

# Mohit Tawarmalani

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/8657764/mohit-tawarmalani-publications-by-year.pdf>

**Version:** 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Convexification techniques for linear complementarity constraints. <i>Journal of Global Optimization</i> , <b>2021</b> , 80, 249-286	1.5	
53	Systematic Analysis Reveals Thermal Separations Are Not Necessarily Most Energy Intensive. <i>Joule</i> , <b>2021</b> , 5, 330-343	27.8	6
52	A Simple Criterion for Feasibility of Heat Integration between Distillation Streams Based on Relative Volatilities. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2021</b> , 60, 10286-10302	3.9	2
51	Optimal design of membrane cascades for gaseous and liquid mixtures via MINLP. <i>Journal of Membrane Science</i> , <b>2021</b> , 636, 119514	9.6	3
50	Lancet. <i>Performance Evaluation Review</i> , <b>2020</b> , 48, 53-54	0.4	2
49	A new framework to relax composite functions in nonlinear programs. <i>Mathematical Programming</i> , <b>2020</b> , 190, 427	2.1	0
48	An MINLP formulation for the optimization of multicomponent distillation configurations. <i>Computers and Chemical Engineering</i> , <b>2019</b> , 125, 13-30	4	16
47	Global optimization of multicomponent distillation configurations: Global minimization of total cost for multicomponent mixture separations. <i>Computers and Chemical Engineering</i> , <b>2019</b> , 126, 249-262	4	12
46	On cutting planes for cardinality-constrained linear programs. <i>Mathematical Programming</i> , <b>2019</b> , 178, 417-448	2.1	1
45	Cardinality Bundling with Spence-Mirrlees Reservation Prices. <i>Management Science</i> , <b>2019</b> , 65, 1891-1908	3.9	5
44	Global minimization of total exergy loss of multicomponent distillation configurations. <i>AICHE Journal</i> , <b>2019</b> , 65, e16737	3.6	5
43	110th Anniversary: Thermal Coupling via Heat Transfer: A Potential Route to Simple Distillation Configurations with Lower Heat Duty. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2019</b> , 58, 21671-21678	3.9	7
42	Lancet: Better Network Resilience by Designing for Pruned Failure Sets. <i>Proceedings of the ACM on Measurement and Analysis of Computing Systems</i> , <b>2019</b> , 3, 1-26	1.4	2
41	Minimum energy of multicomponent distillation systems using minimum additional heat and mass integration sections. <i>AICHE Journal</i> , <b>2018</b> , 64, 3410-3418	3.6	11
40	Deriving convex hulls through lifting and projection. <i>Mathematical Programming</i> , <b>2018</b> , 169, 377-415	2.1	10
39	A systematic method to synthesize all dividing wall columns for n-component separation: Part II. <i>AICHE Journal</i> , <b>2018</b> , 64, 660-672	3.6	22
38	A systematic method to synthesize all dividing wall columns for n-component separation Part I. <i>AICHE Journal</i> , <b>2018</b> , 64, 649-659	3.6	26

37	Optimal Multicomponent Distillation Column Sequencing: Software and Case Studies. <i>Computer Aided Chemical Engineering</i> , <b>2018</b> , 44, 223-228	0.6	2
36	Short-Cut Methods versus Rigorous Methods for Performance-Evaluation of Distillation Configurations. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2018</b> , 57, 7726-7731	3.9	14
35	Simultaneous Convexification of Bilinear Functions over Polytopes with Application to Network Interdiction. <i>SIAM Journal on Optimization</i> , <b>2017</b> , 27, 1801-1833	2	6
34	Global optimization of multicomponent distillation configurations: 2. Enumeration based global minimization algorithm. <i>AIChE Journal</i> , <b>2016</b> , 62, 2071-2086	3.6	36
33	Thermal coupling links to liquid-only transfer streams: An enumeration method for new FTC dividing wall columns. <i>AIChE Journal</i> , <b>2016</b> , 62, 1200-1211	3.6	17
32	Economic and Policy Implications of Restricted Patch Distribution. <i>Management Science</i> , <b>2016</b> , 62, 3161-3182	3.8	11
31	Global optimization of nonconvex problems with multilinear intermediates. <i>Mathematical Programming Computation</i> , <b>2015</b> , 7, 1-37	7.8	29
30	Integrated Solar Thermal Hydrogen and Power Coproduction Process for Continuous Power Supply and Production of Chemicals. <i>Computer Aided Chemical Engineering</i> , <b>2015</b> , 37, 2291-2296	0.6	4
29	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> , <b>2015</b> , 112, 15821-6	11.5	12
28	A New Framework for Combining a Condenser and Reboiler in a Configuration To Consolidate Distillation Columns. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2015</b> , 54, 10449-10464	3.9	8
27	Modified basic distillation configurations with intermediate sections for energy savings. <i>AIChE Journal</i> , <b>2014</b> , 60, 1091-1097	3.6	5
26	Lifted inequalities for $(0,1)$ mixed-integer bilinear covering sets. <i>Mathematical Programming</i> , <b>2014</b> , 145, 403-450	2.1	2
25	Thermal coupling links to liquid-only transfer streams: A path for new dividing wall columns. <i>AIChE Journal</i> , <b>2014</b> , 60, 2949-2961	3.6	41
24	Synthesis of augmented biofuel processes using solar energy. <i>AIChE Journal</i> , <b>2014</b> , 60, 2533-2545	3.6	12
23	Global optimization of multicomponent distillation configurations: 1. Need for a reliable global optimization algorithm. <i>AIChE Journal</i> , <b>2013</b> , 59, 971-981	3.6	22
22	Explicit convex and concave envelopes through polyhedral subdivisions. <i>Mathematical Programming</i> , <b>2013</b> , 138, 531-577	2.1	47
21	D-tunes. <i>Computer Communication Review</i> , <b>2013</b> , 43, 483-484	1.4	0
20	Semidefinite relaxations for quadratically constrained quadratic programming: A review and comparisons. <i>Mathematical Programming</i> , <b>2011</b> , 129, 129-157	2.1	70

19	Multi-period maintenance scheduling of tree networks with minimum flow disruption. <i>Naval Research Logistics</i> , <b>2011</b> , 58, 507-530	1.5	6
18	Convexification Techniques for Linear Complementarity Constraints. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 336-348	0.9	7
17	Cloudward bound. <i>Computer Communication Review</i> , <b>2010</b> , 40, 243-254	1.4	75
16	Lifting inequalities: a framework for generating strong cuts for nonlinear programs. <i>Mathematical Programming</i> , <b>2010</b> , 121, 61-104	2.1	19
15	Strong valid inequalities for orthogonal disjunctions and bilinear covering sets. <i>Mathematical Programming</i> , <b>2010</b> , 124, 481-512	2.1	25
14	Multiterm polyhedral relaxations for nonconvex, quadratically constrained quadratic programs. <i>Optimization Methods and Software</i> , <b>2009</b> , 24, 485-504	1.3	65
13	Allocating Objects in a Network of Caches: Centralized and Decentralized Analyses. <i>Management Science</i> , <b>2009</b> , 55, 132-147	3.9	5
12	A polyhedral branch-and-cut approach to global optimization. <i>Mathematical Programming</i> , <b>2005</b> , 103, 225-249	2.1	843
11	Accelerating Branch-and-Bound through a Modeling Language Construct for Relaxation-Specific Constraints. <i>Journal of Global Optimization</i> , <b>2005</b> , 32, 259-280	1.5	27
10	Global optimization of mixed-integer nonlinear programs: A theoretical and computational study. <i>Mathematical Programming</i> , <b>2004</b> , 99, 563-591	2.1	377
9	A finite branch-and-bound algorithm for two-stage stochastic integer programs. <i>Mathematical Programming</i> , <b>2004</b> , 100, 355-377	2.1	140
8	Design of alternative refrigerants via global optimization. <i>AIChE Journal</i> , <b>2003</b> , 49, 1761-1775	3.6	84
7	Convex extensions and envelopes of lower semi-continuous functions. <i>Mathematical Programming</i> , <b>2002</b> , 93, 247-263	2.1	85
6	Product Disaggregation in Global Optimization and Relaxations of Rational Programs. <i>Optimization and Engineering</i> , <b>2002</b> , 3, 281-303	2.1	15
5	Global Optimization of 0-1 Hyperbolic Programs. <i>Journal of Global Optimization</i> , <b>2002</b> , 24, 385-416	1.5	42
4	Convexification and Global Optimization in Continuous and Mixed-Integer Nonlinear Programming. <i>Nonconvex Optimization and Its Applications</i> , <b>2002</b> ,		329
3	Semidefinite Relaxations of Fractional Programs via Novel Convexification Techniques. <i>Journal of Global Optimization</i> , <b>2001</b> , 20, 133-154	1.5	88
2	Applications of global optimization to process and molecular design. <i>Computers and Chemical Engineering</i> , <b>2000</b> , 24, 2157-2169	4	39

- 1 A Lagrangian Approach to the Pooling Problem. *Industrial & Engineering Chemistry Research*, **1999**, 38, 1956-1972 3.9 101