

Juan R Torregrosa

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.

228
papers

2,784
citations

25
h-index

43
g-index

252
ext. papers

3,150
ext. citations

2
avg, IF

5.71
L-index

#	Paper	IF	Citations
228	Variants of Newton's Method using fifth-order quadrature formulas. <i>Applied Mathematics and Computation</i> , 2007 , 190, 686-698	2.7	263
227	A modified Newton-Jarratt's composition. <i>Numerical Algorithms</i> , 2010 , 55, 87-99	2.1	154
226	Drawing dynamical and parameters planes of iterative families and methods. <i>Scientific World Journal, The</i> , 2013 , 2013, 780153	2.2	114
225	Chaos in King's iterative family. <i>Applied Mathematics Letters</i> , 2013 , 26, 842-848	3.5	105
224	Complex dynamics of derivative-free methods for nonlinear equations. <i>Applied Mathematics and Computation</i> , 2013 , 219, 7023-7035	2.7	84
223	Dynamics of a family of Chebyshev-Halley type methods. <i>Applied Mathematics and Computation</i> , 2013 , 219, 8568-8583	2.7	72
222	Increasing the convergence order of an iterative method for nonlinear systems. <i>Applied Mathematics Letters</i> , 2012 , 25, 2369-2374	3.5	71
221	Variants of Newton's method for functions of several variables. <i>Applied Mathematics and Computation</i> , 2006 , 183, 199-208	2.7	68
220	Iterative methods of order four and five for systems of nonlinear equations. <i>Journal of Computational and Applied Mathematics</i> , 2009 , 231, 541-551	2.4	56
219	Three-step iterative methods with optimal eighth-order convergence. <i>Journal of Computational and Applied Mathematics</i> , 2011 , 235, 3189-3194	2.4	55
218	New modifications of Potra's method with optimal fourth and eighth orders of convergence. <i>Journal of Computational and Applied Mathematics</i> , 2010 , 234, 2969-2976	2.4	54
217	On developing fourth-order optimal families of methods for multiple roots and their dynamics. <i>Applied Mathematics and Computation</i> , 2015 , 265, 520-532	2.7	43
216	A class of Steffensen type methods with optimal order of convergence. <i>Applied Mathematics and Computation</i> , 2011 , 217, 7653-7659	2.7	40
215	An optimal fourth-order family of methods for multiple roots and its dynamics. <i>Numerical Algorithms</i> , 2016 , 71, 775-796	2.1	39
214	Stability analysis of fourth-order iterative method for finding multiple roots of non-linear equations. <i>Applied Mathematics and Nonlinear Sciences</i> , 2019 , 4, 43-56	4	39
213	Some new efficient multipoint iterative methods for solving nonlinear systems of equations. <i>International Journal of Computer Mathematics</i> , 2015 , 92, 1921-1934	1.2	34
212	A fractional Newton method with 2 th -order of convergence and its stability. <i>Applied Mathematics Letters</i> , 2019 , 98, 344-351	3.5	29

211	Steffensen type methods for solving nonlinear equations. <i>Journal of Computational and Applied Mathematics</i> , 2012 , 236, 3058-3064	2.4	29
210	Stability analysis of a parametric family of iterative methods for solving nonlinear models. <i>Applied Mathematics and Computation</i> , 2016 , 285, 26-40	2.7	28
209	On the local convergence of a fifth-order iterative method in Banach spaces. <i>Applied Mathematics and Computation</i> , 2015 , 251, 396-403	2.7	26
208	Stability study of eighth-order iterative methods for solving nonlinear equations. <i>Journal of Computational and Applied Mathematics</i> , 2016 , 291, 348-357	2.4	26
207	Increasing the order of convergence of iterative schemes for solving nonlinear systems. <i>Journal of Computational and Applied Mathematics</i> , 2013 , 252, 86-94	2.4	26
206	Modified Newton's method for systems of nonlinear equations with singular Jacobian. <i>Journal of Computational and Applied Mathematics</i> , 2009 , 224, 77-83	2.4	26
205	An efficient two-parametric family with memory for nonlinear equations. <i>Numerical Algorithms</i> , 2015 , 68, 323-335	2.1	25
204	Real qualitative behavior of a fourth-order family of iterative methods by using the convergence plane. <i>Mathematics and Computers in Simulation</i> , 2014 , 105, 49-61	3.3	25
203	Dynamical analysis of iterative methods for nonlinear systems or how to deal with the dimension?. <i>Applied Mathematics and Computation</i> , 2014 , 244, 398-412	2.7	24
202	Pseudocomposition: A technique to design predictor-corrector methods for systems of nonlinear equations. <i>Applied Mathematics and Computation</i> , 2012 , 218, 11496-11504	2.7	24
201	A new technique to obtain derivative-free optimal iterative methods for solving nonlinear equations. <i>Journal of Computational and Applied Mathematics</i> , 2013 , 252, 95-102	2.4	24
200	Approximation of artificial satellites' preliminary orbits: The efficiency challenge. <i>Mathematical and Computer Modelling</i> , 2011 , 54, 1802-1807		24
199	A new fourth-order family for solving nonlinear problems and its dynamics. <i>Journal of Mathematical Chemistry</i> , 2015 , 53, 893-910	2.1	23
198	Efficient high-order methods based on golden ratio for nonlinear systems. <i>Applied Mathematics and Computation</i> , 2011 , 217, 4548-4556	2.7	23
197	On a Novel Fourth-Order Algorithm for Solving Systems of Nonlinear Equations. <i>Journal of Applied Mathematics</i> , 2012 , 2012, 1-12	1.1	23
196	On improved three-step schemes with high efficiency index and their dynamics. <i>Numerical Algorithms</i> , 2014 , 65, 153-169	2.1	22
195	A family of modified Ostrowski's methods with optimal eighth order of convergence. <i>Applied Mathematics Letters</i> , 2011 , 24, 2082-2086	3.5	22
194	An eighth-order family of optimal multiple root finders and its dynamics. <i>Numerical Algorithms</i> , 2018 , 77, 1249-1272	2.1	20

193	Efficient High-Order Iterative Methods for Solving Nonlinear Systems and Their Application on Heat Conduction Problems. <i>Complexity</i> , 2017 , 2017, 1-11	1.6	20
192	Basins of Attraction for Various Steffensen-Type Methods. <i>Journal of Applied Mathematics</i> , 2014 , 2014, 1-17	1.1	20
191	Generating optimal derivative free iterative methods for nonlinear equations by using polynomial interpolation. <i>Mathematical and Computer Modelling</i> , 2013 , 57, 1950-1956		20
190	Solutions of fractional gas dynamics equation by a new technique. <i>Mathematical Methods in the Applied Sciences</i> , 2020 , 43, 1349-1358	2.3	20
189	A multidimensional dynamical approach to iterative methods with memory. <i>Applied Mathematics and Computation</i> , 2015 , 271, 701-715	2.7	19
188	Low-complexity root-finding iteration functions with no derivatives of any order of convergence. <i>Journal of Computational and Applied Mathematics</i> , 2015 , 275, 502-515	2.4	19
187	Solving nonlinear problems by Ostrowski–Thun type parametric families. <i>Journal of Mathematical Chemistry</i> , 2015 , 53, 430-449	2.1	18
186	Semilocal convergence by using recurrence relations for a fifth-order method in Banach spaces. <i>Journal of Computational and Applied Mathematics</i> , 2015 , 273, 205-213	2.4	18
185	Optimal iterative methods for finding multiple roots of nonlinear equations using free parameters. <i>Journal of Mathematical Chemistry</i> , 2018 , 56, 1884-1901	2.1	18
184	Multidimensional generalization of iterative methods for solving nonlinear problems by means of weight-function procedure. <i>Applied Mathematics and Computation</i> , 2015 , 268, 1064-1071	2.7	17
183	Study of iterative methods through the Cayley Quadratic Test. <i>Journal of Computational and Applied Mathematics</i> , 2016 , 291, 358-369	2.4	17
182	On interpolation variants of Newton’s method for functions of several variables. <i>Journal of Computational and Applied Mathematics</i> , 2010 , 234, 34-43	2.4	17
181	A family of iterative methods with sixth and seventh order convergence for nonlinear equations. <i>Mathematical and Computer Modelling</i> , 2010 , 52, 1490-1496		17
180	P-matrix completions under weak symmetry assumptions. <i>Linear Algebra and Its Applications</i> , 2000 , 312, 73-91	0.9	17
179	Stability of King’s family of iterative methods with memory. <i>Journal of Computational and Applied Mathematics</i> , 2017 , 318, 504-514	2.4	16
178	Stable high-order iterative methods for solving nonlinear models. <i>Applied Mathematics and Computation</i> , 2017 , 303, 70-88	2.7	16
177	A class of optimal eighth-order derivative-free methods for solving the Danckwerts–Gauss problem. <i>Applied Mathematics and Computation</i> , 2014 , 232, 237-246	2.7	16
176	Third and fourth order iterative methods free from second derivative for nonlinear systems. <i>Applied Mathematics and Computation</i> , 2009 , 211, 190-197	2.7	15

175	A Totally Positive Factorization of Rectangular Matrices by the Neville Elimination. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2004 , 25, 986-994	1.5	15
174	A fast algorithm to solve systems of nonlinear equations. <i>Journal of Computational and Applied Mathematics</i> , 2019 , 354, 242-258	2.4	14
173	Accelerated iterative methods for finding solutions of nonlinear equations and their dynamical behavior. <i>Calcolo</i> , 2014 , 51, 17-30	1.5	14
172	Local convergence and dynamical analysis of a new family of optimal fourth-order iterative methods. <i>International Journal of Computer Mathematics</i> , 2013 , 90, 2049-2060	1.2	14
171	Fourth- and Fifth-Order Methods for Solving Nonlinear Systems of Equations: An Application to the Global Positioning System. <i>Abstract and Applied Analysis</i> , 2013 , 2013, 1-10	0.7	14
170	Using image recognition to automate video analysis of physical processes. <i>American Journal of Physics</i> , 2003 , 71, 1075-1079	0.7	13
169	Two Optimal General Classes of Iterative Methods with Eighth-Order. <i>Acta Applicandae Mathematicae</i> , 2014 , 134, 61-74	1.1	12
168	Iterative methods for use with nonlinear discrete algebraic models. <i>Mathematical and Computer Modelling</i> , 2010 , 52, 1251-1257		12
167	Dynamics and Fractal Dimension of Steffensen-Type Methods. <i>Algorithms</i> , 2015 , 8, 271-279	1.8	11
166	A stable family with high order of convergence for solving nonlinear equations. <i>Applied Mathematics and Computation</i> , 2015 , 254, 240-251	2.7	11
165	Efficient three-step iterative methods with sixth order convergence for nonlinear equations. <i>Numerical Algorithms</i> , 2010 , 53, 485-495	2.1	11
164	Construction of fourth-order optimal families of iterative methods and their dynamics. <i>Applied Mathematics and Computation</i> , 2015 , 271, 89-101	2.7	10
163	Choosing the most stable members of Kouř family of iterative methods. <i>Journal of Computational and Applied Mathematics</i> , 2018 , 330, 759-769	2.4	10
162	New efficient methods for solving nonlinear systems of equations with arbitrary even order. <i>Applied Mathematics and Computation</i> , 2016 , 287-288, 94-103	2.7	10
161	A Variant of Chebyshev's Method with 3th-Order of Convergence by Using Fractional Derivatives. <i>Symmetry</i> , 2019 , 11, 1017	2.7	10
160	Handling occlusion in object tracking in stereoscopic video sequences. <i>Mathematical and Computer Modelling</i> , 2009 , 50, 823-830		10
159	Stability and applicability of iterative methods with memory. <i>Journal of Mathematical Chemistry</i> , 2019 , 57, 1282-1300	2.1	10
158	Dynamics of iterative families with memory based on weight functions procedure. <i>Journal of Computational and Applied Mathematics</i> , 2019 , 354, 286-298	2.4	10

157	Two weighted eight-order classes of iterative root-finding methods. <i>International Journal of Computer Mathematics</i> , 2015 , 92, 1790-1805	1.2	9
156	Multipoint Fractional Iterative Methods with (2 ± 1) th-Order of Convergence for Solving Nonlinear Problems. <i>Mathematics</i> , 2020 , 8, 452	2.3	9
155	Preserving the order of convergence: Low-complexity Jacobian-free iterative schemes for solving nonlinear systems. <i>Journal of Computational and Applied Mathematics</i> , 2018 , 337, 87-97	2.4	9
154	Some results on B-matrices and doubly B-matrices. <i>Linear Algebra and Its Applications</i> , 2014 , 459, 101-120.	0.9	9
153	A new family of iterative methods widening areas of convergence. <i>Applied Mathematics and Computation</i> , 2015 , 252, 405-417	2.7	9
152	Sign pattern matrices that admit . <i>Linear Algebra and Its Applications</i> , 2009 , 431, 724-731	0.9	9
151	Convergence and Stability of a Parametric Class of Iterative Schemes for Solving Nonlinear Systems. <i>Mathematics</i> , 2021 , 9, 86	2.3	9
150	On the convergence of a higher order family of methods and its dynamics. <i>Journal of Computational and Applied Mathematics</i> , 2017 , 309, 542-562	2.4	8
149	One-point Newton-type iterative methods: A unified point of view. <i>Journal of Computational and Applied Mathematics</i> , 2015 , 275, 366-374	2.4	8
148	On the improvement of the order of convergence of iterative methods for solving nonlinear systems by means of memory. <i>Applied Mathematics Letters</i> , 2020 , 104, 106277	3.5	8
147	A family of Kurchatov-type methods and its stability. <i>Applied Mathematics and Computation</i> , 2017 , 294, 264-279	2.7	8
146	Dynamics of the family of c-iterative methods. <i>International Journal of Computer Mathematics</i> , 2015 , 92, 1815-1825	1.2	8
145	Handling occlusion in optical flow algorithms for object tracking. <i>Computers and Mathematics With Applications</i> , 2008 , 56, 733-742	2.7	8
144	Iterative Methods with Memory for Solving Systems of Nonlinear Equations Using a Second Order Approximation. <i>Mathematics</i> , 2019 , 7, 1069	2.3	8
143	An Efficient Family of Optimal Eighth-Order Multiple Root Finders. <i>Mathematics</i> , 2018 , 6, 310	2.3	8
142	Generating Root-Finder Iterative Methods of Second Order: Convergence and Stability. <i>Axioms</i> , 2019 , 8, 55	1.6	7
141	King-Type Derivative-Free Iterative Families: Real and Memory Dynamics. <i>Complexity</i> , 2017 , 2017, 1-15	1.6	7
140	Stability analysis of a parametric family of seventh-order iterative methods for solving nonlinear systems. <i>Applied Mathematics and Computation</i> , 2018 , 323, 43-57	2.7	7

139	Orbits of period two in the family of a multipoint variant of Chebyshev-Halley family. <i>Numerical Algorithms</i> , 2016 , 73, 141-156	2.1	7
138	Numerically stable improved Chebyshev-Halley type schemes for matrix sign function. <i>Journal of Computational and Applied Mathematics</i> , 2017 , 318, 189-198	2.4	7
137	Design and multidimensional extension of iterative methods for solving nonlinear problems. <i>Applied Mathematics and Computation</i> , 2017 , 293, 194-203	2.7	7
136	Numerical Solution of Turbulence Problems by Solving Burgers Equation. <i>Algorithms</i> , 2015 , 8, 224-233	1.8	7
135	On the convergence of a damped Newton-like method with modified right hand side vector. <i>Applied Mathematics and Computation</i> , 2015 , 266, 927-936	2.7	7
134	Study of the dynamics of third-order iterative methods on quadratic polynomials. <i>International Journal of Computer Mathematics</i> , 2012 , 89, 1826-1836	1.2	7
133	Accelerated methods of order . <i>Journal of Computational and Applied Mathematics</i> , 2010 , 233, 2696-2702	2.4	7
132	The totally positive completion problem. <i>Linear Algebra and Its Applications</i> , 2004 , 393, 259-274	0.9	7
131	Inverse M-matrix completion problem with zeros in the inverse completion. <i>Applied Mathematics Letters</i> , 2002 , 15, 677-684	3.5	7
130	An optimal and low computational cost fractional Newton-type method for solving nonlinear equations. <i>Applied Mathematics Letters</i> , 2022 , 124, 107650	3.5	7
129	Third-degree anomalies of Traub method. <i>Journal of Computational and Applied Mathematics</i> , 2017 , 309, 511-521	2.4	6
128	Multidimensional stability analysis of a family of biparametric iterative methods: CMMSE2016. <i>Journal of Mathematical Chemistry</i> , 2017 , 55, 1461-1480	2.1	6
127	Wide stability in a new family of optimal fourth-order iterative methods. <i>Computational and Mathematical Methods</i> , 2019 , 1, e1023	0.9	6
126	A novel bi-parametric sixth order iterative scheme for solving nonlinear systems and its dynamics. <i>Applied Mathematics and Computation</i> , 2019 , 357, 147-166	2.7	6
125	Some new bi-accelerator two-point methods for solving nonlinear equations. <i>Computational and Applied Mathematics</i> , 2016 , 35, 251-267		6
124	Multiplicity anomalies of an optimal fourth-order class of iterative methods for solving nonlinear equations. <i>Nonlinear Dynamics</i> , 2018 , 91, 81-112	5	6
123	Optimal iterative methods for finding multiple roots of nonlinear equations using weight functions and dynamics. <i>Journal of Computational and Applied Mathematics</i> , 2018 , 342, 352-374	2.4	6
122	Period-doubling bifurcations in the family of Chebyshev-Halley-type methods. <i>International Journal of Computer Mathematics</i> , 2013 , 90, 2061-2071	1.2	6

121	Widening basins of attraction of optimal iterative methods. <i>Nonlinear Dynamics</i> , 2017 , 87, 913-938	5	6
120	Design of High-Order Iterative Methods for Nonlinear Systems by Using Weight Function Procedure. <i>Abstract and Applied Analysis</i> , 2015 , 2015, 1-12	0.7	6
119	Optimal High-Order Methods for Solving Nonlinear Equations. <i>Journal of Applied Mathematics</i> , 2014 , 2014, 1-9	1.1	6
118	Iterative Methods for Nonlinear Equations or Systems and Their Applications. <i>Journal of Applied Mathematics</i> , 2013 , 2013, 1-2	1.1	6
117	Mathematical modeling and computational methods. <i>Journal of Computational and Applied Mathematics</i> , 2016 , 291, 1-4	2.4	5
116	A stable class of improved second-derivative free Chebyshev-Halley type methods with optimal eighth order convergence. <i>Numerical Algorithms</i> , 2016 , 72, 937-958	2.1	5
115	New family of iterative methods based on the Ermakov-Kalitkin scheme for solving nonlinear systems of equations. <i>Computational Mathematics and Mathematical Physics</i> , 2015 , 55, 1947-1959	0.9	5
114	A Family of Derivative-Free Methods with High Order of Convergence and Its Application to Nonsmooth Equations. <i>Abstract and Applied Analysis</i> , 2012 , 2012, 1-15	0.7	5
113	A class of multi-point iterative methods for nonlinear equations. <i>Applied Mathematics and Computation</i> , 2008 , 197, 337-344	2.7	5
112	N-matrix completion problem. <i>Linear Algebra and Its Applications</i> , 2003 , 372, 111-125	0.9	5
111	A Uniform Geometric Property of Banach Spaces. <i>Rocky Mountain Journal of Mathematics</i> , 1992 , 22,	1.4	5
110	Stability analysis of a family of optimal fourth-order methods for multiple roots. <i>Numerical Algorithms</i> , 2019 , 81, 947-981	2.1	5
109	Highly efficient iterative algorithms for solving nonlinear systems with arbitrary order of convergence $p+3$, p . <i>Journal of Computational and Applied Mathematics</i> , 2018 , 330, 748-758	2.4	4
108	On the extension of Householder's method for weighted Moore-Penrose inverse. <i>Applied Mathematics and Computation</i> , 2014 , 231, 407-413	2.7	4
107	Modifications of Newton's method to extend the convergence domain. <i>SeMA Journal</i> , 2014 , 66, 43-53	1.2	4
106	Bulbs of Period Two in the Family of Chebyshev-Halley Iterative Methods on Quadratic Polynomials. <i>Abstract and Applied Analysis</i> , 2013 , 2013, 1-10	0.7	4
105	Preliminary Orbit Determination of Artificial Satellites: A Vectorial Sixth-Order Approach. <i>Abstract and Applied Analysis</i> , 2013 , 2013, 1-10	0.7	4
104	Third order iterative methods free from second derivative for nonlinear systems. <i>Applied Mathematics and Computation</i> , 2009 , 215, 58-65	2.7	4

103	Fuzzy control for obstacle detection in stereo video sequences. <i>Mathematical and Computer Modelling</i> , 2011 , 54, 1813-1817		4
102	Fuzzy control for obstacle detection in object tracking. <i>Mathematical and Computer Modelling</i> , 2010 , 52, 1228-1236		4
101	Chaos and Stability in a New Iterative Family for Solving Nonlinear Equations. <i>Algorithms</i> , 2021 , 14, 101	1.8	4
100	New fourth- and sixth-order classes of iterative methods for solving systems of nonlinear equations and their stability analysis. <i>Numerical Algorithms</i> , 2021 , 87, 1017-1060	2.1	4
99	Damped Traub's method: Convergence and stability. <i>Mathematics and Computers in Simulation</i> , 2016 , 119, 57-68	3.3	3
98	Stability of a fourth order bi-parametric family of iterative methods. <i>Journal of Computational and Applied Mathematics</i> , 2017 , 312, 94-102	2.4	3
97	High order family of multivariate iterative methods: Convergence and stability. <i>Journal of Computational and Applied Mathematics</i> , 2020 , 405, 113053	2.4	3
96	Impact on Stability by the Use of Memory in Traub-Type Schemes. <i>Mathematics</i> , 2020 , 8, 274	2.3	3
95	Some variants of Halley's method with memory and their applications for solving several chemical problems. <i>Journal of Mathematical Chemistry</i> , 2020 , 58, 751-774	2.1	3
94	Dynamical Techniques for Analyzing Iterative Schemes with Memory. <i>Complexity</i> , 2018 , 2018, 1-13	1.6	3
93	Fixed Point Root-Finding Methods of Fourth-Order of Convergence. <i>Symmetry</i> , 2019 , 11, 769	2.7	3
92	A New Class of Iterative Processes for Solving Nonlinear Systems by Using One Divided Differences Operator. <i>Mathematics</i> , 2019 , 7, 776	2.3	3
91	On the jordan form of completions of partial upper triangular matrices. <i>Linear Algebra and Its Applications</i> , 1997 , 254, 241-250	0.9	3
90	Completions of partial P-matrices with acyclic or non-acyclic associated graph. <i>Linear Algebra and Its Applications</i> , 2003 , 368, 25-51	0.9	3
89	Multi-Point Iterative Methods for Systems of Nonlinear Equations. <i>Lecture Notes in Control and Information Sciences</i> , 2009 , 259-267	0.5	3
88	On the choice of the best members of the Kim family and the improvement of its convergence. <i>Mathematical Methods in the Applied Sciences</i> , 2020 , 43, 8051-8066	2.3	3
87	Generalized Inverses Estimations by Means of Iterative Methods with Memory. <i>Mathematics</i> , 2020 , 8, 2	2.3	3
86	A General Optimal Iterative Scheme with Arbitrary Order of Convergence. <i>Symmetry</i> , 2021 , 13, 884	2.7	3

85	A New Three-Step Class of Iterative Methods for Solving Nonlinear Systems. <i>Mathematics</i> , 2019 , 7, 1221-23	2.3	3
84	Avoiding strange attractors in efficient parametric families of iterative methods for solving nonlinear problems. <i>Applied Numerical Mathematics</i> , 2019 , 137, 1-18	2.5	3
83	A family of optimal fourth-order methods for multiple roots of nonlinear equations. <i>Mathematical Methods in the Applied Sciences</i> , 2020 , 43, 7869-7884	2.3	3
82	New Iterative Methods for Solving Nonlinear Problems with One and Several Unknowns. <i>Mathematics</i> , 2018 , 6, 296	2.3	3
81	Efficient Four-Parametric with-and-without-Memory Iterative Methods Possessing High Efficiency Indices. <i>Mathematical Problems in Engineering</i> , 2018 , 2018, 1-12	1.1	3
80	A new higher-order optimal derivative free scheme for multiple roots. <i>Journal of Computational and Applied Mathematics</i> , 2021 , 113773	2.4	3
79	A Convex Combination Approach for Mean-Based Variants of Newton's Method. <i>Symmetry</i> , 2019 , 11, 1106	2.7	2
78	A new efficient parametric family of iterative methods for solving nonlinear systems. <i>Journal of Difference Equations and Applications</i> , 2019 , 25, 1454-1467	1	2
77	A class of four parametric with- and without-memory root finding methods. <i>Computational and Mathematical Methods</i> , 2019 , 1, e1024	0.9	2
76	On the convergence of a Damped Secant method with modified right-hand side vector. <i>Applied Mathematics and Computation</i> , 2015 , 252, 315-323	2.7	2
75	Optimal eighth-order iterative methods for approximating multiple zeros of nonlinear functions. <i>Revista De La Real Academia De Ciencias Exactas, Fisicas Y Naturales - Serie A: Matematicas</i> , 2020 , 114, 1	1.6	2
74	Dynamical analysis on cubic polynomials of Damped Traub's method for approximating multiple roots. <i>Applied Mathematics and Computation</i> , 2018 , 328, 82-99	2.7	2
73	On generalization based on bi et Al. Iterative methods with eighth-order convergence for solving nonlinear equations. <i>Scientific World Journal, The</i> , 2014 , 2014, 272949	2.2	2
72	Iterative Methods for Nonlinear Equations or Systems and Their Applications 2014. <i>Journal of Applied Mathematics</i> , 2014 , 2014, 1-2	1.1	2
71	Some results about inverse-positive matrices. <i>Applied Mathematics and Computation</i> , 2011 , 218, 130-139	2.7	2
70	Artificial satellites preliminary orbit determination by the modified high-order Gauss method. <i>International Journal of Computer Mathematics</i> , 2012 , 89, 347-356	1.2	2
69	An algorithm for nilpotent completions of partial Jordan matrices. <i>Linear Algebra and Its Applications</i> , 1998 , 275-276, 315-325	0.9	2
68	Totally nonpositive completions on partial matrices. <i>Linear Algebra and Its Applications</i> , 2006 , 413, 403-424	2.4	2

67	The N-matrix completion problem under digraphs assumptions. <i>Linear Algebra and Its Applications</i> , 2004 , 380, 213-225	0.9	2
66	The doubly negative matrix completion problem. <i>Linear Algebra and Its Applications</i> , 2005 , 401, 295-306	0.9	2
65	CMMSE-2019 mean-based iterative methods for solving nonlinear chemistry problems. <i>Journal of Mathematical Chemistry</i> , 2020 , 58, 555-572	2.1	2
64	Design, Analysis, and Applications of Iterative Methods for Solving Nonlinear Systems 2016 ,		2
63	Generalized High-Order Classes for Solving Nonlinear Systems and Their Applications. <i>Mathematics</i> , 2019 , 7, 1194	2.3	2
62	Stability analysis of Jacobian-free iterative methods for solving nonlinear systems by using families of mth power divided differences. <i>Journal of Mathematical Chemistry</i> , 2019 , 57, 1344-1373	2.1	2
61	Design, Convergence and Stability of a Fourth-Order Class of Iterative Methods for Solving Nonlinear Vectorial Problems. <i>Fractal and Fractional</i> , 2021 , 5, 125	3	2
60	A sixth-order iterative method for approximating the polar decomposition of an arbitrary matrix. <i>Journal of Computational and Applied Mathematics</i> , 2017 , 318, 591-598	2.4	1
59	An Efficient Iterative Method Based on Two-Stage Splitting Methods to Solve Weakly Nonlinear Systems. <i>Mathematics</i> , 2019 , 7, 815	2.3	1
58	On the effect of the multidimensional weight functions on the stability of iterative processes. <i>Journal of Computational and Applied Mathematics</i> , 2020 , 113052	2.4	1
57	Chaos and convergence of a family generalizing Homeier's method with damping parameters. <i>Nonlinear Dynamics</i> , 2016 , 85, 1939-1954	5	1
56	Derivative-free high-order methods applied to preliminary orbit determination. <i>Mathematical and Computer Modelling</i> , 2013 , 57, 1795-1799		1
55	A dynamical comparison between iterative methods with memory: Are the derivatives good for the memory?. <i>Journal of Computational and Applied Mathematics</i> , 2017 , 318, 335-347	2.4	1
54	The completable digraphs for the totally nonnegative completion problem. <i>Linear Algebra and Its Applications</i> , 2009 , 430, 1675-1690	0.9	1
53	completions on partial matrices. <i>Applied Mathematics and Computation</i> , 2009 , 211, 303-312	2.7	1
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