

# Edouard Audit

## List of Publications by Year in descending order

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34  
papers

711  
citations

567281

15  
h-index

526287

27  
g-index

34  
all docs

34  
docs citations

34  
times ranked

1070  
citing authors

#	ARTICLE	IF	CITATIONS
1	Numerical simulations of superluminous supernovae of type IIn. Monthly Notices of the Royal Astronomical Society, 2015, 449, 4304-4325.	4.4	87
2	Explosion of red-supergiant stars: Influence of the atmospheric structure on shock breakout and early-time supernova radiation. Astronomy and Astrophysics, 2017, 605, A83.	5.1	63
3	A numerical model for multigroup radiation hydrodynamics. Journal of Quantitative Spectroscopy and Radiative Transfer, 2011, 112, 1323-1335.	2.3	62
4	THE ANGULAR MOMENTUM OF MAGNETIZED MOLECULAR CLOUD CORES: A TWO-DIMENSIONAL-THREE-DIMENSIONAL COMPARISON. Astrophysical Journal, 2010, 723, 425-439.	4.5	61
5	Simulations of protostellar collapse using multigroup radiation hydrodynamics. Astronomy and Astrophysics, 2013, 557, A90.	5.1	52
6	Models of interacting supernovae and their spectral diversity. Monthly Notices of the Royal Astronomical Society, 2016, 458, 2094-2121.	4.4	44
7	Thermo-compositional Diabatic Convection in the Atmospheres of Brown Dwarfs and in Earth's Atmosphere and Oceans. Astrophysical Journal, 2019, 876, 144.	4.5	36
8	Astrophysical radiative shocks: From modeling to laboratory experiments. Laser and Particle Beams, 2006, 24, 535-540.	1.0	34
9	A simple two-dimensional extension of the HLL Riemann solver for hyperbolic systems of conservation laws. Journal of Computational Physics, 2015, 280, 643-675.	3.8	30
10	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
11	The kinematic Sunyaev-Zel'dovich effect and transverse cluster velocities. Monthly Notices of the Royal Astronomical Society, 1999, 305, L27-L30.	4.4	25
12	Experimental study of radiative shocks at PALS facility. Laser and Particle Beams, 2010, 28, 253-261.	1.0	21
13	Two-dimensional radiation hydrodynamics simulations of superluminous interacting supernovae of Type IIn. Monthly Notices of the Royal Astronomical Society, 2016, 458, 1253-1266.	4.4	20
14	The orientations of molecular clouds in the outer Galaxy: evidence for the scale of the turbulence driver?. Monthly Notices of the Royal Astronomical Society, 2009, 398, 1201-1206.	4.4	18
15	A FACTORED OPERATOR METHOD FOR SOLVING COUPLED RADIATION-HYDRODYNAMICS MODELS. Transport Theory and Statistical Physics, 2002, 31, 531-557.	0.4	15
16	Effect of lateral radiative losses on radiative shock propagation. High Energy Density Physics, 2007, 3, 8-11.	1.5	15
17	The influence of frequency-dependent radiative transfer on the structures of radiative shocks. Journal of Quantitative Spectroscopy and Radiative Transfer, 2013, 125, 105-122.	2.3	14
18	A Hybrid Monte Carlo Scheme for Multibackbone Protein Design. Journal of Chemical Theory and Computation, 2016, 12, 6035-6048.	5.3	14

#	ARTICLE	IF	CITATIONS
19	Super-luminous Type II supernovae powered by magnetars. <i>Astronomy and Astrophysics</i> , 2018, 613, A5.	5.1	12
20	A High-performance and Portable All-Mach Regime Flow Solver Code with Well-balanced Gravity. Application to Compressible Convection. <i>Astrophysical Journal</i> , 2019, 875, 128.	4.5	11
21	Separation of instrumental and astrophysical foregrounds for mapping cosmic microwave background anisotropies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2002, 330, 807-816.	4.4	9
22	Reformulation of the M1 model of radiative transfer. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2014, 145, 9-16.	2.3	9
23	Influence of macroclumping on type II supernova light curves. <i>Astronomy and Astrophysics</i> , 2019, 629, A17.	5.1	8
24	A Godunov-Type Solver for the Numerical Approximation of Gravitational Flows. <i>Communications in Computational Physics</i> , 2014, 15, 46-75.	1.7	7
25	The use of light polarization in weak-lensing inversions. <i>Monthly Notices of the Royal Astronomical Society</i> , 1999, 303, 87-95.	4.4	6
26	The optical polarization of spiral galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2000, 319, 497-509.	4.4	5
27	An Accurate Sharp Interface Method for Two-Phase Compressible Flows at Low-Mach Regime. <i>Flow, Turbulence and Combustion</i> , 2020, 105, 1413-1444.	2.6	3
28	Formation of structures around HII regions: ionization feedback from massive stars. <i>Proceedings of the International Astronomical Union</i> , 2012, 10, 590-590.	0.0	2
29	Visualization of large astrophysical simulations datasets. <i>Computer Physics Communications</i> , 2007, 177, 263.	7.5	1
30	Structure of the turbulent atomic gas and formation of molecular clouds. <i>EAS Publications Series</i> , 2008, 31, 15-18.	0.3	1
31	HERACLES: a three dimensional radiation hydrodynamics code. <i>EAS Publications Series</i> , 2006, 18, 115-128.	0.3	0
32	Radiative, magnetic and numerical feedbacks on small-scale fragmentation. <i>Proceedings of the International Astronomical Union</i> , 2010, 6, 227-230.	0.0	0
33	Star formation in the Rosette molecular cloud under the influence of NGC 2244. <i>EAS Publications Series</i> , 2011, 52, 305-306.	0.3	0
34	ASTRONUM-2015. <i>Journal of Physics: Conference Series</i> , 2016, 719, 011001.	0.4	0