

Chrysanthos E Gounaris

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

1,978
citations

331538

21
h-index

243529

44
g-index

63
all docs

63
docs citations

63
times ranked

1985
citing authors

#	ARTICLE	IF	CITATIONS
1	Robust vehicle routing under uncertainty via branch-price-and-cut. Optimization and Engineering, 2022, 23, 1895-1948.	1.3	4
2	Search methods for inorganic materials crystal structure prediction. Current Opinion in Chemical Engineering, 2022, 35, 100726.	3.8	11
3	MatOpt: A Python Package for Nanomaterials Design Using Discrete Optimization. Journal of Chemical Information and Modeling, 2022, 62, 295-308.	2.5	2
4	Vehicle routing with endogenous learning: Application to offshore plug and abandonment campaign planning. European Journal of Operational Research, 2021, 289, 93-106.	3.5	7
5	Designing stable bimetallic nanoclusters <i>via</i> an iterative two-step optimization approach. Molecular Systems Design and Engineering, 2021, 6, 545-557.	1.7	6
6	Robust Multiperiod Vehicle Routing Under Customer Order Uncertainty. Operations Research, 2021, 69, 30-60.	1.2	15
7	A generalized <i>cutting-set</i> approach for nonlinear robust optimization in process systems engineering. AIChE Journal, 2021, 67, e17175.	1.8	6
8	Mixed-integer linear optimization for full truckload pickup and delivery. Optimization Letters, 2021, 15, 1847-1863.	0.9	2
9	Portfolio-Wide Optimization of Pharmaceutical R&D Activities Using Mathematical Programming. Interfaces, 2021, 51, 262-279.	1.6	2
10	On tackling reverse convex constraints for non-overlapping of unequal circles. Journal of Global Optimization, 2021, 80, 357-385.	1.1	1
11	Generalized Hose uncertainty in single-commodity robust network design. Optimization Letters, 2020, 14, 925-944.	0.9	3
12	A preface to the special issue in memory of Professor Christodoulos A. Floudas. Optimization Letters, 2020, 14, 797-800.	0.9	0
13	K-adaptability in two-stage mixed-integer robust optimization. Mathematical Programming Computation, 2020, 12, 193-224.	3.2	24
14	Identification of optimally stable nanocluster geometries <i>via</i> mathematical optimization and density-functional theory. Molecular Systems Design and Engineering, 2020, 5, 232-244.	1.7	10
15	An Ontology to Describe Small Molecule Pharmaceutical Product Development and Methodology for Optimal Activity Scheduling. Journal of Pharmaceutical Innovation, 2020, , 1.	1.1	1
16	Robust Optimization of a Broad Class of Heterogeneous Vehicle Routing Problems Under Demand Uncertainty. INFORMS Journal on Computing, 2020, 32, 661-681.	1.0	21
17	Explicit model predictive controller under uncertainty: An adjustable robust optimization approach. Journal of Process Control, 2019, 84, 115-132.	1.7	13
18	Adjustable Robust Optimization for multi-tasking scheduling with reprocessing due to imperfect tasks. Optimization and Engineering, 2019, 20, 1117-1159.	1.3	8

#	ARTICLE	IF	CITATIONS
19	Multi-mode Resource Constrained Project Scheduling with Alternative Prerequisites: New Models and Computational Studies. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 18253-18266.	1.8	6
20	A preface to the special issue on enterprise-wide optimization. <i>Optimization and Engineering</i> , 2019, 20, 965-968.	1.3	2
21	Designing networks with resiliency to edge failures using two-stage robust optimization. <i>European Journal of Operational Research</i> , 2019, 279, 704-720.	3.5	25
22	A framework for optimizing oxygen vacancy formation in doped perovskites. <i>Computers and Chemical Engineering</i> , 2019, 126, 168-177.	2.0	20
23	Optimization-Based Design of Active and Stable Nanostructured Surfaces. <i>Journal of Physical Chemistry C</i> , 2019, 123, 29209-29218.	1.5	8
24	Robust optimization for decision-making under endogenous uncertainty. <i>Computers and Chemical Engineering</i> , 2018, 111, 252-266.	2.0	44
25	Theoretical and computational comparison of continuous-time process scheduling models for adjustable robust optimization. <i>AIChE Journal</i> , 2018, 64, 3055-3070.	1.8	10
26	A customized branch-and-bound approach for irregular shape nesting. <i>Journal of Global Optimization</i> , 2018, 71, 935-955.	1.1	10
27	A Decomposition Algorithm for the Consistent Traveling Salesman Problem with Vehicle Idling. <i>Transportation Science</i> , 2018, 52, 386-401.	2.6	20
28	A scenario decomposition algorithm for strategic time window assignment vehicle routing problems. <i>Transportation Research Part B: Methodological</i> , 2018, 117, 296-317.	2.8	29
29	Next Generation Multi-Scale Process Systems Engineering Framework. <i>Computer Aided Chemical Engineering</i> , 2018, , 2209-2214.	0.3	16
30	Design of Doped Perovskite Oxygen Carriers Using Mathematical Optimization. <i>Computer Aided Chemical Engineering</i> , 2018, 44, 2461-2466.	0.3	2
31	Comparison of Continuous-Time Models for Adjustable Robust Optimization in Process Scheduling under Uncertainty. <i>Computer Aided Chemical Engineering</i> , 2016, 38, 391-396.	0.3	3
32	A mathematical optimization framework for the design of nanopatterned surfaces. <i>AIChE Journal</i> , 2016, 62, 3250-3263.	1.8	16
33	Designing networks: A mixed-integer linear optimization approach. <i>Networks</i> , 2016, 68, 283-301.	1.6	4
34	Multi-stage adjustable robust optimization for process scheduling under uncertainty. <i>AIChE Journal</i> , 2016, 62, 1646-1667.	1.8	108
35	An Adaptive Memory Programming Framework for the Robust Capacitated Vehicle Routing Problem. <i>Transportation Science</i> , 2016, 50, 1239-1260.	2.6	48
36	A branch-and-cut framework for the consistent traveling salesman problem. <i>European Journal of Operational Research</i> , 2016, 248, 384-395.	3.5	27

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37	Catalyst Design Based on Morphology- and Environment-Dependent Adsorption on Metal Nanoparticles. ACS Catalysis, 2015, 5, 6296-6301.	5.5	49
38	Special issue on vehicle routing and scheduling: recent trends and advances. Optimization Letters, 2013, 7, 1399-1403.	0.9	1
39	The Robust Capacitated Vehicle Routing Problem Under Demand Uncertainty. Operations Research, 2013, 61, 677-693.	1.2	142
40	Predictive Framework for Shape-Selective Separations in Three-Dimensional Zeolites and Metal-Organic Frameworks. Langmuir, 2013, 29, 5599-5608.	1.6	47
41	Estimation of diffusion anisotropy in microporous crystalline materials and optimization of crystal orientation in membranes. Journal of Chemical Physics, 2013, 139, 124703.	1.2	5
42	Stereochemically Consistent Reaction Mapping and Identification of Multiple Reaction Mechanisms through Integer Linear Optimization. Journal of Chemical Information and Modeling, 2012, 52, 84-92.	2.5	33
43	Computational characterization of zeolite porous networks: an automated approach. Physical Chemistry Chemical Physics, 2011, 13, 17339.	1.3	179
44	Generation of networks with prescribed degree-dependent clustering. Optimization Letters, 2011, 5, 435-451.	0.9	10
45	Rational design of shape selective separations and catalysis: Lattice relaxation and effective aperture size. AIChE Journal, 2010, 56, 611-632.	1.8	5
46	Global Optimization and Parametric Analysis of Large-Scale Extended Pooling Problems. Computer Aided Chemical Engineering, 2010, 28, 847-852.	0.3	0
47	Convex relaxation for solving posynomial programs. Journal of Global Optimization, 2010, 46, 147-154.	1.1	18
48	Mathematical modeling and global optimization of large-scale extended pooling problems with the (EPA) complex emissions constraints. Computers and Chemical Engineering, 2010, 34, 1432-1456.	2.0	45
49	Search Engines for Shape Selectivity. Catalysis Letters, 2009, 133, 234-241.	1.4	13
50	A review of recent advances in global optimization. Journal of Global Optimization, 2009, 45, 3-38.	1.1	382
51	Adsorption of fermentation inhibitors from lignocellulosic biomass hydrolyzates for improved ethanol yield and value-added product recovery. Microporous and Mesoporous Materials, 2009, 122, 143-148.	2.2	92
52	Global Optimization of Gas Lifting Operations: A Comparative Study of Piecewise Linear Formulations. Industrial & Engineering Chemistry Research, 2009, 48, 6098-6104.	1.8	48
53	Computational Comparison of Piecewise-Linear Relaxations for Pooling Problems. Industrial & Engineering Chemistry Research, 2009, 48, 5742-5766.	1.8	176
54	Multidimensional Piecewise-Affine Approximations for Gas Lifting and Pooling Applications. , 2009, , 887-896.		0

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55	Tight convex underestimators for \mathcal{C}^2 -continuous problems: I. univariate functions. Journal of Global Optimization, 2008, 42, 51-67.	1.1	23
56	Tight convex underestimators for \mathcal{C}^2 -continuous problems: II. multivariate functions. Journal of Global Optimization, 2008, 42, 69-89.	1.1	35
57	Convexity of Products of Univariate Functions and Convexification Transformations for Geometric Programming. Journal of Optimization Theory and Applications, 2008, 138, 407-427.	0.8	17
58	Rational design of shape selective separation and catalysis II: Mathematical model and computational studies. Chemical Engineering Science, 2006, 61, 7949-7962.	1.9	29
59	Rational design of shape selective separation and catalysis I: Concepts and analysis. Chemical Engineering Science, 2006, 61, 7933-7948.	1.9	45
60	Modelling of the performance of industrial HDS reactors using a hybrid neural network approach. Chemical Engineering and Processing: Process Intensification, 2005, 44, 505-515.	1.8	49