

Benoit Cerutti

List of Publications by Year in descending order

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27
papers

1,360
citations

430874

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h-index

642732

23
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docs citations

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times ranked

1593
citing authors

#	ARTICLE	IF	CITATIONS
1	AB INITIO PULSAR MAGNETOSPHERE: THREE-DIMENSIONAL PARTICLE-IN-CELL SIMULATIONS OF OBLIQUE PULSARS. <i>Astrophysical Journal Letters</i> , 2015, 801, L19.	8.3	144
2	EXTREME PARTICLE ACCELERATION IN MAGNETIC RECONNECTION LAYERS: APPLICATION TO THE GAMMA-RAY FLARES IN THE CRAB NEBULA. <i>Astrophysical Journal</i> , 2012, 746, 148.	4.5	136
3	RECONNECTION-POWERED LINEAR ACCELERATOR AND GAMMA-RAY FLARES IN THE CRAB NEBULA. <i>Astrophysical Journal Letters</i> , 2011, 737, L40.	8.3	134
4	Modelling high-energy pulsar light curves from first principles. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 457, 2401-2414.	4.4	132
5	Particle acceleration in axisymmetric pulsar current sheets. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 448, 606-619.	4.4	129
6	First-Principles Plasma Simulations of Black-Hole Jet Launching. <i>Physical Review Letters</i> , 2019, 122, 035101.	7.8	109
7	Pulsar-Wind Nebulae. <i>Space Science Reviews</i> , 2015, 191, 391-439.	8.1	69
8	Electrodynamics of Pulsar Magnetospheres. <i>Space Science Reviews</i> , 2017, 207, 111-136.	8.1	69
9	Pulsar Radio Emission Mechanism: Radio Nanoshots as a Low-frequency Afterglow of Relativistic Magnetic Reconnection. <i>Astrophysical Journal Letters</i> , 2019, 876, L6.	8.3	60
10	Particle-in-cell simulations of pair discharges in a starved magnetosphere of a Kerr black hole. <i>Astronomy and Astrophysics</i> , 2018, 616, A184.	5.1	48
11	Dissipation of the striped pulsar wind. <i>Astronomy and Astrophysics</i> , 2017, 607, A134.	5.1	47
12	Multidimensional Simulations of Ergospheric Pair Discharges around Black Holes. <i>Physical Review Letters</i> , 2020, 124, 145101.	7.8	47
13	The gamma-ray emitting region of the jet in Cyg X-3. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 421, 2956-2968.	4.4	40
14	Energetic constraints on a rapid gamma-ray flare in PKS 1222+216. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 425, 2519-2529.	4.4	38
15	Dissipation of the striped pulsar wind and non-thermal particle acceleration: 3D PIC simulations. <i>Astronomy and Astrophysics</i> , 2020, 642, A204.	5.1	34
16	Proton acceleration in pulsar magnetospheres. <i>Astronomy and Astrophysics</i> , 2020, 635, A138.	5.1	31
17	Polarized synchrotron emission from the equatorial current sheet in gamma-ray pulsars. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2016, 463, L89-L93.	3.3	27
18	Synthetic gamma-ray light curves of Kerr black hole magnetospheric activity from particle-in-cell simulations. <i>Astronomy and Astrophysics</i> , 2021, 650, A163.	5.1	27

#	ARTICLE	IF	CITATIONS
19	A global model of particle acceleration at pulsar wind termination shocks. <i>Astronomy and Astrophysics</i> , 2020, 642, A123.	5.1	17
20	Particle Acceleration in Pulsar Wind Nebulae: PIC Modelling. <i>Astrophysics and Space Science Library</i> , 2017, , 247-277.	2.7	13
21	Formation of giant plasmoids at the pulsar wind termination shock: A possible origin of the inner-ring knots in the Crab Nebula. <i>Astronomy and Astrophysics</i> , 2021, 656, A91.	5.1	6
22	Intra-pulse variability induced by plasmoid formation in pulsar magnetospheres. <i>Astronomy and Astrophysics</i> , 2022, 661, A130.	5.1	2
23	Gamma-ray pulsars: what have we learned from ab initio kinetic simulations?. <i>Rendiconti Lincei</i> , 2019, 30, 89-92.	2.2	1
24	Massive stars at (very) high energies: $\hat{\gamma}$ -ray binaries. <i>Proceedings of the International Astronomical Union</i> , 2010, 6, 581-586.	0.0	0
25	Particle acceleration and radiation in pulsars: New insights from kinetic simulations. <i>Nuclear and Particle Physics Proceedings</i> , 2018, 297-299, 85-90.	0.5	0
26	Pulsar-Wind Nebulae. <i>Space Sciences Series of ISSI</i> , 2016, , 399-447.	0.0	0
27	Electrodynamics of Pulsar Magnetospheres. <i>Space Sciences Series of ISSI</i> , 2016, , 111-136.	0.0	0