Gary An

List of Publications by Year
in descending order

162 papers	4,955 citations	116194 36 h-index	129628 63 g-index
184 all docs	184 docs citations	184 times ranked	5089 citing authors

#	Article	IF	Citations
1	Optical Biopsy Using a Neural Network to Predict Gene Expression From Photos of Wounds. Journal of Surgical Research, 2022, 270, 547-554.	0.8	5
2	Defining Risk and Risk Factors for Unplanned ICU Admission of Trauma Patients. Journal of Surgical Research, 2022, 271, 7-13.	0.8	0
3	Specialty Grand Challenge: What it Will Take to Cross the Valley of Death: Translational Systems Biology, â€œTrueâ€•Precision Medicine, Medical Digital Twins, Artificial Intelligence and In Silico Clinical Trials. Frontiers in Systems Biology, 2022, 2, .	0.5	5
4	Building digital twins of the human immune system: toward a roadmap. Npj Digital Medicine, 2022, 5, .	5.7	43
5	Frequency and Predictors of Trauma Transfer Futility to a Rural Level I Trauma Center. Journal of Surgical Research, 2022, 279, 1-7.	0.8	3
6	Geographic Coverage and Verification of Trauma Centers in a Rural State: Highlighting the Utility of Location Allocation for Trauma System Planning. Journal of the American College of Surgeons, 2021, 232, 1-7.	0.2	5
7	Nested active learning for efficient model contextualization and parameterization: pathway to generating simulated populations using multi-scale computational models. Simulation, 2021, 97, 287-296.	1.1	11
8	Agent-Based Modeling of Systemic Inflammation: A Pathway Toward Controlling Sepsis. Methods in Molecular Biology, 2021, 2321, 231-257.	0.4	2
9	Machine learning and mechanistic computational modeling of inflammation as tools for designing immunomodulatory biomaterials. , 2021, , 251-272.		2
10	Precision Systems Medicine: A Control Discovery Problem. , 2021, , 318-330.		6
11	Delay in ICU transfer is protective against ICU readmission in trauma patients: a naturally controlled experiment. Trauma Surgery and Acute Care Open, 2021, 6, e000695.	0.8	3
12	Utilizing the Heterogeneity of Clinical Data for Model Refinement and Rule Discovery Through the Application of Genetic Algorithms to Calibrate a High-Dimensional Agent-Based Model of Systemic Inflammation. Frontiers in Physiology, 2021, 12, 662845.	1.3	17
13	UV decontamination of personal protective equipment with idle laboratory biosafety cabinets during the COVID-19 pandemic. PLoS ONE, 2021, 16, e0241734.	1.1	43
14	Comparative Computational Modeling of the Bat and Human Immune Response to Viral Infection with the Comparative Biology Immune Agent Based Model. Viruses, 2021, 13, 1620.	1.5	9
15	Artificial Intelligence, Machine Learning, and Surgical Science: Reality Versus Hype. Journal of Surgical Research, 2021, 264, A1-A9.	0.8	7
16	Machine Learning and Artificial Intelligence for Surgical Decision Making. Surgical Infections, 2021, 22, 626-634.	0.7	9
17	The Use of Artificial Neural Networks to Forecast the Behavior of Agent-Based Models of Pathophysiology: An Example Utilizing an Agent-Based Model of Sepsis. Frontiers in Physiology, 2021, 12, 716434.	1.3	8
18	Helicopter vs Ground Trauma Transport: A National Propensity Score Matched Comparison. Journal of the American College of Surgeons, 2021, 233, S294.	0.2	0

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19	An Overview of the Translational Dilemma and the Need for Model-Based Precision Medicine. , 2021, , 3-10.		0
20	Multiscale and Tissue Realistic Translational Modeling of Gut Inflammation. , 2021, , 245-261.		0
21	The Rationale and Implementation of Model-Based Precision Medicine for Inflammatory Diseases. , 2021, , 295-299.		0
22	A System Dynamics Model of Violent Trauma and the Role of Violence Intervention Programs. Journal of Surgical Research, 2020, 247, 258-263.	0.8	5
23	Kinetics and isotype assessment of antibodies targeting the spike protein receptorâ€binding domain of severe acute respiratory syndromeâ€coronavirusâ€2 in COVIDâ€19 patients as a function of age, biological sex and disease severity. Clinical and Translational Immunology, 2020, 9, e1189.	1.7	38
24	Geographic Coverage and Designation of Trauma Centers in a Rural State: Highlighting the Utility of Location-Allocation for Trauma System Planning. Journal of the American College of Surgeons, 2020, 231, S318.	0.2	2
25	Agentâ€based models of inflammation in translational systems biology: A decade later. Wiley Interdisciplinary Reviews: Systems Biology and Medicine, 2019, 11, e1460.	6.6	19
26	Deep Reinforcement Learning and Simulation as a Path Toward Precision Medicine. Journal of Computational Biology, 2019, 26, 597-604.	0.8	44
27	Learning-accelerated discovery of immune-tumour interactions. Molecular Systems Design and Engineering, 2019, 4, 747-760.	1.7	41
28	Application of an external fixator vascular compressor (EFVC) in the critically injured trauma patient: a novel damage control technique. European Journal of Orthopaedic Surgery and Traumatology, 2019, 29, 1337-1345.	0.6	0
29	High-throughput cancer hypothesis testing with an integrated PhysiCell-EMEWS workflow. BMC Bioinformatics, 2018, 19, 483.	1.2	54
30	1515: SUPERCOMPUTING SIMULATION OF ONE BILLION IN SILICO PATIENTS TO CHARACTERIZE THE LANDSCAPE OF MODS. Critical Care Medicine, 2018, 46, 741-741.	0.4	0
31	The Crisis of Reproducibility, the Denominator Problem and the Scientific Role of Multi-scale Modeling. Bulletin of Mathematical Biology, 2018, 80, 3071-3080.	0.9	28
32	Extreme-Scale Dynamic Exploration of a Distributed Agent-Based Model With the EMEWS Framework. IEEE Transactions on Computational Social Systems, 2018, 5, 884-895.	3.2	24
33	Inflammation and disease: Modelling and modulation of the inflammatory response to alleviate critical illness. Current Opinion in Systems Biology, 2018, 12, 22-29.	1.3	18
34	Examining the controllability of sepsis using genetic algorithms on an agent-based model of systemic inflammation. PLoS Computational Biology, 2018, 14, e1005876.	1.5	50
35	Toxic Epidermal Necrolysis with Gastrointestinal Involvement. Journal of Burn Care and Research, 2017, 38, e450-e455.	0.2	8
36	Sepsis reconsidered: Identifying novel metrics for behavioral landscape characterization with a high-performance computing implementation of an agent-based model. Journal of Theoretical Biology, 2017, 430, 157-168.	0.8	39

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37	Optimization and Control of Agent-Based Models in Biology: A Perspective. Bulletin of Mathematical Biology, 2017, 79, 63-87.	0.9	58
38	Multi-scale Modeling in Clinical Oncology: Opportunities and Barriers to Success. Annals of Biomedical Engineering, 2016, 44, 2626-2641.	1.3	66
39	Gene expression in local stroma reflects breast tumor states and predicts patient outcome. Scientific Reports, 2016, 6, 39240.	1.6	11
40	Augmenting Surgery via Multi-scale Modeling and Translational Systems Biology in the Era of Precision Medicine: A Multidisciplinary Perspective. Annals of Biomedical Engineering, 2016, 44, 2611-2625.	1.3	16
41	Sa1357 Supercomputing Ulcerative Colitis-Associated Cancer Simulations to Bridge Mechanism With Epidemiology. Gastroenterology, 2016, 150, S295.	0.6	1
42	Insights into the pathogenesis of ulcerative colitis from a murine model of stasis-induced dysbiosis, colonic metaplasia, and genetic susceptibility. American Journal of Physiology - Renal Physiology, 2016, 310, G973-G988.	1.6	22
43	Multiscale Modeling in the Clinic: Drug Design and Development. Annals of Biomedical Engineering, 2016, 44, 2591-2610.	1.3	50
44	Examining the Relationship between Pre-Malignant Breast Lesions, Carcinogenesis and Tumor Evolution in the Mammary Epithelium Using an Agent-Based Model. PLoS ONE, 2016, 11, e0152298.	1.1	4
45	Abstract B15: Metastatic breast tumors regulate gene expression at distal mammary sites that predicts patient outcome. , 2016, , .		0
46	Integrating physiology across scales and formalizing hypothesis exploration with agent-based modeling. Journal of Applied Physiology, 2015, 118, 1191-1192.	1.2	3
47	1081. Critical Care Medicine, 2015, 43, 272.	0.4	0
48	A Brief History of the Philosophical Basis of the Scientific Endeavor. , 2015, , 11-19.		0
49	Data-Driven and Statistical Models. , 2015, , 89-98.		0
50	Computational Studies of the Intestinal Host-Microbiota Interactome. Computation, 2015, 3, 2-28.	1.0	5
51	Introduction of a Framework for Dynamic Knowledge Representation of the Control Structure of Transplant Immunology: Employing the Power of Abstraction with a Solid Organ Transplant Agent-Based Model. Frontiers in Immunology, 2015, 6, 561.	2.2	7
52	What Is Old Is New Again. , 2015, , 149-157.		0
53	Randomized Clinical Trials. , 2015, , 35-40.		0
54	A Brief History of Biomedical Research up to the Molecular Biology Revolution. , 2015, , 21-25.		0

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55	Agent-Based Modeling and Translational Systems Biology. , 2015, , 111-135.		1
56	From Data to Knowledge in Translational Systems Biology. , 2015, , 81-88.		0
57	Human Nature, Politics, and Translational Inertia. , 2015, , 45-53.		0
58	A Roadmap for a Rational Future. , 2015, , 69-78.		1
59	Collagen degradation and MMP9 activation by Enterococcus faecalis contribute to intestinal anastomotic leak. Science Translational Medicine, 2015, 7, 286ra68.	5.8	287
60	Dynamic Knowledge Representation and the Power of Model Making. , 2015, , 63-68.		0
61	Towards Translational Systems Biology of Inflammation. , 2015, , 57-61.		0
62	An agent-based modeling framework linking inflammation and cancer using evolutionary principles: Description of a generative hierarchy for the hallmarks of cancer and developing a bridge between mechanism and epidemiological data. Mathematical Biosciences, 2015, 260, 16-24.	0.9	20
63	A Computational, Tissue-Realistic Model of Pressure Ulcer Formation in Individuals with Spinal Cord Injury. PLoS Computational Biology, 2015, 11, e1004309.	1.5	30
64	Towards Anatomic Scale Agent-Based Modeling with a Massively Parallel Spatially Explicit General-Purpose Model of Enteric Tissue (SEGMEnT_HPC). PLoS ONE, 2015, 10, e0122192.	1.1	20
65	Getting Science to Scale. , 2015, , 137-145.		0
66	Interesting Times. , 2015, , 3-8.		1
67	Biomedical Research Since the Molecular Revolution. , 2015, , 27-33.		0
68	Complexity in Biomedical Research. , 2015, , 41-44.		0
69	Mechanistic Modeling of Critical Illness Using Equations. , 2015, , 99-110.		0
70	Abstract P4-08-03: Demonstration of the evolutionary dynamics of the progression from breast hyperplasia to cancer using the duct epithelial agent based model (DEABM). , 2015, , .		0
71	Investigation of Inflammation and Tissue Patterning in the Gut Using a Spatially Explicit General-Purpose Model of Enteric Tissue (SEGMEnT). PLoS Computational Biology, 2014, 10, e1003507.	1.5	19
72	How Implementation of Systems Biology into Clinical Trials Accelerates Understanding of Diseases. Frontiers in Neurology, 2014, 5, 102.	1.1	35

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73	Removal of Inflammatory Ascites Is Associated With Dynamic Modification of Local and Systemic Inflammation Along With Prevention of Acute Lung Injury. Shock, 2014, 41, 317-323.	1.0	50
74	From data patterns to mechanistic models in acute critical illness. Journal of Critical Care, 2014, 29, 604-610.	1.0	32
75	Agent-based model of fecal microbial transplant effect on bile acid metabolism on suppressing Clostridium difficile infection: an example of agent-based modeling of intestinal bacterial infection. Journal of Pharmacokinetics and Pharmacodynamics, 2014, 41, 493-507.	0.8	7
76	Investigation of the essential role of platelet-tumor cell interactions in metastasis progression using an agent-based model. Theoretical Biology and Medical Modelling, 2014, 11, 17.	2.1	30
77	A multiscale modeling approach to inflammation: A case study in human endotoxemia. Journal of Computational Physics, 2013, 244, 279-289.	1.9	9
78	Agent-based model of epithelial hostâ€“pathogen interactions in anastomotic leak. Journal of Surgical Research, 2013, 184, 730-738.	0.8	17
79	Bayesian inference of the lung alveolar spatial model for the identification of alveolar mechanics associated with acute respiratory distress syndrome. Physical Biology, 2013, 10, 036008.	0.8	4
80	Using an Agent-Based Model to Examine the Role of Dynamic Bacterial Virulence Potential in the Pathogenesis of Surgical Site Infection. Advances in Wound Care, 2013, 2, 510-526.	2.6	23
81	Computational Modeling of Inflammation and Wound Healing. Advances in Wound Care, 2013, 2, 527-537.	2.6	32
82	The Hospital Microbiome Project: Meeting Report for the 1st Hospital Microbiome Project Workshop on sampling design and building science measurements, Chicago, USA, June 7th-8th 2012. Standards in Genomic Sciences, 2013, 8, 112-117.	1.5	18
83	The Hospital Microbiome Project: Meeting report for the 2nd Hospital Microbiome Project, Chicago, USA, January 15th, 2013. Standards in Genomic Sciences, 2013, 8, 571-579.	1.5	11
84	A Systems Engineering Perspective on Homeostasis and Disease. Frontiers in Bioengineering and Biotechnology, 2013, 1, 6.	2.0	27
85	An Overview of the Translational Dilemma and the Need for Translational Systems Biology of Inflammation. , 2013, , 1-7.		3
86	Agent-Based Modeling in Translational Systems Biology. , 2013, , 29-49.		6
87	Agent-Based Modeling Approaches to Multi-Scale Systems Biology: An Example Agent-Based Model of Acute Pulmonary Inflammation. , 2013, , 429-461.		1
88	Examining the Pathogenesis of Breast Cancer Using a Novel Agent-Based Model of Mammary Ductal Epithelium Dynamics. PLoS ONE, 2013, 8, e64091.	1.1	14
89	Agent-Based Models of Wound Healing. , 2013, , 209-228.		0
90	In Silico Trials and Personalized Therapy for Sepsis and Trauma. , 2013, , 159-170.		0

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91	The Rationale and Implementation of Translational Systems Biology as a New Paradigm for the Study of Inflammation. , 2013, , 283-287.		0
92	Immature Oxidative Stress Management as a Unifying Principle in the Pathogenesis of Necrotizing Enterocolitis: Insights from an Agent-Based Model. Surgical Infections, 2012, 13, 18-32.	0.7	44
93	Data-parallel techniques for simulating a mega-scale agent-based model of systemic inflammatory response syndrome on graphics processing units. Simulation, 2012, 88, 895-907.	1.1	11
94	Small to large, lots to some, many to few. Critical Care Medicine, 2012, 40, 1334-1335.	0.4	14
95	Toward Computational Identification of Multiscale â€œTipping Pointsâ€•in Acute Inflammation and Multiple Organ Failure. Annals of Biomedical Engineering, 2012, 40, 2414-2424.	1.3	49
96	A proposal for augmenting biological model construction with a semi-intelligent computational modeling assistant. Computational and Mathematical Organization Theory, 2012, 18, 380-403.	1.5	6
97	Integration of <scp>TGF</scp>â€‹Î²â€•and <scp>EGFR</scp>â€‹based signaling pathways using an agentâ€‹based model of epithelial restitution. Wound Repair and Regeneration, 2012, 20, 862-863.	1.5	25
98	Intestinal Tissues Induce an SNP Mutation in Pseudomonas aeruginosa That Enhances Its Virulence: Possible Role in Anastomotic Leak. PLoS ONE, 2012, 7, e44326.	1.1	151
99	Linking Inflammation, Cardiorespiratory Variability, and Neural Control in Acute Inflammation via Computational Modeling. Frontiers in Physiology, 2012, 3, 222.	1.3	39
100	Addressing the Translational Dilemma: Dynamic Knowledge Representation of Inflammation Using Agent-Based Modeling. Critical Reviews in Biomedical Engineering, 2012, 40, 323-340.	0.5	10
101	Sepsis: From Pattern to Mechanism and Back. Critical Reviews in Biomedical Engineering, 2012, 40, 341-351.	0.5	28
102	Sepsis: Something old, something new, and a systems view. Journal of Critical Care, 2012, 27, 314.e1-314.e11.	1.0	95
103	Computational and systems biology in trauma and sepsis: current state and future perspectives. International Journal of Burns and Trauma, 2012, 2, 1-10.	0.2	51
104	Agent-based dynamic knowledge representation of Pseudomonas aeruginosa virulence activation in the stressed gut: Towards characterizing host-pathogen interactions in gut-derived sepsis. Theoretical Biology and Medical Modelling, 2011, 8, 33.	2.1	34
105	Agentâ€‹based modeling and biomedical ontologies: a roadmap. Wiley Interdisciplinary Reviews: Computational Statistics, 2011, 3, 343-356.	2.1	29
106	In silico augmentation of the drug development pipeline: examples from the study of acute inflammation. Drug Development Research, 2011, 72, 187-200.	1.4	52
107	The molecular Koch's postulates and surgical infection: A view forward. Surgery, 2010, 147, 757-765.	1.0	33
108	Translational systems biology and voice pathophysiology. Laryngoscope, 2010, 120, 511-515.	1.1	18

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109	A comparative approach for the investigation of biological information processing: An examination of the structure and function of computer hard drives and DNA. Theoretical Biology and Medical Modelling, 2010, 7, 3.	2.1	14
110	A case report of thoracic compartment syndrome in the setting of penetrating chest trauma and review of the literature. World Journal of Emergency Surgery, 2010, 5, 22.	2.1	11
111	Translational systems biology using an agent-based approach for dynamic knowledge representation: An evolutionary paradigm for biomedical research. Wound Repair and Regeneration, 2010, 18, 8-12.	1.5	27
112	SPARK. International Journal of Agent Technologies and Systems, 2010, 2, 18-30.	0.1	23
113	SPARK. , 2010, , .		6
114	Translational systems biology of inflammation: potential applications to personalized medicine. Personalized Medicine, 2010, 7, 549-559.	0.8	61
115	Closing the Scientific Loop: Bridging Correlation and Causality in the Petaflop Age. Science Translational Medicine, 2010, 2, 41ps34.	5.8	63
116	In Silico Translation of Cellular and Molecular Mechanisms to Clinical Phenomena in Atheroma Development with an Agent Based Model. Journal of Surgical Research, 2010, 158, 382-383.	0.8	0
117	Translational Systems Approaches to the Biology of Inflammation and Healing. Immunopharmacology and Immunotoxicology, 2010, 32, 181-195.	1.1	78
118	Systems Biology and Inflammation. Methods in Molecular Biology, 2010, 662, 181-201.	0.4	23
119	Computational disease modeling â€“ fact or fiction?. BMC Systems Biology, 2009, 3, 56.	3.0	41
120	Agentâ€based models in translational systems biology. Wiley Interdisciplinary Reviews: Systems Biology and Medicine, 2009, 1, 159-171.	6.6	247
121	Toll-like receptor 2 ligands on the staphylococcal cell wall downregulate superantigen-induced T cell activation and prevent toxic shock syndrome. Nature Medicine, 2009, 15, 641-648.	15.2	121
122	QS399. An Agent Based Model of Pulmonary Inflammation in the Surgical Patient: In Silico Translation of Cellular and Molecular Mechanisms to Clinical Phenomena. Journal of Surgical Research, 2009, 151, 300.	0.8	1
123	Mechanistic simulations of inflammation: Current state and future prospects. Mathematical Biosciences, 2009, 217, 1-10.	0.9	124
124	Detailed qualitative dynamic knowledge representation using a BioNetGen model of TLR-4 signaling and preconditioning. Mathematical Biosciences, 2009, 217, 53-63.	0.9	51
125	A model of TLR4 signaling and tolerance using a qualitative, particleâ€“event-based method: Introduction of spatially configured stochastic reaction chambers (SCSRC). Mathematical Biosciences, 2009, 217, 43-52.	0.9	59
126	Dynamic Knowledge Representation Using Agent-Based Modeling: Ontology Instantiation and Verification of Conceptual Models. Methods in Molecular Biology, 2009, 500, 445-468.	0.4	33

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127	From Artificial Life to In Silico Medicine. , 2009, , 183-214.		9
128	Introduction of an agent-based multi-scale modular architecture for dynamic knowledge representation of acute inflammation. Theoretical Biology and Medical Modelling, 2008, 5, 11.	2.1	100
129	QS448. From Molecule to Man: Multi-Scale Translational Agent Based Modeling of Inflammation. Journal of Surgical Research, 2008, 144, 445-446.	0.8	0
130	Translational Systems Biology of Inflammation. PLoS Computational Biology, 2008, 4, e1000014.	1.5	214
131	Even Ephemeral Endotoxin Exposure Establishes Endotoxin Tolerance. Journal of Trauma, 2008, 64, 938-942.	2.3	4
132	Translational Systems Biology: Introduction of an Engineering Approach to the Pathophysiology of the Burn Patient. Journal of Burn Care and Research, 2008, 29, 277-285.	0.2	65
133	Abdominal compartment syndrome: A concise clinical review. Critical Care Medicine, 2008, 36, 1304-1310.	0.4	142
134	Blister Fluid Composition in a Pediatric Patient With Toxic Epidermal Necrolysis. Journal of Burn Care and Research, 2008, 29, 671-675.	0.2	13
135	Data-Parallel Techniques for Agent-Based Tissue Modeling on Graphics Processing Units. , 2008, , .		4
136	Chemical Scalp Burns After Hair Highlights. Journal of Burn Care and Research, 2007, 28, 361-363.	0.2	14
137	Hypercalcemia in Patients in the Burn Intensive Care Unit. Journal of Burn Care and Research, 2007, 28, 742-746.	0.2	12
138	Control of Presacral Hemorrhage After Penetrating Trauma: A New Technique. Journal of Trauma, 2007, 63, 197-201.	2.3	3
139	Agent-Based Modeling and Applications to Endothelial Biomedicine. , 2007, , 1754-1759.		0
140	The Basic Immune Simulator: An agent-based model to study the interactions between innate and adaptive immunity. Theoretical Biology and Medical Modelling, 2007, 4, 39.	2.1	136
141	Evidence-based modeling of critical illness: an initial consensus from the Society for Complexity in Acute Illness. Journal of Critical Care, 2007, 22, 77-84.	1.0	54
142	Challenges and rewards on the road to translational systems biology in acute illness: four case reports from interdisciplinary teams. Journal of Critical Care, 2007, 22, 169-175.	1.0	44
143	INTEGRATIVE MODELING OF INFLAMMATION AND ORGAN FUNCTION USING AGENT BASED MODELING. Shock, 2006, 26, 1.	1.0	2
144	Purpura Fulminans in an Adult Patient with Haemophilus Influenzae Sepsis: Case Report and Review of the Literature. Journal of Burn Care and Research, 2006, 27, 102-107.	0.2	9

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145	Phenomenological issues related to the measurement, mechanisms and manipulation of complex biological systems*. Critical Care Medicine, 2006, 34, 245-246.	0.4	23
146	Concepts for developing a collaborative in silico model of the acute inflammatory response using agent-based modeling. Journal of Critical Care, 2006, 21, 105-110.	1.0	58
147	A SYNTHETIC FRAMEWORK FOR INVESTIGATING MULTIPLE INTRACELLULAR SIGNALING PATHWAYS USING AGENT BASED MODELING. Shock, 2006, 25, 83.	1.0	1
148	Mathematical modeling in medicine: A means, not an end*. Critical Care Medicine, 2005, 33, 253.	0.4	18
149	COMPUTER SIMULATIONS OF MULTIPLE ORGAN FAILURE SECONDARY TO SHOCK AND SEPSIS WITH A MULTI-TISSUE, ENDOTHELIAL-LEVEL AGENT BASED MODEL.. Shock, 2004, 21, 66-67.	1.0	2
150	AGENT BASED MODEL OF CELL CULTURE EPITHELIAL BARRIER FUNCTION: USING COMPUTER SIMULATION IN CONJUNTION WITH A BASIC SCIENCE MODEL. Shock, 2004, 21, 13.	1.0	2
151	In silico experiments of existing and hypothetical cytokine-directed clinical trials using agent-based modeling*. Critical Care Medicine, 2004, 32, 2050-2060.	0.4	291
152	Closure of Abdominal Wall Defects Using Acellular Dermal Matrix. Journal of Trauma, 2004, 56, 1266-1275.	2.3	46
153	Mathematical models of the acute inflammatory response. Current Opinion in Critical Care, 2004, 10, 383-390.	1.6	111
154	IN-SILICO UNIFICATION OF DIFFERENT BASIC SCIENCE MODELS OF GUT EPITHELIAL BARRIER FUNCTION USING AGENT BASED MODELING. Critical Care Medicine, 2004, 32, A95.	0.4	2
155	Detection of Intra-abdominal Injury Using Diagnostic Peritoneal Lavage after Shotgun Wound to the Abdomen. Journal of Trauma, 2003, 54, 329-331.	2.3	9
156	Trans-mediastinal Gunshot Wounds: Are "Stable" Patients Really Stable?. World Journal of Surgery, 2002, 26, 1247-1250.	0.8	30
157	AGENT-BASED COMPUTER SIMULATION AND SIRS: BUILDING A BRIDGE BETWEEN BASIC SCIENCE AND CLINICAL TRIALS. Shock, 2001, 16, 266-273.	1.0	121
158	Computer Simulation to Study Inflammatory Response. Simulation and Gaming, 2001, 32, 344-361.	1.2	4
159	Experience with over 2500 diagnostic peritoneal lavages. Injury, 2000, 31, 479-482.	0.7	76
160	Evisceration after Abdominal Stab Wounds: Is Laparotomy Required?. Arteriosclerosis, Thrombosis, and Vascular Biology, 1999, 47, 622.	1.1	58
161	Drug Development Digital Twins for Drug Discovery, Testing and Repurposing: A Schema for Requirements and Development. Frontiers in Systems Biology, 0, 2, .	0.5	13
162	Editorial: Integration of Machine Learning and Computer Simulation in Solving Complex Physiological and Medical Questions. Frontiers in Physiology, 0, 13, .	1.3	1