

Mohit Tawarmalani

List of Publications by Citations

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54
papers

2,840
citations

22
h-index

53
g-index

58
ext. papers

3,110
ext. citations

3.3
avg, IF

5.44
L-index

#	Paper	IF	Citations
54	A polyhedral branch-and-cut approach to global optimization. <i>Mathematical Programming</i> , 2005 , 103, 225-249	2.1	843
53	Global optimization of mixed-integer nonlinear programs: A theoretical and computational study. <i>Mathematical Programming</i> , 2004 , 99, 563-591	2.1	377
52	Convexification and Global Optimization in Continuous and Mixed-Integer Nonlinear Programming. <i>Nonconvex Optimization and Its Applications</i> , 2002 ,		329
51	A finite branch-and-bound algorithm for two-stage stochastic integer programs. <i>Mathematical Programming</i> , 2004 , 100, 355-377	2.1	140
50	A Lagrangian Approach to the Pooling Problem. <i>Industrial & Engineering Chemistry Research</i> , 1999 , 38, 1956-1972	3.9	101
49	Semidefinite Relaxations of Fractional Programs via Novel Convexification Techniques. <i>Journal of Global Optimization</i> , 2001 , 20, 133-154	1.5	88
48	Convex extensions and envelopes of lower semi-continuous functions. <i>Mathematical Programming</i> , 2002 , 93, 247-263	2.1	85
47	Design of alternative refrigerants via global optimization. <i>AIChE Journal</i> , 2003 , 49, 1761-1775	3.6	84
46	Cloudward bound. <i>Computer Communication Review</i> , 2010 , 40, 243-254	1.4	75
45	Semidefinite relaxations for quadratically constrained quadratic programming: A review and comparisons. <i>Mathematical Programming</i> , 2011 , 129, 129-157	2.1	70
44	Multiterm polyhedral relaxations for nonconvex, quadratically constrained quadratic programs. <i>Optimization Methods and Software</i> , 2009 , 24, 485-504	1.3	65
43	Explicit convex and concave envelopes through polyhedral subdivisions. <i>Mathematical Programming</i> , 2013 , 138, 531-577	2.1	47
42	Global Optimization of 0-1 Hyperbolic Programs. <i>Journal of Global Optimization</i> , 2002 , 24, 385-416	1.5	42
41	Thermal coupling links to liquid-only transfer streams: A path for new dividing wall columns. <i>AIChE Journal</i> , 2014 , 60, 2949-2961	3.6	41
40	Applications of global optimization to process and molecular design. <i>Computers and Chemical Engineering</i> , 2000 , 24, 2157-2169	4	39
39	Global optimization of multicomponent distillation configurations: 2. Enumeration based global minimization algorithm. <i>AIChE Journal</i> , 2016 , 62, 2071-2086	3.6	36
38	Global optimization of nonconvex problems with multilinear intermediates. <i>Mathematical Programming Computation</i> , 2015 , 7, 1-37	7.8	29

37	Accelerating Branch-and-Bound through a Modeling Language Construct for Relaxation-Specific Constraints. <i>Journal of Global Optimization</i> , 2005 , 32, 259-280	1.5	27
36	A systematic method to synthesize all dividing wall columns for n-component separation Part I. <i>AICHE Journal</i> , 2018 , 64, 649-659	3.6	26
35	Strong valid inequalities for orthogonal disjunctions and bilinear covering sets. <i>Mathematical Programming</i> , 2010 , 124, 481-512	2.1	25
34	A systematic method to synthesize all dividing wall columns for n-component separation: Part II. <i>AICHE Journal</i> , 2018 , 64, 660-672	3.6	22
33	Global optimization of multicomponent distillation configurations: 1. Need for a reliable global optimization algorithm. <i>AICHE Journal</i> , 2013 , 59, 971-981	3.6	22
32	Lifting inequalities: a framework for generating strong cuts for nonlinear programs. <i>Mathematical Programming</i> , 2010 , 121, 61-104	2.1	19
31	Thermal coupling links to liquid-only transfer streams: An enumeration method for new FTC dividing wall columns. <i>AICHE Journal</i> , 2016 , 62, 1200-1211	3.6	17
30	An MINLP formulation for the optimization of multicomponent distillation configurations. <i>Computers and Chemical Engineering</i> , 2019 , 125, 13-30	4	16
29	Product Disaggregation in Global Optimization and Relaxations of Rational Programs. <i>Optimization and Engineering</i> , 2002 , 3, 281-303	2.1	15
28	Short-Cut Methods versus Rigorous Methods for Performance-Evaluation of Distillation Configurations. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 7726-7731	3.9	14
27	Global optimization of multicomponent distillation configurations: Global minimization of total cost for multicomponent mixture separations. <i>Computers and Chemical Engineering</i> , 2019 , 126, 249-262	4	12
26	Round-the-clock power supply and a sustainable economy via synergistic integration of solar thermal power and hydrogen processes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 15821-6	11.5	12
25	Synthesis of augmented biofuel processes using solar energy. <i>AICHE Journal</i> , 2014 , 60, 2533-2545	3.6	12
24	Minimum energy of multicomponent distillation systems using minimum additional heat and mass integration sections. <i>AICHE Journal</i> , 2018 , 64, 3410-3418	3.6	11
23	Economic and Policy Implications of Restricted Patch Distribution. <i>Management Science</i> , 2016 , 62, 3161-3182	3.182	11
22	Deriving convex hulls through lifting and projection. <i>Mathematical Programming</i> , 2018 , 169, 377-415	2.1	10
21	A New Framework for Combining a Condenser and Reboiler in a Configuration To Consolidate Distillation Columns. <i>Industrial & Engineering Chemistry Research</i> , 2015 , 54, 10449-10464	3.9	8
20	110th Anniversary: Thermal Coupling via Heat Transfer: A Potential Route to Simple Distillation Configurations with Lower Heat Duty. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 21671-21678	3.9	7

19	Convexification Techniques for Linear Complementarity Constraints. <i>Lecture Notes in Computer Science</i> , 2011 , 336-348	0.9	7
18	Simultaneous Convexification of Bilinear Functions over Polytopes with Application to Network Interdiction. <i>SIAM Journal on Optimization</i> , 2017 , 27, 1801-1833	2	6
17	Multi-period maintenance scheduling of tree networks with minimum flow disruption. <i>Naval Research Logistics</i> , 2011 , 58, 507-530	1.5	6
16	Systematic Analysis Reveals Thermal Separations Are Not Necessarily Most Energy Intensive. <i>Joule</i> , 2021 , 5, 330-343	27.8	6
15	Cardinality Bundling with Spence-Mirrlees Reservation Prices. <i>Management Science</i> , 2019 , 65, 1891-1908	3.9	5
14	Global minimization of total exergy loss of multicomponent distillation configurations. <i>AICHE Journal</i> , 2019 , 65, e16737	3.6	5
13	Modified basic distillation configurations with intermediate sections for energy savings. <i>AICHE Journal</i> , 2014 , 60, 1091-1097	3.6	5
12	Allocating Objects in a Network of Caches: Centralized and Decentralized Analyses. <i>Management Science</i> , 2009 , 55, 132-147	3.9	5
11	Integrated Solar Thermal Hydrogen and Power Coproduction Process for Continuous Power Supply and Production of Chemicals. <i>Computer Aided Chemical Engineering</i> , 2015 , 37, 2291-2296	0.6	4
10	Optimal design of membrane cascades for gaseous and liquid mixtures via MINLP. <i>Journal of Membrane Science</i> , 2021 , 636, 119514	9.6	3
9	Optimal Multicomponent Distillation Column Sequencing: Software and Case Studies. <i>Computer Aided Chemical Engineering</i> , 2018 , 44, 223-228	0.6	2
8	Lifted inequalities for $(0,1)$ mixed-integer bilinear covering sets. <i>Mathematical Programming</i> , 2014 , 145, 403-450	2.1	2
7	Lancet. <i>Performance Evaluation Review</i> , 2020 , 48, 53-54	0.4	2
6	Lancet: Better Network Resilience by Designing for Pruned Failure Sets. <i>Proceedings of the ACM on Measurement and Analysis of Computing Systems</i> , 2019 , 3, 1-26	1.4	2
5	A Simple Criterion for Feasibility of Heat Integration between Distillation Streams Based on Relative Volatilities. <i>Industrial & Engineering Chemistry Research</i> , 2021 , 60, 10286-10302	3.9	2
4	On cutting planes for cardinality-constrained linear programs. <i>Mathematical Programming</i> , 2019 , 178, 417-448	2.1	1
3	D-tunes. <i>Computer Communication Review</i> , 2013 , 43, 483-484	1.4	0
2	A new framework to relax composite functions in nonlinear programs. <i>Mathematical Programming</i> , 2020 , 190, 427	2.1	0

- 1 Convexification techniques for linear complementarity constraints. *Journal of Global Optimization*, **2021**, 80, 249-286 1.5