Gerald M Saidel

List of Publications by Year
in descending order

147 papers	2,967 citations	147566 31 h-index	223531 46 g-index
147 all docs	147 docs citations	147 times ranked	2770 citing authors

#	Article	IF	Citations
1	Soil mobility of synthetic and virus-based model nanopesticides. Nature Nanotechnology, 2019, 14, 712-718.	15.6	59
2	Quantifying Proliferative and Surface Marker Heterogeneity in Colony Founding Connective Tissue Progenitors and Their Progeny Using Timeâ€Lapse Microscopy. Journal of Tissue Engineering and Regenerative Medicine, 2018, 13, 203-216.	1.3	5
3	Whole-body iron transport and metabolism: Mechanistic, multi-scale model to improve treatment of anemia in chronic kidney disease. PLoS Computational Biology, 2018, 14, e1006060.	1.5	11
4	Mathematical modelling of glycosaminoglycan production by stem cell aggregates incorporated with growth factor-releasing polymer microspheres. Journal of Tissue Engineering and Regenerative Medicine, 2017, 11, 481-488.	1.3	3
5	Diffusion and Uptake of Tobacco Mosaic Virus as Therapeutic Carrier in Tumor Tissue: Effect of Nanoparticle Aspect Ratio. Journal of Physical Chemistry B, 2016, 120, 6120-6129.	1.2	31
6	Computational Modeling and Analysis of Iron Release from Macrophages. PLoS Computational Biology, 2014, 10, e1003701.	1.5	15
7	Mechanistic, Mathematical Model to Predict the Dynamics of Tissue Genesis in Bone Defects via Mechanical Feedback and Mediation of Biochemical Factors. PLoS Computational Biology, 2014, 10, e1003604.	1.5	23
8	Relating tissue/organ energy expenditure to metabolic fluxes in mouse and human: experimental data integrated with mathematical modeling. Physiological Reports, 2014, 2, e12159.	0.7	47
9	Modeling and experimental methods to predict oxygen distribution in bone defects following cell transplantation. Medical and Biological Engineering and Computing, 2014, 52, 321-330.	1.6	4
10	Distinguishing the effects of convective and diffusive O₂ delivery on Vİ‡<scp>o</scp>₂ on-kinetics in skeletal muscle contracting at moderate intensity. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2013, 305, R512-R521.	0.9	8
11	Model analysis of the relationship between intracellular Po2 and energy demand in skeletal muscle. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2012, 303, R1110-R1126.	0.9	7
12	Coding Region Polyadenylation Generates a Truncated tRNA Synthetase that Counters Translation Repression. Cell, 2012, 149, 88-100.	13.5	87
13	Computational Model of Cellular Metabolic Dynamics in Skeletal Muscle Fibers During Moderate Intensity Exercise. Cellular and Molecular Bioengineering, 2012, 5, 92-112.	1.0	18
14	Regulation of Cytosolic and Mitochondrial Oxidation via Malate-Aspartate Shuttle: An Observation Using Dynamic 13C NMR Spectroscopy. Advances in Experimental Medicine and Biology, 2011, 701, 185-192.	0.8	4
15	Experimental Studies and Modeling of Drug Release from a Tunable Affinity-Based Drug Delivery Platform. Annals of Biomedical Engineering, 2011, 39, 2466-2475.	1.3	48
16	Regulation of Adipose Tissue Metabolism in Humans: Analysis of Responses to the Hyperinsulinemic-Euglycemic Clamp Experiment. Cellular and Molecular Bioengineering, 2011, 4, 281-301.	1.0	2
17	Hemoglobin and Myoglobin Contributions to Skeletal Muscle Oxygenation in Response to Exercise. Advances in Experimental Medicine and Biology, 2011, 701, 347-352.	0.8	25
18	Computational model of cellular metabolic dynamics: effect of insulin on glucose disposal in human skeletal muscle. American Journal of Physiology - Endocrinology and Metabolism, 2010, 298, E1198-E1209.	1.8	15

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19	Modeling of Laser Coagulation of Tissue With MRI Temperature Monitoring. Journal of Biomechanical Engineering, 2010, 132, 064503.	0.6	7
20	Quantitative analysis of oxygen transport and cellular metabolism in working skeletal muscle. FASEB Journal, 2010, 24, 1065.7.	0.2	0
21	Analysis Of Oxygen Diffusion Limitation In Contracting Skeletal Muscle During Higher ATP Demand. Medicine and Science in Sports and Exercise, 2010, 42, 23-24.	0.2	6
22	Mathematical Modeling of Thermal Ablation in Tissue Surrounding a Large Vessel. Journal of Biomechanical Engineering, 2009, 131, 011001.	0.6	26
23	Modeling oxygenation in venous blood and skeletal muscle in response to exercise using near-infrared spectroscopy. Journal of Applied Physiology, 2009, 106, 1858-1874.	1.2	50
24	Role of NADH/NAD⁺transport activity and glycogen store on skeletal muscle energy metabolism during exercise: in silico studies. American Journal of Physiology - Cell Physiology, 2009, 296, C25-C46.	2.1	37
25	Multiscale modeling of respiration. IEEE Engineering in Medicine and Biology Magazine, 2009, 28, 34-40.	1.1	5
26	Dynamic Systems Model for Lymphocyte Interactions with Macrophages at Biomaterial Surfaces. Cellular and Molecular Bioengineering, 2009, 2, 573-590.	1.0	5
27	Non-Invasive Estimation Of Metabolic Flux And Blood Flow In Working Muscle: Effect Of Blood-Tissue Distribution. Advances in Experimental Medicine and Biology, 2009, 645, 155-160.	0.8	7
28	A computational model of adipose tissue metabolism: Evidence for intracellular compartmentation and differential activation of lipases. Journal of Theoretical Biology, 2008, 251, 523-540.	0.8	23
29	Model simulation and experimental validation of intratumoral chemotherapy using multiple polymer implants. Medical and Biological Engineering and Computing, 2008, 46, 1039-1049.	1.6	22
30	Role of the malateâ€“aspartate shuttle on the metabolic response to myocardial ischemia. Journal of Theoretical Biology, 2008, 254, 466-475.	0.8	52
31	The Role of Ca²⁺ in Coupling Cardiac Metabolism with Regulation of Contraction. Annals of the New York Academy of Sciences, 2008, 1123, 69-78.	1.8	10
32	Multiâ€Scale Model of O₂ Transport and Metabolism. Annals of the New York Academy of Sciences, 2008, 1123, 178-186.	1.8	11
33	Modeling Cellular Metabolism and Energetics in Skeletal Muscle: Large-Scale Parameter Estimation and Sensitivity Analysis. IEEE Transactions on Biomedical Engineering, 2008, 55, 1298-1318.	2.5	30
34	Dynamics of MRI-Guided Thermal Ablation of VX2 Tumor in Paraspinal Muscle of Rabbits. IEEE Transactions on Biomedical Engineering, 2008, 55, 1004-1014.	2.5	7
35	Drug-eluting polymer implants in cancer therapy. Expert Opinion on Drug Delivery, 2008, 5, 775-788.	2.4	52
36	Permeability change of arterial endothelium is an age-dependent function of lesion size in apolipoprotein E-null mice. American Journal of Physiology - Heart and Circulatory Physiology, 2008, 295, H2273-H2279.	1.5	9

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37	Metabolic Dynamics in Skeletal Muscle during Acute Reduction in Blood Flow and Oxygen Supply to Mitochondria: In-Silico Studies Using a Multi-Scale, Top-Down Integrated Model. PLoS ONE, 2008, 3, e3168.	1.1	23
38	Muscle Oxygen Uptake Differs from Consumption Dynamics During Transients in Exercise. , 2008, 614, 325-332.		2
39	Cerebral Blood Flow Adaptation to Chronic Hypoxia. Advances in Experimental Medicine and Biology, 2008, 614, 371-377.	0.8	9
40	Validity of model approximations for receptor-ligand kinetics in nuclear medicine. Medical Physics, 2007, 34, 1693-1703.	1.6	1
41	Model of oxygen transport and metabolism predicts effect of hyperoxia on canine muscle oxygen uptake dynamics. Journal of Applied Physiology, 2007, 103, 1366-1378.	1.2	20
42	Multi-organ system model of O2 and CO2 transport during isocapnic and poikilocapnic hypoxia. Respiratory Physiology and Neurobiology, 2007, 156, 320-330.	0.7	14
43	Magnetic resonance imaging and model prediction for thermal ablation of tissue. Journal of Magnetic Resonance Imaging, 2007, 26, 123-132.	1.9	10
44	A mechanistic model of controlled drug release from polymer millirods: Effects of excipients and complex binding. Journal of Controlled Release, 2007, 119, 111-120.	4.8	39
45	Modeling doxorubicin transport to improve intratumoral drug delivery to RF ablated tumors. Journal of Controlled Release, 2007, 124, 11-19.	4.8	51
46	Linking Pulmonary Oxygen Uptake, Muscle Oxygen Utilization and Cellular Metabolism during Exercise. Annals of Biomedical Engineering, 2007, 35, 956-969.	1.3	21
47	MRI-guided Thermal Ablation Therapy: Model and Parameter Estimates to Predict Cell Death from MR Thermometry Images. Annals of Biomedical Engineering, 2007, 35, 1391-1403.	1.3	41
48	ABME Special Issue: Systems Biology, Bioinformatics, and Computational Biology. Annals of Biomedical Engineering, 2007, 35, 861-862.	1.3	1
49	Effects of Synchronized Cardiac Assist Device on Cardiac Energetics. Annals of the New York Academy of Sciences, 2006, 1080, 466-478.	1.8	5
50	Multi-Scale Computational Model of Fuel Homeostasis During Exercise: Effect of Hormonal Control. Annals of Biomedical Engineering, 2006, 35, 69-90.	1.3	66
51	Relating pulmonary oxygen uptake to muscle oxygen consumption at exercise onset: in vivo and in silico studies. European Journal of Applied Physiology, 2006, 97, 380-394.	1.2	24
52	Computational Model of Glucose Homeostasis During Exercise. , 2006, 2006, 311-4.		2
53	Robust experiment design for estimating myocardial Î² adrenergic receptor concentration using PET. Medical Physics, 2006, 34, 151-165.	1.6	9
54	Regulation of Cardiac Energetics: Role of Redox State and Cellular Compartmentation during Ischemia. Annals of the New York Academy of Sciences, 2005, 1047, 259-270.	1.8	10

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55	Regulation of lactate production at the onset of ischaemia is independent of mitochondrial NADH/NAD+: insights fromin silicostudies. Journal of Physiology, 2005, 569, 925-937.	1.3	44
56	Macromolecular Transport in the Arterial Wall: Alternative Models for Estimating Barriers. Annals of Biomedical Engineering, 2005, 33, 1491-1503.	1.3	4
57	Alterations in Internal Elastic Lamina Permeability As a Function of Age and Anatomical Site Precede Lesion Development in Apolipoprotein Eâ€“Null Mice. Circulation Research, 2005, 97, 450-456.	2.0	21
58	Mechanistic model of cardiac energy metabolism predicts localization of glycolysis to cytosolic subdomain during ischemia. American Journal of Physiology - Heart and Circulatory Physiology, 2005, 288, H2400-H2411.	1.5	62
59	Lipid Microtubules as Sustained Delivery Vehicles for Proteins and Nucleic Acids. ACS Symposium Series, 2004, , 85-97.	0.5	0
60	Comparison of Doxorubicin Concentration Profiles in Radiofrequency-Ablated Rat Livers from Sustained- and Dual-Release PLGA Millirods. Pharmaceutical Research, 2004, 21, 394-399.	1.7	18
61	Model Analysis of Tissue Responses to Transient and Chronic Heating. Annals of Biomedical Engineering, 2003, 31, 1007-1014.	1.3	24
62	Quantification of in vivo doxorubicin transport from PLGA millirods in thermoablated rat livers. Journal of Controlled Release, 2003, 91, 157-166.	4.8	47
63	Distributed versus compartment models for PET receptor studies. IEEE Transactions on Medical Imaging, 2003, 22, 11-21.	5.4	19
64	Concentration of solutes in the renal inner medulla: interstitial hyaluronan as a mechano-osmotic transducer. American Journal of Physiology - Renal Physiology, 2003, 284, F433-F446.	1.3	107
65	Cellular cardiac metabolism: Mechanistic modeling approach. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2003, 36, 527-529.	0.4	0
66	Combined modeling and experimental approach for the development of dual-release polymer millirods. Journal of Controlled Release, 2002, 83, 427-435.	4.8	25
67	Mechanistic Model of Myocardial Energy Metabolism Under Normal and Ischemic Conditions. Annals of Biomedical Engineering, 2002, 30, 202-216.	1.3	37
68	Thermal Model for Fast Simulation During Magnetic Resonance Imaging Guidance of Radio Frequency Tumor Ablation. Annals of Biomedical Engineering, 2002, 30, 1152-1161.	1.3	38
69	Comparison of algorithms for combining X-ray angiography images. IEEE Transactions on Medical Imaging, 2001, 20, 742-750.	5.4	8
70	Model Transformations to Evaluate Transient Thermal Responses at a Tissue Surface. Journal of Biomechanical Engineering, 2001, 123, 370-372.	0.6	0
71	Temperature and perfusion responses of muscle and lung tissue during chronic heatingin vivo. Medical and Biological Engineering and Computing, 2001, 39, 126-133.	1.6	14
72	Iterative optimal design of PET experiments for estimating Î²-adrenergic receptor concentration. Medical and Biological Engineering and Computing, 2000, 38, 593-602.	1.6	12

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73	Lactate metabolism during exercise: analysis by an integrative systems model. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 1999, 277, R1522-R1536.	0.9	26
74	Single Cell Model for Simultaneous Drug Delivery and Efflux. Annals of Biomedical Engineering, 1999, 27, 208-218.	1.3	2
75	A model analysis of lactate accumulation during muscle ischemia. Journal of Critical Care, 1999, 14, 151-163.	1.0	8
76	Role of O2in Regulation of Lactate Dynamics during Hypoxia: Mathematical Model and Analysis. Annals of Biomedical Engineering, 1998, 26, 1-27.	1.3	42
77	Modeling metabolic dynamics. From cellular processes to organ and whole body responses. Progress in Biophysics and Molecular Biology, 1998, 69, 539-557.	1.4	9
78	A mechanistic model of plasma filtration. Medical Engineering and Physics, 1998, 20, 383-392.	0.8	4
79	System for Dynamic Measurements of Membrane Capacitance in Intact Epithelial Monolayers. Biophysical Journal, 1998, 75, 2743-2756.	0.2	26
80	Exogenous Oxidized Low-Density Lipoprotein Injures and Alters the Barrier Function of Endothelium in Rats In Vivo. Circulation Research, 1997, 80, 37-44.	2.0	68
81	Effects of Willful Ventilatory Control on Respiratory Sensation during Hypercapnia. Respiration, 1996, 63, 137-143.	1.2	5
82	Dynamic model of oxygen transport for transcutaneous PO2 analysis. Annals of Biomedical Engineering, 1996, 24, 294-304.	1.3	4
83	Optimal experiment design for PET quantification of receptor concentration. IEEE Transactions on Medical Imaging, 1996, 15, 2-12.	5.4	24
84	Estimation of Cerebral Blood Flow From Thermal Measurement. Journal of Biomechanical Engineering, 1995, 117, 74-85.	0.6	6
85	Model of respiratory sensation and wilful control of ventilation. Medical and Biological Engineering and Computing, 1995, 33, 252-256.	1.6	7
86	CO2 control of breathing: parameter estimation and stability evaluation. Medical Engineering and Physics, 1994, 16, 135-142.	0.8	3
87	Thermal method for continuous measurement of cerebral perfusion. Medical and Biological Engineering and Computing, 1994, 32, 481-488.	1.6	5
88	Validation of Continuous Thermal Measurement of Cerebral Blood Flow by Arterial Pressure Change. Journal of Cerebral Blood Flow and Metabolism, 1993, 13, 693-701.	2.4	4
89	Perceptual contributions to optimization of breathing. Annals of Biomedical Engineering, 1993, 21, 509-515.	1.3	11
90	Estimation of electronic parameters of neurons using an inverse Fourier transform technique. IEEE Transactions on Biomedical Engineering, 1992, 39, 493-501.	2.5	12

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91	Noninvasive estimation of cardiac output with nonprescribed breathing. Annals of Biomedical Engineering, 1991, 19, 723-742.	1.3	3
92	Sensation and control of breathing: A dynamic model. Annals of Biomedical Engineering, 1991, 19, 251-272.	1.3	12
93	Optimal design of a thermistor probe for surface measurement of cerebral blood flow. IEEE Transactions on Biomedical Engineering, 1990, 37, 1159-1172.	2.5	17
94	Multimolecular process in a packed-bed immobilized enzyme reactor: numerical simulation and back-mixing effects. Biotechnology Progress, 1990, 6, 98-103.	1.3	3
95	Mathematical model of chest wall mechanics: A phenomenological approach. Annals of Biomedical Engineering, 1990, 18, 37-56.	1.3	14
96	Pressures generated by ribcage and abdominal compressions during cardiopulmonary resuscitation. Medical and Biological Engineering and Computing, 1990, 28, 43-49.	1.6	3
97	Nonlinear parameter estimation applied to a model of smooth pursuit eye movements. Biological Cybernetics, 1990, 62, 265-273.	0.6	21
98	Control and evaluation of high-frequency jet ventilation: mechanical lung model. Journal of Biomedical Engineering, 1990, 12, 496-502.	0.7	1
99	Temperature and Albumin Effects on Adsorption of Bilirubin from Standard Solution using Anionâ€Exchange Resin. Artificial Organs, 1990, 14, 14-19.	1.0	22
100	Simulation of the diffusion of acetylcholine in the neuroeffector junctions of the sinus node. Journal of Theoretical Biology, 1989, 141, 505-514.	0.8	3
101	Chest wall mechanics: Effects of acute and chronic lung disease. Journal of Biomechanics, 1989, 22, 559-564.	0.9	5
102	CO2 control of the respiratory system: Plant dynamics and stability analysis. Annals of Biomedical Engineering, 1988, 16, 445-461.	1.3	21
103	Effects of airway occlusion during cardiopulmonary resuscitation. Journal of Critical Care, 1988, 3, 240-248.	1.0	2
104	Transport of macromolecules in arterial wallin vivo: A mathematical model and analytical solutions. Bulletin of Mathematical Biology, 1987, 49, 153-169.	0.9	16
105	Transport abnormalities from single-breath dynamics of Ar, CO2 and O2. Respiration Physiology, 1986, 64, 253-266.	2.8	7
106	Estimation of Mechanical Parameters in Multicompartment Models Applied to Normal and Obstructed Lungs During Tidal Breathing. IEEE Transactions on Biomedical Engineering, 1986, BME-33, 878-887.	2.5	5
107	Helium-Oxygen Breathing in Severe Chronic Obstructive Pulmonary Disease. Chest, 1985, 87, 790-795.	0.4	85
108	Ventilatory Inhomogeneity Associated with Acute Bronchoconstriction in Asthmatic Patients. Respiration, 1985, 47, 201-208.	1.2	3

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109	Static mechanics of excised whole lung: Theoretical framework and experimental studies. Annals of Biomedical Engineering, 1984, 12, 421-435.	1.3	4
110	Static mechanics of excised whole lung: Pleural mechanics. Annals of Biomedical Engineering, 1984, 12, 437-448.	1.3	7
111	Moment analysis of multibreath nitrogen washout with a variable input gas composition. Medical and Biological Engineering and Computing, 1984, 22, 486-492.	1.6	2
112	A model of intestinal iron absorption and plasma iron kinetics: Optimal parameter estimates for normal dogs. Journal of Biomedical Informatics, 1984, 17, 55-70.	0.7	12
113	Inspiratory flow effects on mechanically ventilated patients: lung volume, inhomogeneity, and arterial oxygenation. Intensive Care Medicine, 1984, 10, 281-286.	3.9	5
114	Analysis of iron kinetics: Identifiability, experiment design, and deterministic interpretations of a stochastic model. Mathematical Biosciences, 1984, 68, 1-21.	0.9	11
115	Ventilation inhomogeneity: Alveolar mechanics and gas distribution. Journal of Biomechanics, 1983, 16, 993-1002.	0.9	1
116	Alveolar-capillary diffusion and ventilation-perfusion inhomogeneity: a mathematical model. Medical and Biological Engineering and Computing, 1982, 20, 269-273.	1.6	2
117	A Nonlinear Model Combining Pulmonary Mechanics and Gas Concentration Dynamics. IEEE Transactions on Biomedical Engineering, 1982, BME-29, 629-641.	2.5	16
118	Sensitivity analysis and experimental design techniques: Application to nonlinear, dynamic lung models. Journal of Biomedical Informatics, 1982, 15, 434-454.	0.7	17
119	Multibreath tracer species dynamics in the lung. Bulletin of Mathematical Biology, 1981, 43, 1-19.	0.9	3
120	Mathematical model of mass transport throughout the kidney: Effects of nephron heterogeneity and tubular-vascular organization. Annals of Biomedical Engineering, 1981, 9, 263-301.	1.3	43
121	Engineers and the respiratory system: A perspective. Annals of Biomedical Engineering, 1981, 9, 393-394.	1.3	0
122	Species transport dynamics for clinical pulmonary evaluation. Annals of Biomedical Engineering, 1981, 9, 529-541.	1.3	1
123	Lung washout during spontaneous breathing: Parameter estimation with a time-varying model. Journal of Biomedical Informatics, 1980, 13, 446-457.	0.7	9
124	Modeling and parameter estimation of yeast size distribution dynamics. Studies in Educational Evaluation, 1979, 7, 45-57.	1.2	3
125	Spatially discrete models of counter-current mass transport for application to the kidney. Mathematics and Computers in Simulation, 1978, 20, 259-270.	2.4	4
126	Modeling and moments of multibreath lung washout. Annals of Biomedical Engineering, 1978, 6, 126-137.	1.3	14

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127	Local kinetics of oxygen metabolism in brain and liver tissues. Microvascular Research, 1978, 16, 391-405.	1.1	33
128	Micrometastases formation: A probabilistic model. Cancer Letters, 1977, 3, 203-208.	3.2	17
129	Comparison of measures of forced expiration. Journal of Applied Physiology, 1977, 42, 607-613.	1.2	6
130	Diffusion model of tumor vascularization and growth. The Bulletin of Mathematical Biophysics, 1977, 39, 117-128.	0.5	57
131	Quantitative analysis of renal medullary anatomy in rats and rabbits. Kidney International, 1977, 12, 313-323.	2.6	192
132	Reduction of tumour cell entry into vessels by BCG-activated macrophages. British Journal of Cancer, 1977, 36, 639-641.	2.9	52
133	Breathing pattern effects on pulmonary oxygen uptake. Medical & Biological Engineering, 1976, 14, 402-407.	0.4	2
134	Mathematical model of renal regulation of urea excretion. Medical & Biological Engineering, 1976, 14, 408-426.	0.4	16
135	System dynamics of a metastatic process from an implanted tumor. Journal of Theoretical Biology, 1976, 56, 417-434.	0.8	40
136	Stochastic Model of Metastases Formation. Biometrics, 1976, 32, 535.	0.8	49
137	Effects of dietary protein restriction and glucocorticoid administration on urea excretion in rats. Kidney International, 1975, 8, 303-315.	2.6	43
138	Moment analysis of multibreath lung washout. Journal of Applied Physiology, 1975, 38, 328-334.	1.2	72
139	Countercurrent exchange in the inner renal medulla: Vasa recta-descending limb system. The Bulletin of Mathematical Biophysics, 1973, 35, 431-447.	0.5	12
140	Mass-Balance Model of Pulmonary Oxygen Transport. IEEE Transactions on Biomedical Engineering, 1972, BME-19, 205-213.	2.5	3
141	Pulmonary gas transport characterization by a dynamic model. Respiration Physiology, 1971, 12, 305-328.	2.8	12
142	Transport processes in the renal cortex. Journal of Theoretical Biology, 1970, 29, 251-274.	0.8	9
143	Molecular Weight Distribution for Polymerization in Two-Phase Systems. Advances in Chemistry Series, 1969, , 145-157.	0.6	18
144	Emulsion polymerization: A stochastic approach to the polymer size distribution. Journal of Polymer Science Part C Polymer Symposia, 1969, 27, 149-169.	0.1	14

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145	Bacterial cell populations in a continuously changing environment. Journal of Theoretical Biology, 1968, 19, 287-296.	0.8	7
146	Moments of the size distribution in radical polymerization. AICHE Journal, 1967, 13, 319-326.	1.8	49
147	Chemical reaction in the turbulent wake of a cylinder. AICHE Journal, 1965, 11, 1058-1063.	1.8	2