

# Ya-Xiang Yuan

## List of Publications by Year in descending order

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43  
papers

1,827  
citations

393982

19  
h-index

288905

40  
g-index

47  
all docs

47  
docs citations

47  
times ranked

973  
citing authors

#	ARTICLE	IF	CITATIONS
1	A class of smooth exact penalty function methods for optimization problems with orthogonality constraints. Optimization Methods and Software, 2022, 37, 1205-1241.	1.6	10
2	On the complexity of an augmented Lagrangian method for nonconvex optimization. IMA Journal of Numerical Analysis, 2021, 41, 1546-1568.	1.5	11
3	Metrically regular mappings and its application to convergence analysis of a confined Newton-type method for nonsmooth generalized equations. Science China Mathematics, 2020, 63, 39-60.	0.8	2
4	Preface“Special Issue on Mathematical Optimization: Past, Present and Future. Journal of the Operations Research Society of China, 2020, 8, 197-198.	0.9	0
5	A Brief Introduction to Manifold Optimization. Journal of the Operations Research Society of China, 2020, 8, 199-248.	0.9	81
6	Stochastic proximal quasi-Newton methods for non-convex composite optimization. Optimization Methods and Software, 2019, 34, 922-948.	1.6	16
7	A new piecewise quadratic approximation approach for L0 norm minimization problem. Science China Mathematics, 2019, 62, 185-204.	0.8	9
8	On efficiently combining limited-memory and trust-region techniques. Mathematical Programming Computation, 2017, 9, 101-134.	3.2	25
9	Convergence properties of a restricted Newton-type method for generalized equations with metrically regular mappings. Applicable Analysis, 2017, , 1-21.	0.6	4
10	Theory and application of p-regularized subproblems for $p > 2$ . Optimization Methods and Software, 2017, 32, 1059-1077.	1.6	9
11	Nonlinear Stepsize Control Algorithms: Complexity Bounds for First- and Second-Order Optimality. Journal of Optimization Theory and Applications, 2016, 171, 980-997.	0.8	17
12	A derivative-free trust-region algorithm for composite nonsmooth optimization. Computational and Applied Mathematics, 2016, 35, 475-499.	1.3	20
13	A Parallel Line Search Subspace Correction Method for Composite Convex Optimization. Journal of the Operations Research Society of China, 2015, 3, 163-187.	0.9	2
14	Recent advances in trust region algorithms. Mathematical Programming, 2015, 151, 249-281.	1.6	194
15	On the convergence and worst-case complexity of trust-region and regularization methods for unconstrained optimization. Mathematical Programming, 2015, 152, 491-520.	1.6	45
16	Variable Metric Algorithms. , 2015, , 1515-1519.		0
17	A trust region method based on a new affine scaling technique for simple bounded optimization. Optimization Methods and Software, 2013, 28, 871-888.	1.6	14
18	Journal of the Operations Research Society of China. Journal of the Operations Research Society of China, 2013, 1, 1-2.	0.9	1

#	ARTICLE	IF	CITATIONS
19	A Counter-Example to a Conjecture of Ben-Tal, Nemirovski and Roos. Journal of the Operations Research Society of China, 2013, 1, 155-157.	0.9	1
20	A Subspace Version of the Powell's Yuan Trust-Region Algorithm for Equality Constrained Optimization. Journal of the Operations Research Society of China, 2013, 1, 425-451.	0.9	8
21	A Cone Constrained Convex Program: Structure and Algorithms. Journal of the Operations Research Society of China, 2013, 1, 37-53.	0.9	4
22	Recent advances in numerical methods for nonlinear equations and nonlinear least squares. Numerical Algebra, Control and Optimization, 2011, 1, 15-34.	1.0	67
23	A short note on the Q-linear convergence of the steepest descent method. Mathematical Programming, 2010, 123, 339-343.	1.6	3
24	Subspace methods for large scale nonlinear equations and nonlinear least squares. Optimization and Engineering, 2009, 10, 207-218.	1.3	42
25	An interior-point trust-region polynomial algorithm for convex quadratic minimization subject to general convex constraints. Optimization Methods and Software, 2008, 23, 251-258.	1.6	3
26	Subspace Techniques for Nonlinear Optimization. Series in Contemporary Applied Mathematics, 2007, , 206-218.	0.8	19
27	A new linearization method for quadratic assignment problems. Optimization Methods and Software, 2006, 21, 805-818.	1.6	27
28	A subspace implementation of quasi-Newton trust region methods for unconstrained optimization. Numerische Mathematik, 2006, 104, 241-269.	0.9	35
29	On the Quadratic Convergence of the Levenberg-Marquardt Method without Nonsingularity Assumption. Computing (Vienna/New York), 2005, 74, 23-39.	3.2	195
30	On the Regularity of a Trust Region-CG Algorithm for Nonlinear Ill-posed Inverse Problems. , 2002, , .		4
31	Modified Two-Point Step Size Gradient Methods for Unconstrained Optimization. Computational Optimization and Applications, 2002, 22, 103-109.	0.9	96
32	A Conic Trust-Region Method for Nonlinearly Constrained Optimization. Annals of Operations Research, 2001, 103, 175-191.	2.6	27
33	A Predictor-Corrector Algorithm for QSDP Combining Dikin-Type and Newton Centering Steps. Annals of Operations Research, 2001, 103, 115-133.	2.6	26
34	On Local Solutions of the Celis-Dennis-Tapia Subproblem. SIAM Journal on Optimization, 2000, 10, 359-383.	1.2	22
35	Global convergence of the method of shortest residuals. Numerische Mathematik, 1999, 83, 581-598.	0.9	14
36	A note on quadratic forms. Mathematical Programming, 1999, 86, 187-197.	1.6	15

#	ARTICLE	IF	CITATIONS
37	Combining Trust Region and Line Search Techniques. <i>Applied Optimization</i> , 1998, , 153-175.	0.4	107
38	Optimality Conditions for the Minimization of a Quadratic with Two Quadratic Constraints. <i>SIAM Journal on Optimization</i> , 1997, 7, 579-594.	1.2	81
39	On the convergence of a new trust region algorithm. <i>Numerische Mathematik</i> , 1995, 70, 515-539.	0.9	70
40	Analysis of a self-scaling quasi-Newton method. <i>Mathematical Programming</i> , 1993, 61, 19-37.	1.6	45
41	On self-dual update formulae in the Broyden family. <i>Optimization Methods and Software</i> , 1992, 1, 117-127.	1.6	4
42	A Modified BFGS Algorithm for Unconstrained Optimization. <i>IMA Journal of Numerical Analysis</i> , 1991, 11, 325-332.	1.5	164
43	Global Convergence of a Cass of Quasi-Newton Methods on Convex Problems. <i>SIAM Journal on Numerical Analysis</i> , 1987, 24, 1171-1190.	1.1	273