

# Mohamed Zerroukat

## List of Publications by Year in descending order

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32  
papers

2,842  
citations

516710

16  
h-index

454955

30  
g-index

33  
all docs

33  
docs citations

33  
times ranked

4055  
citing authors

#	ARTICLE	IF	CITATIONS
1	On the corners of the cubed sphere grid. Quarterly Journal of the Royal Meteorological Society, 2022, 148, 778-783.	2.7	2
2	SLIC: A Semi-Lagrangian Implicitly Corrected method for solving the compressible Euler equations. Journal of Computational Physics, 2020, 421, 109739.	3.8	2
3	The first Met Office Unified Model "JULES Regional Atmosphere and Land configuration, RAL1. Geoscientific Model Development, 2020, 13, 1999-2029.	3.6	96
4	A simple immersed boundary forcing for flows over steep and complex orography. Quarterly Journal of the Royal Meteorological Society, 2020, 146, 3488-3502.	2.7	0
5	Forced advection problems for testing transport schemes. Quarterly Journal of the Royal Meteorological Society, 2020, 146, 996-1008.	2.7	0
6	UKESM1: Description and Evaluation of the U.K. Earth System Model. Journal of Advances in Modeling Earth Systems, 2019, 11, 4513-4558.	3.8	448
7	A semi-Lagrangian semi-implicit immersed boundary method for atmospheric flow over complex terrain. Journal of Computational Physics, 2019, 397, 108857.	3.8	5
8	The Met Office Unified Model Global Atmosphere 7.0/7.1 and JULES Global Land 7.0 configurations. Geoscientific Model Development, 2019, 12, 1909-1963.	3.6	372
9	A consistent treatment of the boundary layer for atmospheric models. Quarterly Journal of the Royal Meteorological Society, 2018, 144, 2156-2164.	2.7	4
10	ZLF (Zero Lateral Flux): a simple mass conservation method for semi-Lagrangian based limited area models. Quarterly Journal of the Royal Meteorological Society, 2017, 143, 2578-2584.	2.7	15
11	A deep non-hydrostatic compressible atmospheric model on a Yin-Yang grid. Journal of Computational Physics, 2016, 319, 44-60.	3.8	9
12	Semi-Lagrangian Advection of Stratospheric Ozone on a Yin-Yang Grid System. Monthly Weather Review, 2016, 144, 1035-1050.	1.4	17
13	On the monotonic and conservative transport on overset/Yin-Yang grids. Journal of Computational Physics, 2015, 302, 285-299.	3.8	12
14	A moist Boussinesq shallow water equations set for testing atmospheric models. Journal of Computational Physics, 2015, 290, 55-72.	3.8	14
15	Mixing properties of SLICE and other mass-conservative semi-Lagrangian schemes. Quarterly Journal of the Royal Meteorological Society, 2014, 140, 2084-2089.	2.7	6
16	An inherently mass-conserving semi-implicit semi-Lagrangian discretization of the deep atmosphere global non-hydrostatic equations. Quarterly Journal of the Royal Meteorological Society, 2014, 140, 1505-1520.	2.7	333
17	On the Solution of Elliptic Problems on Overset/Yin-Yang Grids. Monthly Weather Review, 2012, 140, 2756-2767.	1.4	5
18	A three-dimensional monotone and conservative semi-Lagrangian scheme (SLICE-3D) for transport problems. Quarterly Journal of the Royal Meteorological Society, 2012, 138, 1640-1651.	2.7	32

#	ARTICLE	IF	CITATIONS
19	The HadGEM2-ES implementation of CMIP5 centennial simulations. <i>Geoscientific Model Development</i> , 2011, 4, 543-570.	3.6	803
20	A simple mass conserving semi-Lagrangian scheme for transport problems. <i>Journal of Computational Physics</i> , 2010, 229, 9011-9019.	3.8	25
21	The monotonic Quartic Spline Method (QSM) for conservative transport problems. <i>Journal of Computational Physics</i> , 2010, 229, 1150-1166.	3.8	4
22	Coupling a mass-conserving semi-Lagrangian scheme (SLICE) to a semi-implicit discretization of the shallow-water equations: Minimizing the dependence on a reference atmosphere. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2010, 136, 146-154.	2.7	17
23	An inherently mass-conserving iterative semi-implicit semi-Lagrangian discretization of the non-hydrostatic vertical-slice equations. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2010, 136, 799-814.	2.7	19
24	An improved version of SLICE for conservative monotonic remapping on a C-grid. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2009, 135, 541-546.	2.7	12
25	An inherently mass-conserving semi-implicit semi-Lagrangian discretisation of the shallow-water equations on the sphere. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2009, 135, 1104-1116.	2.7	27
26	Application of the parabolic spline method (PSM) to a multi-dimensional conservative semi-Lagrangian transport scheme (SLICE). <i>Journal of Computational Physics</i> , 2007, 225, 935-948.	3.8	37
27	The Parabolic Spline Method (PSM) for conservative transport problems. <i>International Journal for Numerical Methods in Fluids</i> , 2006, 51, 1297-1318.	1.6	61
28	A monotonic and positive-definite filter for a Semi-Lagrangian Inherently Conserving and Efficient (SLICE) scheme. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2005, 131, 2923-2936.	2.7	61
29	SLICE-S: A Semi-Lagrangian Inherently Conserving and Efficient scheme for transport problems on the Sphere. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2004, 130, 2649-2664.	2.7	55
30	SLICE: A Semi-Lagrangian Inherently Conserving and Efficient scheme for transport problems. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2002, 128, 2801-2820.	2.7	79
31	Explicit and implicit meshless methods for linear advection-diffusion-type partial differential equations. <i>International Journal for Numerical Methods in Engineering</i> , 2000, 48, 19-35.	2.8	46
32	A numerical method for heat transfer problems using collocation and radial basis functions. <i>International Journal for Numerical Methods in Engineering</i> , 1998, 42, 1263-1278.	2.8	216