

Keith M Godfrey

List of Publications by Year in descending order

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44
papers

1,125
citations

471509

17
h-index

414414

32
g-index

45
all docs

45
docs citations

45
times ranked

1200
citing authors

#	ARTICLE	IF	CITATIONS
1	Maternal gestational vitamin D supplementation and offspring bone health (MAVIDOS): a multicentre, double-blind, randomised placebo-controlled trial. <i>Lancet Diabetes and Endocrinology</i> , 2016, 4, 393-402.	11.4	188
2	Similarity transformation approach to identifiability analysis of nonlinear compartmental models. <i>Mathematical Biosciences</i> , 1989, 93, 217-248.	1.9	187
3	A survey of readily accessible perturbation signals for system identification in the frequency domain. <i>Control Engineering Practice</i> , 2005, 13, 1391-1402.	5.5	67
4	Modelling the Double Peak Phenomenon in pharmacokinetics. <i>Computer Methods and Programs in Biomedicine</i> , 2011, 104, 62-69.	4.7	60
5	A comparison of six deconvolution techniques. <i>Journal of Pharmacokinetics and Pharmacodynamics</i> , 1996, 24, 283-299.	0.6	55
6	A mathematical model for the in vitro kinetics of the anti-cancer agent topotecan. <i>Mathematical Biosciences</i> , 2004, 189, 185-217.	1.9	40
7	Parameterization of Linear Supply Functions in Nonlinear AC Electricity Market Equilibrium Models—Part I: Literature Review and Equilibrium Algorithm. <i>IEEE Transactions on Power Systems</i> , 2013, 28, 650-658.	6.5	36
8	Nonparametric Data-Driven Modeling of Linear Systems: Estimating the Frequency Response and Impulse Response Function. <i>IEEE Control Systems</i> , 2018, 38, 49-88.	0.8	36
9	Gestational Vitamin D Supplementation Leads to Reduced Perinatal RXRA DNA Methylation: Results From the MAVIDOS Trial. <i>Journal of Bone and Mineral Research</i> , 2019, 34, 231-240.	2.8	36
10	Identifiability and indistinguishability of linear compartmental models. <i>Mathematics and Computers in Simulation</i> , 1990, 32, 273-295.	4.4	33
11	Analysis of Best Linear Approximation of a Wiener-Hammerstein System for Arbitrary Amplitude Distributions. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2012, 61, 645-654.	4.7	33
12	Design of Ternary Signals for MIMO Identification in the Presence of Noise and Nonlinear Distortion. <i>IEEE Transactions on Control Systems Technology</i> , 2009, 17, 926-933.	5.2	30
13	An identifiability analysis of a parent-metabolite pharmacokinetic model for ivabradine. <i>Journal of Pharmacokinetics and Pharmacodynamics</i> , 2001, 28, 93-105.	1.8	29
14	Modeling and Control of Wind Turbine with Doubly Fed Induction Generator. , 2006, , .		28
15	Numerical deconvolution using system identification methods. <i>Journal of Pharmacokinetics and Pharmacodynamics</i> , 1988, 16, 85-107.	0.6	25
16	The problem of model indistinguishability in pharmacokinetics. <i>Journal of Pharmacokinetics and Pharmacodynamics</i> , 1989, 17, 229-267.	0.6	21
17	CODE: a deconvolution program implementing a regularization method of deconvolution constrained to non-negative values. Description and pilot evaluation. , 1998, 19, 39-53.		21
18	Exploration of the intercellular heterogeneity of topotecan uptake into human breast cancer cells through compartmental modelling. <i>Mathematical Biosciences</i> , 2008, 213, 119-134.	1.9	19

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19	Practical Issues in the Synthesis of Ternary Sequences. IEEE Transactions on Instrumentation and Measurement, 2017, 66, 212-222.	4.7	18
20	Compartmental modelling of the uptake kinetics of the anti-cancer agent topotecan in human breast cancer cells. International Journal of Adaptive Control and Signal Processing, 2005, 19, 395-417.	4.1	17
21	Nonlinear pharmacokinetics of tissue-type plasminogen activator in three animal species: a comparison of mathematical models. Biopharmaceutics and Drug Disposition, 1998, 19, 131-140.	1.9	16
22	Identification of multi-input systems using simultaneous perturbation by pseudorandom input signals. IET Control Theory and Applications, 2015, 9, 2283-2292.	2.1	16
23	A methodology for compartmental model indistinguishability. Mathematical Biosciences, 1989, 96, 141-164.	1.9	12
24	Optimal tumor targeting by antibodies: Development of a mathematical model. Journal of Pharmacokinetics and Pharmacodynamics, 1991, 19, 227-260.	0.6	11
25	Impact of the Transformer Tap-Ratio Control on the Electricity Market Equilibrium. IEEE Transactions on Power Systems, 2008, 23, 65-75.	6.5	11
26	Bone turnover in pregnancy, measured by urinary CTX, is influenced by vitamin D supplementation and is associated with maternal bone health: findings from the Maternal Vitamin D Osteoporosis Study (MAVIDOS) trial. American Journal of Clinical Nutrition, 2021, 114, 1600-1611.	4.7	10
27	Indistinguishability for a class of nonlinear compartmental models. Mathematical Biosciences, 1994, 119, 77-95.	1.9	9
28	Design of Multilevel Signals for Identifying the Best Linear Approximation of Nonlinear Systems. IEEE Transactions on Instrumentation and Measurement, 2013, 62, 519-524.	4.7	9
29	Best Linear Approximation of Wiener Systems Using Multilevel Signals: Theory and Experiments. IEEE Transactions on Instrumentation and Measurement, 2018, 67, 1246-1253.	4.7	9
30	Effects of Overlapping and Windowing on Frequency Response Function Estimates of Systems With Random Inputs. IEEE Transactions on Instrumentation and Measurement, 2009, 58, 214-220.	4.7	8
31	A guide to the design and selection of perturbation signals. , 2009, , .		8
32	Identification of a Wiener-Hammerstein system using an incremental nonlinear optimisation technique. Control Engineering Practice, 2012, 20, 1140-1148.	5.5	8
33	Parameterization of linear supply functions in nonlinear AC electricity market equilibrium models - Part II: Case studies. IEEE Transactions on Power Systems, 2013, 28, 659-668.	6.5	5
34	Object-oriented creation of input signals for system identification. IET Control Theory and Applications, 2014, 8, 821-829.	2.1	4
35	Structured nonlinear noise behaviour and the use of median averaging in nonlinear systems with $\langle i \rangle$ sequence inputs. IET Control Theory and Applications, 2013, 7, 997-1004.	2.1	2
36	DISTING: A web application for fast algorithmic computation of alternative indistinguishable linear compartmental models. Computer Methods and Programs in Biomedicine, 2017, 143, 129-135.	4.7	2

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37	Direct synthesis signal sets for multi-input system identification. <i>Systems and Control Letters</i> , 2019, 124, 92-98.	2.3	2
38	Presenting mathematics in a first-year engineering course at university. <i>International Journal of Mathematical Education in Science and Technology</i> , 1985, 16, 311-319.	1.4	1
39	Application of multi-level signals to the identification of direction-dependent processes. <i>Automatica</i> , 2004, 40, 831-837.	5.0	1
40	Experimental verification of Best Linear Approximation of a wiener system for binary excitations. , 2012, , .		1
41	CODE: a deconvolution program implementing a regularization method of deconvolution constrained to non-negative values. Description and pilot evaluation. <i>Biopharmaceutics and Drug Disposition</i> , 1998, 19, 39-53.	1.9	1
42	Regional specific mean expiratory gas flow from 81mKr equilibrium inhalation data. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 1985, 10, 321-31.	2.1	0
43	Modelling the Control of Cell Proliferation by An Anti-cancer Agent. <i>Measurement and Control</i> , 2007, 40, 12-15.	1.8	0
44	Evaluation of Preconception Dietary Patterns in Women Enrolled in a Multisite Study. <i>Current Developments in Nutrition</i> , 2022, 6, nzac106.	0.3	0