Avner Friedman

List of Publications by Year in Descending Order

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	Combination therapy for mCRPC with immune checkpoint inhibitors, ADT and vaccine: A mathematical model.. *PLoS ONE*, **2022**, 17, e0262453	3.7	1
420	A mathematical model of immunomodulatory treatment in myocardial infarction.. *Journal of Theoretical Biology*, **2022**, 544, 111122	2.3	0
419	Analysis of a mathematical model of immune response to fungal infection. *Journal of Mathematical Biology*, **2021**, 83, 8	2	0
418	TGF- inhibition can overcome cancer primary resistance to PD-1 blockade: A mathematical model. *PLoS ONE*, **2021**, 16, e0252620	3.7	6
417	A mathematical model of the multiple sclerosis plaque. *Journal of Theoretical Biology*, **2021**, 512, 110532	2.3	1
416	Analysis of a mathematical model of rheumatoid arthritis. *Journal of Mathematical Biology*, **2020**, 80, 1857-1883	2	1
415	Mathematical modeling of cancer treatment with radiation and PD-L1 inhibitor. *Science China Mathematics*, **2020**, 63, 465-484	0.8	4
414	Overcoming Drug Resistance to BRAF Inhibitor. *Bulletin of Mathematical Biology*, **2020**, 82, 8	2.1	0
413	Increase hemoglobin level in severe malarial anemia while controlling parasitemia: A mathematical model. *Mathematical Biosciences*, **2020**, 326, 108374	3.9	0
412	Mathematical Model of Chronic Dermal Wounds in Diabetes and Obesity. *Bulletin of Mathematical Biology*, **2020**, 82, 137	2.1	1
411	TNF- inhibitor reduces drug-resistance to anti-PD-1: A mathematical model. *PLoS ONE*, **2020**, 15, e0231499	3.7	3
410	How to schedule VEGF and PD-1 inhibitors in combination cancer therapy?. *BMC Systems Biology*, **2019**, 13, 30	3.5	6
409	Mathematical modeling in scheduling cancer treatment with combination of VEGF inhibitor and chemotherapy drugs. *Journal of Theoretical Biology*, **2019**, 462, 490-498	2.3	15
408	Rheumatoid arthritis - a mathematical model. *Journal of Theoretical Biology*, **2019**, 461, 17-33	2.3	8
407	Complex role of NK cells in regulation of oncolytic virus-bortezomib therapy. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 4927-4932	11.5	37
406	The Role of Exosomes in Pancreatic Cancer Microenvironment. *Bulletin of Mathematical Biology*, **2018**, 80, 1111-1133	2.1	21
405	Chronic hepatitis B virus and liver fibrosis: A mathematical model. *PLoS ONE*, **2018**, 13, e0195037	3.7	7

404	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	11.5	40
403	Combination therapy for cancer with oncolytic virus and checkpoint inhibitor: A mathematical model. *PLoS ONE*, **2018**, 13, e0192449	3.7	29
402	Free boundary problems arising in biology. *Discrete and Continuous Dynamical Systems - Series B*, **2018**, 23, 193-202	1.3	1
401	Mathematical Biology. *Regional Conference Series in Mathematics*, **2018**,	1.3	5
400	Mathematical model of chronic pancreatitis. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, 5011-5016	11.5	18
399	Exosomal microRNA concentrations in colorectal cancer: A mathematical model. *Journal of Theoretical Biology*, **2017**, 415, 70-83	2.3	8
398	Combination therapy of cancer with cancer vaccine and immune checkpoint inhibitors: A mathematical model. *PLoS ONE*, **2017**, 12, e0178479	3.7	49
397	Combination therapy for melanoma with BRAF/MEK inhibitor and immune checkpoint inhibitor: a mathematical model. *BMC Systems Biology*, **2017**, 11, 70	3.5	22
396	Granuloma formation in leishmaniasis: A mathematical model. *Journal of Theoretical Biology*, **2017**, 412, 48-60	2.3	13
395	A mathematical model of aortic aneurysm formation. *PLoS ONE*, **2017**, 12, e0170807	3.7	16
394	Mathematical modeling of liver fibrosis. *Mathematical Biosciences and Engineering*, **2017**, 14, 143-164	2.1	17
393	The role of TNF-□nhibitor in glioma virotherapy: A mathematical model. *Mathematical Biosciences and Engineering*, **2017**, 14, 305-319	2.1	8
392	Mathematical model on Alzheimer's disease. *BMC Systems Biology*, **2016**, 10, 108	3.5	42
391	Bacterial Growth in Chemostat. *Springer Undergraduate Texts in Mathematics and Technology*, **2016**, 3-27	0.1	
390	The Chemostat Model Revisited. *Springer Undergraduate Texts in Mathematics and Technology*, **2016**, 87-95	0.1	
389	Immune response to infection by Leishmania: A mathematical model. *Mathematical Biosciences*, **2016**, 276, 28-43	3.9	14
388	Serum uPAR as Biomarker in Breast Cancer Recurrence: A Mathematical Model. *PLoS ONE*, **2016**, 11, e0153508	3.7	14
387	Exosomal miRs in Lung Cancer: A Mathematical Model. *PLoS ONE*, **2016**, 11, e0167706	3.7	11

386	Free boundary problems for systems of Stokes equations. *Discrete and Continuous Dynamical Systems - Series B*, **2016**, 21, 1455-1468	1.3	6
385	Two Competing Populations. *Springer Undergraduate Texts in Mathematics and Technology*, **2016**, 65-74	0.1	
384	Cancer Therapy. *Springer Undergraduate Texts in Mathematics and Technology*, **2016**, 147-156	0.1	
383	Systems of Two Differential Equations. *Springer Undergraduate Texts in Mathematics and Technology*, **2016**, 43-50	0.1	
382	General Systems of Differential Equations. *Springer Undergraduate Texts in Mathematics and Technology*, **2016**, 75-85	0.1	
381	Predator-Prey Models. *Springer Undergraduate Texts in Mathematics and Technology*, **2016**, 51-63	0.1	0
380	Cancer-Immune Interaction. *Springer Undergraduate Texts in Mathematics and Technology*, **2016**, 137-146	0.1	0
379	Spread of Disease. *Springer Undergraduate Texts in Mathematics and Technology*, **2016**, 97-104	0.1	0
378	Bifurcation Theory. *Springer Undergraduate Texts in Mathematics and Technology*, **2016**, 117-128	0.1	
377	Enzyme Dynamics. *Springer Undergraduate Texts in Mathematics and Technology*, **2016**, 105-115	0.1	1
376	Modeling Granulomas in Response to Infection in the Lung. *PLoS ONE*, **2016**, 11, e0148738	3.7	33
375	Inflammatory Bowel Disease: How Effective Is TNF-Suppression?. *PLoS ONE*, **2016**, 11, e0165782	3.7	5
374	Introduction to Mathematical Biology. *Springer Undergraduate Texts in Mathematics and Technology* , **2016**,	0.1	8
373	Atherosclerosis: The Risk of High Cholesterol. *Springer Undergraduate Texts in Mathematics and Technology*, **2016**, 129-136	0.1	
372	System of Two Linear Differential Equations. *Springer Undergraduate Texts in Mathematics and Technology*, **2016**, 29-42	0.1	
371	Effects of CCN1 and Macrophage Content on Glioma Virotherapy: A Mathematical Model. *Bulletin of Mathematical Biology*, **2015**, 77, 984-1012	2.1	10
370	A free boundary problem for steady small plaques in the artery and their stability. *Journal of Differential Equations*, **2015**, 259, 1227-1255	2.1	27
369	Analysis of a free-boundary tumor model with angiogenesis. *Journal of Differential Equations*, **2015**, 259, 7636-7661	2.1	32

368	Free boundary problems in biology. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2015**, 373,	3	17
367	A Mathematical Model of Idiopathic Pulmonary Fibrosis. *PLoS ONE*, **2015**, 10, e0135097	3.7	21
366	A mathematical model of atherosclerosis with reverse cholesterol transport and associated risk factors. *Bulletin of Mathematical Biology*, **2015**, 77, 758-81	2.1	46
365	The role of the cytokines IL-27 and IL-35 in cancer. *Mathematical Biosciences and Engineering*, **2015**, 12, 1203-17	2.1	14
364	A mathematical model for pancreatic cancer growth and treatments. *Journal of Theoretical Biology*, **2014**, 351, 74-82	2.3	79
363	Mathematical model of renal interstitial fibrosis. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 14193-8	11.5	29
362	Mathematical model of sarcoidosis. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 16065-70	11.5	41
361	Mathematical Modeling of Biological Processes. *Lecture Notes on Mathematical Modelling in the Life Sciences*, **2014**,	0.3	7
360	On a multiphase multicomponent model of biofilm growth. *Archive for Rational Mechanics and Analysis*, **2014**, 211, 257-300	2.3	13
359	Mathematical modeling of interleukin-27 induction of anti-tumor T cells response. *PLoS ONE*, **2014**, 9, e91844	3.7	32
358	Involvement of tumor macrophage HIFs in chemotherapy effectiveness: mathematical modeling of oxygen, pH, and glutathione. *PLoS ONE*, **2014**, 9, e107511	3.7	22
357	On the stability of steady states in a granuloma model. *Journal of Differential Equations*, **2014**, 256, 3743-3769	2.1	3
356	A bovine babesiosis model with dispersion. *Bulletin of Mathematical Biology*, **2014**, 76, 98-135	2.1	9
355	The LDL-HDL profile determines the risk of atherosclerosis: a mathematical model. *PLoS ONE*, **2014**, 9, e90497	3.7	107
354	Choindroitinase ABC I-mediated enhancement of oncolytic virus spread and anti tumor efficacy: a mathematical model. *PLoS ONE*, **2014**, 9, e102499	3.7	23
353	Mathematical modeling of Interleukin-35 promoting tumor growth and angiogenesis. *PLoS ONE*, **2014**, 9, e110126	3.7	27
352	Neurofilaments Transport in Axon. *Lecture Notes on Mathematical Modelling in the Life Sciences*, **2014**, 93-101	0.3	
351	Mathematical model of the roles of T cells in inflammatory bowel disease. *Bulletin of Mathematical Biology*, **2013**, 75, 1417-33	2.1	16

350	The role of CD200-CD200R in tumor immune evasion. *Journal of Theoretical Biology*, **2013**, 328, 65-76	2.3	16
349	Anthrax epizootic and migration: persistence or extinction. *Mathematical Biosciences*, **2013**, 241, 137-44	3.9	20
348	The Diffusion Approximation for Linear Nonautonomous Reaction-Hyperbolic Equations. *SIAM Journal on Mathematical Analysis*, **2013**, 45, 2285-2298	1.7	1
347	Mathematical model of colitis-associated colon cancer. *Journal of Theoretical Biology*, **2013**, 317, 20-9	2.3	5
346	A two-phase free boundary problem with discontinuous velocity: Application to tumor model. *Journal of Mathematical Analysis and Applications*, **2013**, 399, 378-393	1.1	7
345	Epidemiological Models with Seasonality. *Lecture Notes on Mathematical Modelling in the Life Sciences*, **2013**, 389-410	0.3	3
344	A MATHEMATICAL MODEL FOR CELL-INDUCED GEL COMPACTION IN VITRO. *Mathematical Models and Methods in Applied Sciences*, **2013**, 23, 127-163	3.5	5
343	Modeling prostate cancer response to continuous versus intermittent androgen ablation therapy. *Discrete and Continuous Dynamical Systems - Series B*, **2013**, 18, 945-967	1.3	16
342	A mathematical model for microRNA in lung cancer. *PLoS ONE*, **2013**, 8, e53663	3.7	35
341	A partial differential equation model of metastasized prostatic cancer. *Mathematical Biosciences and Engineering*, **2013**, 10, 591-608	2.1	4
340	Can malaria parasite pathogenesis be prevented by treatment with tumor necrosis factor-alpha?. *Mathematical Biosciences and Engineering*, **2013**, 10, 609-24	2.1	
339	Modeling the inhibition of breast cancer growth by GM-CSF. *Journal of Theoretical Biology*, **2012**, 303, 141-51	2.3	25
338	Asymptotic limit in a cell differentiation model with consideration of transcription. *Journal of Differential Equations*, **2012**, 252, 5679-5711	2.1	8
337	Host Demographic Allee Effect, Fatal Disease, and Migration: Persistence or Extinction. *SIAM Journal on Applied Mathematics*, **2012**, 72, 1644-1666	1.8	8
336	Hypoxia inducible factors-mediated inhibition of cancer by GM-CSF: a mathematical model. *Bulletin of Mathematical Biology*, **2012**, 74, 2752-77	2.1	17
335	Conservation laws in mathematical biology. *Discrete and Continuous Dynamical Systems*, **2012**, 32, 3081-3097	1	3
334	A mathematical model of CR3/TLR2 crosstalk in the context of Francisella tularensis infection. *PLoS Computational Biology*, **2012**, 8, e1002757	5	12
333	Fatal disease and demographic Allee effect: population persistence and extinction. *Journal of Biological Dynamics*, **2012**, 6, 495-508	2.4	20

332	A three dimensional model of wound healing: Analysis and computation. *Discrete and Continuous Dynamical Systems - Series B*, **2012**, 17, 2691-2712	1.3	6
331	PDE problems arising in mathematical biology. *Networks and Heterogeneous Media*, **2012**, 7, 691-703	1.6	15
330	Qualitative network modeling of the Myc-p53 control system of cell proliferation and differentiation. *Biophysical Journal*, **2011**, 101, 2082-91	2.9	20
329	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, 19701-6	11.5	48
328	miR451 and AMPK mutual antagonism in glioma cell migration and proliferation: a mathematical model. *PLoS ONE*, **2011**, 6, e28293	3.7	58
327	Modeling the host response to inhalation anthrax. *Journal of Theoretical Biology*, **2011**, 276, 199-208	2.3	17
326	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, 20078-83	11.5	71
325	A mathematical model for chronic wounds. *Mathematical Biosciences and Engineering*, **2011**, 8, 253-61	2.1	17
324	Tumor cells proliferation and migration under the influence of their microenvironment. *Mathematical Biosciences and Engineering*, **2011**, 8, 371-83	2.1	24
323	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, 6976-81	11.5	218
322	Analysis of a Mathematical Model of Ischemic Cutaneous Wounds. *SIAM Journal on Mathematical Analysis*, **2010**, 42, 2013-2040	1.7	16
321	Stochastic Differential Equations and Applications **2010**, 75-148		17
320	Cell cycle control at the first restriction point and its effect on tissue growth. *Journal of Mathematical Biology*, **2010**, 60, 881-907	2	9
319	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
318	Mathematical model for optimal use of sulfadoxine-pyrimethamine as a temporary malaria vaccine. *Bulletin of Mathematical Biology*, **2010**, 72, 914-30	2.1	7
317	Interaction of tumor with its micro-environment: A mathematical model. *Bulletin of Mathematical Biology*, **2010**, 72, 1029-68	2.1	51
316	Tuberculosis research: going forward with a powerful "translational systems biology" approach. *Tuberculosis*, **2010**, 90, 7-8	2.6	12
315	Oxygen regulates the effective diffusion distance of nitric oxide in the aortic wall. *Free Radical Biology and Medicine*, **2010**, 48, 554-9	7.8	23

314	A model of drug resistance with infection by health care workers. *Mathematical Biosciences and Engineering*, **2010**, 7, 779-92	2.1	8
313	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, 11246-51	11.5	106
312	A mathematical model of ischemic cutaneous wounds. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 16782-7	11.5	87
311	Malaria model with periodic mosquito birth and death rates. *Journal of Biological Dynamics*, **2009**, 3, 430-45	2.4	16
310	A mathematical model for pattern formation of glioma cells outside the tumor spheroid core. *Journal of Theoretical Biology*, **2009**, 260, 359-71	2.3	78
309	Modeling the effects of resection, radiation and chemotherapy in glioblastoma. *Journal of Neuro-Oncology*, **2009**, 91, 287-93	4.8	12
308	Asymptotic phases in a cell differentiation model. *Journal of Differential Equations*, **2009**, 247, 736-769	2.1	12
307	Multiscale Modeling of Electrical and Intracellular Activity in the Pancreas: The Islet Tridomain Equations. *Multiscale Modeling and Simulation*, **2009**, 7, 1609-1642	1.8	1
306	A model on the influence of age on immunity to infection with Mycobacterium tuberculosis. *Experimental Gerontology*, **2008**, 43, 275-85	4.5	23
305	Nitric oxide diffusion rate is reduced in the aortic wall. *Biophysical Journal*, **2008**, 94, 1880-9	2.9	33
304	A Parabolic–Hyperbolic Quasilinear System. *Communications in Partial Differential Equations*, **2008**, 33, 969-987	1.6	3
303	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, 19678-83	11.5	322
302	THE ROLE OF OXYGEN IN TISSUE MAINTENANCE: MATHEMATICAL MODELING AND QUALITATIVE ANALYSIS. *Mathematical Models and Methods in Applied Sciences*, **2008**, 18, 1409-1441	3.5	11
301	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, 2628-33	11.5	131
300	The extensional flow of a thin sheet of incompressible, transversely isotropic fluid. *European Journal of Applied Mathematics*, **2008**, 19, 225-257	1	12
299	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	1	45
298	A multiscale tumor model. *Interfaces and Free Boundaries*, **2008**, 245-262	0.7	15
297	Models of Cellular Regulation **2008**,		10

296	MATHEMATICAL ANALYSIS AND CHALLENGES ARISING FROM MODELS OF TUMOR GROWTH. *Mathematical Models and Methods in Applied Sciences*, **2007**, 17, 1751-1772	3.5	72
295	Uniform convergence for approximate traveling waves in linear reaction-hyperbolic systems. *Indiana University Mathematics Journal*, **2007**, 56, 2133-2158	0.6	33
294	Uniform Convergence for Approximate Traveling Waves in Linear Reaction□Diffusion□Hyperbolic Systems. *Archive for Rational Mechanics and Analysis*, **2007**, 186, 251-274	2.3	10
293	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	1.1	35
292	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, 14472-7	11.5	94
291	Bifurcation for a Free Boundary Problem Modeling Tumor Growth by Stokes Equation. *SIAM Journal on Mathematical Analysis*, **2007**, 39, 174-194	1.7	50
290	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	2.3	66
289	Cancer Models and Their Mathematical Analysis. *Lecture Notes in Mathematics*, **2006**, 223-246	0.4	12
288	Glioma virotherapy: effects of innate immune suppression and increased viral replication capacity. *Cancer Research*, **2006**, 66, 2314-9	10.1	153
287	Approximate Traveling Waves in Linear Reaction-Hyperbolic Equations. *SIAM Journal on Mathematical Analysis*, **2006**, 38, 741-758	1.7	29
286	Homogenization of the Cell Cytoplasm: The Calcium Bidomain Equations. *Multiscale Modeling and Simulation*, **2006**, 5, 1045-1062	1.8	38
285	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
284	Asymptotic stability for a free boundary problem arising in a tumor model. *Journal of Differential Equations*, **2006**, 227, 598-639	2.1	54
283	A hyperbolic free boundary problem modeling tumor growth: Asymptotic behavior. *Transactions of the American Mathematical Society*, **2005**, 357, 4771-4804	1	31
282	The Hele-Shaw problem with surface tension in a half-plane: A model problem. *Journal of Differential Equations*, **2005**, 216, 387-438	2.1	11
281	The Hele□Shaw problem with surface tension in a half-plane. *Journal of Differential Equations*, **2005**, 216, 439-469	2.1	12
280	Free boundary problems with surface tension conditions. *Nonlinear Analysis: Theory, Methods & Applications*, **2005**, 63, 666-671	1.3	2
279	A model of intracellular transport of particles in an axon. *Journal of Mathematical Biology*, **2005**, 51, 217-246	2	58

278	A dynamical system model of neurofilament transport in axons. *Journal of Theoretical Biology*, **2005**, 237, 316-22	2.3	74
277	Symmetry-breaking bifurcations for free boundary problems. *Indiana University Mathematics Journal*, **2005**, 54, 927-947	0.6	27
276	ANALYSIS OF A MATHEMATICAL MODEL OF TUMOR LYMPHANGIOGENESIS. *Mathematical Models and Methods in Applied Sciences*, **2005**, 15, 95-107	3.5	54
275	Mathematical analysis of a modular network coordinating the cell cycle and apoptosis. *Mathematical Biosciences and Engineering*, **2005**, 2, 473-85	2.1	8
274	Symmetry-Breaking Bifurcations of Charged Drops. *Archive for Rational Mechanics and Analysis*, **2004**, 172, 267-294	2.3	31
273	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	1	46
272	A Hyperbolic Free Boundary Problem Modeling Tumor Growth. *Interfaces and Free Boundaries*, **2003**, 159-182	0.7	34
271	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	0.6	42
270	Analysis of a model of a virus that replicates selectively in tumor cells. *Journal of Mathematical Biology*, **2003**, 47, 391-423	2	30
269	Nonlinear stability of the Muskat problem with capillary pressure at the free boundary. *Nonlinear Analysis: Theory, Methods & Applications*, **2003**, 53, 45-80	1.3	21
268	A Free Boundary Problem for an Elliptic-Parabolic System: Application to a Model of Tumor Growth. *Communications in Partial Differential Equations*, **2003**, 28, 517-560	1.6	47
267	A Free Boundary Problem for an Elliptic-Hyperbolic System: An Application to Tumor Growth. *SIAM Journal on Mathematical Analysis*, **2003**, 35, 974-986	1.7	76
266	Limited Coalescence. *Mathematics in Industry*, **2003**, 67-74	0.2	
265	Quasistatic Motion of a Capillary Drop I. The Two-Dimensional Case. *Journal of Differential Equations*, **2002**, 178, 212-263	2.1	11
264	A variational inequality approach to financial valuation of retirement benefits based on salary. *Finance and Stochastics*, **2002**, 6, 273-302	1.9	16
263	Stability of solutions of chemotaxis equations in reinforced random walks. *Journal of Mathematical Analysis and Applications*, **2002**, 272, 138-163	1.1	62
262	Quasi-static motion of a capillary drop, II: the three-dimensional case. *Journal of Differential Equations*, **2002**, 186, 509-557	2.1	18
261	Mathematical Analysis of a Model for the Initiation of Angiogenesis. *SIAM Journal on Mathematical Analysis*, **2002**, 33, 1330-1355	1.7	72

260	Head Media Interaction in Magnetic Recording. *Journal of Differential Equations*, **2001**, 171, 443-461	2.1	6
259	Analysis of a Mathematical Model of the Growth of Necrotic Tumors. *Journal of Mathematical Analysis and Applications*, **2001**, 255, 636-677	1.1	62
258	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	3.5	29
257	ANALYSIS OF THE STICK-SLIP PROBLEM FOR NON-NEWTONIAN FLOWS. *Communications in Partial Differential Equations*, **2001**, 26, 461-536	1.6	4
256	A Stefan problem for a protocell model with symmetry-breaking bifurcations of analytic solutions. *Interfaces and Free Boundaries*, **2001**, 143-199	0.7	14
255	The evolution of stress intensity factors in the propagation of two dimensional cracks. *European Journal of Applied Mathematics*, **2000**, 11, 453-471	1	2
254	The flow of a class of Oldroyd fluids around a re-entrant corner. *Journal of Non-Newtonian Fluid Mechanics*, **2000**, 95, 185-198	2.7	5
253	The Evolution of Stress Intensity Factors and the Propagation of Cracks in Elastic Media. *Archive for Rational Mechanics and Analysis*, **2000**, 152, 103-139	2.3	7
252	Stationary Non-Newtonian Fluid Flows¶in Channel-like and Pipe-like Domains. *Archive for Rational Mechanics and Analysis*, **2000**, 151, 1-43	2.3	20
251	Analysis of a mathematical model of the effect of inhibitors on the growth of tumors. *Mathematical Biosciences*, **2000**, 164, 103-37	3.9	76
250	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	1	91
249	Analysis of a mathematical model for the growth of tumors. *Journal of Mathematical Biology*, **1999**, 38, 262-84	2	165
248	Analysis of a Mathematical Model of Protocell. *Journal of Mathematical Analysis and Applications*, **1999**, 236, 171-206	1.1	8
247	A Stefan Problem for a Protocell Model. *SIAM Journal on Mathematical Analysis*, **1999**, 30, 912-926	1.7	16
246	Asymptotic behavior of solutions of coagulation-fragmentation models. *Indiana University Mathematics Journal*, **1998**, 47, 0-0	0.6	1
245	Measuring coalescence rates. *The IMA Volumes in Mathematics and Its Applications*, **1998**, 62-71	0.5	
244	Solutions to problems from previous parts. *The IMA Volumes in Mathematics and Its Applications*, **1998**, 179-181	0.5	
243	Phenomenological Continuum Equations To Describe Case II Diffusion in Polymeric Materials. *Macromolecules*, **1997**, 30, 153-154	5.5	15

242	Averaged Motion of Charged Particles in a Curved Strip. *SIAM Journal on Applied Mathematics*, **1997**, 57, 1557-1587	1.8	2
241	Head-Media Interaction in Magnetic Recording. *Archive for Rational Mechanics and Analysis*, **1997**, 140, 79-101	2.3	7
240	A boundary value problem for the poisson equation with multi-scale oscillating Boundary. *Journal of Differential Equations*, **1997**, 137, 54-93	2.1	21
239	A non-stationary multi-scale oscillating free boundary for the laplace and heat equations. *Journal of Differential Equations*, **1997**, 137, 119-165	2.1	8
238	Solutions to problems from previous parts. *The IMA Volumes in Mathematics and Its Applications*, **1997**, 207-208	0.5	
237	Formation of photographic images. *The IMA Volumes in Mathematics and Its Applications*, **1997**, 84-90	0.5	
236	Fluid flow in a porous medium. *The IMA Volumes in Mathematics and Its Applications*, **1997**, 94-105	0.5	
235	A diffusion model of droplet absorption. *The IMA Volumes in Mathematics and Its Applications*, **1997**, 22-34	0.5	
234	A phenomenological model for case-II diffusion in polymers. *The IMA Volumes in Mathematics and Its Applications*, **1997**, 186-196	0.5	
233	A Stefan Problem for Multidimensional Reaction-Diffusion Systems. *SIAM Journal on Mathematical Analysis*, **1996**, 27, 1212-1234	1.7	4
232	Propagation of cracks in elastic media. *Archive for Rational Mechanics and Analysis*, **1996**, 136, 235-290	2.3	14
231	Nonlinear PDE problems in electrophotography **1996**, 13-24		
230	Inverse problems for scattering by periodic structures. *Archive for Rational Mechanics and Analysis*, **1995**, 132, 49-72	2.3	30
229	Swelling of a rubber ball in the presence of a good solvent. *Nonlinear Analysis: Theory, Methods & Applications*, **1995**, 25, 547-568	1.3	
228	Effective permeability of the boundary of a domain. *Communications in Partial Differential Equations*, **1995**, 20, 59-102	1.6	35
227	A Stefan Problem for a Reaction-Diffusion System. *SIAM Journal on Mathematical Analysis*, **1995**, 26, 1089-1112	2.7	124
226	Modeling of electrostatic bell sprayers. *The IMA Volumes in Mathematics and Its Applications*, **1995**, 33-40	0.5	
225	Mathematical modeling in diffractive optics. *The IMA Volumes in Mathematics and Its Applications*, **1995**, 147-165	0.5	

224	Mass transport in colloidal dispersions. *The IMA Volumes in Mathematics and Its Applications*, **1995**, 12-22	0.5	
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