

Daniel R Lewin

List of Publications by Year in descending order

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33
papers

819
citations

759233

12
h-index

477307

29
g-index

33
all docs

33
docs citations

33
times ranked

531
citing authors

#	ARTICLE	IF	CITATIONS
1	Model-based control of fuel cells: Journal of Power Sources, 2004, 135, 135-151.	7.8	169
2	A generalized method for HEN synthesis using stochastic optimization " II.. Computers and Chemical Engineering, 1998, 22, 1387-1405.	3.8	148
3	A generalized method for HEN synthesis using stochastic optimization " I. General framework and MER optimal synthesis. Computers and Chemical Engineering, 1998, 22, 1503-1513.	3.8	98
4	Automated nonlinear model predictive control using genetic programming. Computers and Chemical Engineering, 2002, 26, 631-640.	3.8	56
5	Improved PCA methods for process disturbance and failure identification. AIChE Journal, 1999, 45, 1688-1700.	3.6	55
6	Modeling and temperature control of rapid thermal processing. Computers and Chemical Engineering, 2006, 30, 686-697.	3.8	49
7	Model-based control of fuel cells (2): Optimal efficiency. Journal of Power Sources, 2007, 173, 298-309.	7.8	41
8	Adaptive genetic programming for steady-state process modeling. Computers and Chemical Engineering, 2004, 28, 2779-2790.	3.8	28
9	Feedforward control in the presence of uncertainty. Industrial & Engineering Chemistry Research, 1988, 27, 2323-2331.	3.7	24
10	Combining Six-Sigma with Integrated Design and Control for Yield Enhancement in Bioprocessing. Industrial & Engineering Chemistry Research, 2006, 45, 8299-8309.	3.7	23
11	Designing and implementing trajectories in an exothermic batch chemical reactor. Industrial & Engineering Chemistry Research, 1990, 29, 89-96.	3.7	15
12	A Steady-State Process Resiliency Index for Nonlinear Processes: " 1. Analysis. Industrial & Engineering Chemistry Research, 2003, 42, 4506-4511.	3.7	13
13	AUTOMATIC GENERATION OF LYAPUNOV FUNCTIONS USING GENETIC PROGRAMMING. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 75-80.	0.4	12
14	Curricular and pedagogical challenges for enhanced graduate attributes in CAPE. Computers and Chemical Engineering, 2009, 33, 1781-1792.	3.8	12
15	Tutorial paper Robust performance specifications for uncertain stable SISO systems. International Journal of Control, 1991, 53, 1263-1281.	1.9	9
16	EVOLUTIONARY ALGORITHMS IN CONTROL SYSTEM ENGINEERING. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 45-50.	0.4	8
17	The flip side of teaching process design and process control to chemical engineering undergraduates " And completely online to boot. Education for Chemical Engineers, 2022, 39, 44-57.	4.8	8
18	Modelling, simulation and control of a crude oil preheating furnace. Chemical Engineering Science, 1993, 48, 661-679.	3.8	7

#	ARTICLE	IF	CITATIONS
19	Lyapunov-based stability analysis automated by genetic programming. , 2006, , .		7
20	Lyapunov-based stability analysis automated by genetic programming. Automatica, 2009, 45, 252-256.	5.0	6
21	Teaching advanced process control to undergraduates. Computers and Chemical Engineering, 1996, 20, S1347-S1352.	3.8	5
22	Control of a pilot-scale Karr liquid-liquid extraction column. Computers and Chemical Engineering, 1997, 21, S601-S606.	3.8	5
23	What Can We Learn from Exam Grade Distributions?. International Journal for the Scholarship of Teaching and Learning, 2021, 15, .	0.5	5
24	The role of process system engineering (PSE) in integrated circuit (IC) manufacturing. Control Engineering Practice, 2007, 15, 793-802.	5.5	4
25	A Steady-State Resiliency Index for Nonlinear Processes:Â 2. Applications. Industrial & Engineering Chemistry Research, 2004, 43, 6453-6462.	3.7	3
26	FUEL EFFICIENT MODEL PREDICTIVE CONTROL OF PEM FUEL CELLS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 357-362.	0.4	3
27	Computerized batch process for treating electroplating wastes. Environmental Progress, 1991, 10, 234-239.	0.7	2
28	Teaching PSE mastery during, and after, the COVID-19 pandemic. Computers and Chemical Engineering, 2022, 160, 107741.	3.8	2
29	Assessing the Impact of Parametric Uncertainty on the Performance of Model-Based PCA. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2000, 33, 237-242.	0.4	1
30	MORE PROCESS SYSTEM ENGINEERING (PSE) APPLICATIONS IN IC MANUFACTURING. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 321-326.	0.4	1
31	Exothermic Batch Chemical Reactor Automation via Expert System. , 1990, , 267-294.		0
32	Robust nonlinear control of chemical reactors. AIChE Journal, 1998, 44, 993-998.	3.6	0
33	Fault detection in CMOS manufacturing using MBPCA. , 2000, 4182, 242.		0