JosÃ© Luis Hueso

List of Publications by Year
in descending order

53 papers	919 citations	566801 15 h-index	476904 29 g-index
54 all docs	54 docs citations	54 times ranked	367 citing authors

#	Article	IF	Citations
1	Convergence and dynamics of improved Chebyshev-Secant-type methods for non differentiable operators. Numerical Algorithms, 2021, 86, 1051-1070.	1.1	4
2	Comments on â€œSPICE Model of Photomultiplier Tube Under Different Bias Conditionsâ€ IEEE Sensors Journal, 2021, 21, 17395-17402.	2.4	5
3	Domain of existence for the solution of some IVP's and BVP's by using an efficient ninthâ€order iterative method. Mathematical Methods in the Applied Sciences, 2020, 43, 7934-7947.	1.2	0
4	An alternative analysis for the local convergence of iterative methods for multiple roots including when the multiplicity is unknown. International Journal of Computer Mathematics, 2020, 97, 312-329.	1.0	1
5	Adaptive Iterative Splitting Methods for Convection-Diffusion-Reaction Equations. Mathematics, 2020, 8, 302.	1.1	5
6	Recurrence relations for a family of iterations assuming HÃ¶lder continuous second order FrÃ©chet derivative. International Journal of Nonlinear Sciences and Numerical Simulation, 2020, .	0.4	1
7	Parallel iterative splitting methods: Algorithms and applications. , 2020, , .		1
8	Local Convergence and Dynamics of a Family of Iterative Methods for Multiple Roots of Nonlinear Equations. Vietnam Journal of Mathematics, 2019, 47, 367-386.	0.4	1
9	A Ciliary Motility Index for Activity Measurement in Cell Cultures With Respiratory Syncytial Virus. American Journal of Rhinology and Allergy, 2019, 33, 121-128.	1.0	1
10	Multipoint efficient iterative methods and the dynamics of Ostrowski's method. International Journal of Computer Mathematics, 2019, 96, 1687-1701.	1.0	3
11	A note on â€œConvergence radius of Osadaâ€™s method under HÃ¶lder continuous conditionâ€ Applied Mathematics and Computation, 2018, 321, 689-699.	1.4	0
12	Local convergence study for multiple roots. Estimating the multiplicity. AIP Conference Proceedings, 2018, , .	0.3	0
13	New versions of iterative splitting methods for the momentum equation. Journal of Computational and Applied Mathematics, 2017, 309, 359-370.	1.1	9
14	Local convergence of a parameter based iteration with HÃ¶lder continuous derivative in Banach spaces. Calcolo, 2017, 54, 527-539.	0.6	19
15	Multistep High-Order Methods for Nonlinear Equations Using PadÃ©-Like Approximants. Discrete Dynamics in Nature and Society, 2017, 2017, 1-6.	0.5	0
16	Semilocal Convergence Analysis of an Iteration of Order Five Using Recurrence Relations in Banach Spaces. Mediterranean Journal of Mathematics, 2016, 13, 4219-4235.	0.4	15
17	Local convergence of a family of iterative methods for Hammerstein equations. Journal of Mathematical Chemistry, 2016, 54, 1370-1386.	0.7	2
18	Enlarging the convergence domain in local convergence studies for iterative methods in Banach spaces. Applied Mathematics and Computation, 2016, 281, 252-265.	1.4	28

#	Article	IF	Citations
19	Semilocal and local convergence of a fifth order iteration with FrÃ©chet derivative satisfying HÃ¶lder condition. Applied Mathematics and Computation, 2016, 276, 266-277.	1.4	14
20	Dynamical study while searching equilibrium solutions in N-body problem. Journal of Computational and Applied Mathematics, 2016, 297, 26-40.	1.1	0
21	Derivative free iterative methods for nonlinear systems. Applied Mathematics and Computation, 2015, 259, 955-966.	1.4	2
22	Determination of multiple roots of nonlinear equations and applications. Journal of Mathematical Chemistry, 2015, 53, 880-892.	0.7	40
23	Convergence, efficiency and dynamics of new fourth and sixth order families of iterative methods for nonlinear systems. Journal of Computational and Applied Mathematics, 2015, 275, 412-420.	1.1	53
24	Semilocal convergence of a family of iterative methods in Banach spaces. Numerical Algorithms, 2014, 67, 365-384.	1.1	16
25	Experimental analysis of nonlinear oscillations in the undergraduate physics laboratory. European Journal of Physics, 2014, 35, 015005.	0.3	6
26	Primary ciliary dyskinesia assessment by means of optical flow analysis of phase-contrast microscopy images. Computerized Medical Imaging and Graphics, 2014, 38, 163-170.	3.5	8
27	A new technique to obtain derivative-free optimal iterative methods for solving nonlinear equations. Journal of Computational and Applied Mathematics, 2013, 252, 95-102.	1.1	34
28	Generating optimal derivative free iterative methods for nonlinear equations by using polynomial interpolation. Mathematical and Computer Modelling, 2013, 57, 1950-1956.	2.0	26
29	Ciliary motility activity measurement using a dense optical flow algorithm. , 2013, 2013, 4446-9.		2
30	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.	0.3	6
31	Optical flow method in phase-contrast microscopy images for the diagnosis of primary ciliary dyskinesia through measurement of ciliary beat frequency. Preliminary results. , 2012, , .		4
32	Increasing the convergence order of an iterative method for nonlinear systems. Applied Mathematics Letters, 2012, 25, 2369-2374.	1.5	94
33	Steffensen type methods for solving nonlinear equations. Journal of Computational and Applied Mathematics, 2012, 236, 3058-3064.	1.1	48
34	Optimal Derivative-Free Methods for Solving Nonlinear Equations. , 2011, , .		0
35	Accelerated Steffensen-Type Methods for Solving Nonlinear Systems of Equations. , 2011, , .		0
36	Efficient high-order methods based on golden ratio for nonlinear systems. Applied Mathematics and Computation, 2011, 217, 4548-4556.	1.4	30

#	Article	IF	Citations
37	Fuzzy control for obstacle detection in stereo video sequences. Mathematical and Computer Modelling, 2011, 54, 1813-1817.	2.0	7
38	Object tracking with a stereoscopic camera: exploring the three-dimensional space. European Journal of Physics, 2011, 32, 235-243.	0.3	6
39	Efficient three-step iterative methods with sixth order convergence for nonlinear equations. Numerical Algorithms, 2010, 53, 485-495.	1.1	15
40	A modified Newton-Jarrattâ€™s composition. Numerical Algorithms, 2010, 55, 87-99.	1.1	186
41	Simulation of a cubic-like Chuaâ€™s oscillator with variable characteristic. Mathematical and Computer Modelling, 2010, 52, 1211-1218.	2.0	6
42	Iterative methods for use with nonlinear discrete algebraic models. Mathematical and Computer Modelling, 2010, 52, 1251-1257.	2.0	13
43	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
44	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.	1.1	9
45	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.	1.1	65
46	Handling occlusion in object tracking in stereoscopic video sequences. Mathematical and Computer Modelling, 2009, 50, 823-830.	2.0	12
47	Third and fourth order iterative methods free from second derivative for nonlinear systems. Applied Mathematics and Computation, 2009, 211, 190-197.	1.4	23
48	Third order iterative methods free from second derivative for nonlinear systems. Applied Mathematics and Computation, 2009, 215, 58-65.	1.4	11
49	Modified Newtonâ€™s method for systems of nonlinear equations with singular Jacobian. Journal of Computational and Applied Mathematics, 2009, 224, 77-83.	1.1	33
50	Handling occlusion in optical flow algorithms for object tracking. Computers and Mathematics With Applications, 2008, 56, 733-742.	1.4	15
51	A note on some three-step iterative methods for nonlinear equations. Applied Mathematics and Computation, 2008, 202, 252-255.	1.4	1
52	Using image recognition to automate video analysis of physical processes. American Journal of Physics, 2003, 71, 1075-1079.	0.3	14
53	El flujo Ã³ptico como herramienta para el vÃdeo-anÃ¡lisis de fenÃ³menos fÃsicos. Modelling in Science Education and Learning, 0, 6, 97.	0.1	0