Keith M Godfrey

List of Publications by Year
in descending order

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44	1,125	471509	414414
papers	citations	17 h-index	32 g-index

45	45	45	1200
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Evaluation of Preconception Dietary Patterns in Women Enrolled in a Multisite Study. Current Developments in Nutrition, 2022, 6, nzac106.	0.3	0
2	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
3	Direct synthesis signal sets for multi-input system identification. Systems and Control Letters, 2019, 124, 92-98.	2.3	2
4	Gestational Vitamin D Supplementation Leads to Reduced Perinatal RXRA DNA Methylation: Results From the MAVIDOS Trial. Journal of Bone and Mineral Research, 2019, 34, 231-240.	2.8	36
5	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
6	Nonparametric Data-Driven Modeling of Linear Systems: Estimating the Frequency Response and Impulse Response Function. IEEE Control Systems, 2018, 38, 49-88.	0.8	36
7	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
8	Practical Issues in the Synthesis of Ternary Sequences. IEEE Transactions on Instrumentation and Measurement, 2017, 66, 212-222.	4.7	18
9	Maternal gestational vitamin D supplementation and offspring bone health (MAVIDOS): a multicentre, double-blind, randomised placebo-controlled trial. Lancet Diabetes and Endocrinology,the, 2016, 4, 393-402.	11.4	188
10	Identification of multiâ€input systems using simultaneous perturbation by pseudorandom input signals. IET Control Theory and Applications, 2015, 9, 2283-2292.	2.1	16
11	Objectâ€oriented creation of input signals for system identification. IET Control Theory and Applications, 2014, 8, 821-829.	2.1	4
12	Parameterization of Linear Supply Functions in Nonlinear AC Electricity Market Equilibrium Modelsâ€"Part I: Literature Review and Equilibrium Algorithm. IEEE Transactions on Power Systems, 2013, 28, 650-658.	6.5	36
13	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
14	Structured nonâ€linear noise behaviour and the use of median averaging in nonâ€linear systems with m â€sequence inputs. IET Control Theory and Applications, 2013, 7, 997-1004.	2.1	2
15	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
16	Experimental verification of Best Linear Approximation of a wiener system for binary excitations. , 2012, , .		1
17	Identification of a Wienerâ€"Hammerstein system using an incremental nonlinear optimisation technique. Control Engineering Practice, 2012, 20, 1140-1148.	5.5	8
18	Analysis of Best Linear Approximation of a Wienerâ€"Hammerstein System for Arbitrary Amplitude Distributions. IEEE Transactions on Instrumentation and Measurement, 2012, 61, 645-654.	4.7	33

#	Article	IF	Citations
19	Modelling the Double Peak Phenomenon in pharmacokinetics. Computer Methods and Programs in Biomedicine, 2011, 104, 62-69.	4.7	60
20	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
21	A guide to the design and selection of perturbation signals. , 2009, , .		8
22	Design of Ternary Signals for MIMO Identification in the Presence of Noise and Nonlinear Distortion. IEEE Transactions on Control Systems Technology, 2009, 17, 926-933.	5.2	30
23	Exploration of the intercellular heterogeneity of topotecan uptake into human breast cancer cells through compartmental modelling. Mathematical Biosciences, 2008, 213, 119-134.	1.9	19
24	Impact of the Transformer Tap-Ratio Control on the Electricity Market Equilibrium. IEEE Transactions on Power Systems, 2008, 23, 65-75.	6.5	11
25	Modelling the Control of Cell Proliferation by An Anti-cancer Agent. Measurement and Control, 2007, 40, 12-15.	1.8	0
26	Modeling and Control of Wind Turbine with Doubly Fed Induction Generator. , 2006, , .		28
27	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
28	A survey of readily accessible perturbation signals for system identification in the frequency domain. Control Engineering Practice, 2005, 13, 1391-1402.	5.5	67
29	Application of multi-level signals to the identification of direction-dependent processes. Automatica, 2004, 40, 831-837.	5.0	1
30	A mathematical model for the in vitro kinetics of the anti-cancer agent topotecan. Mathematical Biosciences, 2004, 189, 185-217.	1.9	40
31	An identifiability analysis of a parent-metabolite pharmacokinetic model for ivabradine. Journal of Pharmacokinetics and Pharmacodynamics, 2001, 28, 93-105.	1.8	29
32	CODE: a deconvolution program implementing a regularization method of deconvolution constrained to non-negative values. Description and pilot evaluation. , 1998, 19, 39-53.		21
33	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
34	CODE: a deconvolution program implementing a regularization method of deconvolution constrained to nonâ€negative values. Description and pilot evaluation. Biopharmaceutics and Drug Disposition, 1998, 19, 39-53.	1.9	1
35	A comparison of six deconvolution techniques. Journal of Pharmacokinetics and Pharmacodynamics, 1996, 24, 283-299.	0.6	55
36	Indistinguishability for a class of nonlinear compartmental models. Mathematical Biosciences, 1994, 119, 77-95.	1.9	9

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37	Optimal tumor targeting by antibodies: Development of a mathematical model. Journal of Pharmacokinetics and Pharmacodynamics, 1991, 19, 227-260.	0.6	11
38	Identifiability and indistinguishability of linear compartmental models. Mathematics and Computers in Simulation, 1990, 32, 273-295.	4.4	33
39	The problem of model indistinguishability in pharmacokinetics. Journal of Pharmacokinetics and Pharmacodynamics, 1989, 17, 229-267.	0.6	21
40	Similarity transformation approach to identifiability analysis of nonlinear compartmental models. Mathematical Biosciences, 1989, 93, 217-248.	1.9	187
41	A methodology for compartmental model indistinguishability. Mathematical Biosciences, 1989, 96, 141-164.	1.9	12
42	Numerical deconvolution using system identification methods. Journal of Pharmacokinetics and Pharmacodynamics, 1988, 16, 85-107.	0.6	25
43	Regional specific mean expiratory gas flow from 81mKr equilibrium inhalation data. European Journal of Nuclear Medicine and Molecular Imaging, 1985, 10, 321-31.	2.1	0
44	Presenting mathematics in a firstâ€year engineering course at university. International Journal of Mathematical Education in Science and Technology, 1985, 16, 311-319.	1.4	1