Xiang Li

List of Publications by Year
in descending order

20 papers	359 citations	1163117 8 h-index	794594 19 g-index
20 all docs	20 docs citations	20 times ranked	318 citing authors

#	ARTICLE	IF	CITATIONS
1	Stochastic pooling problem for natural gas production network design and operation under uncertainty. AICHE Journal, 2011, 57, 2120-2135.	3.6	91
2	Nonconvex Generalized Benders Decomposition for Stochastic Separable Mixed-Integer Nonlinear Programs. Journal of Optimization Theory and Applications, 2011, 151, 425-454.	1.5	81
3	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
4	Robust Scenario Formulations for Strategic Supply Chain Optimization under Uncertainty. Industrial & Engineering Chemistry Research, 2013, 52, 5721-5734.	3.7	26
5	Optimal utilization of natural gas pipeline storage capacity under future supply uncertainty. Computers and Chemical Engineering, 2020, 139, 106882.	3.8	20
6	A Critical Review of the Modeling and Optimization of Combined Heat and Power Dispatch. Processes, 2020, 8, 441.	2.8	20
7	A new cross decomposition method for stochastic mixed-integer linear programming. European Journal of Operational Research, 2017, 256, 487-499.	5.7	13
8	Approximating Nonlinear Relationships for Optimal Operation of Natural Gas Transport Networks. Processes, 2018, 6, 198.	2.8	11
9	Nonconvex multivariate piecewise-linear fitting using the difference-of-convex representation. Computers and Chemical Engineering, 2021, 150, 107310.	3.8	9
10	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
11	On steady state modelling for optimization of natural gas pipeline networks. Chemical Engineering Science, 2022, 255, 117636.	3.8	6
12	A multi-commodity flow formulation for the optimal design of wastewater treatment networks. Computers and Chemical Engineering, 2020, 134, 106681.	3.8	5
13	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
14	On the P-formulation and the split-fraction-formulation for the generalized pooling problem. Computers and Chemical Engineering, 2022, 164, 107893.	3.8	4
15	New Multi-Commodity Flow Formulations for the Generalized Pooling Problem. IFAC-PapersOnLine, 2018, 51, 162-167.	0.9	3
16	Global optimization of an industrial natural gas production networkâˆ'âˆ'The authors are grateful to the financial support from National Science and Engineering Research Council of Canada (RGPIN) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 137	0.9	2
17	Multicolumn-multicut cross decomposition for stochastic mixed-integer linear programming. Computer Aided Chemical Engineering, 2015, , 737-742.	0.5	2
18	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

#	Article	IF	Citations
19	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
20	Discretization and global optimization for mixed integer bilinear programming. Journal of Global Optimization, 2022, 84, 843-867.	1.8	2