Alicia Cordero

List of Publications by Year
in descending order

201 papers	3,429 citations	201674 27 h-index	197818 49 g-index
209 all docs	209 docs citations	209 times ranked	614 citing authors

#	Article	IF	Citations
1	Variants of Newtonâ€™s Method using fifth-order quadrature formulas. Applied Mathematics and Computation, 2007, 190, 686-698.	2.2	324
2	A modified Newton-Jarrattâ€™s composition. Numerical Algorithms, 2010, 55, 87-99.	1.9	186
3	Drawing Dynamical and Parameters Planes of Iterative Families and Methods. Scientific World Journal, The, 2013, 2013, 1-11.	2.1	135
4	Chaos in Kingâ€™s iterative family. Applied Mathematics Letters, 2013, 26, 842-848.	2.7	118
5	Increasing the convergence order of an iterative method for nonlinear systems. Applied Mathematics Letters, 2012, 25, 2369-2374.	2.7	94
6	Complex dynamics of derivative-free methods for nonlinear equations. Applied Mathematics and Computation, 2013, 219, 7023-7035.	2.2	90
7	Variants of Newtonâ€™s method for functions of several variables. Applied Mathematics and Computation, 2006, 183, 199-208.	2.2	84
8	Dynamics of a family of Chebyshevâ€“Halley type methods. Applied Mathematics and Computation, 2013, 219, 8568-8583.	2.2	82
9	Iterative methods of order four and five for systems of nonlinear equations. Journal of Computational and Applied Mathematics, 2009, 231, 541-551.	2.0	72
10	Three-step iterative methods with optimal eighth-order convergence. Journal of Computational and Applied Mathematics, 2011, 235, 3189-3194.	2.0	67
11	New modifications of Potraâ€“PtÃ¡kâ€™s method with optimal fourth and eighth orders of convergence. Journal of Computational and Applied Mathematics, 2010, 234, 2969-2976.	2.0	65
12	A fractional Newton method with <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e1422" altimg="si1.svg"><mml:mn>2</mml:mn><mml:mi>Î±</mml:mi></mml:math>th-order of convergence and its stability. Applied Mathematics Letters, 2019, 98, 344-351.	2.7	51
13	Stability analysis of fourth-order iterative method for finding multiple roots of non-linear equations. Applied Mathematics and Nonlinear Sciences, 2019, 4, 43-56.	1.6	50
14	Steffensen type methods for solving nonlinear equations. Journal of Computational and Applied Mathematics, 2012, 236, 3058-3064.	2.0	48
15	On developing fourth-order optimal families of methods for multiple roots and their dynamics. Applied Mathematics and Computation, 2015, 265, 520-532.	2.2	48
16	An optimal fourth-order family of methods for multiple roots and its dynamics. Numerical Algorithms, 2016, 71, 775-796.	1.9	48
17	A class of Steffensen type methods with optimal order of convergence. Applied Mathematics and Computation, 2011, 217, 7653-7659.	2.2	45
18	Some new efficient multipoint iterative methods for solving nonlinear systems of equations. International Journal of Computer Mathematics, 2015, 92, 1921-1934.	1.8	43

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19	On the local convergence of a fifth-order iterative method in Banach spaces. Applied Mathematics and Computation, 2015, 251, 396-403.	2.2	36
20	Approximation of artificial satellitesâ€™ preliminary orbits: The efficiency challenge. Mathematical and Computer Modelling, 2011, 54, 1802-1807.	2.0	35
21	A new technique to obtain derivative-free optimal iterative methods for solving nonlinear equations. Journal of Computational and Applied Mathematics, 2013, 252, 95-102.	2.0	34
22	An efficient two-parametric family with memory for nonlinear equations. Numerical Algorithms, 2015, 68, 323-335.	1.9	32
23	Efficient high-order methods based on golden ratio for nonlinear systems. Applied Mathematics and Computation, 2011, 217, 4548-4556.	2.2	30
24	Increasing the order of convergence of iterative schemes for solving nonlinear systems. Journal of Computational and Applied Mathematics, 2013, 252, 86-94.	2.0	30
25	Dynamical analysis of iterative methods for nonlinear systems or how to deal with the dimension?. Applied Mathematics and Computation, 2014, 244, 398-412.	2.2	30
26	Stability analysis of a parametric family of iterative methods for solving nonlinear models. Applied Mathematics and Computation, 2016, 285, 26-40.	2.2	30
27	Pseudocomposition: A technique to design predictorâ€“corrector methods for systems of nonlinear equations. Applied Mathematics and Computation, 2012, 218, 11496-11504.	2.2	28
28	Stability study of eighth-order iterative methods for solving nonlinear equations. Journal of Computational and Applied Mathematics, 2016, 291, 348-357.	2.0	28
29	Solutions of fractional gas dynamics equation by a new technique. Mathematical Methods in the Applied Sciences, 2020, 43, 1349-1358.	2.3	28
30	Efficient High-Order Iterative Methods for Solving Nonlinear Systems and Their Application on Heat Conduction Problems. Complexity, 2017, 2017, 1-11.	1.6	27
31	An eighth-order family of optimal multiple root finders and its dynamics. Numerical Algorithms, 2018, 77, 1249-1272.	1.9	27
32	On a Novel Fourth-Order Algorithm for Solving Systems of Nonlinear Equations. Journal of Applied Mathematics, 2012, 2012, 1-12.	0.9	26
33	Generating optimal derivative free iterative methods for nonlinear equations by using polynomial interpolation. Mathematical and Computer Modelling, 2013, 57, 1950-1956.	2.0	26
34	On improved three-step schemes with high efficiency index and their dynamics. Numerical Algorithms, 2014, 65, 153-169.	1.9	26
35	Real qualitative behavior of a fourth-order family of iterative methods by using the convergence plane. Mathematics and Computers in Simulation, 2014, 105, 49-61.	4.4	26
36	A new fourth-order family for solving nonlinear problems and its dynamics. Journal of Mathematical Chemistry, 2015, 53, 893-910.	1.5	25

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37	Low-complexity root-finding iteration functions with no derivatives of any order of convergence. Journal of Computational and Applied Mathematics, 2015, 275, 502-515.	2.0	25
38	Stability of Kingâ€™s family of iterative methods with memory. Journal of Computational and Applied Mathematics, 2017, 318, 504-514.	2.0	25
39	A family of modified Ostrowskiâ€™s methods with optimal eighth order of convergence. Applied Mathematics Letters, 2011, 24, 2082-2086.	2.7	24
40	Semilocal convergence by using recurrence relations for a fifth-order method in Banach spaces. Journal of Computational and Applied Mathematics, 2015, 273, 205-213.	2.0	24
41	Optimal iterative methods for finding multiple roots of nonlinear equations using free parameters. Journal of Mathematical Chemistry, 2018, 56, 1884-1901.	1.5	24
42	Numerically stable improved Chebyshevâ€“Halley type schemes for matrix sign function. Journal of Computational and Applied Mathematics, 2017, 318, 189-198.	2.0	23
43	On interpolation variants of Newtonâ€™s method for functions of several variables. Journal of Computational and Applied Mathematics, 2010, 234, 34-43.	2.0	22
44	A family of iterative methods with sixth and seventh order convergence for nonlinear equations. Mathematical and Computer Modelling, 2010, 52, 1490-1496.	2.0	22
45	Basins of Attraction for Various Steffensen-Type Methods. Journal of Applied Mathematics, 2014, 2014, 1-17.	0.9	22
46	Solving nonlinear problems by Ostrowskiâ€“Chun type parametric families. Journal of Mathematical Chemistry, 2015, 53, 430-449.	1.5	22
47	An optimal and low computational cost fractional Newton-type method for solving nonlinear equations. Applied Mathematics Letters, 2022, 124, 107650.	2.7	22
48	A multidimensional dynamical approach to iterative methods with memory. Applied Mathematics and Computation, 2015, 271, 701-715.	2.2	21
49	A fast algorithm to solve systems of nonlinear equations. Journal of Computational and Applied Mathematics, 2019, 354, 242-258.	2.0	21
50	Fourth- and Fifth-Order Methods for Solving Nonlinear Systems of Equations: An Application to the Global Positioning System. Abstract and Applied Analysis, 2013, 2013, 1-10.	0.7	20
51	Study of iterative methods through the Cayley Quadratic Test. Journal of Computational and Applied Mathematics, 2016, 291, 358-369.	2.0	20
52	Multipoint Fractional Iterative Methods with (2Î± + 1)th-Order of Convergence for Solving Nonlinear Problems. Mathematics, 2020, 8, 452.	2.2	20
53	Accelerated iterative methods for finding solutions of nonlinear equations and their dynamical behavior. Calcolo, 2014, 51, 17-30.	1.1	19
54	Multidimensional generalization of iterative methods for solving nonlinear problems by means of weight-function procedure. Applied Mathematics and Computation, 2015, 268, 1064-1071.	2.2	19

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55	A class of optimal eighth-order derivative-free methods for solving the Danchickâ€“Gauss problem. Applied Mathematics and Computation, 2014, 232, 237-246.	2.2	18
56	Stable high-order iterative methods for solving nonlinear models. Applied Mathematics and Computation, 2017, 303, 70-88.	2.2	18
57	Preserving the order of convergence: Low-complexity Jacobian-free iterative schemes for solving nonlinear systems. Journal of Computational and Applied Mathematics, 2018, 337, 87-97.	2.0	18
58	Stability and applicability of iterative methods with memory. Journal of Mathematical Chemistry, 2019, 57, 1282-1300.	1.5	17
59	Local convergence and dynamical analysis of a new family of optimal fourth-order iterative methods. International Journal of Computer Mathematics, 2013, 90, 2049-2060.	1.8	16
60	Two Optimal General Classes of Iterative Methods with Eighth-Order. Acta Applicandae Mathematicae, 2014, 134, 61-74.	1.0	16
61	Convergence and Stability of a Parametric Class of Iterative Schemes for Solving Nonlinear Systems. Mathematics, 2021, 9, 86.	2.2	16
62	Efficient three-step iterative methods with sixth order convergence for nonlinear equations. Numerical Algorithms, 2010, 53, 485-495.	1.9	15
63	Dynamics of iterative families with memory based on weight functions procedure. Journal of Computational and Applied Mathematics, 2019, 354, 286-298.	2.0	15
64	New efficient methods for solving nonlinear systems of equations with arbitrary even order. Applied Mathematics and Computation, 2016, 287-288, 94-103.	2.2	14
65	Wide stability in a new family of optimal fourthâ€order iterative methods. Computational and Mathematical Methods, 2019, 1, e1023.	0.8	14
66	Stability analysis of a family of optimal fourth-order methods for multiple roots. Numerical Algorithms, 2019, 81, 947-981.	1.9	14
67	On the choice of the best members of the Kim family and the improvement of its convergence. Mathematical Methods in the Applied Sciences, 2020, 43, 8051-8066.	2.3	14
68	Iterative methods for use with nonlinear discrete algebraic models. Mathematical and Computer Modelling, 2010, 52, 1251-1257.	2.0	13
69	Two weighted eight-order classes of iterative root-finding methods. International Journal of Computer Mathematics, 2015, 92, 1790-1805.	1.8	13
70	Construction of fourth-order optimal families of iterative methods and their dynamics. Applied Mathematics and Computation, 2015, 271, 89-101.	2.2	13
71	Choosing the most stable members of Kouâ€™s family of iterative methods. Journal of Computational and Applied Mathematics, 2018, 330, 759-769.	2.0	13
72	An Efficient Family of Optimal Eighth-Order Multiple Root Finders. Mathematics, 2018, 6, 310.	2.2	13

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73	A Variant of Chebyshevâ€™s Method with 3Î±th-Order of Convergence by Using Fractional Derivatives. Symmetry, 2019, 11, 1017.	2.2	13
74	New fourth- and sixth-order classes of iterative methods for solving systems of nonlinear equations and their stability analysis. Numerical Algorithms, 2021, 87, 1017-1060.	1.9	13
75	Chaos and Stability in a New Iterative Family for Solving Nonlinear Equations. Algorithms, 2021, 14, 101.	2.1	13
76	Dynamics and Fractal Dimension of Steffensen-Type Methods. Algorithms, 2015, 8, 271-279.	2.1	12
77	A new family of iterative methods widening areas of convergence. Applied Mathematics and Computation, 2015, 252, 405-417.	2.2	12
78	Generating Root-Finder Iterative Methods of Second Order: Convergence and Stability. Axioms, 2019, 8, 55.	1.9	12
79	Iterative Methods with Memory for Solving Systems of Nonlinear Equations Using a Second Order Approximation. Mathematics, 2019, 7, 1069.	2.2	12
80	Generalized Inverses Estimations by Means of Iterative Methods with Memory. Mathematics, 2020, 8, 2.	2.2	12
81	On the improvement of the order of convergence of iterative methods for solving nonlinear systems by means of memory. Applied Mathematics Letters, 2020, 104, 106277.	2.7	12
82	A stable family with high order of convergence for solving nonlinear equations. Applied Mathematics and Computation, 2015, 254, 240-251.	2.2	11
83	Numerical Solution of Turbulence Problems by Solving Burgersâ€™ Equation. Algorithms, 2015, 8, 224-233.	2.1	10
84	Dynamics of the family of c-iterative methods. International Journal of Computer Mathematics, 2015, 92, 1815-1825.	1.8	10
85	One-point Newton-type iterative methods: A unified point of view. Journal of Computational and Applied Mathematics, 2015, 275, 366-374.	2.0	10
86	King-Type Derivative-Free Iterative Families: Real and Memory Dynamics. Complexity, 2017, 2017, 1-15.	1.6	10
87	Accelerated methods of order <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si12.gif" display="inline" overflow="scroll"><mml:mn>2</mml:mn><mml:mi>p</mml:mi></mml:math> for systems of nonlinear equations. Journal of Computational and Applied Mathematics, 2010, 233, 2696-2702.	2.0	9
88	Study of the dynamics of third-order iterative methods on quadratic polynomials. International Journal of Computer Mathematics, 2012, 89, 1826-1836.	1.8	9
89	On the convergence of a higher order family of methods and its dynamics. Journal of Computational and Applied Mathematics, 2017, 309, 542-562.	2.0	9
90	Stability analysis of a parametric family of seventh-order iterative methods for solving nonlinear systems. Applied Mathematics and Computation, 2018, 323, 43-57.	2.2	9

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91	Efficient Four-Parametric with-and-without-Memory Iterative Methods Possessing High Efficiency Indices. Mathematical Problems in Engineering, 2018, 2018, 1-12.	1.1	9
92	Optimal iterative methods for finding multiple roots of nonlinear equations using weight functions and dynamics. Journal of Computational and Applied Mathematics, 2018, 342, 352-374.	2.0	9
93	A family of optimal fourthâ€order methods for multiple roots of nonlinear equations. Mathematical Methods in the Applied Sciences, 2020, 43, 7869-7884.	2.3	9
94	Some variants of Halleyâ€™s method with memory and their applications for solving several chemical problems. Journal of Mathematical Chemistry, 2020, 58, 751-774.	1.5	9
95	A new higher-order optimal derivative free scheme for multiple roots. Journal of Computational and Applied Mathematics, 2022, 404, 113773.	2.0	9
96	NMS Flows on Three-Dimensional Manifolds with One Saddle Periodic Orbit. Acta Mathematica Sinica, English Series, 2004, 20, 47-56.	0.6	8
97	Optimal High-Order Methods for Solving Nonlinear Equations. Journal of Applied Mathematics, 2014, 2014, 1-9.	0.9	8
98	Design of High-Order Iterative Methods for Nonlinear Systems by Using Weight Function Procedure. Abstract and Applied Analysis, 2015, 2015, 1-12.	0.7	8
99	Orbits of period two in the family of a multipoint variant of Chebyshev-Halley family. Numerical Algorithms, 2016, 73, 141-156.	1.9	8
100	A stable class of improved second-derivative free Chebyshev-Halley type methods with optimal eighth order convergence. Numerical Algorithms, 2016, 72, 937-958.	1.9	8
101	Design and multidimensional extension of iterative methods for solving nonlinear problems. Applied Mathematics and Computation, 2017, 293, 194-203.	2.2	8
102	Widening basins of attraction of optimal iterative methods. Nonlinear Dynamics, 2017, 87, 913-938.	5.2	8
103	A family of Kurchatov-type methods and its stability. Applied Mathematics and Computation, 2017, 294, 264-279.	2.2	8
104	Multiplicity anomalies of an optimal fourth-order class of iterative methods for solving nonlinear equations. Nonlinear Dynamics, 2018, 91, 81-112.	5.2	8
105	A novel bi-parametric sixth order iterative scheme for solving nonlinear systems and its dynamics. Applied Mathematics and Computation, 2019, 357, 147-166.	2.2	8
106	Towards a Better Learning Models Through OCWs and MOOCs. International Journal of Interactive Multimedia and Artificial Intelligence, 2015, 3, 26.	1.3	8
107	Iterative schemes for finding all roots simultaneously of nonlinear equations. Applied Mathematics Letters, 2022, 134, 108325.	2.7	8
108	Period-doubling bifurcations in the family of Chebyshevâ€“Halley-type methods. International Journal of Computer Mathematics, 2013, 90, 2061-2071.	1.8	7

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109	On the convergence of a damped Newton-like method with modified right hand side vector. Applied Mathematics and Computation, 2015, 266, 927-936.	2.2	7
110	Some new bi-accelerator two-point methods for solving nonlinear equations. Computational and Applied Mathematics, 2016, 35, 251-267.	1.3	7
111	Third-degree anomalies of Traubâ€™s method. Journal of Computational and Applied Mathematics, 2017, 309, 511-521.	2.0	7
112	Highly efficient iterative algorithms for solving nonlinear systems with arbitrary order of convergence <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si49.gif" display="inline" overflow="scroll"><mml:mi>p</mml:mi><mml:mo>+</mml:mo><mml:mn>3</mml:mn></mml:math>, <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si50.gif" display="inline" overflow="scroll"><mml:mi>p</mml:mi><mml:mo>â‰¥</mml:mo><mml:mn>5</mml:mn></mml:math>. Jour	2.0	7
113	A New Class of Iterative Processes for Solving Nonlinear Systems by Using One Divided Differences Operator. Mathematics, 2019, 7, 776.	2.2	7
114	Impact on Stability by the Use of Memory in Traub-Type Schemes. Mathematics, 2020, 8, 274.	2.2	7
115	A General Optimal Iterative Scheme with Arbitrary Order of Convergence. Symmetry, 2021, 13, 884.	2.2	7
116	Memorizing SchrÃ¶derâ€™s Method as an Efficient Strategy for Estimating Roots of Unknown Multiplicity. Mathematics, 2021, 9, 2570.	2.2	7
117	A stable class of modified Newton-like methods for multiple roots and their dynamics. International Journal of Nonlinear Sciences and Numerical Simulation, 2020, 21, 603-621.	1.0	7
118	A class of multi-point iterative methods for nonlinear equations. Applied Mathematics and Computation, 2008, 197, 337-344.	2.2	6
119	A Family of Derivative-Free Methods with High Order of Convergence and Its Application to Nonsmooth Equations. Abstract and Applied Analysis, 2012, 2012, 1-15.	0.7	6
120	Iterative Methods for Nonlinear Equations or Systems and Their Applications. Journal of Applied Mathematics, 2013, 2013, 1-2.	0.9	6
121	New family of iterative methods based on the Ermakovâ€“Kalitkin scheme for solving nonlinear systems of equations. Computational Mathematics and Mathematical Physics, 2015, 55, 1947-1959.	0.8	6
122	Multidimensional stability analysis of a family of biparametric iterative methods: CMMSE2016. Journal of Mathematical Chemistry, 2017, 55, 1461-1480.	1.5	6
123	Fixed Point Root-Finding Methods of Fourth-Order of Convergence. Symmetry, 2019, 11, 769.	2.2	6
124	A New Three-Step Class of Iterative Methods for Solving Nonlinear Systems. Mathematics, 2019, 7, 1221.	2.2	6
125	Topology of the Two Fixed Centers Problem. Celestial Mechanics and Dynamical Astronomy, 2002, 82, 203-223.	1.4	5
126	Bulbs of Period Two in the Family of Chebyshev-Halley Iterative Methods on Quadratic Polynomials. Abstract and Applied Analysis, 2013, 2013, 1-10.	0.7	5

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127	Preliminary Orbit Determination of Artificial Satellites: A Vectorial Sixth-Order Approach. Abstract and Applied Analysis, 2013, 2013, 1-10.	0.7	5
128	Study of a Biparametric Family of Iterative Methods. Abstract and Applied Analysis, 2014, 2014, 1-12.	0.7	5
129	Stability of a fourth order bi-parametric family of iterative methods. Journal of Computational and Applied Mathematics, 2017, 312, 94-102.	2.0	5
130	A class of four parametric withâ€•and withoutâ€•memory root finding methods. Computational and Mathematical Methods, 2019, 1, e1024.	0.8	5
131	On the effect of the multidimensional weight functions on the stability of iterative processes. Journal of Computational and Applied Mathematics, 2022, 405, 113052.	2.0	5
132	Artificial satellites preliminary orbit determination by the modified high-order Gauss method. International Journal of Computer Mathematics, 2012, 89, 347-356.	1.8	4
133	Modifications of Newtonâ€™s method to extend the convergence domain. SeMA Journal, 2014, 66, 43-53.	2.0	4
134	Iterative Methods for Nonlinear Equations or Systems and Their Applications 2014. Journal of Applied Mathematics, 2014, 2014, 1-2.	0.9	4
135	On the extension of Householderâ€™s method for weighted Mooreâ€“Penrose inverse. Applied Mathematics and Computation, 2014, 231, 407-413.	2.2	4
136	Damped Traubâ€™s method: Convergence and stability. Mathematics and Computers in Simulation, 2016, 119, 57-68.	4.4	4
137	New Iterative Methods for Solving Nonlinear Problems with One and Several Unknowns. Mathematics, 2018, 6, 296.	2.2	4
138	A Convex Combination Approach for Mean-Based Variants of Newtonâ€™s Method. Symmetry, 2019, 11, 1106.	2.2	4
139	A new efficient parametric family of iterative methods for solving nonlinear systems. Journal of Difference Equations and Applications, 2019, 25, 1454-1467.	1.1	4
140	Avoiding strange attractors in efficient parametric families of iterative methods for solving nonlinear problems. Applied Numerical Mathematics, 2019, 137, 1-18.	2.1	4
141	Memory in a New Variant of Kingâ€™s Family for Solving Nonlinear Systems. Mathematics, 2020, 8, 1251.	2.2	4
142	High order family of multivariate iterative methods: Convergence and stability. Journal of Computational and Applied Mathematics, 2020, 405, 113053.	2.0	4
143	On the convergence of a Damped Secant method with modified right-hand side vector. Applied Mathematics and Computation, 2015, 252, 315-323.	2.2	3
144	Dynamical analysis on cubic polynomials of Damped Traubâ€™s method for approximating multiple roots. Applied Mathematics and Computation, 2018, 328, 82-99.	2.2	3

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145	Dynamical Techniques for Analyzing Iterative Schemes with Memory. Complexity, 2018, 2018, 1-13.	1.6	3
146	Generalized High-Order Classes for Solving Nonlinear Systems and Their Applications. Mathematics, 2019, 7, 1194.	2.2	3
147	Stability analysis of Jacobian-free iterative methods for solving nonlinear systems by using families of mth power divided differences. Journal of Mathematical Chemistry, 2019, 57, 1344-1373.	1.5	3
148	CMMSE-2019 mean-based iterative methods for solving nonlinear chemistry problems. Journal of Mathematical Chemistry, 2020, 58, 555-572.	1.5	3
149	Optimal eighth-order iterative methods for approximating multiple zeros of nonlinear functions. Revista De La Real Academia De Ciencias Exactas, Fisicas Y Naturales - Serie A: Matematicas, 2020, 114, 1.	1.2	3
150	Design, Convergence and Stability of a Fourth-Order Class of Iterative Methods for Solving Nonlinear Vectorial Problems. Fractal and Fractional, 2021, 5, 125.	3.3	3
151	Round-handle decomposition ofS2Ã—S1. Dynamical Systems, 2007, 22, 179-202.	0.4	2
152	On Generalization Based on Bi et al. Iterative Methods with Eighth-Order Convergence for Solving Nonlinear Equations. Scientific World Journal, The, 2014, 2014, 1-8.	2.1	2
153	Design, Analysis, and Applications of Iterative Methods for Solving Nonlinear Systems. , 0, , .		2
154	On the Design of Optimal Iterative Methods for Solving Nonlinear Equations. SEMA SIMAI Springer Series, 2016, , 79-111.	0.7	2
155	Chaos and convergence of a family generalizing Homeierâ€™s method with damping parameters. Nonlinear Dynamics, 2016, 85, 1939-1954.	5.2	2
156	A sixth-order iterative method for approximating the polar decomposition of an arbitrary matrix. Journal of Computational and Applied Mathematics, 2017, 318, 591-598.	2.0	2
157	Approximating the inverse and the Mooreâ€Penrose inverse of complex matrices. Mathematical Methods in the Applied Sciences, 2019, 42, 5920-5928.	2.3	2
158	Semilocal Convergence of the Extension of Chunâ€™s Method. Axioms, 2021, 10, 161.	1.9	2
159	Isonormal surfaces: A new tool for the multidimensional dynamical analysis of iterative methods for solving nonlinear systems. Mathematical Methods in the Applied Sciences, 2022, 45, 3360-3375.	2.3	2
160	Dynamical analysis of an iterative method with memory on a family of third-degree polynomials. AIMS Mathematics, 2022, 7, 6445-6466.	1.6	2
161	Derivative-Free Iterative Schemes for Multiple Roots of Nonlinear Functions. Mathematics, 2022, 10, 1530.	2.2	2
162	A Family of Iterative Methods with Accelerated Eighth-Order Convergence. Journal of Applied Mathematics, 2012, 2012, 1-9.	0.9	1

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163	New Predictor-Corrector Methods with High Efficiency for Solving Nonlinear Systems. Journal of Applied Mathematics, 2012, 2012, 1-15.	0.9	1
164	Derivative-free high-order methods applied to preliminary orbit determination. Mathematical and Computer Modelling, 2013, 57, 1795-1799.	2.0	1
165	A dynamical comparison between iterative methods with memory: Are the derivatives good for the memory?. Journal of Computational and Applied Mathematics, 2017, 318, 335-347.	2.0	1
166	CMMSE2017: On two classes of fourth- and seventh-order vectorial methods with stable behavior. Journal of Mathematical Chemistry, 2018, 56, 1902-1923.	1.5	1
167	An Efficient Iterative Method Based on Two-Stage Splitting Methods to Solve Weakly Nonlinear Systems. Mathematics, 2019, 7, 815.	2.2	1
168	Bi-parametric Family of Methods with Memory Based of Ostrowski-Chun Method. Lecture Notes in Computer Science, 2019, , 208-215.	1.3	1
169	Stability Analysis of Jacobian-Free Newtonâ€™s Iterative Method. Algorithms, 2019, 12, 236.	2.1	1
170	DYNAMICAL ANALYSIS TO EXPLAIN THE NUMERICAL ANOMALIES IN THE FAMILY OF ERMAKOV-KALITLIN TYPE METHODS. Mathematical Modelling and Analysis, 2019, 24, 335-350.	1.5	1
171	Orbital Structure of the Two Fixed Centres Problem. International Astronomical Union Colloquium, 1999, 172, 463-464.	0.1	0
172	Preface of the â€œAdvances in Numerical Methods for Solving Nonlinear Equations and Systemsâ€• , 2011, , .		0
173	Optimal Derivative-Free Methods for Solving Nonlinear Equations. , 2011, , .		0
174	Accelerated Steffensen-Type Methods for Solving Nonlinear Systems of Equations. , 2011, , .		0
175	Iterative Fixed-Point Methods for Solving Nonlinear Problems: Dynamics and Applications. Abstract and Applied Analysis, 2014, 2014, 1-2.	0.7	0
176	Behaviour of fixed and critical points of the $$left(alpha ,cight) $$ Î± , c -family of iterative methods. Journal of Mathematical Chemistry, 2015, 53, 807-827.	1.5	0
177	Multidimensional Homeierâ€™s generalized class and its application to planar 1D Bratu problem. SeMA Journal, 2015, 70, 1-10.	2.0	0
178	Real and Complex Dynamics of Iterative Methods. Discrete Dynamics in Nature and Society, 2016, 2016, 1-2.	0.9	0
179	Dynamics of a multipoint variant of Chebyshevâ€“Halleyâ€™s family. Applied Mathematics and Computation, 2016, 284, 195-208.	2.2	0
180	A family of parametric schemes of arbitrary even order for solving nonlinear models: CMMSE2016. Journal of Mathematical Chemistry, 2017, 55, 1443-1460.	1.5	0

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181	Iterative Methods and Dynamics for Nonlinear Problems. Discrete Dynamics in Nature and Society, 2017, 2017, 1-1.	0.9	0
182	Multistep High-Order Methods for Nonlinear Equations Using PadÃ©-Like Approximants. Discrete Dynamics in Nature and Society, 2017, 2017, 1-6.	0.9	0
183	Stability of different families of iterative methods with memory. AIP Conference Proceedings, 2018, , .	0.4	0
184	Corrigendum to â€œDynamical Techniques for Analyzing Iterative Schemes with Memoryâ€• Complexity, 2018, 2018, 1-1.	1.6	0
185	High-order extension of an efficient iterative method for solving nonlinear problems. AIP Conference Proceedings, 2018, , .	0.4	0
186	Preface of the â€œIterative Procedures for Solving Nonlinear Problemsâ€• AIP Conference Proceedings, 2018, , .	0.4	0
187	Modified Potra-PtÃ¡k Multi-step Schemes with Accelerated Order of Convergence for Solving Systems of Nonlinear Equations. Mathematical and Computational Applications, 2019, 24, 3.	1.3	0
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