Raffaele D'ambrosio

List of Publications by Year
in descending order

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	Multivalue Collocation Methods for Ordinary and Fractional Differential Equations. Mathematics, 2022, 10, 185.	2.2	6
2	A Modified SEIR Model: Stiffness Analysis andÂApplication toÂtheÂDiffusion ofÂFake News. Lecture Notes in Computer Science, 2022, , 90-103.	1.3	1
3	Nonlinear stability issues for stochastic Runge-Kutta methods. Communications in Nonlinear Science and Numerical Simulation, 2021, 94, 105549.	3.3	18
4	On the numerical structure preservation of nonlinear damped stochastic oscillators. Numerical Algorithms, 2021, 86, 933-952.	1.9	24
5	Improved Ï‘-methods for stochastic Volterra integral equations. Communications in Nonlinear Science and Numerical Simulation, 2021, 93, 105528.	3.3	15
6	Multivalue collocation methods free from order reduction. Journal of Computational and Applied Mathematics, 2021, 387, 112515.	2.0	24
7	Continuous Extension of Euler-Maruyama Method for Stochastic Differential Equations. Lecture Notes in Computer Science, 2021, , 135-145.	1.3	1
8	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
9	Stiffness Analysis to Predict the Spread Out of Fake Information. Future Internet, 2021, 13, 222.	3.8	14
10	Two-step Runge-Kutta methods for stochastic differential equations. Applied Mathematics and Computation, 2021, 403, 125930.	2.2	10
11	Multivalue mixed collocation methods. Applied Mathematics and Computation, 2021, 409, 126346.	2.2	6
12	Filon quadrature for stochastic oscillators driven by time-varying forces. Applied Numerical Mathematics, 2021, 169, 21-31.	2.1	11
13	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
14	Long-term analysis of stochastic Î¸-methods for damped stochastic oscillators. Applied Numerical Mathematics, 2020, 150, 18-26.	2.1	25
15	A-stability preserving perturbation of Rungeâ€“Kutta methods for stochastic differential equations. Applied Mathematics Letters, 2020, 102, 106098.	2.7	17
16	Nearly conservative multivalue methods with extended bounded parasitism. Applied Numerical Mathematics, 2020, 152, 221-230.	2.1	5
17	Regularized exponentially fitted methods for oscillatory problems. Journal of Physics: Conference Series, 2020, 1564, 012013.	0.4	3
18	User-Friendly Expressions of the Coefficients of Some Exponentially Fitted Methods. Lecture Notes in Computer Science, 2020, , 47-62.	1.3	1

#	Article	IF	Citations
19	A spectral method for stochastic fractional differential equations. Applied Numerical Mathematics, 2019, 139, 115-119.	2.1	30
20	Adapted explicit two-step peer methods. Journal of Numerical Mathematics, 2019, 27, 69-83.	3.5	20
21	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
22	Stability Issues for Selected Stochastic Evolutionary Problems: A Review. Axioms, 2018, 7, 91.	1.9	11
23	Collocation Methods for Volterra Integral and Integro-Differential Equations: A Review. Axioms, 2018, 7, 45.	1.9	20
24	Adapted numerical modelling of the Belousovâ€“Zhabotinsky reaction. Journal of Mathematical Chemistry, 2018, 56, 2876-2897.	1.5	9
25	Numerical solution of time fractional diffusion systems. Applied Numerical Mathematics, 2017, 116, 82-94.	2.1	44
26	Adapted numerical methods for advectionâ€“reactionâ€“diffusion problems generating periodic wavefronts. Computers and Mathematics With Applications, 2017, 74, 1029-1042.	2.7	36
27	Partitioned general linear methods for separable Hamiltonian problems. Applied Numerical Mathematics, 2017, 117, 69-86.	2.1	18
28	Exponentially fitted IMEX methods for advectionâ€“diffusion problems. Journal of Computational and Applied Mathematics, 2017, 316, 100-108.	2.0	27
29	General NystrÃ¶m methods in Nordsieck form: Error analysis. Journal of Computational and Applied Mathematics, 2016, 292, 694-702.	2.0	10
30	GPU-acceleration of waveform relaxation methods for large differential systems. Numerical Algorithms, 2016, 71, 293-310.	1.9	21
31	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
32	A general framework for the numerical solution of second order ODEs. Mathematics and Computers in Simulation, 2015, 110, 113-124.	4.4	10
33	Order conditions for General Linear NystrÃ¶m methods. Numerical Algorithms, 2014, 65, 579-595.	1.9	13
34	Natural Volterra Runge-Kutta methods. Numerical Algorithms, 2014, 65, 421-445.	1.9	18
35	P-stable general NystrÃ¶m methods foryâ€³=f(y(t)). Journal of Computational and Applied Mathematics, 2014, 262, 271-280.	2.0	9
36	Numerical search for algebraically stable two-step almost collocation methods. Journal of Computational and Applied Mathematics, 2013, 239, 304-321.	2.0	26

#	Article	IF	Citations
37	IMPLEMENTATION OF EXPLICIT NORDSIECK METHODS WITH INHERENT QUADRATIC STABILITY. Mathematical Modelling and Analysis, 2013, 18, 289-307.	1.5	17
38	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
39	Perturbed MEBDF methods. Computers and Mathematics With Applications, 2012, 63, 851-861.	2.7	8
40	Parameter estimation in exponentially fitted hybrid methods for second order differential problems. Journal of Mathematical Chemistry, 2012, 50, 155-168.	1.5	29
41	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
42	Continuous two-step Rungeâ€“Kutta methods for ordinary differential equations. Numerical Algorithms, 2010, 54, 169-193.	1.9	29