Ioannis Androulakis

List of Publications by Year
in descending order

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157 papers	4,255 citations	125106 35 h-index	175968 55 g-index
163 all docs	163 docs citations	163 times ranked	5846 citing authors

#	Article	IF	Citations
1	From data to QSP models: a pipeline for using Boolean networks for hypothesis inference and dynamic model building. Journal of Pharmacokinetics and Pharmacodynamics, 2022, 49, 101-115.	0.8	5
2	Two heads are better than one: current landscape of integrating QSP and machine learning. Journal of Pharmacokinetics and Pharmacodynamics, 2022, 49, 5-18.	0.8	26
3	Does seasonality of the microbiota contribute to the seasonality of acute gout flare?. Clinical and Experimental Rheumatology, 2022, , .	0.4	1
4	Circadian rhythms and the <scp>HPA</scp> axis: A systems view. WIREs Mechanisms of Disease, 2021, 13, e1518.	1.5	14
5	Pathway-level analysis of genome-wide circadian dynamics in diverse tissues in rat and mouse. Journal of Pharmacokinetics and Pharmacodynamics, 2021, 48, 361-374.	0.8	3
6	Self-selection of evolutionary strategies: adaptive versus non-adaptive forces. Heliyon, 2021, 7, e06997.	1.4	4
7	Circadian Effects of Drug Responses. Annual Review of Biomedical Engineering, 2021, 23, 203-224.	5.7	17
8	Light entrainment of the SCN circadian clock and implications for personalized alterations of corticosterone rhythms in shift work and jet lag. Scientific Reports, 2021, 11, 17929.	1.6	13
9	Modeling inter-sex and inter-individual variability in response to chronopharmacological administration of synthetic glucocorticoids. Chronobiology International, 2020, 37, 281-296.	0.9	8
10	Circadian Disruption in Critical Illness. Frontiers in Neurology, 2020, 11, 820.	1.1	23
11	Modeling Pathway Dynamics of the Skeletal Muscle Response to Intravenous Methylprednisolone (MPL) Administration in Rats: Dosing and Tissue Effects. Frontiers in Bioengineering and Biotechnology, 2020, 8, 759.	2.0	2
12	The circadian rhythms of cortisol: Modelling their role in regulating homeostasis and personalized resilience and adaptation. IFAC-PapersOnLine, 2020, 53, 15858-15863.	0.5	2
13	Allostatic adaptation and personalized physiological trade-offs in the circadian regulation of the HPA axis: A mathematical modeling approach. Scientific Reports, 2019, 9, 11212.	1.6	29
14	Fluorescence Imaging of Actin Turnover Parses Early Stem Cell Lineage Divergence and Senescence. Scientific Reports, 2019, 9, 10377.	1.6	17
15	At the Interface of Lifestyle, Behavior, and Circadian Rhythms: Metabolic Implications. Frontiers in Nutrition, 2019, 6, 132.	1.6	62
16	The quest for digital health: From diseases to patients. Computers and Chemical Engineering, 2019, 127, 247-253.	2.0	0
17	Pathway-Based Analysis of the Liver Response to Intravenous Methylprednisolone Administration in Rats: Acute Versus Chronic Dosing. Gene Regulation and Systems Biology, 2019, 13, 117762501984028.	2.3	6
18	Mathematical modeling informs the impact of changes in circadian rhythms and meal patterns on insulin secretion. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2019, 317, R98-R107.	0.9	9

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19	The physiological significance of the circadian dynamics of the HPA axis: Interplay between circadian rhythms, allostasis and stress resilience. Hormones and Behavior, 2019, 110, 77-89.	1.0	42
20	The Impact of Stochasticity and Its Control on a Model of the Inflammatory Response. Computation, 2019, 7, 3.	1.0	8
21	Chronopharmacology of glucocorticoids. Advanced Drug Delivery Reviews, 2019, 151-152, 245-261.	6.6	68
22	Macrophage modulation by polymerized hemoglobins: Potential as a wound-healing therapy. Technology, 2019, 07, 84-97.	1.4	0
23	Boolean Modeling in Quantitative Systems Pharmacology: Challenges and Opportunities. Critical Reviews in Biomedical Engineering, 2019, 47, 473-488.	0.5	3
24	Exploration of sexual dimorphism and inter-individual variability in multivariate parameter spaces for a pharmacokinetic compartment model. Mathematical Biosciences, 2019, 308, 70-80.	0.9	2
25	A framework for 2-stage global sensitivity analysis of GastroPlusâ„¢ compartmental models. Journal of Pharmacokinetics and Pharmacodynamics, 2018, 45, 309-327.	0.8	13
26	Modeling the Influence of Seasonal Differences in the HPA Axis on Synchronization of the Circadian Clock and Cell Cycle. Endocrinology, 2018, 159, 1808-1826.	1.4	23
27	The growing role of precision and personalized medicine for cancer treatment. Technology, 2018, 06, 79-100.	1.4	237
28	Modeling the influence of chronopharmacological administration of synthetic glucocorticoids on the hypothalamic-pituitary-adrenal axis. Chronobiology International, 2018, 35, 1619-1636.	0.9	11
29	Quantitative systems pharmacology: Extending the envelope through systems engineering. Computer Aided Chemical Engineering, 2018, 42, 3-34.	0.3	2
30	Mathematical analysis of circadian disruption and metabolic re-entrainment of hepatic gluconeogenesis: the intertwining entraining roles of light and feeding. American Journal of Physiology - Endocrinology and Metabolism, 2018, 314, E531-E542.	1.8	13
31	Pharmacokinetics and Pharmacodynamics of Curcumin in regulating antiâ€inflammatory and epigenetic gene expression. Biopharmaceutics and Drug Disposition, 2018, 39, 289-297.	1.1	21
32	On the analysis of complex biological supply chains: From process systems engineering to quantitative systems pharmacology. Computers and Chemical Engineering, 2017, 107, 100-110.	2.0	9
33	Modeling the Sex Differences and Interindividual Variability in the Activity of the Hypothalamic-Pituitary-Adrenal Axis. Endocrinology, 2017, 158, 4017-4037.	1.4	40
34	The Hepato-Hypothalamic-Pituitary-Adrenal-Renal Axis: Mathematical Modeling of Cortisolâ€™s Production, Metabolism, and Seasonal Variation. Journal of Biological Rhythms, 2017, 32, 469-484.	1.4	12
35	Pharmacokinetics and Pharmacodynamics of the Triterpenoid Ursolic Acid in Regulating the Antioxidant, Anti-inflammatory, and Epigenetic Gene Responses in Rat Leukocytes. Molecular Pharmaceutics, 2017, 14, 3709-3717.	2.3	44
36	Allostatic breakdown of cascading homeostat systems: A computational approach. Heliyon, 2017, 3, e00355.	1.4	9

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37	The Synergistic Role of Light-Feeding Phase Relations on Entraining Robust Circadian Rhythms in the Periphery. Gene Regulation and Systems Biology, 2017, 11, 117762501770239.	2.3	22
38	Understanding Physiology in the Continuum: Integration of Information from Multiple -Omics Levels. Frontiers in Pharmacology, 2017, 8, 91.	1.6	13
39	The Potential of Circadian Realignment in Rheumatoid Arthritis. Critical Reviews in Biomedical Engineering, 2016, 44, 177-191.	0.5	14
40	Asymmetry in Signal Oscillations Contributes to Efficiency of Periodic Systems. Critical Reviews in Biomedical Engineering, 2016, 44, 193-211.	0.5	3
41	Mechanistic Modeling of Inflammation. AAPS Advances in the Pharmaceutical Sciences Series, 2016, , 325-352.	0.2	2
42	Quantitative Systems Pharmacology: A Framework for Context. Current Pharmacology Reports, 2016, 2, 152-160.	1.5	18
43	Physiologically-based pharmacokinetic models: approaches for enabling personalized medicine. Journal of Pharmacokinetics and Pharmacodynamics, 2016, 43, 481-504.	0.8	79
44	The role of the hypothalamic-pituitary-adrenal axis in modulating seasonal changes in immunity. Physiological Genomics, 2016, 48, 719-738.	1.0	36
45	Mathematical modeling of the circadian dynamics of the neuroendocrine-immune network in experimentally induced arthritis. American Journal of Physiology - Endocrinology and Metabolism, 2016, 311, E310-E324.	1.8	24
46	Burn trauma disrupts circadian rhythms in rat liver. International Journal of Burns and Trauma, 2016, 6, 12-25.	0.2	2
47	Pharmacokinetics and pharmacodynamics of 3,3â€²-diindolylmethane (DIM) in regulating gene expression of phase II drug metabolizing enzymes. Journal of Pharmacokinetics and Pharmacodynamics, 2015, 42, 401-408.	0.8	11
48	Human metabolic response to systemic inflammation: assessment of the concordance between experimental endotoxemia and clinical cases of sepsis/SIRS. Critical Care, 2015, 19, 71.	2.5	62
49	Tandem Analysis of Transcriptome and Proteome Changes after a Single Dose of Corticosteroid: A Systems Approach to Liver Function in Pharmacogenomics. OMICS A Journal of Integrative Biology, 2015, 19, 80-91.	1.0	18
50	Systems engineering meets quantitative systems pharmacology: from lowâ€level targets to engaging the host defenses. Wiley Interdisciplinary Reviews: Systems Biology and Medicine, 2015, 7, 101-112.	6.6	15
51	Dynamics of hepatic gene expression and serum cytokine profiles in single and double-hit burn and sepsis animal models. Data in Brief, 2015, 3, 229-233.	0.5	4
52	Circadian characteristics of permissive and suppressive effects of cortisol and their role in homeostasis and the acute inflammatory response. Mathematical Biosciences, 2015, 260, 54-64.	0.9	38
53	Tissue-Specific Gene Expression and Regulation in Liver and Muscle following Chronic Corticosteroid Administration. Gene Regulation and Systems Biology, 2014, 8, GRSB.S13134.	2.3	16
54	Mathematical modeling of light-mediated HPA axis activity and downstream implications on the entrainment of peripheral clock genes. Physiological Genomics, 2014, 46, 766-778.	1.0	34

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55	Effects of coupled dose and rhythm manipulation of plasma cortisol levels on leukocyte transcriptional response to endotoxin challenge in humans. Innate Immunity, 2014, 20, 774-784.	1.1	9
56	Integrated Transcriptional and Metabolic Profiling in Human Endotoxemia. Shock, 2014, 42, 499-508.	1.0	12
57	A chemical engineer's perspective on health and disease. Computers and Chemical Engineering, 2014, 71, 665-671.	2.0	16
58	Reactive Flow Simulation Based on the Integration of Automated Mechanism Generation and On-the-Fly Reduction. Energy & Fuels, 2014, 28, 4801-4811.	2.5	6
59	Bioinformatics analysis of transcriptional regulation of circadian genes in rat liver. BMC Bioinformatics, 2014, 15, 83.	1.2	15
60	Time-restricted feeding and the realignment of biological rhythms: translational opportunities and challenges. Journal of Translational Medicine, 2014, 12, 79.	1.8	47
61	On heart rate variability and autonomic activity in homeostasis and in systemic inflammation. Mathematical Biosciences, 2014, 252, 36-44.	0.9	24
62	Translational applications of evaluating physiologic variability in human endotoxemia. Journal of Clinical Monitoring and Computing, 2013, 27, 405-415.	0.7	19
63	Topology and Dynamics of Signaling Networks: In Search of Transcriptional Control of the Inflammatory Response. Annual Review of Biomedical Engineering, 2013, 15, 1-28.	5.7	14
64	Systems Biology of Circadian-Immune Interactions. Journal of Innate Immunity, 2013, 5, 153-162.	1.8	51
65	Predicting critical transitions in a model of systemic inflammation. Journal of Theoretical Biology, 2013, 338, 9-15.	0.8	13
66	A semi-mechanistic integrated toxicokineticâ€“toxicodynamic (TK/TD) model for arsenic(III) in hepatocytes. Journal of Theoretical Biology, 2013, 317, 244-256.	0.8	11
67	Enzyme sequence similarity improves the reaction alignment method for cross-species pathway comparison. Toxicology and Applied Pharmacology, 2013, 271, 363-371.	1.3	10
68	Use of genomic data in risk assessment case study: II. Evaluation of the dibutyl phthalate toxicogenomic data set. Toxicology and Applied Pharmacology, 2013, 271, 349-362.	1.3	41
69	A multiscale modeling approach to inflammation: A case study in human endotoxemia. Journal of Computational Physics, 2013, 244, 279-289.	1.9	9
70	Pathway modeling of microarray data: A case study of pathway activity changes in the testis following in utero exposure to dibutyl phthalate (DBP). Toxicology and Applied Pharmacology, 2013, 271, 386-394.	1.3	14
71	A hybrid kinetic mechanism reduction scheme based on the on-the-fly reduction and quasi-steady-state approximation. Chemical Engineering Science, 2013, 93, 150-162.	1.9	16
72	Temporal Metabolic Profiling of Plasma During Endotoxemia in Humans. Shock, 2013, 40, 519-526.	1.0	39

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73	Branchedâ€chain amino acid supplementation: impact on signaling and relevance to critical illness. Wiley Interdisciplinary Reviews: Systems Biology and Medicine, 2013, 5, 449-460.	6.6	46
74	Effect of Fasting on the Metabolic Response of Liver to Experimental Burn Injury. PLoS ONE, 2013, 8, e54825.	1.1	11
75	A Systems Engineering Perspective on Homeostasis and Disease. Frontiers in Bioengineering and Biotechnology, 2013, 1, 6.	2.0	27
76	Metabolomic Fingerprinting: Challenges and Opportunities. Critical Reviews in Biomedical Engineering, 2013, 41, 205-221.	0.5	115
77	An Agent-Based Model of Cellular Dynamics and Circadian Variability in Human Endotoxemia. PLoS ONE, 2013, 8, e55550.	1.1	14
78	Multiscale Equation-Based Models: Insights for Inflammation and Physiological Variability. , 2013, , 125-141.		1
79	Impact of burn priming on immune and metabolic functions of whole Liver in a rat cecal ligation and puncture model. International Journal of Burns and Trauma, 2013, 3, 55-65.	0.2	7
80	Entrainment of peripheral clock genes by cortisol. Physiological Genomics, 2012, 44, 607-621.	1.0	58
81	Transcriptional implications of ultradian glucocorticoid secretion in homeostasis and in the acute stress response. Physiological Genomics, 2012, 44, 121-129.	1.0	40
82	Dynamics of Short-Term Gene Expression Profiling in Liver Following Thermal Injury. Journal of Surgical Research, 2012, 176, 549-558.	0.8	15
83	Dynamics of Hepatic Gene Expression Profile in a Rat Cecal Ligation and Puncture Model. Journal of Surgical Research, 2012, 176, 583-600.	0.8	13
84	Long-term gene expression profile dynamics following cecal ligation and puncture in the rat. Journal of Surgical Research, 2012, 178, 431-442.	0.8	7
85	Comparison of Biodiesel Performance Based on HCCI Engine Simulation Using Detailed Mechanism with On-the-fly Reduction. Energy & Fuels, 2012, 26, 976-983.	2.5	18
86	Stoichiometry Based Steady-State Hepatic Flux Analysis: Computational and Experimental Aspects. Metabolites, 2012, 2, 268-291.	1.3	8
87	Long-term dynamic profiling of inflammatory mediators in double-hit burn and sepsis animal models. Cytokine, 2012, 58, 307-315.	1.4	12
88	Pharmacokinetics and Pharmacodynamics of Phase II Drug Metabolizing/Antioxidant Enzymes Gene Response by Anticancer Agent Sulforaphane in Rat Lymphocytes. Molecular Pharmaceutics, 2012, 9, 2819-2827.	2.3	24
89	Linking Inflammation, Cardiorespiratory Variability, and Neural Control in Acute Inflammation via Computational Modeling. Frontiers in Physiology, 2012, 3, 222.	1.3	39
90	Modeling Physiologic Variability in Human Endotoxemia. Critical Reviews in Biomedical Engineering, 2012, 40, 313-322.	0.5	19

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91	Metabolic network analysis of perfused livers under fed and fasted states: Incorporating thermodynamic and futile-cycle-associated regulatory constraints. Journal of Theoretical Biology, 2012, 293, 101-110.	0.8	13
92	Sepsis: Something old, something new, and a systems view. Journal of Critical Care, 2012, 27, 314.e1-314.e11.	1.0	95
93	Exploring flux representations of complex kinetics networks. AICHE Journal, 2012, 58, 553-567.	1.8	6
94	Pulsatile Glucocorticoid Secretion: Origins and Downstream Effects. IEEE Transactions on Biomedical Engineering, 2011, 58, 3504-3507.	2.5	11
95	Numerical Investigation of Homogeneous Charge Compression Ignition (HCCI) Combustion with Detailed Chemical Kinetics Using On-the-Fly Reduction. Energy & Fuels, 2011, 25, 3369-3376.	2.5	9
96	Comparison of the cytokine and chemokine dynamics of the early inflammatory response in models of burn injury and infection. Cytokine, 2011, 55, 362-371.	1.4	37
97	The dynamics of the early inflammatory response in double-hit burn and sepsis animal models. Cytokine, 2011, 56, 494-502.	1.4	18
98	A quantitative model of thermal injury-induced acute inflammation. Mathematical Biosciences, 2011, 229, 135-148.	0.9	19
99	A dual negative regulation model of Toll-like receptor 4 signaling for endotoxin preconditioning in human endotoxemia. Mathematical Biosciences, 2011, 232, 151-163.	0.9	27
100	Advanced Stoichiometric Analysis of Metabolic Networks of Mammalian Systems. Critical Reviews in Biomedical Engineering, 2011, 39, 511-534.	0.5	28
101	Identification of a Gene Regulatory Network Necessary for the Initiation of Oligodendrocyte Differentiation. PLoS ONE, 2011, 6, e18088.	1.1	88
102	Computational Identification of Transcriptional Regulators in Human Endotoxemia. PLoS ONE, 2011, 6, e18889.	1.1	18
103	A Physiological Model for Autonomic Heart Rate Regulation in Human Endotoxemia. Shock, 2011, 35, 229-239.	1.0	42
104	Modeling autonomic regulation of cardiac function and heart rate variability in human endotoxemia. Physiological Genomics, 2011, 43, 951-964.	1.0	49
105	Model building using bi-level optimization. Journal of Global Optimization, 2011, 49, 49-67.	1.1	3
106	Assessment of Pharmacologic Area Under the Curve When Baselines are Variable. Pharmaceutical Research, 2011, 28, 1081-1089.	1.7	62
107	Metabolic response of perfused livers to various oxygenation conditions. Biotechnology and Bioengineering, 2011, 108, 2947-2957.	1.7	15
108	Pathway analysis of liver metabolism under stressed condition. Journal of Theoretical Biology, 2011, 272, 131-140.	0.8	20

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109	Towards in silico models of decomplexification in human endotoxemia. Computer Aided Chemical Engineering, 2011, 29, 1485-1489.	0.3	1
110	Integration of onâ€theâ€fly kinetic reduction with multidimensional CFD. AICHE Journal, 2010, 56, 1305-1314.	1.8	7
111	Modeling the influence of circadian rhythms on the acute inflammatory response. Journal of Theoretical Biology, 2010, 264, 1068-1076.	0.8	105
112	Transcriptional and metabolic flux profiling of triadimefon effects on cultured hepatocytes. Toxicology and Applied Pharmacology, 2010, 248, 165-177.	1.3	17
113	Importance of replication in analyzing time-series gene expression data: Corticosteroid dynamics and circadian patterns in rat liver. BMC Bioinformatics, 2010, 11, 279.	1.2	14
114	Comparative analysis of acute and chronic corticosteroid pharmacogenomic effects in rat liver: Transcriptional dynamics and regulatory structures. BMC Bioinformatics, 2010, 11, 515.	1.2	18
115	Circadian signatures in rat liver: from gene expression to pathways. BMC Bioinformatics, 2010, 11, 540.	1.2	24
116	Metabolic flux determination in perfused livers by mass balance analysis: Effect of fasting. Biotechnology and Bioengineering, 2010, 107, 825-835.	1.7	16
117	On-the-fly reduction of kinetic mechanisms using element flux analysis. Chemical Engineering Science, 2010, 65, 1173-1184.	1.9	51
118	Agent-Based Modeling of Endotoxin-Induced Acute Inflammatory Response in Human Blood Leukocytes. PLoS ONE, 2010, 5, e9249.	1.1	82
119	A New Symbolic Representation for the Identification of Informative Genes in Replicated Microarray Experiments. OMICS A Journal of Integrative Biology, 2010, 14, 239-248.	1.0	4
120	Multiscale model for the assessment of autonomic dysfunction in human endotoxemia. Physiological Genomics, 2010, 42, 5-19.	1.0	46
121	Multi-element Flux Analysis for the Incorporation of Detailed Kinetic Mechanisms in Reactive Simulations. Energy & Fuels, 2010, 24, 309-317.	2.5	17
122	Incorporation of Detailed Chemical Mechanisms in Reactive Flow Simulations Using Element-Flux Analysis. Industrial & Engineering Chemistry Research, 2010, 49, 10471-10478.	1.8	5
123	Modeling Circadian Rhythms in Inflammation. , 2010, , .		0
124	Effects of Triadimefon on the Metabolism of Cultured Hepatocytes. , 2010, , .		0
125	Cytoskeleton-based forecasting of stem cell lineage fates. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 610-615.	3.3	258
126	Dynamic Complexity of the Temporal Transcriptional Regulation Program in Human Endotoxemia. , 2010, , .		0

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127	Recent Advances in the Computational Discovery of Transcription Factor Binding Sites. Algorithms, 2009, 2, 582-605.	1.2	22
128	In Silico Simulation of Corticosteroids Effect on an NFkB- Dependent Physicochemical Model of Systemic Inflammation. PLoS ONE, 2009, 4, e4706.	1.1	62
129	Unsupervised Selection of Highly Coexpressed and Noncoexpressed Genes Using a Consensus Clustering Approach. OMICS A Journal of Integrative Biology, 2009, 13, 219-237.	1.0	25
130	Differential gene expression profiling of mouse skin after sulfur mustard exposure: Extended time response and inhibitor effect. Toxicology and Applied Pharmacology, 2009, 234, 156-165.	1.3	45
131	Translational Potential of Systemsâ€Based Models of Inflammation. Clinical and Translational Science, 2009, 2, 85-89.	1.5	42
132	Transcription factor network reconstruction using the living cell array. Journal of Theoretical Biology, 2009, 256, 393-407.	0.8	8
133	A mixed-integer optimization framework for the synthesis and analysis of regulatory networks. Journal of Global Optimization, 2009, 43, 263-276.	1.1	10
134	Networks, biology and systems engineering: A case study in inflammation. Computers and Chemical Engineering, 2009, 33, 2028-2041.	2.0	21
135	Modeling endotoxin-induced systemic inflammation using an indirect response approach. Mathematical Biosciences, 2009, 217, 27-42.	0.9	86
136	Analysis of Regulatory and Interaction Networks from Clusters of Co-expressed Genes. , 2009, , 53-82.		2
137	Identification of Global Transcriptional Dynamics. PLoS ONE, 2009, 4, e5992.	1.1	21
138	A graph-based approach to developing adaptive representations of complex reaction mechanisms. Combustion and Flame, 2008, 155, 585-604.	2.8	36
139	Circadian Variations in Rat Liver Gene Expression: Relationships to Drug Actions. Journal of Pharmacology and Experimental Therapeutics, 2008, 326, 700-716.	1.3	59
140	Relationships between circadian rhythms and modulation of gene expression by glucocorticoids in skeletal muscle. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2008, 295, R1031-R1047.	0.9	64
141	Extracting Global System Dynamics of Corticosteroid Genomic Effects in Rat Liver. Journal of Pharmacology and Experimental Therapeutics, 2008, 324, 1243-1254.	1.3	13
142	Bioinformatics analysis of the early inflammatory response in a rat thermal injury model. BMC Bioinformatics, 2007, 8, 10.	1.2	41
143	Analysis of Time-Series Gene Expression Data: Methods, Challenges, and Opportunities. Annual Review of Biomedical Engineering, 2007, 9, 205-228.	5.7	118
144	Context Specific Transcription Factor Prediction. Annals of Biomedical Engineering, 2007, 35, 1053-1067.	1.3	5

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145	New approaches for representing, analyzing and visualizing complex kinetic transformations. Computers and Chemical Engineering, 2006, 31, 41-50.	2.0	5
146	Propagation of uncertainty in chemically activated systems. AICHE Journal, 2006, 52, 3246-3256.	1.8	12
147	Assessing the Information Content of Short Time Series Expression Data. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2006, , .	0.5	1
148	Selecting maximally informative genes. Computers and Chemical Engineering, 2005, 29, 535-546.	2.0	13
149	New approaches for representing, analyzing and visualizing complex kinetic mechanisms. Computer Aided Chemical Engineering, 2005, , 235-240.	0.3	3
150	Time-integrated pointers for enabling the analysis of detailed reaction mechanisms. AICHE Journal, 2004, 50, 2956-2970.	1.8	44
151	â€œStore and retrieveâ€•representations of dynamic systems motivated by studies in gas phase chemical kinetics. Computers and Chemical Engineering, 2004, 28, 2141-2155.	2.0	9
152	Application of Computational Kinetic Mechanism Generation to Model the Autocatalytic Pyrolysis of Methane. Industrial & Engineering Chemistry Research, 2003, 42, 1000-1010.	1.8	32
153	Design of flexible reduced kinetic mechanisms. AICHE Journal, 2001, 47, 2461-2473.	1.8	24
154	Some Critical Issues in the Analysis of Partial Oxidation Reactions in Monolith Reactors. Studies in Surface Science and Catalysis, 2001, , 495-500.	1.5	0
155	Kinetic mechanism reduction based on an integer programming approach. AICHE Journal, 2000, 46, 361-371.	1.8	85
156	The Contribution of Gas-Phase Reactions in the Pt-Catalyzed Conversion of Ethaneâ€“Oxygen Mixtures. Journal of Catalysis, 2000, 191, 46-54.	3.1	50
157	Role of distributed oxygen addition and product removal in the oxidative coupling of methane. AICHE Journal, 1999, 45, 860-868.	1.8	23