Natalia Romero

List of Publications by Year
in descending order

49 papers	665 citations	623734 14 h-index	580821 25 g-index
50 all docs	50 docs citations	50 times ranked	154 citing authors

#	Article	IF	Citations
1	A modified Chebyshevâ€™s iterative method with at least sixth order of convergence. Applied Mathematics and Computation, 2008, 206, 164-174.	2.2	92
2	On the semilocal convergence of Newtonâ€“Kantorovich method under center-Lipschitz conditions. Applied Mathematics and Computation, 2013, 221, 79-88.	2.2	61
3	Dynamics of a new family of iterative processes for quadratic polynomials. Journal of Computational and Applied Mathematics, 2010, 233, 2688-2695.	2.0	50
4	On a characterization of some Newton-like methods of R-order at least three. Journal of Computational and Applied Mathematics, 2005, 183, 53-66.	2.0	48
5	Newton-type methods of high order and domains of semilocal and global convergence. Applied Mathematics and Computation, 2009, 214, 142-154.	2.2	42
6	Semilocal convergence of a sixth order iterative method for quadratic equations. Applied Numerical Mathematics, 2012, 62, 833-841.	2.1	28
7	On Iterative Methods with Accelerated Convergence for Solving Systems of Nonlinear Equations. Journal of Optimization Theory and Applications, 2011, 151, 163-174.	1.5	27
8	Attracting cycles for the relaxed Newtonâ€™s method. Journal of Computational and Applied Mathematics, 2011, 235, 3238-3244.	2.0	26
9	On Steffensenâ€™s method on Banach spaces. Journal of Computational and Applied Mathematics, 2013, 249, 9-23.	2.0	26
10	On a two-step relaxed Newton-type method. Applied Mathematics and Computation, 2013, 219, 11341-11347.	2.2	26
11	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
12	New identities in the Catalan triangle. Journal of Mathematical Analysis and Applications, 2008, 341, 52-61.	1.0	19
13	Moments of combinatorial and Catalan numbers. Journal of Number Theory, 2010, 130, 1876-1887.	0.4	17
14	Dynamics of a higher-order family of iterative methods. Journal of Complexity, 2011, 27, 221-229.	1.3	16
15	General Study of Iterative Processes of R-Order at Least Three under Weak Convergence Conditions. Journal of Optimization Theory and Applications, 2007, 133, 163-177.	1.5	12
16	Solving nonlinear integral equations of Fredholm type with high order iterative methods. Journal of Computational and Applied Mathematics, 2011, 236, 1449-1463.	2.0	12
17	Accelerated convergence in Newton's method for approximating square roots. Journal of Computational and Applied Mathematics, 2005, 177, 225-229.	2.0	11
18	On the Local Convergence of a Third Order Family of Iterative Processes. Algorithms, 2015, 8, 1121-1128.	2.1	11

#	Article	IF	Citations
19	CONVERGENCE OF THE RELAXED NEWTON'S METHOD. Journal of the Korean Mathematical Society, 2014, 51, 137-162.	0.4	10
20	On a new multiparametric family of Newton-like methods. Applied Numerical Analysis and Computational Mathematics, 2005, 2, 78-88.	0.6	9
21	An extension of Ganderâ€™s result for quadratic equations. Journal of Computational and Applied Mathematics, 2010, 234, 960-971.	2.0	9
22	A note on a modification of Moser's method. Journal of Complexity, 2008, 24, 185-197.	1.3	7
23	A modification of Cauchy's method for quadratic equations. Journal of Mathematical Analysis and Applications, 2008, 339, 954-969.	1.0	7
24	Dynamics of a fifth-order iterative method. International Journal of Computer Mathematics, 2012, 89, 822-835.	1.8	7
25	Sums of powers of Catalan triangle numbers. Discrete Mathematics, 2017, 340, 2388-2397.	0.7	7
26	Application of iterative processes of R-order at least three to operators with unbounded second derivative. Applied Mathematics and Computation, 2007, 185, 737-747.	2.2	6
27	Improving the efficiency index of one-point iterative processes. Journal of Computational and Applied Mathematics, 2009, 223, 879-892.	2.0	6
28	On some one-point hybrid iterative methods. Nonlinear Analysis: Theory, Methods & Applications, 2010, 72, 587-601.	1.1	6
29	Variants of a classic Traubâ€™s result. Computers and Mathematics With Applications, 2010, 60, 2899-2908.	2.7	6
30	Existence, localization and approximation of solution of symmetric algebraic Riccati equations. Computers and Mathematics With Applications, 2018, 76, 187-203.	2.7	6
31	High order algorithms for approximatingnth roots. International Journal of Computer Mathematics, 2004, 81, 1001-1014.	1.8	5
32	On the efficiency index of one-point iterative processes. Numerical Algorithms, 2007, 46, 35-44.	1.9	4
33	Toward a unified theory for third R-order iterative methods for operators with unbounded second derivative. Applied Mathematics and Computation, 2009, 215, 2248-2261.	2.2	4
34	Improving the domain of starting points for secant-like methods. Applied Mathematics and Computation, 2012, 219, 3677-3692.	2.2	3
35	On a family of high-order iterative methods under gamma conditions with applications in denoising. Numerische Mathematik, 2014, 127, 201-221.	1.9	3
36	Solving Symmetric Algebraic Riccati Equations with High Order Iterative Schemes. Mediterranean Journal of Mathematics, 2018, 15, 1.	0.8	3

#	Article	IF	Citations
37	Numerical analysis for the quadratic matrix equations from a modification of fixedâ€point type. Mathematical Methods in the Applied Sciences, 2019, 42, 5856-5866.	2.3	3
38	Solving the one dimensional Bratu problem with efficient fourth order iterative methods. SeMA Journal, 2015, 71, 1-14.	2.0	2
39	An efficient predictorâ€“corrector iterative scheme for solving Wienerâ€“Hopf problems. Journal of Computational and Applied Mathematics, 2021, 404, 113554.	2.0	2
40	Moments of Catalan Triangle Numbers. , 0, , .		1
41	Fractional Generalizations of Rodrigues-Type Formulas for Laguerre Functions in Function Spaces. Mathematics, 2021, 9, 984.	2.2	1
42	Methods with prefixed order for approximating square roots with global and general convergence. Applied Mathematics and Computation, 2007, 194, 346-353.	2.2	0
43	PoincarÃ© and Opial inequalities for vector-valued convolution products. Journal of Computational and Applied Mathematics, 2012, 236, 3720-3727.	2.0	0
44	A Qualitative Analysis of a Family of Newton-Like Iterative Process with R-Order of Convergence At Least Three. SEMA SIMAI Springer Series, 2016, , 173-210.	0.7	0
45	Quadrature Rules for L 1-Weighted Norms of Orthogonal Polynomials. Mediterranean Journal of Mathematics, 2016, 13, 1291-1306.	0.8	0
46	Expanding the Applicability of Some High Order HousehÃ¶lder-Like Methods. Algorithms, 2017, 10, 64.	2.1	0
47	Solving Wienerâ€“Hopf problems via an efficient iterative scheme. Journal of Computational and Applied Mathematics, 2020, , 113083.	2.0	0
48	About a fixedâ€pointâ€type transformation to solve quadratic matrix equations using the Krasnoselskij method. Mathematical Methods in the Applied Sciences, 0, , .	2.3	0
49	Location, Separation and Approximation of Solutions for Quadratic Matrix Equations. Foundations, 2022, 2, 457-474.	1.3	0