Jose Mario Martinez

List of Publications by Citations

214 papers	**9,956** citations
39 h-index	**96** g-index
224 ext. papers	**11,587** ext. citations
1.9 avg, IF	**6.47** L-index

#	Paper	IF	Citations
214	PACKMOL: a package for building initial configurations for molecular dynamics simulations. *Journal of Computational Chemistry*, **2009**, 30, 2157-64	3.5	3783
213	Nonmonotone Spectral Projected Gradient Methods on Convex Sets. *SIAM Journal on Optimization*, **2000**, 10, 1196-1211	2	628
212	Packing optimization for automated generation of complex system's initial configurations for molecular dynamics and docking. *Journal of Computational Chemistry*, **2003**, 24, 819-25	3.5	415
211	On Augmented Lagrangian Methods with General Lower-Level Constraints. *SIAM Journal on Optimization*, **2008**, 18, 1286-1309	2	220
210	Estimation of the Optical Constants and the Thickness of Thin Films Using Unconstrained Optimization. *Journal of Computational Physics*, **1999**, 151, 862-880	4.1	211
209	Algorithm 813. *ACM Transactions on Mathematical Software*, **2001**, 27, 340-349	2.3	170
208	Spectral residual method without gradient information for solving large-scale nonlinear systems of equations. *Mathematics of Computation*, **2006**, 75, 1429-1449	1.6	163
207	A Spectral Conjugate Gradient Method for Unconstrained Optimization. *Applied Mathematics and Optimization*, **2001**, 43, 117-128	1.5	154
206	Practical quasi-Newton methods for solving nonlinear systems. *Journal of Computational and Applied Mathematics*, **2000**, 124, 97-121	2.4	137
205	Practical Augmented Lagrangian Methods for Constrained Optimization **2014**,		133
204	Large-Scale Active-Set Box-Constrained Optimization Method with Spectral Projected Gradients. *Computational Optimization and Applications*, **2002**, 23, 101-125	1.4	112
203	Inexact spectral projected gradient methods on convex sets. *IMA Journal of Numerical Analysis*, **2003**, 23, 539-559	1.8	107
202	Optimizing the packing of cylinders into a rectangular container: A nonlinear approach. *European Journal of Operational Research*, **2005**, 160, 19-33	5.6	95
201	A new trust region algorithm for bound constrained minimization. *Applied Mathematics and Optimization*, **1994**, 30, 235-266	1.5	95
200	On sequential optimality conditions for smooth constrained optimization. *Optimization*, **2011**, 60, 627-641	1.2	93
199	Improving ultimate convergence of an augmented Lagrangian method. *Optimization Methods and Software*, **2008**, 23, 177-195	1.3	93
198	On the Relation between Constant Positive Linear Dependence Condition and Quasinormality Constraint Qualification. *Journal of Optimization Theory and Applications*, **2005**, 125, 473-483	1.6	93

197	Augmented Lagrangian methods under the constant positive linear dependence constraint qualification. *Mathematical Programming*, **2007**, 111, 5-32	2.1	92
196	Gradient Method with Retards and Generalizations. *SIAM Journal on Numerical Analysis*, **1998**, 36, 275-289	2.4	89
195	Inexact Newton methods for solving nonsmooth equations. *Journal of Computational and Applied Mathematics*, **1995**, 60, 127-145	2.4	85
194	Global minimization using an Augmented Lagrangian method with variable lower-level constraints. *Mathematical Programming*, **2010**, 125, 139-162	2.1	83
193	Spectral Projected Gradient Methods: Review and Perspectives. *Journal of Statistical Software*, **2014**, 60,	7.3	78
192	Local Minimizers of Quadratic Functions on Euclidean Balls and Spheres. *SIAM Journal on Optimization*, **1994**, 4, 159-176	2	77
191	Determination of thickness and optical constants of amorphous silicon films from transmittance data. *Applied Physics Letters*, **2000**, 77, 2133-2135	3.4	76
190	Inexact-Restoration Algorithm for Constrained Optimization1. *Journal of Optimization Theory and Applications*, **2000**, 104, 135-163	1.6	73
189	Numerical Comparison of Augmented Lagrangian Algorithms for Nonconvex Problems. *Computational Optimization and Applications*, **2005**, 31, 31-55	1.4	70
188	On the Maximization of a Concave Quadratic Function with Box Constraints. *SIAM Journal on Optimization*, **1994**, 4, 177-192	2	64
187	Inexact-Restoration Method with Lagrangian Tangent Decrease and New Merit Function for Nonlinear Programming. *Journal of Optimization Theory and Applications*, **2001**, 111, 39-58	1.6	63
186	Retrieval of optical constants and thickness of thin films from transmission spectra. *Applied Optics*, **1997**, 36, 8238-47	1.7	58
185	Worst-case evaluation complexity for unconstrained nonlinear optimization using high-order regularized models. *Mathematical Programming*, **2017**, 163, 359-368	2.1	57
184	A New Sequential Optimality Condition for Constrained Optimization and Algorithmic Consequences. *SIAM Journal on Optimization*, **2010**, 20, 3533-3554	2	55
183	A Cone-Continuity Constraint Qualification and Algorithmic Consequences. *SIAM Journal on Optimization*, **2016**, 26, 96-110	2	52
182	Comparing Algorithms for Solving Sparse Nonlinear Systems of Equations. *SIAM Journal on Scientific and Statistical Computing*, **1992**, 13, 459-483		51
181	Convergent algorithms for protein structural alignment. *BMC Bioinformatics*, **2007**, 8, 306	3.6	50
180	A Practical Optimality Condition Without Constraint Qualifications for Nonlinear Programming. *Journal of Optimization Theory and Applications*, **2003**, 118, 117-133	1.6	46

179	Optical constants and thickness determination of very thin amorphous semiconductor films. *Journal of Applied Physics*, **2002**, 92, 3093-3102	2.5	45
178	A new method for large-scale box constrained convex quadratic minimization problems. *Optimization Methods and Software*, **1995**, 5, 57-74	1.3	45
177	Nonlinear programming algorithms using trust regions and augmented Lagrangians with nonmonotone penalty parameters. *Mathematical Programming*, **1999**, 84, 161-200	2.1	39
176	A Family of Quasi-Newton Methods for Nonlinear Equations with Direct Secant Updates of Matrix Factorizations. *SIAM Journal on Numerical Analysis*, **1990**, 27, 1034-1049	2.4	39
175	A Quasi-Newton method with modification of one column per iteration. *Computing (Vienna/New York)*, **1984**, 33, 353-362	2.2	35
174	Augmented Lagrangian method with nonmonotone penalty parameters for constrained optimization. *Computational Optimization and Applications*, **2012**, 51, 941-965	1.4	34
173	Strict Constraint Qualifications and Sequential Optimality Conditions for Constrained Optimization. *Mathematics of Operations Research*, **2018**, 43, 693-717	1.5	33
172	Euler Discretization and Inexact Restoration for Optimal Control. *Journal of Optimization Theory and Applications*, **2007**, 134, 191-206	1.6	32
171	Globally convergent trust-region methods for self-consistent field electronic structure calculations. *Journal of Chemical Physics*, **2004**, 121, 10863-78	3.9	32
170	Orthogonal packing of rectangular items within arbitrary convex regions by nonlinear optimization. *Computers and Operations Research*, **2006**, 33, 3535-3548	4.6	31
169	Globally Convergent Inexact Quasi-Newton Methods for Solving Nonlinear Systems. *Numerical Algorithms*, **2003**, 32, 249-260	2.1	31
168	Local Convergence of an Inexact-Restoration Method and Numerical Experiments. *Journal of Optimization Theory and Applications*, **2005**, 127, 229-247	1.6	31
167	A trust-region strategy for minimization on arbitrary domains. *Mathematical Programming*, **1995**, 68, 267-301	2.1	31
166	Optimization techniques for the estimation of the thickness and the optical parameters of thin films using reflectance data. *Journal of Applied Physics*, **2005**, 97, 043512	2.5	30
165	Inexact Restoration Method for Derivative-Free Optimization with Smooth Constraints. *SIAM Journal on Optimization*, **2013**, 23, 1189-1213	2	29
164	A note on the theoretical convergence properties of the SIMP method. *Structural and Multidisciplinary Optimization*, **2005**, 29, 319-323	3.6	29
163	Cubic-regularization counterpart of a variable-norm trust-region method for unconstrained minimization. *Journal of Global Optimization*, **2017**, 68, 367-385	1.5	28
162	Validation of an Augmented Lagrangian Algorithm with a Gauss-Newton Hessian Approximation Using a Set of Hard-Spheres Problems. *Computational Optimization and Applications*, **2000**, 16, 247-263	1.4	27

161	On High-order Model Regularization for Constrained Optimization. *SIAM Journal on Optimization*, **2017**, 27, 2447-2458	2	26
160	On second-order optimality conditions for nonlinear programming. *Optimization*, **2007**, 56, 529-542	1.2	26
159	The Use of Quadratic Regularization with a Cubic Descent Condition for Unconstrained Optimization. *SIAM Journal on Optimization*, **2017**, 27, 1049-1074	2	25
158	Packing ellipsoids by nonlinear optimization. *Journal of Global Optimization*, **2016**, 65, 709-743	1.5	25
157	Fitting the Sovová supercritical fluid extraction model by means of a global optimization tool. *Computers and Chemical Engineering*, **2008**, 32, 1735-1745	4	25
156	On the Resolution of Linearly Constrained Convex Minimization Problems. *SIAM Journal on Optimization*, **1994**, 4, 331-339	2	25
155	Solving nonlinear systems of equations by means of quasi-neston methods with a nonmonotone stratgy *. *Optimization Methods and Software*, **1997**, 8, 25-51	1.3	24
154	Local Convergence Theory of Inexact Newton Methods Based on Structured Least Change Updates. *Mathematics of Computation*, **1990**, 55, 143	1.6	24
153	A derivative-free nonmonotone line-search technique for unconstrained optimization. *Journal of Computational and Applied Mathematics*, **2008**, 219, 383-397	2.4	23
152	Solution of linear complementarity problems using minimization with simple bounds. *Journal of Global Optimization*, **1995**, 6, 253-267	1.5	23
151	On the solution of mathematical programming problems with equilibrium constraints. *Mathematical Methods of Operations Research*, **2001**, 54, 345-358	1	22
150	Generalization of the Methods of Brent and Brown for Solving Nonlinear Simultaneous Equations. *SIAM Journal on Numerical Analysis*, **1979**, 16, 434-448	2.4	22
149	The boundedness of penalty parameters in an augmented Lagrangian method with constrained subproblems. *Optimization Methods and Software*, **2012**, 27, 1001-1024	1.3	21
148	Second-order negative-curvature methods for box-constrained and general constrained optimization. *Computational Optimization and Applications*, **2010**, 45, 209-236	1.4	21
147	Evaluation Complexity for Nonlinear Constrained Optimization Using Unscaled KKT Conditions and High-Order Models. *SIAM Journal on Optimization*, **2016**, 26, 951-967	2	21
146	Two-Phase Model Algorithm with Global Convergence for Nonlinear Programming. *Journal of Optimization Theory and Applications*, **1998**, 96, 397-436	1.6	20
145	Structured minimal-memory inexact quasi-Newton method and secant preconditioners for augmented Lagrangian optimization. *Computational Optimization and Applications*, **2008**, 39, 1-16	1.4	20
144	A new strategy for solving variational inequalities in bounded polytopes *. *Numerical Functional Analysis and Optimization*, **1995**, 16, 653-668	1	20

143	An inverse column-updating method for solving large-scale nonlinear systems of equations. *Optimization Methods and Software*, **1992**, 1, 129-140	1.3	20
142	Optical constants of thin films by means of a pointwise constrained optimization approach. *Thin Solid Films*, **1998**, 317, 133-136	2.2	19
141	Practical active-set Euclidian trust-region method with spectral projected gradients for bound-constrained minimization. *Optimization*, **2005**, 54, 305-325	1.2	19
140	A Limited-Memory Multipoint Symmetric Secant Method for Bound Constrained Optimization. *Annals of Operations Research*, **2002**, 117, 51-70	3.2	19
139	Packing circles within ellipses. *International Transactions in Operational Research*, **2013**, 20, 365-389	2.9	18
138	Inexact Restoration Methods for Nonlinear Programming: Advances and Perspectives **2005**, 271-291		18
137	Quasi-Newton methods for solving underdetermined nonlinear simultaneous equations. *Journal of Computational and Applied Mathematics*, **1991**, 34, 171-190	2.4	18
136	Constrained derivative-free optimization on thin domains. *Journal of Global Optimization*, **2013**, 56, 1217-1232	1.1	17
135	Parallel and sequential Kaczmarz methods for solving underdetermined nonlinear equations. *Journal of Computational and Applied Mathematics*, **1986**, 15, 311-321	2.4	17
134	Solution of Finite-Dimensional Variational Inequalities Using Smooth Optimization with Simple Bounds. *Journal of Optimization Theory and Applications*, **1997**, 94, 635-657	1.6	16
133	Density-based Globally Convergent Trust-region Methods for Self-consistent Field Electronic Structure Calculations. *Journal of Mathematical Chemistry*, **2006**, 40, 349-377	2.1	16
132	Three new algorithms based on the sequential secant method. *BIT Numerical Mathematics*, **1979**, 19, 236-243	1.7	16
131	Solving nonlinear simultaneous equations with a generalization of Brent's method. *BIT Numerical Mathematics*, **1980**, 20, 501-510	1.7	16
130	A nonlinear programming model with implicit variables for packing ellipsoids. *Journal of Global Optimization*, **2017**, 68, 467-499	1.5	14
129	Spectral Projected Gradient Method with Inexact Restoration for Minimization with Nonconvex Constraints. *SIAM Journal of Scientific Computing*, **2009**, 31, 1628-1652	2.6	14
128	Low Order-Value Optimization and applications. *Journal of Global Optimization*, **2009**, 43, 1-22	1.5	14
127	Augmented Lagrangian Algorithms Based on the Spectral Projected Gradient Method for Solving Nonlinear Programming Problems. *Journal of Optimization Theory and Applications*, **2004**, 123, 497-517	1.6	14
126	On the solution of the extended linear complementarity problem. *Linear Algebra and Its Applications*, **1998**, 281, 247-257	0.9	13

125	Method of sentinels for packing items within arbitrary convex regions. *Journal of the Operational Research Society*, **2006**, 57, 735-746	2	13
124	Spectral projected gradient and variable metric methods for optimization with linear inequalities. *IMA Journal of Numerical Analysis*, **2005**, 25, 221-252	1.8	13
123	On the Relation between Two Local Convergence Theories of Least-Change Secant Update Methods. *Mathematics of Computation*, **1992**, 59, 457	1.6	13
122	Fixed-Point Quasi-Newton Methods. *SIAM Journal on Numerical Analysis*, **1992**, 29, 1413-1434	2.4	13
121	An inexact restoration approach to optimization problems with multiobjective constraints under weighted-sum scalarization. *Optimization Letters*, **2016**, 10, 1315-1325	1.1	12
120	Inexact restoration method for minimization problems arising in electronic structure calculations. *Computational Optimization and Applications*, **2011**, 50, 555-590	1.4	12
119	A trust region method for minimization of nonsmooth functions with linear constraints. *Mathematical Programming*, **1997**, 76, 431-449	2.1	12
118	Estimation of optical parameters of very thin films. *Applied Numerical Mathematics*, **2003**, 47, 109-119	2.5	12
117	Optimization problems in the estimation of parameters of thin films and the elimination of the influence of the substrate. *Journal of Computational and Applied Mathematics*, **2003**, 152, 35-50	2.4	12
116	An interior-point method for solving box-constrained underdetermined nonlinear systems. *Journal of Computational and Applied Mathematics*, **2005**, 177, 67-88	2.4	12
115	Least change update methods for nonlinear systems with nondifferentiable terms *. *Numerical Functional Analysis and Optimization*, **1993**, 14, 405-415	1	12
114	Complexity and performance of an Augmented Lagrangian algorithm. *Optimization Methods and Software*, **2020**, 35, 885-920	1.3	11
113	On Regularization and Active-set Methods with Complexity for Constrained Optimization. *SIAM Journal on Optimization*, **2018**, 28, 1367-1395	2	11
112	Optimality properties of an Augmented Lagrangian method on infeasible problems. *Computational Optimization and Applications*, **2015**, 60, 609-631	1.4	11
111	Handling infeasibility in a large-scale nonlinear optimization algorithm. *Numerical Algorithms*, **2012**, 60, 263-277	2.1	11
110	Quasi-inexact-Newton methods with global convergence for solving constrained nonlinear systems. *Nonlinear Analysis: Theory, Methods & Applications*, **1997**, 30, 1-7	1.3	11
109	Continuous optimization methods for structure alignments. *Mathematical Programming*, **2007**, 112, 93-124		11
108	Reformulation of Variational Inequalities on a Simplex and Compactification of Complementarity Problems. *SIAM Journal on Optimization*, **2000**, 10, 878-895	2	11

107	The column-updating method for solving nonlinear equations in Hilbert space. *ESAIM: Mathematical Modelling and Numerical Analysis*, **1992**, 26, 309-330	1.8	11
106	Assessing the reliability of general-purpose Inexact Restoration methods. *Journal of Computational and Applied Mathematics*, **2015**, 282, 1-16	2.4	10
105	Sparse Projected-Gradient Method As a Linear-Scaling Low-Memory Alternative to Diagonalization in Self-Consistent Field Electronic Structure Calculations. *Journal of Chemical Theory and Computation*, **2013**, 9, 1043-51	6.4	10
104	Inexact Restoration approach for minimization with inexact evaluation of the objective function. *Mathematics of Computation*, **2015**, 85, 1775-1791	1.6	10
103	Augmented Lagrangians with possible infeasibility and finite termination for global nonlinear programming. *Journal of Global Optimization*, **2014**, 58, 207-242	1.5	10
102	Estimation of the thickness and the optical parameters of several stacked thin films using optimization. *Applied Optics*, **2008**, 47, 5208-20	0.2	10
101	Nonlinear-programming reformulation of the order-value optimization problem. *Mathematical Methods of Operations Research*, **2005**, 61, 365-384	1	10
100	A Theory of Secant Preconditioners. *Mathematics of Computation*, **1993**, 60, 681	1.6	10
99	Triangular Decomposition Methods for Solving Reducible Nonlinear Systems of Equations. *SIAM Journal on Optimization*, **1994**, 4, 358-382	2	10
98	Quasi-Newton methods with factorization scaling for solving sparse nonlinear systems of equations. *Computing (Vienna/New York)*, **1987**, 38, 133-141	2.2	10
97	Combination of the sequential secant method and Broyden's method with projected updates. *Computing (Vienna/New York)*, **1980**, 25, 379-386	2.2	10
96	Solving Nonsmooth Equations by Means of Quasi-Newton Methods with Globalization **1995**, 121-140		10
95	Algorithms for Solving Nonlinear Systems of Equations **1994**, 81-108		10
94	Newton's method may fail to recognize proximity to optimal points in constrained optimization. *Mathematical Programming*, **2016**, 160, 547-555	2.1	9
93	Low order-value approach for solving VaR-constrained optimization problems. *Journal of Global Optimization*, **2011**, 51, 715-742	1.5	9
92	Outer Trust-Region Method for Constrained Optimization. *Journal of Optimization Theory and Applications*, **2011**, 150, 142-155	1.6	9
91	Order-Value Optimization: Formulation and solution by means of a primal cauchy method. *Mathematical Methods of Operations Research*, **2003**, 58, 387-399	1	9
90	A Box-Constrained Optimization Algorithm with Negative Curvature Directions and Spectral Projected Gradients. *Computing Supplementum*, **2001**, 49-60		9

89	SOR-Secant Methods. *SIAM Journal on Numerical Analysis*, **1994**, 31, 217-226	2.4	9
88	Sequential equality-constrained optimization for nonlinear programming. *Computational Optimization and Applications*, **2016**, 65, 699-721	1.4	9
87	A Newton-like method with mixed factorizations and cubic regularization for unconstrained minimization. *Computational Optimization and Applications*, **2019**, 73, 707-753	1.4	8
86	On the employment of inexact restoration for the minimization of functions whose evaluation is subject to errors. *Mathematics of Computation*, **2017**, 87, 1307-1326	1.6	8
85	Addressing the greediness phenomenon in Nonlinear Programming by means of Proximal Augmented Lagrangians. *Computational Optimization and Applications*, **2010**, 46, 229-245	1.4	8
84	Partial spectral projected gradient method with active-set strategy for linearly constrained optimization. *Numerical Algorithms*, **2010**, 53, 23-52	2.1	8
83	Spectral Gradient Methods for Linearly Constrained Optimization. *Journal of Optimization Theory and Applications*, **2005**, 125, 629-651	1.6	8
82	Nonmonotone Strategy for Minimization of Quadratics with Simple Constraints. *Applications of Mathematics*, **2001**, 46, 321-338		8
81	On the local convergence of quasi-Newton methods for nonlinear complementarity problems. *Applied Numerical Mathematics*, **1999**, 30, 3-22	2.5	8
80	An extension of the theory of secant preconditioners. *Journal of Computational and Applied Mathematics*, **1995**, 60, 115-125	2.4	8
79	Convergence properties of the inverse column-updating method. *Optimization Methods and Software*, **1995**, 6, 127-144	1.3	8
78	A parallel projection method for overdetermined nonlinear systems of equations. *Numerical Algorithms*, **1993**, 4, 241-262	2.1	8
77	Solving systems of nonlinear equations by means of an accelerated successive orthogonal projections method. *Journal of Computational and Applied Mathematics*, **1986**, 16, 169-179	2.4	8
76	On the numerical solution of bound constrained optimization problems. *RAIRO - Operations Research*, **1989**, 23, 319-341	2.2	8
75	On the behaviour of constrained optimization methods when Lagrange multipliers do not exist. *Optimization Methods and Software*, **2014**, 29, 646-657	1.3	7
74	Minimization subproblems and heuristics for an applied clustering problem. *European Journal of Operational Research*, **2003**, 146, 19-34	5.6	7
73	Inexact-Newton methods for semismooth systems of equations with block-angular structure. *Journal of Computational and Applied Mathematics*, **1999**, 103, 239-249	2.4	7
72	A Curvilinear Search Using Tridiagonal Secant Updates for Unconstrained Optimization. *SIAM Journal on Optimization*, **1991**, 1, 333-357	2	7

71 Separable cubic modeling and a trust-region strategy for unconstrained minimization with impact in global optimization. *Journal of Global Optimization*, **2015**, 63, 319-342 — 1.5 — 6

70 A Flexible Inexact-Restoration Method for Constrained Optimization. *Journal of Optimization Theory and Applications*, **2015**, 165, 188-208 — 1.6 — 6

69 Generalized order-value optimization. *Top*, **2012**, 20, 75-98 — 1.3 — 6

68 A projected-gradient interior-point algorithm for complementarity problems. *Numerical Algorithms*, **2011**, 57, 457-485 — 2.1 — 6

67 Minimization of Discontinuous Cost Functions by Smoothing. *Acta Applicandae Mathematicae*, **2002**, 71, 245-260 — 1.1 — 6

66 Discrete Newton's method with local variations for solving large-scale nonlinear systems. *Optimization*, **2003**, 52, 417-440 — 1.2 — 6

65 On the solution of bounded and unbounded mixed complementarity problems. *Optimization*, **2001**, 50, 265-278 — 1.2 — 6

64 A globally convergent inexact-Newton method for solving reducible nonlinear systems of equations. *Optimization Methods and Software*, **2000**, 13, 11-34 — 1.3 — 6

63 Solution of nonlinear systems of equations by an optimal projection method. *Computing (Vienna/New York)*, **1986**, 37, 59-70 — 2.2 — 6

62 An algorithm for solving sparse Nonlinear Least Squares problems. *Computing (Vienna/New York)*, **1987**, 39, 307-325 — 2.2 — 6

61 New convergence results on an algorithm for norm constrained regularization and related problems. *RAIRO - Operations Research*, **1997**, 31, 269-294 — 2.2 — 6

60 On the use of third-order models with fourth-order regularization for unconstrained optimization. *Optimization Letters*, **2020**, 14, 815-838 — 1.1 — 6

59 The reformulation of nonlinear complementarity problems using the Fischer-burmeister function. *Applied Mathematics Letters*, **1999**, 12, 7-12 — 3.5 — 5

58 The method of successive orthogonal projections for solving nonlinear simultaneous equations. *Calcolo*, **1986**, 23, 93-104 — 1.5 — 5

57 On optimization strategies for parameter estimation in models governed by partial differential equations. *Mathematics and Computers in Simulation*, **2015**, 114, 14-24 — 3.3 — 4

56 Feasibility problems with complementarity constraints. *European Journal of Operational Research*, **2016**, 249, 41-54 — 5.6 — 4

55 Iteration and evaluation complexity for the minimization of functions whose computation is intrinsically inexact. *Mathematics of Computation*, **2019**, 89, 253-278 — 1.6 — 4

54 A computer model for particle-like simulation in broiler houses. *Computers and Electronics in Agriculture*, **2017**, 141, 1-14 — 6.5 — 4

53	On the natural merit function for solving complementarity problems. *Mathematical Programming*, **2011**, 130, 211-223	2.1	4
52	New Theoretical Results on Recursive Quadratic Programming Algorithms. *Journal of Optimization Theory and Applications*, **1998**, 97, 435-454	1.6	4
51	Trust-region superposition methods for protein alignment. *IMA Journal of Numerical Analysis*, **2008**, 28, 690-710	1.8	4
50	On the convergence of quasi-newton methods for nonsmooth problems. *Numerical Functional Analysis and Optimization*, **1995**, 16, 1193-1209	1	4
49	A Numerically stable reduced-gradient type algorithm for solving large-scale linearly constrained minimization problems. *Computers and Operations Research*, **1991**, 18, 17-31	4.6	4
48	An algorithm for solving nonlinear least-squares problems with a new curvilinear search. *Computing (Vienna/New York)*, **1990**, 44, 83-90	2.2	4
47	An accelerated successive orthogonal projections method for solving large-scale linear feasibility problems. *Computers and Mathematics With Applications*, **1988**, 15, 367-373	2.7	4
46	Preface to the Special Issue on Many Faces of Distances. *International Transactions in Operational Research*, **2016**, 23, 841-841	2.9	3
45	On the application of an Augmented Lagrangian algorithm to some portfolio problems. *EURO Journal on Computational Optimization*, **2016**, 4, 79-92	1.2	3
44	On the controlling of temperature: A proposal for a real-time controller in broiler houses. *Scientia Agricola*, **2018**, 75, 445-451	2.5	3
43	On the minimization of possibly discontinuous functions by means of pointwise approximations. *Optimization Letters*, **2017**, 11, 1623-1637	1.1	3
42	Low Order-Value Multiple Fitting for supercritical fluid extraction models. *Computers and Chemical Engineering*, **2012**, 40, 148-156	4	3
41	The projection method for solving nonlinear systems of equations under the most violated constraint control. *Computers and Mathematics With Applications*, **1985**, 11, 987-993	2.7	3
40	Local convergence theory of inexact Newton methods based on structured least change updates. *Mathematics of Computation*, **1990**, 55, 143-143	1.6	3
39	Global Order-Value Optimization by means of a Multistart Harmonic Oscillator Tunneling Strategy **2006**, 379-404		3
38	On high-order model regularization for multiobjective optimization. *Optimization Methods and Software*, **2020**, 1-17	1.3	2
37	Fast convergence of an inexact interior point method for horizontal complementarity problems. *Numerical Algorithms*, **2018**, 79, 1187-1210	2.1	2
36	A Trust-Region SLCP Model Algorithm for Nonlinear Programming **1997**, 246-255		2

35	On the Complexity of an Inexact Restoration Method for Constrained Optimization. *SIAM Journal on Optimization*, **2020**, 30, 80-101	2	2
34	An alternating direction method of multipliers for the eigenvalue complementarity problem. *Optimization Methods and Software*, **2021**, 36, 337-370	1.3	2
33	On the computation of large-scale self-consistent-field iterations. *Journal of Mathematical Chemistry*, **2017**, 55, 1158-1172	2.1	1
32	Comments on: Critical Lagrange multipliers: what we currently know about them, how they spoil our lives, and what we can do about it. *Top*, **2015**, 23, 32-34	1.3	1
31	Under-relaxed quasi-Newton acceleration for an inverse fixed-point problem coming from Positron Emission Tomography. *Journal of Inverse and Ill-Posed Problems*, **2018**, 26, 755-770	1.3	1
30	Continuous dynamic assimilation of the inner region data in hydrodynamics modelling: optimization approach. *Nonlinear Processes in Geophysics*, **2008**, 15, 815-829	2.9	1
29	Quasi-Newton acceleration for equality-constrained minimization. *Computational Optimization and Applications*, **2008**, 40, 373-388	1.4	1
28	Solution Of Bounded Nonlinear Systems Of Equations Using Homotopies With Inexact Restoration. *International Journal of Computer Mathematics*, **2003**, 80, 211-222	1.2	1
27	On the regularization of mixed complementarity problems. *Numerical Functional Analysis and Optimization*, **2000**, 21, 589-600	1	1
26	Augmented lagrangians and sphere packing problems. *International Journal of Computer Mathematics*, **1998**, 70, 75-86	1.2	1
25	A Direct Search Method for Nonlinear Programming. *ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik*, **1999**, 79, 267-276	1	1
24	Successive Projection Methods for the Solution of Overdetermined Nonlinear Systems **1996**, 75-84		1
23	New algorithms for maximization of concave functions with box constraints. *RAIRO - Operations Research*, **1992**, 26, 209-236	2.2	1
22	Solving Molecular Distance Geometry Problems Using a Continuous Optimization Approach **2013**, 213-224		1
21	Large-scale unconstrained optimization using separable cubic modeling and matrix-free subspace minimization. *Computational Optimization and Applications*, **2020**, 75, 169-205	1.4	1
20	Solving Complementarity Problems by Means of a New Smooth Constrained Nonlinear Solver. *Applied Optimization*, **1998**, 1-24		1
19	An increasing-angle property of the conjugate gradient method and the implementation of large-scale minimization algorithms with line searches. *Numerical Linear Algebra With Applications*, **2003**, 10, 323-334	1.6	0
18	Discrimination by means of a trust region method. *International Journal of Computer Mathematics*, **1995**, 55, 91-103	1.2	0

List of Publications

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