

Robert Michael Lewis

List of Publications by Year in descending order

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15
papers

3,457
citations

949033

11
h-index

1113639

15
g-index

18
all docs

18
docs citations

18
times ranked

2840
citing authors

#	ARTICLE	IF	CITATIONS
1	Using inexact gradients in a multilevel optimization algorithm. Computational Optimization and Applications, 2013, 56, 39-61.	0.9	8
2	Optimization Algorithms for Hierarchical Problems with Application to Nanoporous Materials. SIAM Journal on Optimization, 2012, 22, 1285-1308.	1.2	4
3	Assessing the performance of an optimization-based multilevel method. Optimization Methods and Software, 2011, 26, 693-717.	1.6	8
4	Active Set Identification for Linearly Constrained Minimization Without Explicit Derivatives. SIAM Journal on Optimization, 2010, 20, 1378-1405.	1.2	7
5	Asynchronous Parallel Generating Set Search for Linearly Constrained Optimization. SIAM Journal of Scientific Computing, 2008, 30, 1892-1924.	1.3	32
6	Stationarity Results for Generating Set Search for Linearly Constrained Optimization. SIAM Journal on Optimization, 2007, 17, 943-968.	1.2	63
7	Implementing Generating Set Search Methods for Linearly Constrained Minimization. SIAM Journal of Scientific Computing, 2007, 29, 2507-2530.	1.3	84
8	Model Problems for the Multigrid Optimization of Systems Governed by Differential Equations. SIAM Journal of Scientific Computing, 2005, 26, 1811-1837.	1.3	73
9	Optimization by Direct Search: New Perspectives on Some Classical and Modern Methods. SIAM Review, 2003, 45, 385-482.	4.2	1,301
10	On the Local Convergence of Pattern Search. SIAM Journal on Optimization, 2003, 14, 567-583.	1.2	169
11	A Globally Convergent Augmented Lagrangian Pattern Search Algorithm for Optimization with General Constraints and Simple Bounds. SIAM Journal on Optimization, 2002, 12, 1075-1089.	1.2	245
12	Approximation and Model Management in Aerodynamic Optimization with Variable-Fidelity Models. Journal of Aircraft, 2001, 38, 1093-1101.	1.7	249
13	Direct search methods: then and now. Journal of Computational and Applied Mathematics, 2000, 124, 191-207.	1.1	509
14	Pattern Search Methods for Linearly Constrained Minimization. SIAM Journal on Optimization, 2000, 10, 917-941.	1.2	318
15	Pattern Search Algorithms for Bound Constrained Minimization. SIAM Journal on Optimization, 1999, 9, 1082-1099.	1.2	382