Raffaele D'ambrosio

List of Publications by Year
in descending order

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42 papers	691 citations	430874 18 h-index	610901 24 g-index
42 all docs	42 docs citations	42 times ranked	146 citing authors

#	Article	IF	Citations
1	Numerical solution of time fractional diffusion systems. Applied Numerical Mathematics, 2017, 116, 82-94.	2.1	44
2	Adapted numerical methods for advectionâ€“reactionâ€“diffusion problems generating periodic wavefronts. Computers and Mathematics With Applications, 2017, 74, 1029-1042.	2.7	36
3	A spectral method for stochastic fractional differential equations. Applied Numerical Mathematics, 2019, 139, 115-119.	2.1	30
4	Continuous two-step Rungeâ€“Kutta methods for ordinary differential equations. Numerical Algorithms, 2010, 54, 169-193.	1.9	29
5	Parameter estimation in exponentially fitted hybrid methods for second order differential problems. Journal of Mathematical Chemistry, 2012, 50, 155-168.	1.5	29
6	Construction and implementation of highly stable two-step continuous methods for stiff differential systems. Mathematics and Computers in Simulation, 2011, 81, 1707-1728.	4.4	28
7	Numerical solution of reactionâ€“diffusion systems of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si16.gif" display="inline" overflow="scroll"><mml:mi>Î»</mml:mi></mml:math>â€“<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si17.gif" display="inline" overflow="scroll"><mml:mi>Ï‰</mml:mi></mml:math>type by trigonometrically fitted methods. Journal of Computational and Applied Mathematics, 2016, 294, 436-445.	2.0	27
8	Exponentially fitted IMEX methods for advectionâ€“diffusion problems. Journal of Computational and Applied Mathematics, 2017, 316, 100-108.	2.0	27
9	Numerical search for algebraically stable two-step almost collocation methods. Journal of Computational and Applied Mathematics, 2013, 239, 304-321.	2.0	26
10	Long-term analysis of stochastic Î¸-methods for damped stochastic oscillators. Applied Numerical Mathematics, 2020, 150, 18-26.	2.1	25
11	On the numerical structure preservation of nonlinear damped stochastic oscillators. Numerical Algorithms, 2021, 86, 933-952.	1.9	24
12	Multivalue collocation methods free from order reduction. Journal of Computational and Applied Mathematics, 2021, 387, 112515.	2.0	24
13	GPU-acceleration of waveform relaxation methods for large differential systems. Numerical Algorithms, 2016, 71, 293-310.	1.9	21
14	Collocation Methods for Volterra Integral and Integro-Differential Equations: A Review. Axioms, 2018, 7, 45.	1.9	20
15	Adapted explicit two-step peer methods. Journal of Numerical Mathematics, 2019, 27, 69-83.	3.5	20
16	Natural Volterra Runge-Kutta methods. Numerical Algorithms, 2014, 65, 421-445.	1.9	18
17	Partitioned general linear methods for separable Hamiltonian problems. Applied Numerical Mathematics, 2017, 117, 69-86.	2.1	18
18	Nonlinear stability issues for stochastic Runge-Kutta methods. Communications in Nonlinear Science and Numerical Simulation, 2021, 94, 105549.	3.3	18

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19	IMPLEMENTATION OF EXPLICIT NORDSIECK METHODS WITH INHERENT QUADRATIC STABILITY. Mathematical Modelling and Analysis, 2013, 18, 289-307.	1.5	17
20	A-stability preserving perturbation of Rungeâ€“Kutta methods for stochastic differential equations. Applied Mathematics Letters, 2020, 102, 106098.	2.7	17
21	Mean-square contractivity of stochastic<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si5.svg"><mml:mi>Ï‘</mml:mi></mml:math>-methods. Communications in Nonlinear Science and Numerical Simulation, 2021, 96, 105671.	3.3	16
22	Improved Ï‘-methods for stochastic Volterra integral equations. Communications in Nonlinear Science and Numerical Simulation, 2021, 93, 105528.	3.3	15
23	Stiffness Analysis to Predict the Spread Out of Fake Information. Future Internet, 2021, 13, 222.	3.8	14
24	A PRACTICAL APPROACH FOR THE DERIVATION OF ALGEBRAICALLY STABLE TWO-STEP RUNGE-KUTTA METHODS. Mathematical Modelling and Analysis, 2012, 17, 65-77.	1.5	13
25	Order conditions for General Linear NystrÃ¶m methods. Numerical Algorithms, 2014, 65, 579-595.	1.9	13
26	Parameter estimation in IMEX-trigonometrically fitted methods for the numerical solution of reactionâ€“diffusion problems. Computer Physics Communications, 2018, 226, 55-66.	7.5	13
27	Stability Issues for Selected Stochastic Evolutionary Problems: A Review. Axioms, 2018, 7, 91.	1.9	11
28	Filon quadrature for stochastic oscillators driven by time-varying forces. Applied Numerical Mathematics, 2021, 169, 21-31.	2.1	11
29	A general framework for the numerical solution of second order ODEs. Mathematics and Computers in Simulation, 2015, 110, 113-124.	4.4	10
30	General NystrÃ¶m methods in Nordsieck form: Error analysis. Journal of Computational and Applied Mathematics, 2016, 292, 694-702.	2.0	10
31	Two-step Runge-Kutta methods for stochastic differential equations. Applied Mathematics and Computation, 2021, 403, 125930.	2.2	10
32	P-stable general NystrÃ¶m methods foryâ€³=f(y(t)). Journal of Computational and Applied Mathematics, 2014, 262, 271-280.	2.0	9
33	Adapted numerical modelling of the Belousovâ€“Zhabotinsky reaction. Journal of Mathematical Chemistry, 2018, 56, 2876-2897.	1.5	9
34	Perturbed MEBDF methods. Computers and Mathematics With Applications, 2012, 63, 851-861.	2.7	8
35	Synchronization scenarios induced by delayed communication in arrays of diffusively coupled autonomous chemical oscillators. Physical Chemistry Chemical Physics, 2021, 23, 17606-17615.	2.8	8
36	Multivalue mixed collocation methods. Applied Mathematics and Computation, 2021, 409, 126346.	2.2	6

#	Article	IF	Citations
37	Multivalue Collocation Methods for Ordinary and Fractional Differential Equations. Mathematics, 2022, 10, 185.	2.2	6
38	Nearly conservative multivalue methods with extended bounded parasitism. Applied Numerical Mathematics, 2020, 152, 221-230.	2.1	5
39	Regularized exponentially fitted methods for oscillatory problems. Journal of Physics: Conference Series, 2020, 1564, 012013.	0.4	3
40	Continuous Extension of Euler-Maruyama Method for Stochastic Differential Equations. Lecture Notes in Computer Science, 2021, , 135-145.	1.3	1
41	User-Friendly Expressions of the Coefficients of Some Exponentially Fitted Methods. Lecture Notes in Computer Science, 2020, , 47-62.	1.3	1
42	A Modified SEIR Model: Stiffness Analysis andÂApplication toÂtheÂDiffusion ofÂFake News. Lecture Notes in Computer Science, 2022, , 90-103.	1.3	1