

Jean Bernard Lasserre

List of Publications by Citations

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

233
papers

6,615
citations

34
h-index

75
g-index

256
ext. papers

7,749
ext. citations

2
avg, IF

6.65
L-index

#	Paper	IF	Citations
233	Global Optimization with Polynomials and the Problem of Moments. <i>SIAM Journal on Optimization</i> , 2001 , 11, 796-817	2	1390
232	Discrete-Time Markov Control Processes 1996 ,		443
231	GloptiPoly 3: moments, optimization and semidefinite programming. <i>Optimization Methods and Software</i> , 2009 , 24, 761-779	1.3	286
230	Further Topics on Discrete-Time Markov Control Processes 1999 ,		246
229	GloptiPoly. <i>ACM Transactions on Mathematical Software</i> , 2003 , 29, 165-194	2.3	220
228	Moments, Positive Polynomials and Their Applications 2009 ,		200
227	Convergent SDP-Relaxations in Polynomial Optimization with Sparsity. <i>SIAM Journal on Optimization</i> , 2006 , 17, 822-843	2	156
226	Convergent relaxations of polynomial matrix inequalities and static output feedback. <i>IEEE Transactions on Automatic Control</i> , 2006 , 51, 192-202	5.9	138
225	Nonlinear Optimal Control via Occupation Measures and LMI-Relaxations. <i>SIAM Journal on Control and Optimization</i> , 2008 , 47, 1643-1666	1.9	123
224	An Explicit Equivalent Positive Semidefinite Program for Nonlinear 0-1 Programs. <i>SIAM Journal on Optimization</i> , 2002 , 12, 756-769	2	117
223	A modified shifting bottleneck procedure for job-shop scheduling. <i>International Journal of Production Research</i> , 1993 , 31, 923-932	7.8	99
222	An analytical expression and an algorithm for the volume of a convex polyhedron in \mathbb{R}^n . <i>Journal of Optimization Theory and Applications</i> , 1983 , 39, 363-377	1.6	96
221	An Explicit Exact SDP Relaxation for Nonlinear 0-1 Programs. <i>Lecture Notes in Computer Science</i> , 2001 , 293-303	0.9	78
220	Semidefinite Programming vs. LP Relaxations for Polynomial Programming. <i>Mathematics of Operations Research</i> , 2002 , 27, 347-360	1.5	77
219	. <i>IEEE Transactions on Automatic Control</i> , 1995 , 40, 1500-1501	5.9	76
218	Multi-resource shop scheduling with resource flexibility. <i>European Journal of Operational Research</i> , 1998 , 107, 289-305	5.6	74
217	Markov Chains and Invariant Probabilities 2003 ,		71

216	Solving nonconvex optimization problems. <i>IEEE Control Systems</i> , 2004 , 24, 72-83	2.9	69
215	An Introduction to Polynomial and Semi-Algebraic Optimization 2015 ,		63
214	Numerical integration of homogeneous functions on convex and nonconvex polygons and polyhedra. <i>Computational Mechanics</i> , 2015 , 56, 967-981	4	60
213	Lot Streaming in Job-Shop Scheduling. <i>Operations Research</i> , 1997 , 45, 584-595	2.3	56
212	Semidefinite Characterization and Computation of Zero-Dimensional Real Radical Ideals. <i>Foundations of Computational Mathematics</i> , 2008 , 8, 607-647	2.7	55
211	Approximate Volume and Integration for Basic Semialgebraic Sets. <i>SIAM Review</i> , 2009 , 51, 722-743	7.4	51
210	A semidefinite programming approach to the generalized problem of moments. <i>Mathematical Programming</i> , 2007 , 112, 65-92	2.1	51
209	Convexity in SemiAlgebraic Geometry and Polynomial Optimization. <i>SIAM Journal on Optimization</i> , 2009 , 19, 1995-2014	2	50
208	Integration on a convex polytope. <i>Proceedings of the American Mathematical Society</i> , 1998 , 126, 2433-2441	4.8	49
207	Approximation Schemes for Infinite Linear Programs. <i>SIAM Journal on Optimization</i> , 1998 , 8, 973-988	2	47
206	Reachable, controllable sets and stabilizing control of constrained linear systems. <i>Automatica</i> , 1993 , 29, 531-536	5.7	45
205	Integration of lotsizing and scheduling decisions in a job-shop. <i>European Journal of Operational Research</i> , 1994 , 75, 413-426	5.6	43
204	A New Look at Nonnegativity on Closed Sets and Polynomial Optimization. <i>SIAM Journal on Optimization</i> , 2011 , 21, 864-885	2	40
203	Modeling crack discontinuities without element-partitioning in the extended finite element method. <i>International Journal for Numerical Methods in Engineering</i> , 2017 , 110, 1021-1048	2.4	37
202	PRICING A CLASS OF EXOTIC OPTIONS VIA MOMENTS AND SDP RELAXATIONS. <i>Mathematical Finance</i> , 2006 , 16, 469-494	2.3	37
201	SOS approximations of nonnegative polynomials via simple high degree perturbations. <i>Mathematische Zeitschrift</i> , 2007 , 256, 99-112	0.7	35
200	Exploiting Symmetries in SDP-Relaxations for Polynomial Optimization. <i>Mathematics of Operations Research</i> , 2013 , 38, 122-141	1.5	34
199	Bounds on measures satisfying moment conditions. <i>Annals of Applied Probability</i> , 2002 , 12, 1114	2	34

198	A bounded degree SOS hierarchy for polynomial optimization. <i>EURO Journal on Computational Optimization</i> , 2017 , 5, 87-117	1.2	33
197	On representations of the feasible set in convex optimization. <i>Optimization Letters</i> , 2010 , 4, 1-5	1.1	33
196	A Sum of Squares Approximation of Nonnegative Polynomials. <i>SIAM Journal on Optimization</i> , 2006 , 16, 751-765	2	33
195	Zero-Sum Stochastic Games in Borel Spaces: Average Payoff Criteria. <i>SIAM Journal on Control and Optimization</i> , 2000 , 39, 1520-1539	1.9	33
194	Convex sets with semidefinite representation. <i>Mathematical Programming</i> , 2009 , 120, 457-477	2.1	32
193	The Inverse Moment Problem for Convex Polytopes. <i>Discrete and Computational Geometry</i> , 2012 , 48, 596-621	0.6	31
192	A Sum of Squares Approximation of Nonnegative Polynomials. <i>SIAM Review</i> , 2007 , 49, 651-669	7.4	31
191	On the importance of sequencing decisions in production planning and scheduling. <i>International Transactions in Operational Research</i> , 2002 , 9, 779-793	2.9	31
190	Exact Solutions to Super Resolution on Semi-Algebraic Domains in Higher Dimensions. <i>IEEE Transactions on Information Theory</i> , 2017 , 63, 621-630	2.8	29
189	Polynomial Programming: LP-Relaxations Also Converge. <i>SIAM Journal on Optimization</i> , 2005 , 15, 383-393		29
188	. <i>IEEE Transactions on Automatic Control</i> , 1990 , 35, 1118-1124	5.9	28
187	A Laplace transform algorithm for the volume of a convex polytope. <i>Journal of the ACM</i> , 2001 , 48, 1126-1140		26
186	Planning and scheduling in a multi-site environment. <i>Production Planning and Control</i> , 1999 , 10, 19-28	4.3	26
185	Inner Approximations for Polynomial Matrix Inequalities and Robust Stability Regions. <i>IEEE Transactions on Automatic Control</i> , 2012 , 57, 1456-1467	5.9	25
184	Polynomials nonnegative on a grid and discrete optimization. <i>Transactions of the American Mathematical Society</i> , 2001 , 354, 631-649	1	25
183	Sparse-BSOS: a bounded degree SOS hierarchy for large scale polynomial optimization with sparsity. <i>Mathematical Programming Computation</i> , 2018 , 10, 1-32	7.8	25
182	On Counting Integral Points in a Convex Rational Polytope. <i>Mathematics of Operations Research</i> , 2003 , 28, 853-870	1.5	24
181	SDP vs. LP Relaxations for the Moment Approach in Some Performance Evaluation Problems. <i>Stochastic Models</i> , 2004 , 20, 439-456	0.5	24

180	Moments and sums of squares for polynomial optimization and related problems. <i>Journal of Global Optimization</i> , 2009 , 45, 39-61	1.5	23
179	Robust hierarchical production planning under uncertainty. <i>Annals of Operations Research</i> , 1990 , 26, 73-87	3.2	23
178	Measuring decision flexibility in production planning. <i>IEEE Transactions on Automatic Control</i> , 1985 , 30, 447-452	5.9	23
177	Fast and Accurate Computation of Orbital Collision Probability for Short-Term Encounters. <i>Journal of Guidance, Control, and Dynamics</i> , 2016 , 39, 1009-1021	2.1	22
176	New approximations for the cone of copositive matrices and its dual. <i>Mathematical Programming</i> , 2014 , 144, 265-276	2.1	21
175	Fatou's Lemma and Lebesgue's convergence theorem for measures. <i>Journal of Applied Mathematics and Stochastic Analysis</i> , 2000 , 13, 137-146		21
174	Integration and homogeneous functions. <i>Proceedings of the American Mathematical Society</i> , 1999 , 127, 813-818	0.8	21
173	Average cost Markov Decision Processes: Optimality conditions. <i>Journal of Mathematical Analysis and Applications</i> , 1991 , 158, 396-406	1.1	21
172	An on-line procedure in discounted infinite-horizon stochastic optimal control. <i>Journal of Optimization Theory and Applications</i> , 1986 , 50, 61-67	1.6	21
171	On Polynomial Optimization Over Non-compact Semi-algebraic Sets. <i>Journal of Optimization Theory and Applications</i> , 2014 , 163, 707-718	1.6	20
170	Average cost optimal policies for Markov control processes with Borel state space and unbounded costs. <i>Systems and Control Letters</i> , 1990 , 15, 349-356	2.4	20
169	Minimizing the sum of many rational functions. <i>Mathematical Programming Computation</i> , 2016 , 8, 83-117	7.8	19
168	Inverse optimal control with polynomial optimization 2014 ,		19
167	LMIs for constrained polynomial interpolation with application in trajectory planning. <i>Systems and Control Letters</i> , 2006 , 55, 473-477	2.4	19
166	A Joint+Marginal Approach to Parametric Polynomial Optimization. <i>SIAM Journal on Optimization</i> , 2010 , 20, 1995-2022	2	17
165	Ergodic Theorems and Ergodic Decomposition for Markov Chains. <i>Acta Applicandae Mathematicae</i> , 1998 , 54, 99-119	1.1	17
164	Robust global optimization with polynomials. <i>Mathematical Programming</i> , 2006 , 107, 275-293	2.1	17
163	. <i>IEEE Transactions on Automatic Control</i> , 2014 , 59, 1374-1379	5.9	15

162	Moment matrices, border bases and real radical computation. <i>Journal of Symbolic Computation</i> , 2013 , 51, 63-85	0.8	15
161	Optimisation globale et th�orie des moments. <i>Comptes Rendus Mathematique</i> , 2000 , 331, 929-934		15
160	Linear Programming and Average Optimality of Markov Control Processes on Borel Spaces Unbounded Costs. <i>SIAM Journal on Control and Optimization</i> , 1994 , 32, 480-500	1.9	15
159	Denumerable state nonhomogeneous Markov decision processes. <i>Journal of Mathematical Analysis and Applications</i> , 1990 , 153, 64-77	1.1	15
158	A globally convergent algorithm for exact penalty functions. <i>European Journal of Operational Research</i> , 1981 , 7, 389-395	5.6	15
157	A Unified Framework for Solving a General Class of Conditional and Robust Set-Membership Estimation Problems. <i>IEEE Transactions on Automatic Control</i> , 2014 , 59, 2897-2909	5.9	14
156	Invariant probabilities for Markov chains on a metric space. <i>Statistics and Probability Letters</i> , 1997 , 34, 259-265	0.6	14
155	An iterative procedure for lot streaming in job-shop scheduling. <i>Computers and Industrial Engineering</i> , 1993 , 25, 231-234	6.4	14
154	Chordal-TSSOS: A Moment-SOS Hierarchy That Exploits Term Sparsity with Chordal Extension. <i>SIAM Journal on Optimization</i> , 2021 , 31, 114-141	2	14
153	A MAX-CUT formulation of 0/1 programs. <i>Operations Research Letters</i> , 2016 , 44, 158-164	1	13
152	Positivity and Optimization for Semi-Algebraic Functions. <i>SIAM Journal on Optimization</i> , 2010 , 20, 3364-3383		13
151	Policy Iteration for Average Cost Markov Control Processes on Borel Spaces. <i>Acta Applicandae Mathematicae</i> , 1997 , 47, 125-154	1.1	13
150	Sufficient conditions for a real polynomial to be a sum of squares. <i>Archiv Der Mathematik</i> , 2007 , 89, 390-398		13
149	A formula for singular perturbations of Markov chains. <i>Journal of Applied Probability</i> , 1994 , 31, 829-833	0.8	13
148	Strong 1-optimal stationary policies in denumerable Markov decision processes. <i>Systems and Control Letters</i> , 1988 , 11, 65-71	2.4	13
147	A forecast horizon and a stopping rule for general Markov decision processes. <i>Journal of Mathematical Analysis and Applications</i> , 1988 , 132, 388-400	1.1	13
146	Conditions for existence of average and Blackwell optimal stationary policies in denumerable Markov decision processes. <i>Journal of Mathematical Analysis and Applications</i> , 1988 , 136, 479-489	1.1	13
145	The fundamental matrix of singularly perturbed Markov chains. <i>Advances in Applied Probability</i> , 1999 , 31, 679-697	0.7	13

144	Semidefinite programming for minmax problems and games. <i>Mathematical Programming</i> , 2012 , 131, 305-332	2.1	12
143	Tractable approximations of sets defined with quantifiers. <i>Mathematical Programming</i> , 2015 , 151, 507-527		12
142	On convex optimization without convex representation. <i>Optimization Letters</i> , 2011 , 5, 549-556	1.1	12
141	Discrete-time stochastic optimal control via occupation measures and moment relaxations 2009 ,		12
140	The \mathbf{K} -moment problem for continuous linear functionals. <i>Transactions of the American Mathematical Society</i> , 2012 , 365, 2489-2504	1	12
139	Linear Programming Approximations for Markov Control Processes in Metric Spaces. <i>Acta Applicandae Mathematicae</i> , 1998 , 51, 123-139	1.1	12
138	The fundamental matrix of singularly perturbed Markov chains. <i>Advances in Applied Probability</i> , 1999 , 31, 679-697	0.7	12
137	Infinite horizon nonstationary stochastic optimal control problem: A planning horizon result. <i>IEEE Transactions on Automatic Control</i> , 1984 , 29, 836-837	5.9	12
136	Solving a class of multivariate integration problems via Laplace techniques. <i>Applications Mathematicae</i> , 2001 , 28, 391-405	2	12
135	Semidefinite Approximations of Projections and Polynomial Images of SemiAlgebraic Sets. <i>SIAM Journal on Optimization</i> , 2015 , 25, 2143-2164	2	11
134	Introduction to Semidefinite, Conic and Polynomial Optimization. <i>Profiles in Operations Research</i> , 2012 , 1-22	1	11
133	Nonlinear optimal control synthesis via occupation measures 2008 ,		11
132	Nonlinear optimal control: approximations via moments and LMI-relaxations		11
131	Convex underestimators of polynomials. <i>Journal of Global Optimization</i> , 2013 , 56, 1-25	1.5	10
130	Algebraic Exponential Data Recovery from Moments. <i>Discrete and Computational Geometry</i> , 2015 , 54, 993-1012	0.6	10
129	Optimization as motion selection principle in robot action. <i>Communications of the ACM</i> , 2015 , 58, 64-74	2.5	10
128	Optimality in robot motion. <i>Communications of the ACM</i> , 2014 , 57, 82-89	2.5	10
127	A prolongation projection algorithm for computing the finite real variety of an ideal. <i>Theoretical Computer Science</i> , 2009 , 410, 2685-2700	1.1	10

126	Representation of nonnegative convex polynomials. <i>Archiv Der Mathematik</i> , 2008 , 91, 126-130	0.4	10
125	Sum of Squares Approximation of Polynomials, Nonnegative on a Real Algebraic Set. <i>SIAM Journal on Optimization</i> , 2005 , 16, 610-628	2	10
124	Mathematical Properties of Optimization Problems Defined by Positively Homogeneous Functions. <i>Journal of Optimization Theory and Applications</i> , 2002 , 112, 31-52	1.6	10
123	Sample-path average optimality for Markov control processes. <i>IEEE Transactions on Automatic Control</i> , 1999 , 44, 1966-1971	5.9	10
122	Value Iteration and Rolling Plans for Markov Control Processes with Unbounded Rewards. <i>Journal of Mathematical Analysis and Applications</i> , 1993 , 177, 38-55	1.1	10
121	TSSOS: A Moment-SOS Hierarchy That Exploits Term Sparsity. <i>SIAM Journal on Optimization</i> , 2021 , 31, 30-58	2	10
120	Convergent Semidefinite Programming Relaxations for Global Bilevel Polynomial Optimization Problems. <i>SIAM Journal on Optimization</i> , 2016 , 26, 753-780	2	9
119	A generalization of Löwner-John's ellipsoid theorem. <i>Mathematical Programming</i> , 2015 , 152, 559-591	2.1	9
118	An algorithm for semi-infinite polynomial optimization. <i>Top</i> , 2012 , 20, 119-129	1.3	9
117	Min-max and robust polynomial optimization. <i>Journal of Global Optimization</i> , 2011 , 51, 1-10	1.5	9
116	Modern Optimization Modelling Techniques 2012 ,		9
115	The Integer Hull of a Convex Rational Polytope. <i>Discrete and Computational Geometry</i> , 2004 , 32, 129-139	0.6	9
114	The Multi-Dimensional Version of $\int_a^b x^p dx$. <i>American Mathematical Monthly</i> , 2001 , 108, 151	0.3	9
113	Average Optimal Stationary Policies and Linear Programming in Countable Space Markov Decision Processes. <i>Journal of Mathematical Analysis and Applications</i> , 1994 , 183, 233-249	1.1	9
112	Simulated annealing, random search, multistart or SAD?. <i>Systems and Control Letters</i> , 1987 , 8, 297-301	2.4	9
111	Detecting planning horizons in deterministic infinite horizon optimal control. <i>IEEE Transactions on Automatic Control</i> , 1986 , 31, 70-72	5.9	9
110	Bound-Constrained Polynomial Optimization Using Only Elementary Calculations. <i>Mathematics of Operations Research</i> , 2017 , 42, 834-853	1.5	8
109	Rank-Constrained Fundamental Matrix Estimation by Polynomial Global Optimization Versus the Eight-Point Algorithm. <i>Journal of Mathematical Imaging and Vision</i> , 2015 , 53, 42-60	1.6	8

108	A Lagrangian Relaxation View of Linear and Semidefinite Hierarchies. <i>SIAM Journal on Optimization</i> , 2013 , 23, 1742-1756	2	8
107	Bounding the support of a measure from its marginal moments. <i>Proceedings of the American Mathematical Society</i> , 2011 , 139, 3375-3375	0.8	8
106	Tight bounds for the trace of a matrix product. <i>IEEE Transactions on Automatic Control</i> , 1997 , 42, 578-581	5.9	8
105	Integer programming, Barvinok's counting algorithm and Gomory relaxations. <i>Operations Research Letters</i> , 2004 , 32, 133-137	1	8
104	An Alternative Algorithm for Counting Lattice Points in a Convex Polytope. <i>Mathematics of Operations Research</i> , 2005 , 30, 597-614	1.5	8
103	The Multi-Dimensional Version of Barycentric Coordinates. <i>American Mathematical Monthly</i> , 2001 , 108, 151-154	0.3	8
102	Consistency of a linear system of inequalities. <i>Journal of Optimization Theory and Applications</i> , 1986 , 49, 177-179	1.6	8
101	Aggregate model and decomposition method for mid-term production planning. <i>International Journal of Production Research</i> , 1983 , 21, 835-843	7.8	8
100	The empirical Christoffel function with applications in data analysis. <i>Advances in Computational Mathematics</i> , 2019 , 45, 1439-1468	1.6	7
99	Linear Conic Optimization for Inverse Optimal Control. <i>SIAM Journal on Control and Optimization</i> , 2016 , 54, 1798-1825	1.9	7
98	Analytic perturbation of generalized inverses. <i>Linear Algebra and Its Applications</i> , 2013 , 438, 1793-1813	0.9	7
97	Moment LMI approach to LTV impulsive control 2013 ,		7
96	A Farkas lemma Without A Standard Closure Condition. <i>SIAM Journal on Control and Optimization</i> , 1997 , 35, 265-272	1.9	7
95	Hierarchical scheduling for decision support. <i>Journal of Intelligent Manufacturing</i> , 2005 , 16, 235-242	6.7	7
94	The Linear Programming Approach. <i>Profiles in Operations Research</i> , 2002 , 377-407	1	7
93	Mean Squared Error Minimization for Inverse Moment Problems. <i>Applied Mathematics and Optimization</i> , 2014 , 70, 83-110	1.5	6
92	Approximating Pareto curves using semidefinite relaxations. <i>Operations Research Letters</i> , 2014 , 42, 432-437		6
91	A discrete Farkas lemma. <i>Discrete Optimization</i> , 2004 , 1, 67-75	1	6

90	Further criteria for positive Harris recurrence of Markov chains. <i>Proceedings of the American Mathematical Society</i> , 2000 , 129, 1521-1524	0.8	6
89	On the existence of a quasistationary measure for a Markov chain. <i>Annals of Probability</i> , 2001 , 29, 437	1.9	6
88	Invariant probabilities for Feller-Markov chains. <i>Journal of Applied Mathematics and Stochastic Analysis</i> , 1995 , 8, 341-345		6
87	A formula for singular perturbations of Markov chains. <i>Journal of Applied Probability</i> , 1994 , 31, 829-833	0.8	6
86	Reachable and controllable sets for two-dimensional, linear, discrete-time systems. <i>Journal of Optimization Theory and Applications</i> , 1991 , 70, 583-595	1.6	6
85	Sparse polynomial interpolation: sparse recovery, super-resolution, or Prony?. <i>Advances in Computational Mathematics</i> , 2019 , 45, 1401-1437	1.6	5
84	Computation of Chebyshev Polynomials for Union of Intervals. <i>Computational Methods and Function Theory</i> , 2019 , 19, 625-641	0.9	5
83	Lower bounds on the global minimum of a polynomial. <i>Computational Optimization and Applications</i> , 2014 , 57, 387-402	1.4	5
82	Representation of Chance-Constraints With Strong Asymptotic Guarantees 2017 , 1, 50-55		5
81	Recovering an Homogeneous Polynomial from Moments of Its Level Set. <i>Discrete and Computational Geometry</i> , 2013 , 50, 673-678	0.6	5
80	Pythagoras' Theorem for Areas. <i>American Mathematical Monthly</i> , 2001 , 108, 549-551	0.3	5
79	. <i>IEEE Transactions on Automatic Control</i> , 1995 , 40, 1131-1133	5.9	5
78	Linear programming formulation of MDPs in countable state space: The multichain case. <i>Zeitschrift Fuer Operations-Research, Serie B: Praxis</i> , 1994 , 40, 91-108		5
77	Weak conditions for average optimality in Markov control processes. <i>Systems and Control Letters</i> , 1994 , 22, 287-291	2.4	5
76	Exact formula for sensitivity analysis of Markov chains. <i>Journal of Optimization Theory and Applications</i> , 1991 , 71, 407-413	1.6	5
75	A complete characterization of reachable sets for constrained linear time-varying systems. <i>IEEE Transactions on Automatic Control</i> , 1987 , 32, 836-838	5.9	5
74	Pythagoras' Theorem for Areas		5
73	In SDP Relaxations, Inaccurate Solvers Do Robust Optimization. <i>SIAM Journal on Optimization</i> , 2019 , 29, 2128-2145	2	4

72	Level Sets and NonGaussian Integrals of Positively Homogeneous Functions. <i>International Game Theory Review</i> , 2015 , 17, 1540001	0.2	4
71	Computing Gaussian & exponential measures of semi-algebraic sets. <i>Advances in Applied Mathematics</i> , 2017 , 91, 137-163	0.8	4
70	The truncated K-moment problem for closure of open sets. <i>Journal of Functional Analysis</i> , 2012 , 263, 3604-3616	1.4	4
69	Inverse Polynomial Optimization. <i>Mathematics of Operations Research</i> , 2013 , 38, 418-436	1.5	4
68	Moment and SDP relaxation techniques for smooth approximations of problems involving nonlinear differential equations. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2011 , 44, 10887-10892		4
67	Measures with zeros in the inverse of their moment matrix. <i>Annals of Probability</i> , 2008 , 36,	1.9	4
66	Approximating integrals of multivariate exponentials: A moment approach. <i>Operations Research Letters</i> , 2008 , 36, 205-210	1	4
65	Solving the knapsack problem via -transform. <i>Operations Research Letters</i> , 2002 , 30, 394-400	1	4
64	Polynomials with All Zeros Real and in a Prescribed Interval. <i>Journal of Algebraic Combinatorics</i> , 2002 , 16, 231-237	0.8	4
63	Analytic perturbation of Sylvester matrix equations. <i>IEEE Transactions on Automatic Control</i> , 2002 , 47, 1116-1119	5.9	4
62	Why the logarithmic barrier function in convex and linear programming?. <i>Operations Research Letters</i> , 2000 , 27, 149-152	1	4
61	A Quick Proof for the Volume of n-Balls. <i>American Mathematical Monthly</i> , 2001 , 108, 768-769	0.3	4
60	Existence and Uniqueness of Fixed Points for Markov Operators and Markov Processes. <i>Proceedings of the London Mathematical Society</i> , 1998 , 76, 711-736	1.2	4
59	On the open-loop solution of linear stochastic optimal control problems. <i>IEEE Transactions on Automatic Control</i> , 1984 , 29, 562-564	5.9	4
58	A property of certain multistage linear programs and some applications. <i>Journal of Optimization Theory and Applications</i> , 1981 , 34, 197-205	1.6	4
57	A moment approach for entropy solutions to nonlinear hyperbolic PDEs. <i>Mathematical Control and Related Fields</i> , 2020 , 10, 113-140	1.5	4
56	Connecting optimization with spectral analysis of tri-diagonal matrices. <i>Mathematical Programming</i> , 2020 , 190, 795	2.1	4
55	Semidefinite Approximations of the Polynomial Abscissa. <i>SIAM Journal on Control and Optimization</i> , 2016 , 54, 1633-1656	1.9	3

54	Convex Optimization and Parsimony of L_p -balls Representation. <i>SIAM Journal on Optimization</i> , 2016 , 26, 247-273	2	3
53	Volume of Sublevel Sets of Homogeneous Polynomials. <i>SIAM Journal on Applied Algebra and Geometry</i> , 2019 , 3, 372-389	1.5	3
52	Borel measures with a density on a compact semi-algebraic set. <i>Archiv Der Mathematik</i> , 2013 , 101, 361-374		3
51	Certificates of convexity for basic semi-algebraic sets. <i>Applied Mathematics Letters</i> , 2010 , 23, 912-916	3.5	3
50	La valeur optimale des programmes entiers. <i>Comptes Rendus Mathematique</i> , 2002 , 335, 863-866	0.4	3
49	Average Optimality in Markov Control Processes via Discounted-Cost Problems and Linear Programming. <i>SIAM Journal on Control and Optimization</i> , 1996 , 34, 295-310	1.9	3
48	Linear programming with positive semi-definite matrices. <i>Mathematical Problems in Engineering</i> , 1996 , 2, 499-522	1.1	3
47	The Moment-SOS Hierarchy 2020 ,		3
46	Lebesgue decomposition in action via semidefinite relaxations. <i>Advances in Computational Mathematics</i> , 2016 , 42, 1129-1148	1.6	2
45	The existence of Gaussian cubature formulas. <i>Journal of Approximation Theory</i> , 2012 , 164, 572-585	0.9	2
44	Volume of slices and sections of the simplex in closed form. <i>Optimization Letters</i> , 2015 , 9, 1263-1269	1.1	2
43	A bint + marginal heuristic for 0/1 programs. <i>Journal of Global Optimization</i> , 2012 , 54, 729-744	1.5	2
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