

Avner Friedman

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

421 papers	10,161 citations	52 h-index	80 g-index
432 ext. papers	11,463 ext. citations	1.9 avg, IF	6.48 L-index

#	Paper	IF	Citations
421	. <i>Indiana University Mathematics Journal</i> , 1985 , 34, 425	0.6	489
420	MicroRNA regulation of a cancer network: consequences of the feedback loops involving miR-17-92, E2F, and Myc. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 19678-83	11.5	322
419	Variational problems with two phases and their free boundaries. <i>Transactions of the American Mathematical Society</i> , 1984 , 282, 431-431	1	225
418	Hypoxia inducible microRNA 210 attenuates keratinocyte proliferation and impairs closure in a murine model of ischemic wounds. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 6976-81	11.5	218
417	Analysis of a mathematical model for the growth of tumors. <i>Journal of Mathematical Biology</i> , 1999 , 38, 262-84	2	165
416	The Stefan problem in several space variables. <i>Transactions of the American Mathematical Society</i> , 1968 , 133, 51-51	1	160
415	Glioma virotherapy: effects of innate immune suppression and increased viral replication capacity. <i>Cancer Research</i> , 2006 , 66, 2314-9	10.1	153
414	Identification of small inhomogeneities of extreme conductivity by boundary measurements: a theorem on continuous dependence. <i>Archive for Rational Mechanics and Analysis</i> , 1989 , 105, 299-326	2.3	135
413	Wound angiogenesis as a function of tissue oxygen tension: a mathematical model. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 2628-33	11.5	131
412	Monotonic decay of solutions of parabolic equations with nonlocal boundary conditions. <i>Quarterly of Applied Mathematics</i> , 1986 , 44, 401-407	0.7	120
411	Convexity of solutions of semilinear elliptic equations. <i>Duke Mathematical Journal</i> , 1985 , 52, 431	1.9	112
410	The LDL-HDL profile determines the risk of atherosclerosis: a mathematical model. <i>PLoS ONE</i> , 2014 , 9, e90497	3.7	107
409	Modeling the immune rheostat of macrophages in the lung in response to infection. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 11246-51	11.5	106
408	. <i>Indiana University Mathematics Journal</i> , 1980 , 29, 361	0.6	105
407	Optimal stochastic switching and the Dirichlet problem for the Bellman equation. <i>Transactions of the American Mathematical Society</i> , 1979 , 253, 365-365	1	97
406	Transcriptome-wide analysis of blood vessels laser captured from human skin and chronic wound-edge tissue. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 14472-7	11.5	94
405	Symmetry-breaking bifurcation of analytic solutions to free boundary problems: An application to a model of tumor growth. <i>Transactions of the American Mathematical Society</i> , 2000 , 353, 1587-1634	1	91

404	A mathematical model of ischemic cutaneous wounds. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 16782-7	11.5	87
403	Parabolic variational inequalities in one space dimension and smoothness of the free boundary. <i>Journal of Functional Analysis</i> , 1975 , 18, 151-176	1.4	86
402	Blow-up of solutions of nonlinear degenerate parabolic equations. <i>Archive for Rational Mechanics and Analysis</i> , 1986 , 96, 55-80	2.3	85
401	. <i>Indiana University Mathematics Journal</i> , 1975 , 24, 1005	0.6	81
400	. <i>Indiana University Mathematics Journal</i> , 1989 , 38, 563	0.6	81
399	Volterra integral equations in Banach space. <i>Transactions of the American Mathematical Society</i> , 1967 , 126, 131-131	1	80
398	A mathematical model for pancreatic cancer growth and treatments. <i>Journal of Theoretical Biology</i> , 2014 , 351, 74-82	2.3	79
397	A mathematical model for pattern formation of glioma cells outside the tumor spheroid core. <i>Journal of Theoretical Biology</i> , 2009 , 260, 359-71	2.3	78
396	A Free Boundary Problem for an Elliptic-Hyperbolic System: An Application to Tumor Growth. <i>SIAM Journal on Mathematical Analysis</i> , 2003 , 35, 974-986	1.7	76
395	Analysis of a mathematical model of the effect of inhibitors on the growth of tumors. <i>Mathematical Biosciences</i> , 2000 , 164, 103-37	3.9	76
394	A dynamical system model of neurofilament transport in axons. <i>Journal of Theoretical Biology</i> , 2005 , 237, 316-22	2.3	74
393	MATHEMATICAL ANALYSIS AND CHALLENGES ARISING FROM MODELS OF TUMOR GROWTH. <i>Mathematical Models and Methods in Applied Sciences</i> , 2007 , 17, 1751-1772	3.5	72
392	Mathematical Analysis of a Model for the Initiation of Angiogenesis. <i>SIAM Journal on Mathematical Analysis</i> , 2002 , 33, 1330-1355	1.7	72
391	The time-harmonic maxwell equations in a doubly periodic structure. <i>Journal of Mathematical Analysis and Applications</i> , 1992 , 166, 507-528	1.1	72
390	Mechanistic modeling of the effects of myoferlin on tumor cell invasion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 20078-83	11.5	71
389	Stochastic differential games. <i>Journal of Differential Equations</i> , 1972 , 11, 79-108	2.1	67
388	Bifurcation From Stability to Instability for a Free Boundary Problem Arising in a Tumor Model. <i>Archive for Rational Mechanics and Analysis</i> , 2006 , 180, 293-330	2.3	66
387	Regularity of the Free Boundary for the One-Dimensional Flow of Gas in a Porous Medium. <i>American Journal of Mathematics</i> , 1979 , 101, 1193	1.2	64

386	Continuity of the density of a gas flow in a porous medium. <i>Transactions of the American Mathematical Society</i> , 1979 , 252, 99-99	1	64
385	Partial regularity of the zero-set of solutions of linear and superlinear elliptic equations. <i>Journal of Differential Equations</i> , 1985 , 60, 420-433	2.1	63
384	Stability of solutions of chemotaxis equations in reinforced random walks. <i>Journal of Mathematical Analysis and Applications</i> , 2002 , 272, 138-163	1.1	62
383	Analysis of a Mathematical Model of the Growth of Necrotic Tumors. <i>Journal of Mathematical Analysis and Applications</i> , 2001 , 255, 636-677	1.1	62
382	The free boundary of a semilinear elliptic equation. <i>Transactions of the American Mathematical Society</i> , 1984 , 282, 153-153	1	62
381	Nonlinear variational inequalities and differential games with stopping times. <i>Journal of Functional Analysis</i> , 1974 , 16, 305-352	1.4	61
380	Remarks on the maximum principle for parabolic equations and its applications. <i>Pacific Journal of Mathematics</i> , 1958 , 8, 201-211	0.5	60
379	Extinction properties of semilinear heat equations with strong absorption. <i>Journal of Mathematical Analysis and Applications</i> , 1987 , 124, 530-546	1.1	59
378	miR451 and AMPK mutual antagonism in glioma cell migration and proliferation: a mathematical model. <i>PLoS ONE</i> , 2011 , 6, e28293	3.7	58
377	A model of intracellular transport of particles in an axon. <i>Journal of Mathematical Biology</i> , 2005 , 51, 217-246		58
376	Optimal Control for Variational Inequalities. <i>SIAM Journal on Control and Optimization</i> , 1986 , 24, 439-451	1.9	58
375	Nonzero-sum stochastic differential games with stopping times and free boundary problems. <i>Transactions of the American Mathematical Society</i> , 1977 , 231, 275-275	1	58
374	Asymptotic stability for a free boundary problem arising in a tumor model. <i>Journal of Differential Equations</i> , 2006 , 227, 598-639	2.1	54
373	ANALYSIS OF A MATHEMATICAL MODEL OF TUMOR LYMPHANGIOGENESIS. <i>Mathematical Models and Methods in Applied Sciences</i> , 2005 , 15, 95-107	3.5	54
372	The Ill-Posed Hele-Shaw Model and The Stefan Problem for Supercooled Water. <i>Transactions of the American Mathematical Society</i> , 1984 , 282, 183	1	54
371	The blow-up boundary for nonlinear wave equations. <i>Transactions of the American Mathematical Society</i> , 1986 , 297, 223-223	1	54
370	Reinforcement problems for elliptic equations and variational inequalities. <i>Annali Di Matematica Pura Ed Applicata</i> , 1980 , 123, 219-246	0.8	53
369	On integral equations of Volterra type. <i>Journal De Analyse Mathematique</i> , 1963 , 11, 381-413	0.8	52

368	Interaction of tumor with its micro-environment: A mathematical model. <i>Bulletin of Mathematical Biology</i> , 2010 , 72, 1029-68	2.1	51
367	Bifurcation for a Free Boundary Problem Modeling Tumor Growth by Stokes Equation. <i>SIAM Journal on Mathematical Analysis</i> , 2007 , 39, 174-194	1.7	50
366	Combination therapy of cancer with cancer vaccine and immune checkpoint inhibitors: A mathematical model. <i>PLoS ONE</i> , 2017 , 12, e0178479	3.7	49
365	Mathematical modeling of prostate cancer progression in response to androgen ablation therapy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 19701-6	11.5	48
364	The ill-posed Hele-Shaw model and the Stefan problem for supercooled water. <i>Transactions of the American Mathematical Society</i> , 1984 , 282, 183-183	1	48
363	A Free Boundary Problem for an Elliptic-Parabolic System: Application to a Model of Tumor Growth. <i>Communications in Partial Differential Equations</i> , 2003 , 28, 517-560	1.6	47
362	Hölder estimates for nonlinear degenerate parabolic systems. <i>Journal Fur Die Reine Und Angewandte Mathematik</i> , 1985 , 1985, 1-22	1.2	47
361	Asymptotic estimates for the plasma problem. <i>Duke Mathematical Journal</i> , 1980 , 47, 705	1.9	47
360	A mathematical model of atherosclerosis with reverse cholesterol transport and associated risk factors. <i>Bulletin of Mathematical Biology</i> , 2015 , 77, 758-81	2.1	46
359	A free boundary problem for a singular system of differential equations: An application to a model of tumor growth. <i>Transactions of the American Mathematical Society</i> , 2003 , 355, 3537-3590	1	46
358	Maxwell's Equations in a Periodic Structure. <i>Transactions of the American Mathematical Society</i> , 1991 , 323, 465	1	46
357	Stability and instability of Liapunov-Schmidt and Hopf bifurcation for a free boundary problem arising in a tumor model. <i>Transactions of the American Mathematical Society</i> , 2008 , 360, 5291-5342	1	45
356	The shape of axisymmetric rotating fluid. <i>Journal of Functional Analysis</i> , 1980 , 35, 109-142	1.4	45
355	Differentiability of the blow-up curve for one dimensional nonlinear wave equations. <i>Archive for Rational Mechanics and Analysis</i> , 1985 , 91, 83-98	2.3	44
354	Optimal Control for Parabolic Variational Inequalities. <i>SIAM Journal on Control and Optimization</i> , 1987 , 25, 482-497	1.9	43
353	Stochastic games and variational inequalities. <i>Archive for Rational Mechanics and Analysis</i> , 1973 , 51, 321-346	3.5	43
352	Stability for an inverse problem in potential theory. <i>Transactions of the American Mathematical Society</i> , 1992 , 332, 271-296	1	43
351	Mathematical model on Alzheimer's disease. <i>BMC Systems Biology</i> , 2016 , 10, 108	3.5	42

350	Global existence and asymptotic stability for an elliptic-parabolic free boundary problem: An application to a model of tumor growth. <i>Indiana University Mathematics Journal</i> , 2003 , 52, 1265-1304	0.6	42
349	Mathematical model of sarcoidosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 16065-70	11.5	41
348	Modeling combination therapy for breast cancer with BET and immune checkpoint inhibitors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 5534-5539	11.5	40
347	Estimates on the support of solutions of parabolic variational inequalities. <i>Illinois Journal of Mathematics</i> , 1976 , 20,	0.9	39
346	Homogenization of the Cell Cytoplasm: The Calcium Bidomain Equations. <i>Multiscale Modeling and Simulation</i> , 2006 , 5, 1045-1062	1.8	38
345	Analyticity of the free boundary for the Stefan problem. <i>Archive for Rational Mechanics and Analysis</i> , 1976 , 61, 97-125	2.3	38
344	Complex role of NK cells in regulation of oncolytic virus-bortezomib therapy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 4927-4932	11.5	37
343	Optimal control in Banach spaces. <i>Journal of Mathematical Analysis and Applications</i> , 1967 , 19, 35-55	1.1	37
342	Detection of Mines by Electric Measurements. <i>SIAM Journal on Applied Mathematics</i> , 1987 , 47, 201-212	1.8	36
341	. <i>Indiana University Mathematics Journal</i> , 1979 , 28, 53	0.6	36
340	A mathematical model for microRNA in lung cancer. <i>PLoS ONE</i> , 2013 , 8, e53663	3.7	35
339	Bifurcation from stability to instability for a free boundary problem modeling tumor growth by Stokes equation. <i>Journal of Mathematical Analysis and Applications</i> , 2007 , 327, 643-664	1.1	35
338	Effective permeability of the boundary of a domain. <i>Communications in Partial Differential Equations</i> , 1995 , 20, 59-102	1.6	35
337	A Hyperbolic Free Boundary Problem Modeling Tumor Growth. <i>Interfaces and Free Boundaries</i> , 2003 , 159-182	0.7	34
336	Optimal control for parabolic equations. <i>Journal of Mathematical Analysis and Applications</i> , 1967 , 18, 479-491	1.1	34
335	. <i>Indiana University Mathematics Journal</i> , 1973 , 22, 1005	0.6	34
334	. <i>Indiana University Mathematics Journal</i> , 1984 , 33, 213	0.6	34
333	Nitric oxide diffusion rate is reduced in the aortic wall. <i>Biophysical Journal</i> , 2008 , 94, 1880-9	2.9	33

- 332 Uniform convergence for approximate traveling waves in linear reaction-hyperbolic systems. *Indiana University Mathematics Journal*, **2007**, 56, 2133-2158 0.6 33
- 331 Identification problems in potential theory. *Archive for Rational Mechanics and Analysis*, **1988**, 101, 143-166 33
- 330 Nonlinear eigenvalue problems. *Acta Mathematica*, **1968**, 121, 77-125 2.7 33
- 329 Modeling Granulomas in Response to Infection in the Lung. *PLoS ONE*, **2016**, 11, e0148738 3.7 33
- 328 Analysis of a free-boundary tumor model with angiogenesis. *Journal of Differential Equations*, **2015**, 259, 7636-7661 2.1 32
- 327 Mathematical modeling of interleukin-27 induction of anti-tumor T cells response. *PLoS ONE*, **2014**, 9, e91844 3.7 32
- 326 A free boundary problem for a coupled system of elliptic, hyperbolic, and Stokes equations modeling tumor growth. *Interfaces and Free Boundaries*, **2006**, 247-261 0.7 32
- 325 Blow-up of solutions of nonlinear heat equations. *Journal of Mathematical Analysis and Applications*, **1988**, 129, 409-419 1.1 32
- 324 Convexity of the free boundary in the Stefan problem and in the dam problem. *Archive for Rational Mechanics and Analysis*, **1977**, 67, 1-24 2.3 32
- 323 Transformed epithelial cells and fibroblasts/myofibroblasts interaction in breast tumor: a mathematical model and experiments. *Journal of Mathematical Biology*, **2010**, 61, 401-21 2 31
- 322 Symmetry-Breaking Bifurcations of Charged Drops. *Archive for Rational Mechanics and Analysis*, **2004**, 172, 267-294 2.3 31
- 321 A hyperbolic free boundary problem modeling tumor growth: Asymptotic behavior. *Transactions of the American Mathematical Society*, **2005**, 357, 4771-4804 1 31
- 320 Compressible flows of jets and cavities. *Journal of Differential Equations*, **1985**, 56, 82-141 2.1 31
- 319 Optimal control for hereditary processes. *Archive for Rational Mechanics and Analysis*, **1964**, 15, 396-416 2.3 31
- 318 . *Indiana University Mathematics Journal*, **1974**, 23, 991 0.6 31
- 317 Analysis of a model of a virus that replicates selectively in tumor cells. *Journal of Mathematical Biology*, **2003**, 47, 391-423 2 30
- 316 Inverse problems for scattering by periodic structures. *Archive for Rational Mechanics and Analysis*, **1995**, 132, 49-72 2.3 30
- 315 Asymmetric jet flows. *Communications on Pure and Applied Mathematics*, **1982**, 35, 29-68 2.5 30

314	One dimensional Stefan problems with nonmonotone free boundary. <i>Transactions of the American Mathematical Society</i> , 1968 , 133, 89-89	1	30
313	On the definition of differential games and the existence of value and of saddle points. <i>Journal of Differential Equations</i> , 1970 , 7, 69-91	2.1	30
312	A new proof and generalizations of the Cauchy-Kowalewski theorem. <i>Transactions of the American Mathematical Society</i> , 1961 , 98, 1-1	1	30
311	Mathematical model of renal interstitial fibrosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 14193-8	11.5	29
310	Approximate Traveling Waves in Linear Reaction-Hyperbolic Equations. <i>SIAM Journal on Mathematical Analysis</i> , 2006 , 38, 741-758	1.7	29
309	ON THE EXISTENCE OF SPATIALLY PATTERNED DORMANT MALIGNANCIES IN A MODEL FOR THE GROWTH OF NON-NECROTIC VASCULAR TUMORS. <i>Mathematical Models and Methods in Applied Sciences</i> , 2001 , 11, 601-625	3.5	29
308	Periodic behaviour for the evolutionary dam problem and related free boundary problems Evolutionary dam problem. <i>Communications in Partial Differential Equations</i> , 1986 , 11, 1297-1377	1.6	29
307	Combination therapy for cancer with oncolytic virus and checkpoint inhibitor: A mathematical model. <i>PLoS ONE</i> , 2018 , 13, e0192449	3.7	29
306	The free boundary in the Thomas-Fermi atomic model. <i>Journal of Differential Equations</i> , 1979 , 32, 335-356	2.1	28
305	A free boundary problem for steady small plaques in the artery and their stability. <i>Journal of Differential Equations</i> , 2015 , 259, 1227-1255	2.1	27
304	Symmetry-breaking bifurcations for free boundary problems. <i>Indiana University Mathematics Journal</i> , 2005 , 54, 927-947	0.6	27
303	Existence of value and of saddle points for differential games of pursuit and evasion. <i>Journal of Differential Equations</i> , 1970 , 7, 92-110	2.1	27
302	Mathematical modeling of Interleukin-35 promoting tumor growth and angiogenesis. <i>PLoS ONE</i> , 2014 , 9, e110126	3.7	27
301	Identification of the Conductivity Coefficient in an Elliptic Equation. <i>SIAM Journal on Mathematical Analysis</i> , 1987 , 18, 777-787	1.7	26
300	The free boundary for elastic-plastic torsion problems. <i>Transactions of the American Mathematical Society</i> , 1979 , 252, 65-65	1	26
299	Regularity theorems for variational inequalities in unbounded domains and applications to stopping time problems. <i>Archive for Rational Mechanics and Analysis</i> , 1973 , 52, 134-160	2.3	26
298	Modeling the inhibition of breast cancer growth by GM-CSF. <i>Journal of Theoretical Biology</i> , 2012 , 303, 141-51	2.3	25
297	. <i>Indiana University Mathematics Journal</i> , 1978 , 27, 143	0.6	25

296	. <i>Indiana University Mathematics Journal</i> , 1984 , 33, 367	0.6	25
295	A filtration problem in a porous medium with variable permeability. <i>Annali Di Matematica Pura Ed Applicata</i> , 1977 , 114, 377-393	0.8	24
294	Functions Satisfying the Mean Value Property. <i>Transactions of the American Mathematical Society</i> , 1962 , 102, 167	1	24
293	Singular perturbations for partial differential equations. <i>Archive for Rational Mechanics and Analysis</i> , 1968 , 29, 289-303	2.3	24
292	Tumor cells proliferation and migration under the influence of their microenvironment. <i>Mathematical Biosciences and Engineering</i> , 2011 , 8, 371-83	2.1	24
291	Oxygen regulates the effective diffusion distance of nitric oxide in the aortic wall. <i>Free Radical Biology and Medicine</i> , 2010 , 48, 554-9	7.8	23
290	A model on the influence of age on immunity to infection with Mycobacterium tuberculosis. <i>Experimental Gerontology</i> , 2008 , 43, 275-85	4.5	23
289	The Stefan problem for a hyperbolic heat equation. <i>Journal of Mathematical Analysis and Applications</i> , 1989 , 138, 249-279	1.1	23
288	Existence and dimensions of a rotating white dwarf. <i>Journal of Differential Equations</i> , 1981 , 42, 414-437	2.1	23
287	Choindroitinase ABC I-mediated enhancement of oncolytic virus spread and anti tumor efficacy: a mathematical model. <i>PLoS ONE</i> , 2014 , 9, e102499	3.7	23
286	Combination therapy for melanoma with BRAF/MEK inhibitor and immune checkpoint inhibitor: a mathematical model. <i>BMC Systems Biology</i> , 2017 , 11, 70	3.5	22
285	Involvement of tumor macrophage HIFs in chemotherapy effectiveness: mathematical modeling of oxygen, pH, and glutathione. <i>PLoS ONE</i> , 2014 , 9, e107511	3.7	22
284	Conduction-convection problems with change of phase. <i>Journal of Differential Equations</i> , 1986 , 62, 129-185	1.1	22
283	The Role of Exosomes in Pancreatic Cancer Microenvironment. <i>Bulletin of Mathematical Biology</i> , 2018 , 80, 1111-1133	2.1	21
282	A Mathematical Model of Idiopathic Pulmonary Fibrosis. <i>PLoS ONE</i> , 2015 , 10, e0135097	3.7	21
281	A boundary value problem for the poisson equation with multi-scale oscillating Boundary. <i>Journal of Differential Equations</i> , 1997 , 137, 54-93	2.1	21
280	Nonlinear stability of the Muskat problem with capillary pressure at the free boundary. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 2003 , 53, 45-80	1.3	21
279	The free boundary of a flow in a porous body heated from its boundary. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 1986 , 10, 879-900	1.3	21

278	The Blow-Up Time for Solutions of Nonlinear Heat Equations with Small Diffusion. <i>SIAM Journal on Mathematical Analysis</i> , 1987 , 18, 711-721	1.7	21
277	Reinforcement of the principal eigenvalue of an elliptic operator. <i>Archive for Rational Mechanics and Analysis</i> , 1980 , 73, 1-17	2.3	21
276	Asymptotic estimates for an axisymmetric rotating fluid. <i>Journal of Functional Analysis</i> , 1980 , 37, 136-163.	3.4	21
275	Anthrax epizootic and migration: persistence or extinction. <i>Mathematical Biosciences</i> , 2013 , 241, 137-44	3.9	20
274	Qualitative network modeling of the Myc-p53 control system of cell proliferation and differentiation. <i>Biophysical Journal</i> , 2011 , 101, 2082-91	2.9	20
273	Fatal disease and demographic Allee effect: population persistence and extinction. <i>Journal of Biological Dynamics</i> , 2012 , 6, 495-508	2.4	20
272	Stationary Non-Newtonian Fluid Flows in Channel-like and Pipe-like Domains. <i>Archive for Rational Mechanics and Analysis</i> , 2000 , 151, 1-43	2.3	20
271	Asymptotic behavior of solutions of parabolic equations of any order. <i>Acta Mathematica</i> , 1961 , 106, 1-43.	2.7	20
270	Control of Free Boundary Problems with Hysteresis. <i>SIAM Journal on Control and Optimization</i> , 1988 , 26, 42-55	1.9	19
269	Monotonicity of solutions of Volterra integral equations in Banach space. <i>Transactions of the American Mathematical Society</i> , 1969 , 138, 129-129	1	19
268	Asymptotic stability and spiraling properties for solutions of stochastic equations. <i>Transactions of the American Mathematical Society</i> , 1973 , 186, 331-331	1	19
267	Mathematics in Industrial Problems. <i>The IMA Volumes in Mathematics and Its Applications</i> , 1990 ,	0.5	19
266	Mathematical model of chronic pancreatitis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 5011-5016	11.5	18
265	Quasi-static motion of a capillary drop, II: the three-dimensional case. <i>Journal of Differential Equations</i> , 2002 , 186, 509-557	2.1	18
264	Free boundary problems in biology. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2015 , 373,	3	17
263	Hypoxia inducible factors-mediated inhibition of cancer by GM-CSF: a mathematical model. <i>Bulletin of Mathematical Biology</i> , 2012 , 74, 2752-77	2.1	17
262	Modeling the host response to inhalation anthrax. <i>Journal of Theoretical Biology</i> , 2011 , 276, 199-208	2.3	17
261	Stochastic Differential Equations and Applications 2010 , 75-148		17

260	A quasilinear parabolic system arising in modelling of catalytic reactors. <i>Journal of Differential Equations</i> , 1987 , 70, 167-196	2.1	17
259	. <i>Indiana University Mathematics Journal</i> , 1978 , 27, 527	0.6	17
258	A mathematical model for chronic wounds. <i>Mathematical Biosciences and Engineering</i> , 2011 , 8, 253-61	2.1	17
257	Mathematical modeling of liver fibrosis. <i>Mathematical Biosciences and Engineering</i> , 2017 , 14, 143-164	2.1	17
256	Mathematical model of the roles of T cells in inflammatory bowel disease. <i>Bulletin of Mathematical Biology</i> , 2013 , 75, 1417-33	2.1	16
255	The role of CD200-CD200R in tumor immune evasion. <i>Journal of Theoretical Biology</i> , 2013 , 328, 65-76	2.3	16
254	Modeling prostate cancer response to continuous versus intermittent androgen ablation therapy. <i>Discrete and Continuous Dynamical Systems - Series B</i> , 2013 , 18, 945-967	1.3	16
253	Analysis of a Mathematical Model of Ischemic Cutaneous Wounds. <i>SIAM Journal on Mathematical Analysis</i> , 2010 , 42, 2013-2040	1.7	16
252	Malaria model with periodic mosquito birth and death rates. <i>Journal of Biological Dynamics</i> , 2009 , 3, 430-441	2.4	16
251	A variational inequality approach to financial valuation of retirement benefits based on salary. <i>Finance and Stochastics</i> , 2002 , 6, 273-302	1.9	16
250	A Stefan Problem for a Protocell Model. <i>SIAM Journal on Mathematical Analysis</i> , 1999 , 30, 912-926	1.7	16
249	Regularity of the solution of the quasi variational inequality for the impulse control problem. <i>Communications in Partial Differential Equations</i> , 1978 , 3, 745-753	1.6	16
248	A mathematical model of aortic aneurysm formation. <i>PLoS ONE</i> , 2017 , 12, e0170807	3.7	16
247	. <i>Indiana University Mathematics Journal</i> , 1982 , 31, 135	0.6	16
246	Phenomenological Continuum Equations To Describe Case II Diffusion in Polymeric Materials. <i>Macromolecules</i> , 1997 , 30, 153-154	5.5	15
245	Blow-Up Estimates for a Nonlinear Hyperbolic Heat Equation. <i>SIAM Journal on Mathematical Analysis</i> , 1989 , 20, 354-366	1.7	15
244	Nonlinear Optimal Control Problems for Parabolic Equations. <i>SIAM Journal on Control and Optimization</i> , 1984 , 22, 805-816	1.9	15
243	A Stefan-Signorini problem. <i>Journal of Differential Equations</i> , 1984 , 51, 213-231	2.1	15

242	Optimal control in Banach space with fixed end-points. <i>Journal of Mathematical Analysis and Applications</i> , 1968 , 24, 161-181	1.1	15
241	On two theorems of Phragmén-Lindelöf for linear elliptic and parabolic differential equations of the second order. <i>Pacific Journal of Mathematics</i> , 1957 , 7, 1563-1575	0.5	15
240	PDE problems arising in mathematical biology. <i>Networks and Heterogeneous Media</i> , 2012 , 7, 691-703	1.6	15
239	A multiscale tumor model. <i>Interfaces and Free Boundaries</i> , 2008 , 245-262	0.7	15
238	Mathematical modeling in scheduling cancer treatment with combination of VEGF inhibitor and chemotherapy drugs. <i>Journal of Theoretical Biology</i> , 2019 , 462, 490-498	2.3	15
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