# Edouard Audit

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/4770392/publications.pdf

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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 | An Accurate Sharp Interface Method for Two-Phase Compressible Flows at Low-Mach Regime. Flow, Turbulence and Combustion, 2020, 105, 1413-1444. | 2.6 | 3 |
| 2 | Influence of macroclumping on type II supernova light curves. Astronomy and Astrophysics, 2019, 629, A17. | 5.1 | 8 |
| 3 | A High-performance and Portable All-Mach Regime Flow Solver Code with Well-balanced Gravity. Application to Compressible Convection. Astrophysical Journal, 2019, 875, 128. | 4.5 | 11 |
| 4 | Thermo-compositional Diabatic Convection in the Atmospheres of Brown Dwarfs and in Earthâ€™s Atmosphere and Oceans. Astrophysical Journal, 2019, 876, 144. | 4.5 | 36 |
| 5 | Super-luminous Type II supernovae powered by magnetars. Astronomy and Astrophysics, 2018, 613, A5. | 5.1 | 12 |
| 6 | 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 |
| 7 | ASTRONUM-2015. Journal of Physics: Conference Series, 2016, 719, 011001. | 0.4 | 0 |
| 8 | A Hybrid Monte Carlo Scheme for Multibackbone Protein Design. Journal of Chemical Theory and Computation, 2016, 12, 6035-6048. | 5.3 | 14 |
| 9 | Models of interacting supernovae and their spectral diversity. Monthly Notices of the Royal Astronomical Society, 2016, 458, 2094-2121. | 4.4 | 44 |
| 10 | 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 |
| 11 | A two-dimensional Riemann solver with self-similar sub-structure â€“ Alternative formulation based on least squares projection. Journal of Computational Physics, 2016, 304, 138-161. | 3.8 | 26 |
| 12 | Numerical simulations of superluminous supernovae of type IIn. Monthly Notices of the Royal Astronomical Society, 2015, 449, 4304-4325. | 4.4 | 87 |
| 13 | 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 |
| 14 | A Godunov-Type Solver for the Numerical Approximation of Gravitational Flows. Communications in Computational Physics, 2014, 15, 46-75. | 1.7 | 7 |
| 15 | Reformulation of the M1 model of radiative transfer. Journal of Quantitative Spectroscopy and Radiative Transfer, 2014, 145, 9-16. | 2.3 | 9 |
| 16 | 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 |
| 17 | Simulations of protostellar collapse using multigroup radiation hydrodynamics. Astronomy and Astrophysics, 2013, 557, A90. | 5.1 | 52 |
| 18 | Formation of structures around HII regions: ionization feedback from massive stars. Proceedings of the International Astronomical Union, 2012, 10, 590-590. | 0.0 | 2 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | A numerical model for multigroup radiation hydrodynamics. Journal of Quantitative Spectroscopy and Radiative Transfer, 2011, 112, 1323-1335. | 2.3 | 62 |
| 20 | Star formation in the Rosette molecular cloud under the influence of NGC 2244. EAS Publications Series, 2011, 52, 305-306. | 0.3 | 0 |
| 21 | Radiative, magnetic and numerical feedbacks on small-scale fragmentation. Proceedings of the International Astronomical Union, 2010, 6, 227-230. | 0.0 | 0 |
| 22 | THE ANGULAR MOMENTUM OF MAGNETIZED MOLECULAR CLOUD CORES: A TWO-DIMENSIONAL-THREE-DIMENSIONAL COMPARISON. Astrophysical Journal, 2010, 723, 425-439. | 4.5 | 61 |
| 23 | Experimental study of radiative shocks at PALS facility. Laser and Particle Beams, 2010, 28, 253-261. | 1.0 | 21 |
| 24 | 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 |
| 25 | Structure of the turbulent atomic gas and formation of molecular clouds. EAS Publications Series, 2008, 31, 15-18. | 0.3 | 1 |
| 26 | Visualization of large astrophysical simulations datasets. Computer Physics Communications, 2007, 177, 263. | 7.5 | 1 |
| 27 | Effect of lateral radiative losses on radiative shock propagation. High Energy Density Physics, 2007, 3, 8-11. | 1.5 | 15 |
| 28 | HERACLES: a three dimensional radiation hydrodynamics code. EAS Publications Series, 2006, 18, 115-128. | 0.3 | 0 |
| 29 | Astrophysical radiative shocks: From modeling to laboratory experiments. Laser and Particle Beams, 2006, 24, 535-540. | 1.0 | 34 |
| 30 | A FACTORED OPERATOR METHOD FOR SOLVING COUPLED RADIATION-HYDRODYNAMICS MODELS. Transport Theory and Statistical Physics, 2002, 31, 531-557. | 0.4 | 15 |
| 31 | Separation of instrumental and astrophysical foregrounds for mapping cosmic microwave background anisotropies. Monthly Notices of the Royal Astronomical Society, 2002, 330, 807-816. | 4.4 | 9 |
| 32 | The optical polarization of spiral galaxies. Monthly Notices of the Royal Astronomical Society, 2000, 319, 497-509. | 4.4 | 5 |
| 33 | The use of light polarization in weak-lensing inversions. Monthly Notices of the Royal Astronomical Society, 1999, 303, 87-95. | 4.4 | 6 |
| 34 | The kinematic Sunyaev--Zel'dovich effect and transverse cluster velocities. Monthly Notices of the Royal Astronomical Society, 1999, 305, L27-L30. | 4.4 | 25 |