

# Natalia Romero

## List of Publications by Year in descending order

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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	Location, Separation and Approximation of Solutions for Quadratic Matrix Equations. Foundations, 2022, 2, 457-474.	1.3	0
2	An efficient predictor-corrector iterative scheme for solving Wiener-Hopf problems. Journal of Computational and Applied Mathematics, 2021, 404, 113554.	2.0	2
3	Fractional Generalizations of Rodrigues-Type Formulas for Laguerre Functions in Function Spaces. Mathematics, 2021, 9, 984.	2.2	1
4	Solving Wiener-Hopf problems via an efficient iterative scheme. Journal of Computational and Applied Mathematics, 2020, , 113083.	2.0	0
5	Numerical analysis for the quadratic matrix equations from a modification of fixed-point type. Mathematical Methods in the Applied Sciences, 2019, 42, 5856-5866.	2.3	3
6	Solving Symmetric Algebraic Riccati Equations with High Order Iterative Schemes. Mediterranean Journal of Mathematics, 2018, 15, 1.	0.8	3
7	Existence, localization and approximation of solution of symmetric algebraic Riccati equations. Computers and Mathematics With Applications, 2018, 76, 187-203.	2.7	6
8	Sums of powers of Catalan triangle numbers. Discrete Mathematics, 2017, 340, 2388-2397.	0.7	7
9	Expanding the Applicability of Some High Order Householder-Like Methods. Algorithms, 2017, 10, 64.	2.1	0
10	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
11	Quadrature Rules for L <sub>1</sub> -Weighted Norms of Orthogonal Polynomials. Mediterranean Journal of Mathematics, 2016, 13, 1291-1306.	0.8	0
12	On the Local Convergence of a Third Order Family of Iterative Processes. Algorithms, 2015, 8, 1121-1128.	2.1	11
13	Solving the one dimensional Bratu problem with efficient fourth order iterative methods. SeMA Journal, 2015, 71, 1-14.	2.0	2
14	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
15	On a family of high-order iterative methods under gamma conditions with applications in denoising. Numerische Mathematik, 2014, 127, 201-221.	1.9	3
16	CONVERGENCE OF THE RELAXED NEWTON'S METHOD. Journal of the Korean Mathematical Society, 2014, 51, 137-162.	0.4	10
17	On the semilocal convergence of Newton-Kantorovich method under center-Lipschitz conditions. Applied Mathematics and Computation, 2013, 221, 79-88.	2.2	61
18	On Steffensen's method on Banach spaces. Journal of Computational and Applied Mathematics, 2013, 249, 9-23.	2.0	26

#	ARTICLE	IF	CITATIONS
19	On a two-step relaxed Newton-type method. <i>Applied Mathematics and Computation</i> , 2013, 219, 11341-11347.	2.2	26
20	Dynamics of a fifth-order iterative method. <i>International Journal of Computer Mathematics</i> , 2012, 89, 822-835.	1.8	7
21	Improving the domain of starting points for secant-like methods. <i>Applied Mathematics and Computation</i> , 2012, 219, 3677-3692.	2.2	3
22	Poincaré and Opial inequalities for vector-valued convolution products. <i>Journal of Computational and Applied Mathematics</i> , 2012, 236, 3720-3727.	2.0	0
23	Semilocal convergence of a sixth order iterative method for quadratic equations. <i>Applied Numerical Mathematics</i> , 2012, 62, 833-841.	2.1	28
24	Solving nonlinear integral equations of Fredholm type with high order iterative methods. <i>Journal of Computational and Applied Mathematics</i> , 2011, 236, 1449-1463.	2.0	12
25	On Iterative Methods with Accelerated Convergence for Solving Systems of Nonlinear Equations. <i>Journal of Optimization Theory and Applications</i> , 2011, 151, 163-174.	1.5	27
26	Attracting cycles for the relaxed Newton's method. <i>Journal of Computational and Applied Mathematics</i> , 2011, 235, 3238-3244.	2.0	26
27	Dynamics of a higher-order family of iterative methods. <i>Journal of Complexity</i> , 2011, 27, 221-229.	1.3	16
28	Dynamics of a new family of iterative processes for quadratic polynomials. <i>Journal of Computational and Applied Mathematics</i> , 2010, 233, 2688-2695.	2.0	50
29	Moments of combinatorial and Catalan numbers. <i>Journal of Number Theory</i> , 2010, 130, 1876-1887.	0.4	17
30	On some one-point hybrid iterative methods. <i>Nonlinear Analysis: Theory, Methods &amp; Applications</i> , 2010, 72, 587-601.	1.1	6
31	An extension of Gander's result for quadratic equations. <i>Journal of Computational and Applied Mathematics</i> , 2010, 234, 960-971.	2.0	9
32	Variants of a classic Traub's result. <i>Computers and Mathematics With Applications</i> , 2010, 60, 2899-2908.	2.7	6
33	Newton-type methods of high order and domains of semilocal and global convergence. <i>Applied Mathematics and Computation</i> , 2009, 214, 142-154.	2.2	42
34	Toward a unified theory for third R-order iterative methods for operators with unbounded second derivative. <i>Applied Mathematics and Computation</i> , 2009, 215, 2248-2261.	2.2	4
35	Improving the efficiency index of one-point iterative processes. <i>Journal of Computational and Applied Mathematics</i> , 2009, 223, 879-892.	2.0	6
36	New identities in the Catalan triangle. <i>Journal of Mathematical Analysis and Applications</i> , 2008, 341, 52-61.	1.0	19

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37	A note on a modification of Moser's method. <i>Journal of Complexity</i> , 2008, 24, 185-197.	1.3	7
38	A modification of Cauchy's method for quadratic equations. <i>Journal of Mathematical Analysis and Applications</i> , 2008, 339, 954-969.	1.0	7
39	A modified Chebyshev's iterative method with at least sixth order of convergence. <i>Applied Mathematics and Computation</i> , 2008, 206, 164-174.	2.2	92
40	Application of iterative processes of R-order at least three to operators with unbounded second derivative. <i>Applied Mathematics and Computation</i> , 2007, 185, 737-747.	2.2	6
41	Methods with prefixed order for approximating square roots with global and general convergence. <i>Applied Mathematics and Computation</i> , 2007, 194, 346-353.	2.2	0
42	On the efficiency index of one-point iterative processes. <i>Numerical Algorithms</i> , 2007, 46, 35-44.	1.9	4
43	General Study of Iterative Processes of R-Order at Least Three under Weak Convergence Conditions. <i>Journal of Optimization Theory and Applications</i> , 2007, 133, 163-177.	1.5	12
44	Accelerated convergence in Newton's method for approximating square roots. <i>Journal of Computational and Applied Mathematics</i> , 2005, 177, 225-229.	2.0	11
45	On a characterization of some Newton-like methods of R-order at least three. <i>Journal of Computational and Applied Mathematics</i> , 2005, 183, 53-66.	2.0	48
46	On a new multiparametric family of Newton-like methods. <i>Applied Numerical Analysis and Computational Mathematics</i> , 2005, 2, 78-88.	0.6	9
47	High order algorithms for approximating nth roots. <i>International Journal of Computer Mathematics</i> , 2004, 81, 1001-1014.	1.8	5
48	Moments of Catalan Triangle Numbers. , 0, , .		1
49	About a fixed-point type transformation to solve quadratic matrix equations using the Krasnoselskij method. <i>Mathematical Methods in the Applied Sciences</i> , 0, , .	2.3	0