Agnes Havasi

List of Publications by Year
in descending order

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36 papers	395 citations	933447 10 h-index	794594 19 g-index
43 all docs	43 docs citations	43 times ranked	318 citing authors

#	Article	IF	Citations
1	Dispersion modeling of air pollutants in the atmosphere: a review. Open Geosciences, 2014, 6, .	1.7	95
2	Trends of Hungarian air pollution levels on a long time-scale. Atmospheric Environment, 2002, 36, 4145-4156.	4.1	41
3	Efficient implementation of stable Richardson Extrapolation algorithms. Computers and Mathematics With Applications, 2010, 60, 2309-2325.	2.7	32
4	Stability of the Richardson Extrapolation applied together with the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si19.gif" display="inline" overflow="scroll"><mml:mi>Î¸</mml:mi></mml:math>-method. Journal of Computational and Applied Mathematics, 2010, 235, 507-517.	2.0	24
5	Influence of Climatic Changes on Pollution Levels in Hungary and Surrounding Countries. Atmosphere, 2011, 2, 201-221.	2.3	21
6	On the convergence and local splitting error of different splitting schemes. Progress in Computational Fluid Dynamics, 2005, 5, 495.	0.2	18
7	Consistency Analysis of Operator Splitting Methods for C0-Semigroups Expression. Semigroup Forum, 2007, 74, 125-139.	0.6	15
8	Testing weighted splitting schemes on a one-column transport-chemistry model. International Journal of Environment and Pollution, 2004, 22, 3.	0.2	14
9	Additive and iterative operator splitting methods and their numerical investigation. Computers and Mathematics With Applications, 2008, 55, 2266-2279.	2.7	12
10	Richardson-extrapolated sequential splitting and its application. Journal of Computational and Applied Mathematics, 2009, 226, 218-227.	2.0	11
11	The convergence of diagonally implicit Rungeâ€“Kutta methods combined with Richardson extrapolation. Computers and Mathematics With Applications, 2013, 65, 395-401.	2.7	11
12	Different splitting techniques with application to air pollution models. International Journal of Environment and Pollution, 2008, 32, 174.	0.2	10
13	Richardson Extrapolation combined with the sequential splitting procedure and the Î¸-method. Central European Journal of Mathematics, 2012, 10, 159-172.	0.7	10
14	Application of Richardson extrapolation for multi-dimensional advection equations. Computers and Mathematics With Applications, 2014, 67, 2279-2293.	2.7	9
15	Stability of the Richardson Extrapolation combined with some implicit Rungeâ€“Kutta methods. Journal of Computational and Applied Mathematics, 2017, 310, 224-240.	2.0	9
16	Explicit Rungeâ€“Kutta Methods Combined with Advanced Versions of the Richardson Extrapolation. Computational Methods in Applied Mathematics, 2020, 20, 739-762.	0.8	7
17	LARGE-SCALE AIR POLLUTION MODELING IN EUROPE UNDER DIFFERENT CLIMATIC SCENARIOS. International Journal of Big Data Mining for Global Warming, 2019, 01, 1950009.	1.0	4
18	Solving Advection Equations by Applying the Crank-Nicolson Scheme Combined with the Richardson Extrapolation. International Journal of Differential Equations, 2011, 2011, 1-16.	0.8	3

#	Article	IF	Citations
19	Absolute Stability and Implementation of the Two-Times Repeated Richardson Extrapolation Together with Explicit Runge-Kutta Methods. Lecture Notes in Computer Science, 2019, , 678-686.	1.3	3
20	Relationship between vanishing splitting errors and pairwise commutativity. Applied Mathematics Letters, 2008, 21, 10-14.	2.7	2
21	Wave analysis for different splittings of the shallow water equations on the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si10.gif" display="inline" overflow="scroll"><mml:mi>Î²</mml:mi></mml:math>-plane. Computers and Mathematics With Applications, 2008, 55, 2295-2305.	2.7	2
22	Numerical solution of the Maxwell equations in time-varying media using Magnus expansion. Central European Journal of Mathematics, 2012, 10, 137-149.	0.7	2
23	Solving Reaction-Diffusion and Advection Problems with Richardson Extrapolation. Journal of Chemistry, 2015, 2015, 1-9.	1.9	2
24	Eulerian and Lagrangian Approaches for Modelling of Air Quality. Mathematics in Industry, 2016, , 73-85.	0.3	2
25	Stability Properties of Repeated Richardson Extrapolation Applied Together with Some Implicit Runge-Kutta Methods. Lecture Notes in Computer Science, 2019, , 114-125.	1.3	2
26	Efficient implementation of advanced Richardson Extrapolation in an atmospheric chemical scheme. Journal of Mathematical Chemistry, 0, , 1.	1.5	2
27	On Richardson extrapolation for low-dissipation low-dispersion diagonally implicit Rungeâ€“Kutta schemes. Journal of Computational Physics, 2018, 358, 21-35.	3.8	1
28	On Some Stability Properties of the Richardson Extrapolation Applied Together with the Î¸-Method. Lecture Notes in Computer Science, 2010, , 54-66.	1.3	1
29	Richardson Extrapolated Numerical Methods for Treatment of One-Dimensional Advection Equations. Lecture Notes in Computer Science, 2011, , 198-206.	1.3	1
30	Impact of Climatic Changes on Pollution Levels. Mathematics in Industry, 2016, , 129-161.	0.3	1
31	Special issue on advanced numerical algorithms for large-scale computations: Introduction. Computers and Mathematics With Applications, 2008, 55, 2183-2184.	2.7	0
32	Special Issue on Advanced Computational Algorithms: Introduction. Journal of Computational and Applied Mathematics, 2010, 235, 345-347.	2.0	0
33	Mathematical Treatment of Environmental Models. Mathematics in Industry, 2014, , 65-70.	0.3	0
34	Advanced algorithms for studying the impact of climate changes on ozone levels in the atmosphere. International Journal of Environment and Pollution, 2019, 66, 212.	0.2	0
35	Dispersion Analysis of Operator Splittings in the Linearized Shallow Water Equations. Lecture Notes in Computer Science, 2006, , 355-362.	1.3	0
36	Studying the Influence of Climate Changes on European Ozone Levels. Lecture Notes in Computer Science, 2020, , 391-399.	1.3	0