 99-113.	0.9	100
27	A mathematical model for pattern formation of glioma cells outside the tumor spheroid core. Journal of Theoretical Biology, 2009, 260, 359-371.	1.7	100
28	Blow-up of solutions of nonlinear degenerate parabolic equations. Archive for Rational Mechanics and Analysis, 1986, 96, 55-80.	2.4	99
29	Bifurcation From Stability to Instability for a Free Boundary Problem Arising in a Tumor Model. Archive for Rational Mechanics and Analysis, 2006, 180, 293-330.	2.4	99
30	Regularity of the Free Boundary for the One-Dimensional Flow of Gas in a Porous Medium. American Journal of Mathematics, 1979, 101, 1193.	1.1	98
31	MATHEMATICAL ANALYSIS AND CHALLENGES ARISING FROM MODELS OF TUMOR GROWTH. Mathematical Models and Methods in Applied Sciences, 2007, 17, 1751-1772.	3.3	97
32	Title is missing!. Indiana University Mathematics Journal, 1975, 24, 1005.	0.9	97
33	Mathematical Analysis of a Model for the Initiation of Angiogenesis. SIAM Journal on Mathematical Analysis, 2002, 33, 1330-1355.	1.9	96
34	Title is missing!. Indiana University Mathematics Journal, 1989, 38, 563.	0.9	90
35	The time-harmonic maxwell equations in a doubly periodic structure. Journal of Mathematical Analysis and Applications, 1992, 166, 507-528.	1.0	86
36	Mathematical model on Alzheimerâ€™s disease. BMC Systems Biology, 2016, 10, 108.	3.0	86

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37	Stochastic differential games. Journal of Differential Equations, 1972, 11, 79-108.	2.2	85
38	Asymptotic stability for a free boundary problem arising in a tumor model. Journal of Differential Equations, 2006, 227, 598-639.	2.2	85
39	Remarks on the maximum principle for parabolic equations and its applications. Pacific Journal of Mathematics, 1958, 8, 201-211.	0.5	83
40	Analysis of a Mathematical Model of the Growth of Necrotic Tumors. Journal of Mathematical Analysis and Applications, 2001, 255, 636-677.	1.0	82
41	Bifurcation for a Free Boundary Problem Modeling Tumor Growth by Stokes Equation. SIAM Journal on Mathematical Analysis, 2007, 39, 174-194.	1.9	81
42	Nonlinear variational inequalities and differential games with stopping times. Journal of Functional Analysis, 1974, 16, 305-352.	1.4	79
43	Partial regularity of the zero-set of solutions of linear and superlinear elliptic equations. Journal of Differential Equations, 1985, 60, 420-433.	2.2	79
44	A dynamical system model of neurofilament transport in axons. Journal of Theoretical Biology, 2005, 237, 316-322.	1.7	79
45	Mechanistic modeling of the effects of myoferlin on tumor cell invasion. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 20078-20083.	7.1	79
46	A Mathematical Model of Atherosclerosis with Reverse Cholesterol Transport and Associated Risk Factors. Bulletin of Mathematical Biology, 2015, 77, 758-781.	1.9	76
47	The ill-posed Hele-Shaw model and the Stefan problem for supercooled water. Transactions of the American Mathematical Society, 1984, 282, 183-204.	0.9	74
48	Optimal Control for Variational Inequalities. SIAM Journal on Control and Optimization, 1986, 24, 439-451.	2.1	74
49	Nonzero-sum stochastic differential games with stopping times and free boundary problems. Transactions of the American Mathematical Society, 1977, 231, 275-327.	0.9	73
50	Modeling combination therapy for breast cancer with BET and immune checkpoint inhibitors. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 5534-5539.	7.1	73
51	The free boundary of a semilinear elliptic equation. Transactions of the American Mathematical Society, 1984, 282, 153-153.	0.9	70
52	Stability and instability of Liapunov-Schmidt and Hopf bifurcation for a free boundary problem arising in a tumor model. Transactions of the American Mathematical Society, 2008, 360, 5291-5342.	0.9	70
53	Mathematical model of sarcoidosis. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 16065-16070.	7.1	69
54	Stability of solutions of chemotaxis equations in reinforced random walks. Journal of Mathematical Analysis and Applications, 2002, 272, 138-163.	1.0	68

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55	The blow-up boundary for nonlinear wave equations. Transactions of the American Mathematical Society, 1986, 297, 223-241.	0.9	67
56	Extinction properties of semilinear heat equations with strong absorption. Journal of Mathematical Analysis and Applications, 1987, 124, 530-546.	1.0	66
57	A free boundary problem for a singular system of differential equations: An application to a model of tumor growth. Transactions of the American Mathematical Society, 2003, 355, 3537-3590.	0.9	65
58	miR451 and AMPK Mutual Antagonism in Glioma Cell Migration and Proliferation: A Mathematical Model. PLoS ONE, 2011, 6, e28293.	2.5	65
59	A Free Boundary Problem for an Ellipticâ€“Parabolic System: Application to a Model of Tumor Growth. Communications in Partial Differential Equations, 2003, 28, 517-560.	2.2	64
60	A model of intracellular transport of particles in an axon. Journal of Mathematical Biology, 2005, 51, 217-246.	1.9	63
61	Bifurcation from stability to instability for a free boundary problem modeling tumor growth by Stokes equation. Journal of Mathematical Analysis and Applications, 2007, 327, 643-664.	1.0	63
62	Interaction of Tumor with Its Micro-environment: AÂMathematical Model. Bulletin of Mathematical Biology, 2010, 72, 1029-1068.	1.9	63
63	Asymptotic estimates for the plasma problem. Duke Mathematical Journal, 1980, 47, 705.	1.5	62
64	The Ill-Posed Hele-Shaw Model and The Stefan Problem for Supercooled Water. Transactions of the American Mathematical Society, 1984, 282, 183.	0.9	62
65	Mathematical modeling of prostate cancer progression in response to androgen ablation therapy. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 19701-19706.	7.1	62
66	Reinforcement problems for elliptic equations and variational inequalities. Annali Di Matematica Pura Ed Applicata, 1980, 123, 219-246.	1.0	61
67	Global existence and asymptotic stability for an elliptic-parabolic free boundary problem: An application to a model of tumor growth. Indiana University Mathematics Journal, 2003, 52, 1265-1304.	0.9	61
68	On integral equations of Volterra type. Journal D'Analyse Mathematique, 1963, 11, 381-413.	0.8	60
69	Analysis of a free-boundary tumor model with angiogenesis. Journal of Differential Equations, 2015, 259, 7636-7661.	2.2	60
70	ANALYSIS OF A MATHEMATICAL MODEL OF TUMOR LYMPHANGIOGENESIS. Mathematical Models and Methods in Applied Sciences, 2005, 15, 95-107.	3.3	58
71	The shape of axisymmetric rotating fluid. Journal of Functional Analysis, 1980, 35, 109-142.	1.4	55
72	A Hyperbolic Free Boundary Problem Modeling Tumor Growth. Interfaces and Free Boundaries, 2003, 5, 159-182.	0.8	55

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73	Optimal control in Banach spaces. Journal of Mathematical Analysis and Applications, 1967, 19, 35-55.	1.0	54
74	Maxwell's Equations in a Periodic Structure. Transactions of the American Mathematical Society, 1991, 323, 465.	0.9	54
75	Free Boundary Problems for Parabolic Equations I. Melting of Solids. Indiana University Mathematics Journal, 1959, 8, 499-517.	0.9	53
76	Nonlinear eigenvalue problems. Acta Mathematica, 1968, 121, 77-125.	3.9	53
77	Stochastic games and variational inequalities. Archive for Rational Mechanics and Analysis, 1973, 51, 321-346.	2.4	53
78	A hyperbolic free boundary problem modeling tumor growth: Asymptotic behavior. Transactions of the American Mathematical Society, 2005, 357, 4771-4804.	0.9	52
79	A free boundary problem for a coupled system of elliptic, hyperbolic, and Stokes equations modeling tumor growth. Interfaces and Free Boundaries, 2006, 8, 247-261.	0.8	52
80	Complex role of NK cells in regulation of oncolytic virusâ€“bortezomib therapy. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 4927-4932.	7.1	52
81	Estimates on the support of solutions of parabolic variational inequalities. Illinois Journal of Mathematics, 1976, 20, .	0.1	52
82	Differentiability of the blow-up curve for one dimensional nonlinear wave equations. Archive for Rational Mechanics and Analysis, 1985, 91, 83-98.	2.4	51
83	A free boundary problem for steady small plaques in the artery and their stability. Journal of Differential Equations, 2015, 259, 1227-1255.	2.2	50
84	Optimal Control for Parabolic Variational Inequalities. SIAM Journal on Control and Optimization, 1987, 25, 482-497.	2.1	49
85	Stability for an inverse problem in potential theory. Transactions of the American Mathematical Society, 1992, 332, 271-296.	0.9	48
86	Combination therapy for cancer with oncolytic virus and checkpoint inhibitor: A mathematical model. PLoS ONE, 2018, 13, e0192449.	2.5	48
87	Convexity of the free boundary in the Stefan problem and in the dam problem. Archive for Rational Mechanics and Analysis, 1977, 67, 1-24.	2.4	46
88	Title is missing!. Indiana University Mathematics Journal, 1984, 33, 213.	0.9	46
89	Effective permeability of the boundary of a domain. Communications in Partial Differential Equations, 1995, 20, 59-102.	2.2	45
90	Analyticity of the free boundary for the Stefan problem. Archive for Rational Mechanics and Analysis, 1976, 61, 97-125.	2.4	44

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91	Asymmetric jet flows. Communications on Pure and Applied Mathematics, 1982, 35, 29-68.	3.1	44
92	Modeling the inhibition of breast cancer growth by GM-CSF. Journal of Theoretical Biology, 2012, 303, 141-151.	1.7	44
93	Anthrax epizootic and migration: Persistence or extinction. Mathematical Biosciences, 2013, 241, 137-144.	1.9	44
94	A Mathematical Model of Idiopathic Pulmonary Fibrosis. PLoS ONE, 2015, 10, e0135097.	2.5	44
95	Homogenization of the Cell Cytoplasm: The Calcium Bidomain Equations. Multiscale Modeling and Simulation, 2006, 5, 1045-1062.	1.6	43
96	Mathematical Modeling of Interleukin-27 Induction of Anti-Tumor T Cells Response. PLoS ONE, 2014, 9, e91844.	2.5	43
97	Optimal control for parabolic equations. Journal of Mathematical Analysis and Applications, 1967, 18, 479-491.	1.0	42
98	Identification problems in potential theory. Archive for Rational Mechanics and Analysis, 1988, 101, 143-160.	2.4	42
99	Blow-up of solutions of nonlinear heat equations. Journal of Mathematical Analysis and Applications, 1988, 129, 409-419.	1.0	42
100	Mathematical model of renal interstitial fibrosis. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 14193-14198.	7.1	42
101	Mathematical Modeling of Interleukin-35 Promoting Tumor Growth and Angiogenesis. PLoS ONE, 2014, 9, e110126.	2.5	42
102	Optimal control for hereditary processes. Archive for Rational Mechanics and Analysis, 1964, 15, 396-416.	2.4	41
103	One dimensional Stefan problems with nonmonotone free boundary. Transactions of the American Mathematical Society, 1968, 133, 89-114.	0.9	41
104	Periodic behaviour for the evolutionary dam problem and related free boundary problems Evolutionary dam problem. Communications in Partial Differential Equations, 1986, 11, 1297-1377.	2.2	41
105	Transformed epithelial cells and fibroblasts/myofibroblasts interaction in breast tumor: a mathematical model and experiments. Journal of Mathematical Biology, 2010, 61, 401-421.	1.9	41
106	A Mathematical Model for MicroRNA in Lung Cancer. PLoS ONE, 2013, 8, e53663.	2.5	41
107	Title is missing!. Indiana University Mathematics Journal, 1979, 28, 53.	0.9	41
108	The free boundary for elastic-plastic torsion problems. Transactions of the American Mathematical Society, 1979, 252, 65-97.	0.9	40

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109	Compressible flows of jets and cavities. Journal of Differential Equations, 1985, 56, 82-141.	2.2	40
110	Modeling Granulomas in Response to Infection in the Lung. PLoS ONE, 2016, 11, e0148738.	2.5	40
111	Detection of Mines by Electric Measurements. SIAM Journal on Applied Mathematics, 1987, 47, 201-212.	1.8	39
112	Title is missing!. Indiana University Mathematics Journal, 1973, 22, 1005.	0.9	39
113	Analysis of a model of a virus that replicates selectively in tumor cells. Journal of Mathematical Biology, 2003, 47, 391-423.	1.9	38
114	Nitric Oxide Diffusion Rate is Reduced in the Aortic Wall. Biophysical Journal, 2008, 94, 1880-1889.	0.5	37
115	Combination therapy for melanoma with BRAF/MEK inhibitor and immune checkpoint inhibitor: a mathematical model. BMC Systems Biology, 2017, 11, 70.	3.0	37
116	Title is missing!. Indiana University Mathematics Journal, 1974, 23, 991.	0.9	37
117	Inverse problems for scattering by periodic structures. Archive for Rational Mechanics and Analysis, 1995, 132, 49-72.	2.4	36
118	The Role of Exosomes in Pancreatic Cancer Microenvironment. Bulletin of Mathematical Biology, 2018, 80, 1111-1133.	1.9	36
119	Mathematical modeling of liver fibrosis. Mathematical Biosciences and Engineering, 2017, 14, 143-164.	1.9	36
120	A new proof and generalizations of the Cauchy-Kowalewski theorem. Transactions of the American Mathematical Society, 1961, 98, 1-20.	0.9	35
121	On the definition of differential games and the existence of value and of saddle points. Journal of Differential Equations, 1970, 7, 69-91.	2.2	35
122	ON THE EXISTENCE OF SPATIALLY PATTERNED DORMANT MALIGNANCIES IN A MODEL FOR THE GROWTH OF NON-NECROTIC VASCULAR TUMORS. Mathematical Models and Methods in Applied Sciences, 2001, 11, 601-625.	3.3	35
123	Symmetry-Breaking Bifurcations of Charged Drops. Archive for Rational Mechanics and Analysis, 2004, 172, 267-294.	2.4	35
124	Title is missing!. Indiana University Mathematics Journal, 1984, 33, 367.	0.9	35
125	Uniform convergence for approximate traveling waves in linear reaction-hyperbolic systems. Indiana University Mathematics Journal, 2007, 56, 2133-2158.	0.9	34
126	Hypoxia Inducible Factors-Mediated Inhibition of Cancer by GM-CSF: A Mathematical Model. Bulletin of Mathematical Biology, 2012, 74, 2752-77.	1.9	33

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127	Functions Satisfying the Mean Value Property. Transactions of the American Mathematical Society, 1962, 102, 167.	0.9	32
128	Regularity theorems for variational inequalities in unbounded domains and applications to stopping time problems. Archive for Rational Mechanics and Analysis, 1973, 52, 134-160.	2.4	32
129	The asymptotic behavior of gas in an ?-dimensional porous medium. Transactions of the American Mathematical Society, 1980, 262, 551-563.	0.9	32
130	A model on the influence of age on immunity to infection with Mycobacterium tuberculosis. Experimental Gerontology, 2008, 43, 275-285.	2.8	32
131	Analysis of a Mathematical Model of Ischemic Cutaneous Wounds. SIAM Journal on Mathematical Analysis, 2010, 42, 2013-2040.	1.9	32
132	The Blow-Up Time for Solutions of Nonlinear Heat Equations with Small Diffusion. SIAM Journal on Mathematical Analysis, 1987, 18, 711-721.	1.9	31
133	A mathematical model for chronic wounds. Mathematical Biosciences and Engineering, 2011, 8, 253-261.	1.9	31
134	Asymptotic behavior of solutions of parabolic equations of any order. Acta Mathematica, 1961, 106, 1-43.	3.9	30
135	Singular perturbations for partial differential equations. Archive for Rational Mechanics and Analysis, 1968, 29, 289-303.	2.4	30
136	Existence and dimensions of a rotating white dwarf. Journal of Differential Equations, 1981, 42, 414-437.	2.2	30
137	Identification of the Conductivity Coefficient in an Elliptic Equation. SIAM Journal on Mathematical Analysis, 1987, 18, 777-787.	1.9	30
138	Symmetry-breaking bifurcations for free boundary problems. Indiana University Mathematics Journal, 2005, 54, 927-947.	0.9	30
139	A multiscale tumor model. Interfaces and Free Boundaries, 2008, 10, 245-262.	0.8	30
140	The free boundary in the Thomas-Fermi atomic model. Journal of Differential Equations, 1979, 32, 335-356.	2.2	29
141	Approximate Traveling Waves in Linear Reactionâ€Hyperbolic Equations. SIAM Journal on Mathematical Analysis, 2006, 38, 741-758.	1.9	29
142	Blow-up of solutions of nonlinear parabolic equations. Mathematical Sciences Research Institute Publications, 1988, , 301-318.	0.3	29
143	Asymptotic stability and spiraling properties for solutions of stochastic equations. Transactions of the American Mathematical Society, 1973, 186, 331-331.	0.9	29
144	Existence of value and of saddle points for differential games of pursuit and evasion. Journal of Differential Equations, 1970, 7, 92-110.	2.2	28

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145	A filtration problem in a porous medium with variable permeability. Annali Di Matematica Pura Ed Applicata, 1977, 114, 377-393.	1.0	28
146	The role of CD200â€“CD200R in tumor immune evasion. Journal of Theoretical Biology, 2013, 328, 65-76.	1.7	28
147	Mathematical model of chronic pancreatitis. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 5011-5016.	7.1	28
148	Choindroitinase ABC I-Mediated Enhancement of Oncolytic Virus Spread and Anti Tumor Efficacy: A Mathematical Model. PLoS ONE, 2014, 9, e102499.	2.5	28
149	Title is missing!. Indiana University Mathematics Journal, 1978, 27, 143.	0.9	28
150	The Stefan problem for a hyperbolic heat equation. Journal of Mathematical Analysis and Applications, 1989, 138, 249-279.	1.0	27
151	A boundary value problem for the poisson equation with multi-scale oscillating Boundary. Journal of Differential Equations, 1997, 137, 54-93.	2.2	27
152	Mathematical modeling in scheduling cancer treatment with combination of VEGF inhibitor and chemotherapy drugs. Journal of Theoretical Biology, 2019, 462, 490-498.	1.7	27
153	Tumor cells proliferation and migration under the influence of their microenvironment. Mathematical Biosciences and Engineering, 2011, 8, 371-383.	1.9	27
154	Quasi-static motion of a capillary drop, II: the three-dimensional case. Journal of Differential Equations, 2002, 186, 509-557.	2.2	26
155	Fatal disease and demographic Allee effect: population persistence and extinction. Journal of Biological Dynamics, 2012, 6, 495-508.	1.7	26
156	Asymptotic estimates for an axisymmetric rotating fluid. Journal of Functional Analysis, 1980, 37, 136-163.	1.4	25
157	Conduction-convection problems with change of phase. Journal of Differential Equations, 1986, 62, 129-185.	2.2	25
158	Oxygen regulates the effective diffusion distance of nitric oxide in the aortic wall. Free Radical Biology and Medicine, 2010, 48, 554-559.	2.9	25
159	Stochastic Differential Equations and Applications. , 2010, , 75-148.		25
160	Free boundary problems in biology. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2015, 373, 20140368.	3.4	25
161	Monotonicity of solutions of Volterra integral equations in Banach space. Transactions of the American Mathematical Society, 1969, 138, 129-148.	0.9	24
162	The free boundary of a flow in a porous body heated from its boundary. Nonlinear Analysis: Theory, Methods & Applications, 1986, 10, 879-900.	1.1	24

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163	A variational inequality approach to financial valuation of retirement benefits based on salary. Finance and Stochastics, 2002, 6, 273-302.	1.1	24
164	Nonlinear stability of the Muskat problem with capillary pressure at the free boundary. Nonlinear Analysis: Theory, Methods & Applications, 2003, 53, 45-80.	1.1	24
165	Involvement of Tumor Macrophage HIFs in Chemotherapy Effectiveness: Mathematical Modeling of Oxygen, pH, and Glutathione. PLoS ONE, 2014, 9, e107511.	2.5	24
166	Mathematical Modeling of Biological Processes. Lecture Notes on Mathematical Modelling in the Life Sciences, 2014, , .	0.4	24
167	Immune response to infection by Leishmania: A mathematical model. Mathematical Biosciences, 2016, 276, 28-43.	1.9	24
168	Reinforcement of the principal eigenvalue of an elliptic operator. Archive for Rational Mechanics and Analysis, 1980, 73, 1-17.	2.4	23
169	Control of Free Boundary Problems with Hysteresis. SIAM Journal on Control and Optimization, 1988, 26, 42-55.	2.1	23
170	Free boundary problems for parabolic equations. Bulletin of the American Mathematical Society, 1970, 76, 934-942.	3.9	22
171	Asymptotic behavior of solutions of linear stochastic differential systems. Transactions of the American Mathematical Society, 1973, 181, 1-1.	0.9	22
172	Cell cycle control at the first restriction point and its effect on tissue growth. Journal of Mathematical Biology, 2010, 60, 881-907.	1.9	22
173	Qualitative Network Modeling of the Myc-p53 Control System of Cell Proliferation and Differentiation. Biophysical Journal, 2011, 101, 2082-2091.	0.5	22
174	Mathematics in Industrial Problems. The IMA Volumes in Mathematics and Its Applications, 1990, , .	0.5	22
175	Exosomal miRs in Lung Cancer: A Mathematical Model. PLoS ONE, 2016, 11, e0167706.	2.5	22
176	A mathematical model of aortic aneurysm formation. PLoS ONE, 2017, 12, e0170807.	2.5	22
177	Title is missing!. Indiana University Mathematics Journal, 1982, 31, 135.	0.9	22
178	PDE problems arising in mathematical biology. Networks and Heterogeneous Media, 2012, 7, 691-703.	1.1	22
179	Boundary Estimates for Second Order Parabolic Equations and Their Applications. Indiana University Mathematics Journal, 1958, 7, 771-791.	0.9	21
180	Axially symmetric cavities in rotational flows. Communications in Partial Differential Equations, 1983, 8, 949-997.	2.2	21

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181	The Stefan problem with small surface tension. Transactions of the American Mathematical Society, 1991, 328, 465-515.	0.9	21
182	A Stefan Problem for a Protocell Model. SIAM Journal on Mathematical Analysis, 1999, 30, 912-926.	1.9	21
183	Stationary Non-Newtonian Fluid FlowsÂ¶in Channel-like and Pipe-like Domains. Archive for Rational Mechanics and Analysis, 2000, 151, 1-43.	2.4	21
184	Malaria model with periodic mosquito birth and death rates. Journal of Biological Dynamics, 2009, 3, 430-445.	1.7	21
185	Modeling the host response to inhalation anthrax. Journal of Theoretical Biology, 2011, 276, 199-208.	1.7	21
186	A Bovine Babesiosis Model with Dispersion. Bulletin of Mathematical Biology, 2014, 76, 98-135.	1.9	21
187	On the Regularity of the Solutions of Non-Linear Elliptic and Parabolic Systems of Partial Differential Equations. Indiana University Mathematics Journal, 1958, 7, 43-59.	0.9	20
188	A quasilinear parabolic system arising in modelling of catalytic reactors. Journal of Differential Equations, 1987, 70, 167-196.	2.2	20
189	Modeling prostate cancer response to continuous versus intermittent androgen ablation therapy. Discrete and Continuous Dynamical Systems - Series B, 2013, 18, 945-967.	0.9	20
190	A three dimensional model of wound healing: Analysis and computation. Discrete and Continuous Dynamical Systems - Series B, 2012, 17, 2691-2712.	0.9	20
191	Mathematical Model of the Roles of T Cells in Inflammatory Bowel Disease. Bulletin of Mathematical Biology, 2013, 75, 1417-1433.	1.9	19
192	The role of the cytokines IL-27 and IL-35 in cancer. Mathematical Biosciences and Engineering, 2015, 12, 1203-1217.	1.9	19
193	Optimal control in Banach space with fixed end-points. Journal of Mathematical Analysis and Applications, 1968, 24, 161-181.	1.0	18
194	Existence of value and of saddle points for differential games of survival. Journal of Differential Equations, 1970, 7, 111-125.	2.2	18
195	A Stefan-Signorini problem. Journal of Differential Equations, 1984, 51, 213-231.	2.2	18
196	Propagation of cracks in elastic media. Archive for Rational Mechanics and Analysis, 1996, 136, 235-290.	2.4	18
197	Phenomenological Continuum Equations To Describe Case II Diffusion in Polymeric Materials. Macromolecules, 1997, 30, 153-154.	4.8	18
198	Chronic hepatitis B virus and liver fibrosis: A mathematical model. PLoS ONE, 2018, 13, e0195037.	2.5	18

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199	The dam problem with two layers. Archive for Rational Mechanics and Analysis, 1978, 68, 125-154.	2.4	17
200	Regularity of the solution of the quasi variational inequality for the impulse control problem. Communications in Partial Differential Equations, 1978, 3, 745-753.	2.2	17
201	Nonlinear Optimal Control Problems for Parabolic Equations. SIAM Journal on Control and Optimization, 1984, 22, 805-816.	2.1	17
202	Exosomal microRNA concentrations in colorectal cancer: A mathematical model. Journal of Theoretical Biology, 2017, 415, 70-83.	1.7	17
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