

# Marcus

## List of Publications by Year in descending order

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91  
papers

1,251  
citations

516681

16  
h-index

454934

30  
g-index

91  
all docs

91  
docs citations

91  
times ranked

1090  
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimal Charging of Electric Vehicles Taking Distribution Network Constraints Into Account. IEEE Transactions on Power Systems, 2015, 30, 365-375.	6.5	181
2	A Comparative Testing Study of Commercial 18650-Format Lithium-Ion Battery Cells. Journal of the Electrochemical Society, 2015, 162, A1592-A1600.	2.9	84
3	A Market Mechanism for Electric Vehicle Charging Under Network Constraints. IEEE Transactions on Smart Grid, 2016, 7, 827-836.	9.0	66
4	On the history of the Euclidean Steiner tree problem. Archive for History of Exact Sciences, 2014, 68, 327-354.	0.5	58
5	Translational packing of arbitrary polytopes. Computational Geometry: Theory and Applications, 2009, 42, 269-288.	0.5	47
6	Power Sharing in Angle Droop Controlled Microgrids. IEEE Transactions on Power Systems, 2017, 32, 4743-4751.	6.5	45
7	A Multi-Factor Battery Cycle Life Prediction Methodology for Optimal Battery Management. , 2015, , .		40
8	Network optimization for the design of underground mines. Networks, 2007, 49, 40-50.	2.7	35
9	Electric vehicle charging and grid constraints: Comparing distributed and centralized approaches. , 2013, , .		33
10	Optimisation in Underground Mining. , 2007, , 561-577.		32
11	The importance of spatial distribution when analysing the impact of electric vehicles on voltage stability in distribution networks. Energy Systems, 2015, 6, 63-84.	3.0	32
12	Optimal Interconnection Trees in the Plane. Algorithms and Combinatorics, 2015, , .	0.6	28
13	Combined optimisation of an open-pit mine outline and the transition depth to underground mining. European Journal of Operational Research, 2018, 268, 624-634.	5.7	28
14	Bayesian node localisation in wireless sensor networks. Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, 2008, , .	1.8	26
15	Minimum Networks in Uniform Orientation Metrics. SIAM Journal on Computing, 2000, 30, 1579-1593.	1.0	25
16	Gradient-constrained minimum networks. I. Fundamentals. Journal of Global Optimization, 2001, 21, 139-155.	1.8	24
17	Optimising declines in underground mines. Mining Technology: Transactions of the Institute of Materials, Minerals and Mining Section A, 2003, 112, 164-170.	0.8	24
18	Cost Optimisation for Underground Mining Networks. Optimization and Engineering, 2005, 6, 241-256.	2.4	20

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19	Hyperbolic Positioning Using RIPS Measurements for Wireless Sensor Networks. Networks, 2008 ICON 2008 16th IEEE International Conference on, 2007, , .	0.0	17
20	Minimal Steiner Trees for $2k \times 2k$ Square Lattices. Journal of Combinatorial Theory - Series A, 1996, 73, 91-110.	0.8	16
21	Canonical Forms and Algorithms for Steiner Trees in Uniform Orientation Metrics. Algorithmica, 2006, 44, 281-300.	1.3	16
22	A novel approach to phylogenetic trees: $d$ -Dimensional geometric Steiner trees. Networks, 2009, 53, 104-111.	2.7	15
23	Curvature-constrained directional-cost paths in the plane. Journal of Global Optimization, 2012, 53, 663-681.	1.8	15
24	Decline design in underground mines using constrained path optimisation. Mining Technology: Transactions of the Institute of Materials, Minerals and Mining Section A, 2008, 117, 93-99.	0.8	14
25	Growth functions for some nonautomatic Baumslag-Solitar groups. Transactions of the American Mathematical Society, 1994, 342, 137-154.	0.9	14
26	A Physarum-Inspired Algorithm for Minimum-Cost Relay Node Placement in Wireless Sensor Networks. IEEE/ACM Transactions on Networking, 2020, 28, 681-694.	3.8	13
27	Minimal Steiner Trees for Rectangular Arrays of Lattice Points. Journal of Combinatorial Theory - Series A, 1997, 79, 181-208.	0.8	12
28	Full Minimal Steiner Trees on Lattice Sets. Journal of Combinatorial Theory - Series A, 1997, 78, 51-91.	0.8	12
29	Gradient-constrained minimal Steiner trees. DIMACS Series in Discrete Mathematics and Theoretical Computer Science, 1998, , 23-38.	0.0	11
30	MONOID GROWTH FUNCTIONS FOR BRAID GROUPS. International Journal of Algebra and Computation, 1991, 01, 201-205.	0.5	10
31	Steiner trees for fixed orientation metrics. Journal of Global Optimization, 2009, 43, 141-169.	1.8	10
32	The bottleneck $2$ -connected $k$ -Steiner network problem for $k$ -Steiner network $k$ $k$ $\%$ $2$ Discrete Applied Mathematics, 2012, 160, 1028-1038.	0.9	10
33	On making energy demand and network constraints compatible in the last mile of the power grid. Annual Reviews in Control, 2014, 38, 243-258.	7.9	10
34	Local measurements and virtual pricing signals for residential demand side management. Sustainable Energy, Grids and Networks, 2015, 4, 62-71.	3.9	10
35	Generalised $k$ -Steiner Tree Problems in Normed Planes. Algorithmica, 2015, 71, 66-86.	1.3	10
36	On the Complexity of the Steiner Problem. Journal of Combinatorial Optimization, 2000, 4, 187-195.	1.3	9

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37	The Fast Heuristic Algorithms and Post-Processing Techniques to Design Large and Low-Cost Communication Networks. IEEE/ACM Transactions on Networking, 2019, 27, 375-388.	3.8	9
38	Network modelling of underground mine layout: two case studies. International Transactions in Operational Research, 2007, 14, 143-158.	2.7	8
39	Gradient-constrained minimum networks (II). Labelled or locally minimal Steiner points. Journal of Global Optimization, 2008, 42, 23-37.	1.8	8
40	Improving Underground Mine Access Layouts Using Software Tools. Interfaces, 2014, 44, 195-203.	1.5	8
41	Optimum ramp design in open pit mines. Computers and Operations Research, 2020, 115, 104739.	4.0	8
42	Maximal Subgroups of Infinite Symmetric Groups. Proceedings of the London Mathematical Society, 1994, s3-68, 77-111.	1.3	7
43	Locally minimal uniformly oriented shortest networks. Discrete Applied Mathematics, 2006, 154, 2545-2564.	0.9	7
44	Relay augmentation for lifetime extension of wireless sensor networks. IET Wireless Sensor Systems, 2013, 3, 145-152.	1.7	7
45	A distributed electric vehicle charging management algorithm using only local measurements. , 2014, , .		7
46	Power sharing correction in angle droop controlled inverter interfaced microgrids. , 2015, , .		7
47	Stability and active power sharing in droop controlled inverter interfaced microgrids: Effect of clock mismatches. Automatica, 2018, 93, 469-475.	5.0	7
48	Maximizing the net present value of a Steiner tree. Journal of Global Optimization, 2015, 62, 391-407.	1.8	6
49	Steiner Minimum Trees in Uniform Orientation Metrics. Combinatorial Optimization, 2001, , 1-27.	0.7	6
50	Growth functions for some one-relator monoids. Communications in Algebra, 1993, 21, 3135-3146.	0.6	5
51	Forbidden subpaths for Steiner minimum networks in uniform orientation metrics. Networks, 2002, 39, 186-202.	2.7	5
52	Upper and Lower Bounds for the Lengths of Steiner Trees in 3-Space. Geometriae Dedicata, 2004, 109, 107-119.	0.3	5
53	Modeling reversible self-discharge in series-connected Li-ion battery cells. , 2013, , .		5
54	Electric Vehicle Charging: A Noncooperative Game Using Local Measurements. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 5426-5431.	0.4	5

#	ARTICLE	IF	CITATIONS
55	Flexibility of Steiner trees in uniform orientation metrics. <i>Networks</i> , 2005, 46, 142-153.	2.7	4
56	Approximating minimum Steiner point trees in Minkowski planes. <i>Networks</i> , 2010, 56, 244-254.	2.7	4
57	THE UNIFORM ORIENTATION STEINER TREE PROBLEM IS NP-HARD. <i>International Journal of Computational Geometry and Applications</i> , 2014, 24, 87-105.	0.5	4
58	A geometric characterisation of the quadratic min-power centre. <i>European Journal of Operational Research</i> , 2014, 233, 34-42.	5.7	4
59	Comment on "A Comparative Testing Study of Commercial 18650-Format Lithium-Ion Battery Cells" [ <i>i&gt;</i> ]. <i>Electrochem. Soc.</i> , 162, A1592 (2015)]. <i>Journal of the Electrochemical Society</i> , 2015, 162, Y11-Y12.	2.9	4
60	Gradient-constrained discounted Steiner trees II: optimally locating a discounted Steiner point. <i>Journal of Global Optimization</i> , 2016, 64, 515-532.	1.8	4
61	Optimally locating a junction point for an underground mine to maximise the net present value. <i>ANZIAM Journal</i> , 0, 54, 315.	0.0	4
62	A polynomial time algorithm for rectilinear Steiner trees with terminals constrained to curves. <i>Networks</i> , 1999, 33, 145-155.	2.7	3
63	Gradient-Constrained Minimum Networks. III. Fixed Topology. <i>Journal of Optimization Theory and Applications</i> , 2012, 155, 336-354.	1.5	3
64	Optimal curvature-constrained paths for general directional-cost functions. <i>Optimization and Engineering</i> , 2013, 14, 395-416.	2.4	3
65	Siting and sizing distributed storage for microgrid applications. , 2017, , .		3
66	Strategic Underground Mine Access Design to Maximise the Net Present Value. , 2018, , 607-624.		3
67	Minimal curvature-constrained networks. <i>Journal of Global Optimization</i> , 2018, 72, 71-87.	1.8	3
68	Solving the prize-collecting Euclidean Steiner tree problem. <i>International Transactions in Operational Research</i> , 2022, 29, 1479-1501.	2.7	3
69	Rotationally optimal spanning and Steiner trees in uniform orientation metrics. <i>Computational Geometry: Theory and Applications</i> , 2004, 29, 251-263.	0.5	2
70	On the effect of component mismatches in inverter interfaced microgrids. , 2014, , .		2
71	A flow-dependent quadratic steiner tree problem in the Euclidean plane. <i>Networks</i> , 2014, 64, 18-28.	2.7	2
72	Analysis of Constraints for Optimal Electric Vehicle Charging. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 7879-7885.	0.4	2

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73	Optimal curvature and gradient-constrained directional cost paths in 3-space. Journal of Global Optimization, 2015, 62, 507-527.	1.8	2
74	Gradient-constrained discounted Steiner trees I: optimal tree configurations. Journal of Global Optimization, 2016, 64, 497-513.	1.8	2
75	Computing minimum 2-êdgedê-connected Steiner networks in the Euclidean plane. Networks, 2019, 73, 89-103.	2.7	2
76	Scheduling the construction of value and discount weighted trees for maximum net present value. Computers and Operations Research, 2020, 115, 104578.	4.0	2
77	Computing Skeletons for Rectilinearly Convex Obstacles in the Rectilinear Plane. Journal of Optimization Theory and Applications, 2020, 186, 102-133.	1.5	2
78	A mathematical model for mineable pushback designs. International Journal of Mining, Reclamation and Environment, 2021, 35, 523-539.	2.8	2
79	A model for open-pit pushback design with operational constraints. Optimization and Engineering, 0, , 1.	2.4	2
80	The Gilbert arborescence problem. Networks, 2013, 61, 238-247.	2.7	1
81	MINIMAL CURVATURE-CONSTRAINED PATHS IN THE PLANE WITH A CONSTRAINT ON ARCS WITH OPPOSITE ORIENTATIONS. International Journal of Computational Geometry and Applications, 2013, 23, 171-196.	0.5	1
82	An exact algorithm for the bottleneck 2-connected $k$ -Steiner network problem in $L_p$ planes. Discrete Applied Mathematics, 2016, 201, 47-69.	0.9	1
83	Overcoming the Impact of Clock Drifts on Power Sharing for Microgrids. , 2018, , .		1
84	New pruning rules for the Steiner tree problem and 2-connected Steiner network problem. Computational Geometry: Theory and Applications, 2019, 78, 37-49.	0.5	1
85	Gradient-Constrained Minimum Interconnection Networks. , 2013, , 1459-1510.		1
86	Steiner Trees with Other Cost Functions and Constraints. Algorithms and Combinatorics, 2015, , 219-299.	0.6	1
87	Time delayed discounted Steiner trees to locate two or more discounted Steiner points. ANZIAM Journal, 0, 57, 253.	0.0	1
88	Minimum Steiner trees on a set of concyclic points and their center. International Transactions in Operational Research, 0, , .	2.7	0
89	Computational complexity of the 2-connected Steiner network problem in the $\mathbb{R}^2$ plane. Theoretical Computer Science, 2021, 850, 168-184.	0.9	0
90	Fixed Orientation Steiner Trees. Algorithms and Combinatorics, 2015, , 83-150.	0.6	0

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91	OPTIMAL LOCATION OF AN UNDERGROUND CONNECTOR USING DISCOUNTED STEINER TREE THEORY. ANZIAM Journal, 2020, 62, 334-351.	0.2	0