

Xiang Li

List of Publications by Year in descending order

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20
papers

359
citations

1163117

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19
g-index

20
all docs

20
docs citations

20
times ranked

318
citing authors

#	ARTICLE	IF	CITATIONS
1	On steady state modelling for optimization of natural gas pipeline networks. Chemical Engineering Science, 2022, 255, 117636.	3.8	6
2	Discretization and global optimization for mixed integer bilinear programming. Journal of Global Optimization, 2022, 84, 843-867.	1.8	2
3	On the P-formulation and the split-fraction-formulation for the generalized pooling problem. Computers and Chemical Engineering, 2022, 164, 107893.	3.8	4
4	Nonconvex multivariate piecewise-linear fitting using the difference-of-convex representation. Computers and Chemical Engineering, 2021, 150, 107310.	3.8	9
5	A multi-commodity flow formulation for the optimal design of wastewater treatment networks. Computers and Chemical Engineering, 2020, 134, 106681.	3.8	5
6	Optimal utilization of natural gas pipeline storage capacity under future supply uncertainty. Computers and Chemical Engineering, 2020, 139, 106882.	3.8	20
7	A Critical Review of the Modeling and Optimization of Combined Heat and Power Dispatch. Processes, 2020, 8, 441.	2.8	20
8	A joint decomposition method for global optimization of multiscenario nonconvex mixed-integer nonlinear programs. Journal of Global Optimization, 2019, 75, 595-629.	1.8	6
9	New Multi-Commodity Flow Formulations for the Generalized Pooling Problem. IFAC-PapersOnLine, 2018, 51, 162-167.	0.9	3
10	Approximating Nonlinear Relationships for Optimal Operation of Natural Gas Transport Networks. Processes, 2018, 6, 198.	2.8	11
11	Extended cross decomposition for mixed-integer linear programs with strong and weak linking constraints. Computers and Chemical Engineering, 2018, 119, 237-257.	3.8	2
12	A new cross decomposition method for stochastic mixed-integer linear programming. European Journal of Operational Research, 2017, 256, 487-499.	5.7	13
13	A new optimization model and a customized solution method for natural gas production network design and operation. AIChE Journal, 2017, 63, 933-948.	3.6	2
14	Global optimization of an industrial natural gas production network—The authors are grateful to the financial support from National Science and Engineering Research Council of Canada (RGPIN) Tj ETQq0 0 0 rgBT /Ovep lock 102f 50 217		
15	Novel formulation and efficient solution strategy for strategic optimization of an industrial chemical supply chain under demand uncertainty. Canadian Journal of Chemical Engineering, 2015, 93, 971-985.	1.7	4
16	Multicolumn-multicut cross decomposition for stochastic mixed-integer linear programming. Computer Aided Chemical Engineering, 2015, , 737-742.	0.5	2
17	Robust Scenario Formulations for Strategic Supply Chain Optimization under Uncertainty. Industrial & Engineering Chemistry Research, 2013, 52, 5721-5734.	3.7	26
18	Nonconvex Generalized Benders Decomposition with Piecewise Convex Relaxations for Global Optimization of Integrated Process Design and Operation Problems. Industrial & Engineering Chemistry Research, 2012, 51, 7287-7299.	3.7	50

#	ARTICLE	IF	CITATIONS
19	Nonconvex Generalized Benders Decomposition for Stochastic Separable Mixed-Integer Nonlinear Programs. <i>Journal of Optimization Theory and Applications</i> , 2011, 151, 425-454.	1.5	81
20	Stochastic pooling problem for natural gas production network design and operation under uncertainty. <i>AIChE Journal</i> , 2011, 57, 2120-2135.	3.6	91