Rodolphe Turpault

List of Publications by Year
in descending order

27 papers	464 citations	933264 10 h-index	677027 22 g-index
29 all docs	29 docs citations	29 times ranked	494 citing authors

#	Article	IF	Citations
1	Very high-order asymptotic-preserving schemes for hyperbolic systems of conservation laws with parabolic degeneracy on unstructured meshes. Computers and Mathematics With Applications, 2021, 87, 41-49.	1.4	1
2	A Priori Neural Networks Versus A Posteriori MOOD Loop: A High Accurate 1D FV Scheme Testing Bed. Journal of Scientific Computing, 2020, 84, 1.	1.1	3
3	A domain decomposition strategy for a very high-order finite volumes scheme applied to cardiac electrophysiology. Journal of Computational Science, 2019, 37, 101025.	1.5	4
4	High‐order asymptotic‐preserving schemes for linear systems: Application to the Goldstein–Taylor equations. Numerical Methods for Partial Differential Equations, 2019, 35, 1538-1561.	2.0	2
5	An admissibility and asymptotic preserving scheme for systems of conservation laws with source term on 2D unstructured meshes with high-order MOOD reconstruction. Computer Methods in Applied Mechanics and Engineering, 2017, 317, 836-867.	3.4	11
6	Very high order finite volume methods for cardiac electrophysiology. Computers and Mathematics With Applications, 2017, 74, 684-700.	1.4	7
7	An asymptotic-preserving scheme for systems of conservation laws with source terms on 2D unstructured meshes. Communications in Applied Mathematics and Computational Science, 2016, 11, 55-77.	0.7	6
8	An admissibility and asymptotic-preserving scheme for systems of conservation laws with source term on 2D unstructured meshes. Journal of Computational Physics, 2016, 315, 98-123.	1.9	8
9	Shock Profiles for the Shallow-Water Exner Models. Advances in Applied Mathematics and Mechanics, 2015, 7, 267-294.	0.7	7
10	Asymptotic preserving scheme for the shallow water equations with source terms on unstructured meshes. Journal of Computational Physics, 2015, 287, 184-206.	1.9	21
11	Space-time Generalized Riemann Problem Solvers of Order k for Linear Advection with Unrestricted Time Step. Journal of Scientific Computing, 2013, 55, 268-308.	1.1	5
12	Asymptotic preserving numerical schemes for a non‐classical radiation transport model for atmospheric clouds. Mathematical Methods in the Applied Sciences, 2013, 36, 2101-2116.	1.2	7
13	Asymptotic‐preserving Godunov‐type numerical schemes for hyperbolic systems with stiff and nonstiff relaxation terms. Numerical Methods for Partial Differential Equations, 2013, 29, 1149-1172.	2.0	6
14	Late-time/stiff-relaxation asymptotic-preserving approximations of hyperbolic equations. Mathematics of Computation, 2012, 82, 831-860.	1.1	24
15	Multifocal Ectopic Purkinje-Related Premature Contractions. Journal of the American College of Cardiology, 2012, 60, 144-156.	1.2	156
16	R222Q Nav1.5 Mutation Associated with a New SCN5A-Related Cardiac Arrhythmia. Biophysical Journal, 2012, 102, 527a.	0.2	0
17	A numerical correction of the $M1$-model in the diffusive limit. Discrete and Continuous Dynamical Systems - Series S, 2012, 5, 245-255.	0.6	1
18	Numerical Methods for Balance Laws with Space Dependent Flux: Application to Radiotherapy Dose Calculation. Communications in Computational Physics, 2011, 10, 1184-1210.	0.7	10

#	Article	IF	Citations
19	Asymptotic preserving HLL schemes. Numerical Methods for Partial Differential Equations, 2011, 27, 1396-1422.	2.0	41
20	An efficient scheme on wet/dry transitions for shallow water equations with friction. Computers and Fluids, 2011, 48, 192-201.	1.3	26
21	A mathematical model of the Purkinje-Muscle Junctions. Mathematical Biosciences and Engineering, 2011, 8, 915-930.	1.0	16
22	Properties and frequential hybridisation of the multigroup model for radiative transfer. Nonlinear Analysis: Real World Applications, 2010, 11, 2514-2528.	0.9	4
23	A mathematical model of the ventricular conduction system. , 2010, , .		0
24	A Free Streaming Contact Preserving Scheme for the M$_1$ Model. Advances in Applied Mathematics and Mechanics, 2010, 2, 259-285.	0.7	16
25	A consistent multigroup model for radiative transfer and its underlying mean opacities. Journal of Quantitative Spectroscopy and Radiative Transfer, 2005, 94, 357-371.	1.1	38
26	Multigroup half space moment approximations to the radiative heat transfer equations. Journal of Computational Physics, 2004, 198, 363-371.	1.9	34
27	Construction d'un modèle M1-multigroupe pour les équations du transfert radiatif. Comptes Rendus Mathematique, 2002, 334, 331-336.	0.1	10