

Igor Goryanin

List of Publications by Year in descending order

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81
papers

7,093
citations

236925

25
h-index

71685

76
g-index

85
all docs

85
docs citations

85
times ranked

7944
citing authors

#	ARTICLE	IF	CITATIONS
1	Using medical microwave radiometry for brain temperature measurements. <i>Drug Discovery Today</i> , 2022, 27, 881-889.	6.4	26
2	Using AI and passive medical radiometry for diagnostics (MWR) of venous diseases. <i>Computer Methods and Programs in Biomedicine</i> , 2022, 215, 106611.	4.7	11
3	Treatment and Companion Diagnostics of Lower Back Pain Using Self-Controlled Energo-Neuroadaptive Regulator (SCENAR) and Passive Microwave Radiometry (MWR). <i>Diagnostics</i> , 2022, 12, 1220.	2.6	5
4	Monitoring Protein Denaturation of Egg White Using Passive Microwave Radiometry (MWR). <i>Diagnostics</i> , 2022, 12, 1498.	2.6	0
5	A Method of Microwave Radiothermometry in Studies of Circadian Rhythms of Brain Temperature. <i>Bulletin of Experimental Biology and Medicine</i> , 2022, 173, 380-383.	0.8	3
6	Passive Microwave Radiometry as a Component of Imaging Diagnostics in Juvenile Idiopathic Arthritis. <i>Rheumato</i> , 2022, 2, 55-68.	0.7	4
7	Concurrent treatment of raw and aerated swine wastewater using an electrotrophic denitrification system. <i>Bioresource Technology</i> , 2021, 322, 124508.	9.6	14
8	Passive Microwave Radiometry for the Diagnosis of Coronavirus Disease 2019 Lung Complications in Kyrgyzstan. <i>Diagnostics</i> , 2021, 11, 259.	2.6	14
9	Microwave Radiometry (MWR) temperature measurement is related to symptom severity in patients with Low Back Pain (LBP). <i>Journal of Bodywork and Movement Therapies</i> , 2021, 26, 548-552.	1.2	11
10	Passive microwave radiometry in biomedical studies. <i>Drug Discovery Today</i> , 2020, 25, 757-763.	6.4	49
11	Metabolic engineering of a novel strain of electrogenic bacterium <i>Arcobacter butzleri</i> to create a platform for single analyte detection using a microbial fuel cell. <i>Enzyme and Microbial Technology</i> , 2020, 139, 109564.	3.2	13
12	Application of Data Mining and Machine Learning in Microwave Radiometry (MWR). <i>Communications in Computer and Information Science</i> , 2020, , 265-288.	0.5	12
13	Is there a Function for a Sex Pheromone Precursor?. <i>Journal of Integrative Bioinformatics</i> , 2019, 16, .	1.5	2
14	Single chamber air-cathode microbial fuel cells as biosensors for determination of biodegradable organics. <i>Biotechnology Letters</i> , 2019, 41, 555-563.	2.2	18
15	Application of Artificial Intelligence in Microwave Radiometry (MWR). , 2019, , .		12
16	ASAR: visual analysis of metagenomes in R. <i>Bioinformatics</i> , 2018, 34, 1404-1405.	4.1	5
17	Use of Microwave Radiometry to Monitor Thermal Denaturation of Albumin. <i>Frontiers in Physiology</i> , 2018, 9, 956.	2.8	11
18	ASAR Database: An R Tool for Visual Analysis and Storage of Metagenomes. , 2018, , .		0

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19	Modern microwave thermometry for breast cancer. , 2017, , .		6
20	Bioinformatic analysis of bacterial composition and metabolic mapping of selectively enriched microbial community within Microbial Fuel Cells. , 2017, , .		0
21	Comparative Metagenomic Analysis of Electrogenic Microbial Communities in Differentially Inoculated Swine Wastewater-Fed Microbial Fuel Cells. Scientifica, 2017, 2017, 1-10.	1.7	7
22	Modern Microwave Thermometry for Breast Cancer. Journal of Molecular Imaging & Dynamics, 2017, 7, .	0.2	27
23	Pathway-Consensus Approach to Metabolic Network Reconstruction for Pseudomonas putida KT2440 by Systematic Comparison of Published Models. PLoS ONE, 2017, 12, e0169437.	2.5	29
24	Taxonomic and functional metagenomic analysis of anodic communities in two pilot-scale microbial fuel cells treating different industrial wastewaters. Journal of Integrative Bioinformatics, 2015, 12, 1-15.	1.5	9
25	Magnet-Facilitated Selection of Electrogenic Bacteria from Marine Sediment. BioMed Research International, 2015, 2015, 1-7.	1.9	9
26	Genome Sequence of the Electrogenic Petroleum-Degrading Thalassospira sp. Strain HJ. Genome Announcements, 2015, 3, .	0.8	5
27	Taxonomic and functional metagenomic analysis of anodic communities in two pilot-scale microbial fuel cells treating different industrial wastewaters. Journal of Integrative Bioinformatics, 2015, 12, 273.	1.5	4
28	A semi-automated genome annotation comparison and integration scheme. BMC Bioinformatics, 2013, 14, 172.	2.6	13
29	A community-driven global reconstruction of human metabolism. Nature Biotechnology, 2013, 31, 419-425.	17.5	920
30	SBSI: an extensible distributed software infrastructure for parameter estimation in systems biology. Bioinformatics, 2013, 29, 664-665.	4.1	20
31	EnzML: multi-label prediction of enzyme classes using InterPro signatures. BMC Bioinformatics, 2012, 13, 61.	2.6	43
32	The reconstruction and analysis of tissue specific human metabolic networks. Molecular BioSystems, 2012, 8, 663-670.	2.9	25
33	Model-based global sensitivity analysis as applied to identification of anti-cancer drug targets and biomarkers of drug resistance in the ErbB2/3 network. European Journal of Pharmaceutical Sciences, 2012, 46, 244-258.	4.0	35
34	A user-defined data type for the storage of time series data allowing efficient similarity screening. European Journal of Pharmaceutical Sciences, 2012, 46, 272-274.	4.0	1
35	Preface. European Journal of Pharmaceutical Sciences, 2012, 46, 189.	4.0	3
36	Towards a computational reconstruction of the electrodynamics of premature and full term human labour. Progress in Biophysics and Molecular Biology, 2011, 107, 183-192.	2.9	29

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37	Compensatory effects in the PI3K/PTEN/AKT signaling network following receptor tyrosine kinase inhibition. <i>Cellular Signalling</i> , 2011, 23, 407-416.	3.6	19
38	Microarray data can predict diurnal changes of starch content in the picoalga <i>Ostreococcus</i> . <i>BMC Systems Biology</i> , 2011, 5, 36.	3.0	37
39	El of the Phosphotransferase System of <i>Escherichia coli</i> : Mathematical Modeling Approach to Analysis of Its Kinetic Properties. <i>Journal of Biophysics</i> , 2011, 2011, 1-17.	0.8	8
40	Computational optimization and biological evolution. <i>Biochemical Society Transactions</i> , 2010, 38, 1206-1209.	3.4	6
41	Compartmentalization of the Edinburgh Human Metabolic Network. <i>BMC Bioinformatics</i> , 2010, 11, 393.	2.6	92
42	DBSolve Optimum: a software package for kinetic modeling which allows dynamic visualization of simulation results. <i>BMC Systems Biology</i> , 2010, 4, 109.	3.0	39
43	In Silico Screening of Nonsteroidal Anti-Inflammatory Drugs and Their Combined Action on Prostaglandin H Synthase-1. <i>Pharmaceuticals</i> , 2010, 3, 2059-2081.	3.8	9
44	Processivity and Coupling in Messenger RNA Transcription. <i>PLoS ONE</i> , 2010, 5, e8845.	2.5	3
45	Novel Electrochemically Active Bacterium Phylogenetically Related to <i>Arcobacter butzleri</i> , Isolated from a Microbial Fuel Cell. <i>Applied and Environmental Microbiology</i> , 2009, 75, 7326-7334.	3.1	169
46	A fragile metabolic network adapted for cooperation in the symbiotic bacterium <i>Buchnera aphidicola</i> . <i>BMC Systems Biology</i> , 2009, 3, 24.	3.0	98
47	Kinetic modelling of NSAID action on COX-1: Focus on in vitro/in vivo aspects and drug combinations. <i>European Journal of Pharmaceutical Sciences</i> , 2009, 36, 122-136.	4.0	19
48	Preface. <i>European Journal of Pharmaceutical Sciences</i> , 2009, 36, 1-3.	4.0	1
49	The Systems Biology Graphical Notation. <i>Nature Biotechnology</i> , 2009, 27, 735-741.	17.5	828
50	A kinetic model of <i>Escherichia coli</i> β -galactosidase. <i>Biophysics (Russian Federation)</i> , 2009, 54, 156-162.	0.7	1
51	Modelling nitrogen assimilation of <i>Escherichia coli</i> at low ammonium concentration. <i>Journal of Biotechnology</i> , 2009, 144, 175-183.	3.8	22
52	Multi-electrode microbial fuel cell with horizontal liquid flow. <i>Water Science and Technology</i> , 2009, 60, 347-355.	2.5	20
53	Systems Biology Reveals New Strategies for Personalizing Cancer Medicine and Confirms the Role of PTEN in Resistance to Trastuzumab. <i>Cancer Research</i> , 2009, 69, 6713-6720.	0.9	152
54	Kinetic Modeling as a Tool to Integrate Multilevel Dynamic Experimental Data. <i>Methods in Molecular Biology</i> , 2009, 563, 197-218.	0.9	13

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55	Kinetic Modeling of E. coli Enzymes: Integration of in vitro Experimental Data. , 2009, , 177-207.		2
56	Human metabolic network reconstruction and its impact on drug discovery and development. Drug Discovery Today, 2008, 13, 402-408.	6.4	52
57	KINETIC MODELING OF LAC OPERON GENETIC REGULATION IN ESCHERICHIA COLI. Journal of Bioinformatics and Computational Biology, 2008, 06, 933-959.	0.8	4
58	KINETIC MODEL OF PHOSPHOFRUCTOKINASE-1 FROM ESCHERICHIA COLI. Journal of Bioinformatics and Computational Biology, 2008, 06, 843-867.	0.8	11
59	WikiSim. , 2008, , .		0
60	The Edinburgh human metabolic network reconstruction and its functional analysis. Molecular Systems Biology, 2007, 3, 135.	7.2	364
61	Dynamic computational modeling in the search for better breast cancer drug therapy. Pharmacogenomics, 2007, 8, 1757-1761.	1.3	10
62	Kinetic model of functioning and regulation of Escherichia coli isocitrate dehydrogenase. Biophysics (Russian Federation), 2007, 52, 30-39.	0.7	4
63	The impact of the regulatory design on the response of epidermal growth factor receptor-mediated signal transduction towards oncogenic mutations. FEBS Journal, 2007, 274, 5505-5517.	4.7	15
64	Mathematical Modeling of Mitochondrial Adenine Nucleotide Translocase. Biophysical Journal, 2006, 90, 423-432.	0.5	43
65	A Graphical Notation to Describe the Logical Interactions of Biological Pathways. Journal of Integrative Bioinformatics, 2006, 3, 177-187.	1.5	14
66	Kinetic Model of Mitochondrial Krebs Cycle: Unraveling the Mechanism of Salicylate Hepatotoxic Effects. Journal of Biological Physics, 2006, 32, 245-271.	1.5	36
67	The kinetic model of the shikimate pathway as a tool to optimize enzyme assays for high-throughput screening. Biotechnology and Bioengineering, 2006, 95, 560-571.	3.3	19
68	The Pathway Editor: A tool for managing complex biological networks. IBM Journal of Research and Development, 2006, 50, 561-573.	3.1	25
69	Cellular Kinetic Modeling of the Microbial Metabolism. Methods of Biochemical Analysis, 2005, , 437-488.	0.2	2
70	EchoBASE: an integrated post-genomic database for Escherichia coli. Nucleic Acids Research, 2004, 33, D329-D333.	14.5	70
71	Kinetic model of imidazolglycerol-phosphate synthetase from Escherichia coli. Biochemistry (Moscow), 2004, 69, 1324-1335.	1.5	3
72	A computer model of the gene network of the cholesterol biosynthesis regulation in the cell: analysis of the effect of mutations. Doklady Biochemistry and Biophysics, 2003, 389, 90-93.	0.9	4

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73	The systems biology markup language (SBML): a medium for representation and exchange of biochemical network models. <i>Bioinformatics</i> , 2003, 19, 524-531.	4.1	2,811
74	Temperature Dependence of the Epidermal Growth Factor Receptor Signaling Network Can Be Accounted for by a Kinetic Model. <i>Biochemistry</i> , 2002, 41, 306-320.	2.5	74
75	Kinetic Modeling of Energy Metabolism and Superoxide Generation in Hepatocyte Mitochondria. <i>Molecular Biology</i> , 2001, 35, 940-949.	1.3	23
76	Metabolic modeling of microbial strains in silico. <i>Trends in Biochemical Sciences</i> , 2001, 26, 179-186.	7.5	291
77	Reconstructing whole-cell models. <i>Drug Discovery Today</i> , 2001, 6, 109-112.	6.4	3
78	Simultaneous modelling of metabolic, genetic and product-interaction networks. <i>Briefings in Bioinformatics</i> , 2001, 2, 223-232.	6.5	13
79	Mathematical simulation and analysis of cellular metabolism and regulation. <i>Bioinformatics</i> , 1999, 15, 749-758.	4.1	135
80	The metabolic pathway collection: an update. <i>Nucleic Acids Research</i> , 1997, 25, 37-38.	14.5	37
81	The metabolic pathway collection from EMP: the enzymes and metabolic pathways database. <i>Nucleic Acids Research</i> , 1996, 24, 26-28.	14.5	87