

# Sudip Kumar Garain

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2021776/publications.pdf>

Version: 2024-02-01

12  
papers

389  
citations

1163117

8  
h-index

1199594

12  
g-index

12  
all docs

12  
docs citations

12  
times ranked

255  
citing authors

#	ARTICLE	IF	CITATIONS
1	An efficient class of WENO schemes with adaptive order. Journal of Computational Physics, 2016, 326, 780-804.	3.8	180
2	An efficient class of WENO schemes with adaptive order for unstructured meshes. Journal of Computational Physics, 2020, 404, 109062.	3.8	45
3	A high-order relativistic two-fluid electrodynamic scheme with consistent reconstruction of electromagnetic fields and a multidimensional Riemann solver for electromagnetism. Journal of Computational Physics, 2016, 318, 169-200.	3.8	40
4	A two-dimensional Riemann solver with self-similar sub-structure “ Alternative formulation based on least squares projection. Journal of Computational Physics, 2016, 304, 138-161.	3.8	26
5	Computational electrodynamics in material media with constraint-preservation, multidimensional Riemann solvers and sub-cell resolution “ Part I, second-order FVTD schemes. Journal of Computational Physics, 2017, 349, 604-635.	3.8	22
6	Computational electrodynamics in material media with constraint-preservation, multidimensional Riemann solvers and sub-cell resolution “ Part II, higher order FVTD schemes. Journal of Computational Physics, 2018, 354, 613-645.	3.8	22
7	Comparing Coarray Fortran (CAF) with MPI for several structured mesh PDE applications. Journal of Computational Physics, 2015, 297, 237-253.	3.8	20
8	Efficient, divergence-free, high-order MHD on 3D spherical meshes with optimal geodesic meshing. Monthly Notices of the Royal Astronomical Society, 2019, 487, 1283-1314.	4.4	13
9	Resilient computational applications using Coarray Fortran. Parallel Computing, 2019, 81, 58-67.	2.1	8
10	Technologies for supporting high-order geodesic mesh frameworks for computational astrophysics and space sciences. Computational Astrophysics and Cosmology, 2020, 7, 1.	22.7	5
11	Riemann solvers and Alfvén waves in black hole magnetospheres. Computational Astrophysics and Cosmology, 2016, 3, 5.	22.7	4
12	Effects of Magnetic Field Loops on the Dynamics of Advective Accretion Flows and Jets around a Schwarzschild Black Hole. Astrophysical Journal, 2020, 888, 59.	4.5	4