

# Ramon J Garcia Lopez

## List of Publications by Year in descending order

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Version: 2024-02-01

182  
papers

14,661  
citations

17440

63  
h-index

19749

117  
g-index

182  
all docs

182  
docs citations

182  
times ranked

10557  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | First Result from the Alpha Magnetic Spectrometer on the International Space Station: Precision Measurement of the Positron Fraction in Primary Cosmic Rays of 0.5–350 GeV. <i>Physical Review Letters</i> , 2013, 110, 141102.                             | 7.8  | 852       |
| 2  | Precision Measurement of the Proton Flux in Primary Cosmic Rays from Rigidity 1.8 TV to 1.8 TV with the Alpha Magnetic Spectrometer on the International Space Station. <i>Physical Review Letters</i> , 2015, 114, 171103.                                 | 7.8  | 655       |
| 3  | Multimessenger observations of a flaring blazar coincident with high-energy neutrino IceCube-170922A. <i>Science</i> , 2018, 361, .   | 12.6 | 654       |
| 4  | Design concepts for the Cherenkov Telescope Array CTA: an advanced facility for ground-based high-energy gamma-ray astronomy. <i>Experimental Astronomy</i> , 2011, 32, 193-316.  | 3.7  | 640       |
| 5  | High Statistics Measurement of the Positron Fraction in Primary Cosmic Rays of 0.5–500 GeV with the Alpha Magnetic Spectrometer on the International Space Station. <i>Physical Review Letters</i> , 2014, 113, 121101.                                     | 7.8  | 428       |
| 6  | Variable Very High Energy $\gamma$ -Ray Emission from Markarian 501. <i>Astrophysical Journal</i> , 2007, 669, 862-883.   | 4.5  | 426       |
| 7  | Electron and Positron Fluxes in Primary Cosmic Rays Measured with the Alpha Magnetic Spectrometer on the International Space Station. <i>Physical Review Letters</i> , 2014, 113, 121102.   | 7.8  | 397       |
| 8  | Precision Measurement of the Helium Flux in Primary Cosmic Rays of Rigidities 1.9 TV to 3 TV with the Alpha Magnetic Spectrometer on the International Space Station. <i>Physical Review Letters</i> , 2015, 115, 211101.                                   | 7.8  | 369       |
| 9  | Very-High-Energy Gamma Rays from a Distant Quasar: How Transparent Is the Universe?. <i>Science</i> , 2008, 320, 1752-1754.   | 12.6 | 355       |
| 10 | Antiproton Flux, Antiproton-to-Proton Flux Ratio, and Properties of Elementary Particle Fluxes in Primary Cosmic Rays Measured with the Alpha Magnetic Spectrometer on the International Space Station. <i>Physical Review Letters</i> , 2016, 117, 091103. | 7.8  | 295       |
| 11 | MAGIC DISCOVERY OF VERY HIGH ENERGY EMISSION FROM THE FSRQ PKS 1222+21. <i>Astrophysical Journal Letters</i> , 2011, 730, L8.   | 8.3  | 277       |
| 12 | FERMI LARGE AREA TELESCOPE OBSERVATIONS OF MARKARIAN 421: THE MISSING PIECE OF ITS SPECTRAL ENERGY DISTRIBUTION. <i>Astrophysical Journal</i> , 2011, 736, 131.   | 4.5  | 261       |
| 13 | Precision Measurement of the Positron Fraction in Primary Cosmic Rays of 0.5–500 GeV with the Alpha Magnetic Spectrometer on the International Space Station. <i>Physical Review Letters</i> , 2014, 113, 121101.   | 7.8  | 238       |
| 14 | Precision Measurement of the Boron to Carbon Flux Ratio in Cosmic Rays from 1.9 TV to 2.6 TV with the Alpha Magnetic Spectrometer on the International Space Station. <i>Physical Review Letters</i> , 2016, 117, 231102.                                   | 7.8  | 236       |
| 15 | VHE $\gamma$ -Ray Observation of the Crab Nebula and its Pulsar with the MAGIC Telescope. <i>Astrophysical Journal</i> , 2008, 674, 1037-1055.  | 4.5  | 233       |
| 16 | Limits to dark matter annihilation cross-section from a combined analysis of MAGIC and Fermi-LAT observations of dwarf satellite galaxies. <i>Journal of Cosmology and Astroparticle Physics</i> , 2016, 2016, 039-039.                                     | 5.4  | 216       |
| 17 | Observation of the Identical Rigidity Dependence of He, C, and O Cosmic Rays at High Rigidities by the Alpha Magnetic Spectrometer on the International Space Station. <i>Physical Review Letters</i> , 2017, 119, 251101.                                  | 7.8  | 204       |
| 18 | Oxygen Abundances in Unevolved Metal-poor Stars from Near-Ultraviolet OH Lines. <i>Astrophysical Journal</i> , 1998, 507, 805-817.  | 4.5  | 203       |

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|----|--|------|-----------|
| 19 | INSIGHTS INTO THE HIGH-ENERGY $\hat{\Gamma}^3$ -RAY EMISSION OF MARKARIAN 501 FROM EXTENSIVE MULTIFREQUENCY OBSERVATIONS IN THE <i>&lt;i&gt;FERMI&lt;/i&gt;</i> ERA. <i>Astrophysical Journal</i> , 2011, 727, 129.  | 4.5  | 185       |
| 20 | Very High Energy Gamma-Ray Radiation from the Stellar Mass Black Hole Binary Cygnus X-1. <i>Astrophysical Journal</i> , 2007, 665, L51-L54.  | 4.5  | 183       |
| 21 | Radio Imaging of the Very-High-Energy $\hat{\Gamma}^3$ -Ray Emission Region in the Central Engine of a Radio Galaxy. <i>Science</i> , 2009, 325, 444-448.  | 12.6 | 175       |
| 22 | Towards Understanding the Origin of Cosmic-Ray Positrons. <i>Physical Review Letters</i> , 2019, 122, 041102.  | 7.8  | 174       |
| 23 | Observation of New Properties of Secondary Cosmic Rays Lithium, Beryllium, and Boron by the Alpha Magnetic Spectrometer on the International Space Station. <i>Physical Review Letters</i> , 2018, 120, 021101.  | 7.8  | 172       |
| 24 | Signatures of Convection in the Spectrum of Procyon: Fundamental Parameters and Iron Abundance. <i>Astrophysical Journal</i> , 2002, 567, 544-565.   | 4.5  | 170       |
| 25 | Discovery of Very High Energy Gamma Radiation from IC 443 with the MAGIC Telescope. <i>Astrophysical Journal</i> , 2007, 664, L87-L90.   | 4.5  | 155       |
| 26 | Lithium and $H\hat{I}$ in stars and brown dwarfs of $\hat{f}\hat{a}\hat{\epsilon}\%$ Orionis. <i>Astronomy and Astrophysics</i> , 2002, 384, 937-953.  | 5.1  | 155       |
| 27 | Implementation of the Random Forest method for the Imaging Atmospheric Cherenkov Telescope MAGIC. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2008, 588, 424-432. | 1.6  | 146       |
| 28 | THE 2010 VERY HIGH ENERGY $\hat{\Gamma}^3$ -RAY FLARE AND 10 YEARS OF MULTI-WAVELENGTH OBSERVATIONS OF M 87. <i>Astrophysical Journal</i> , 2012, 746, 151.  | 4.5  | 145       |
| 29 | The Blazar TXS 0506+056 Associated with a High-energy Neutrino: Insights into Extragalactic Jets and Cosmic-Ray Acceleration. <i>Astrophysical Journal Letters</i> , 2018, 863, L10.   | 8.3  | 141       |
| 30 | Li depletion in F stars by internal gravity waves. <i>Astrophysical Journal</i> , 1991, 377, 268.  | 4.5  | 132       |
| 31 | Black hole lightning due to particle acceleration at subhorizon scales. <i>Science</i> , 2014, 346, 1080-1084.   | 12.6 | 128       |
| 32 | MAGIC GAMMA-RAY TELESCOPE OBSERVATION OF THE PERSEUS CLUSTER OF GALAXIES: IMPLICATIONS FOR COSMIC RAYS, DARK MATTER, AND NGC 1275. <i>Astrophysical Journal</i> , 2010, 710, 634-647.  | 4.5  | 110       |
| 33 | Towards Understanding the Origin of Cosmic-Ray Electrons. <i>Physical Review Letters</i> , 2019, 122, 101101.  | 7.8  | 109       |
| 34 | Optimized dark matter searches in deep observations of Segue 1 with MAGIC. <i>Journal of Cosmology and Astroparticle Physics</i> , 2014, 2014, 008-008.  | 5.4  | 105       |
| 35 | Discovery of Very High Energy $\hat{\Gamma}^3$ -Ray Emission from the Low-Frequency-peaked BL Lacertae Object BL Lacertae. <i>Astrophysical Journal</i> , 2007, 666, L17-L20.  | 4.5  | 102       |
| 36 | Observation of Fine Time Structures in the Cosmic Proton and Helium Fluxes with the Alpha Magnetic Spectrometer on the International Space Station. <i>Physical Review Letters</i> , 2018, 121, 051101.  | 7.8  | 98        |

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|----|--|-----|-----------|
| 37 | Discovery of Very High Energy $\hat{\gamma}$ -Rays from 1ES 1011+496 at $\langle z \rangle = 0.212$ . <i>Astrophysical Journal</i> , 2007, 667, L21-L24.   | 4.5 | 94        |
| 38 | Unprecedented study of the broadband emission of Mrk 421 during flaring activity in March 2010. <i>Astronomy and Astrophysics</i> , 2015, 578, A22.  | 5.1 | 92        |
| 39 | MULTIWAVELENGTH STUDY OF QUIESCENT STATES OF Mrk 421 WITH UNPRECEDENTED HARD X-RAY COVERAGE PROVIDED BY NuSTAR IN 2013. <i>Astrophysical Journal</i> , 2016, 819, 156.   | 4.5 | 90        |
| 40 | Observation of VHE $\hat{\gamma}$ -rays from Cassiopeia A with the MAGIC telescope. <i>Astronomy and Astrophysics</i> , 2007, 474, 937-940.  | 5.1 | 90        |
| 41 | THE JUNE 2008 FLARE OF MARKARIAN 421 FROM OPTICAL TO TeV ENERGIES. <i>Astrophysical Journal</i> , 2009, 691, L13-L19.  | 4.5 | 86        |
| 42 | Oxygen in the Very Early Galaxy. <i>Astrophysical Journal</i> , 2001, 551, 833-851.  | 4.5 | 85        |
| 43 | Galactic evolution of nitrogen. <i>Astronomy and Astrophysics</i> , 2004, 421, 649-658.  | 5.1 | 84        |
| 44 | Very High Energy Gamma-Ray Observations of Strong Flaring Activity in M87 in 2008 February. <i>Astrophysical Journal</i> , 2008, 685, L23-L26.   | 4.5 | 84        |
| 45 | The 2009 multiwavelength campaign on Mrk 421: Variability and correlation studies. <i>Astronomy and Astrophysics</i> , 2015, 576, A126.  | 5.1 | 84        |
| 46 | PERIODIC VERY HIGH ENERGY $\hat{\gamma}$ -RAY EMISSION FROM LS I +61 $\hat{\circ}$ 303 OBSERVED WITH THE MAGIC TELESCOPE. <i>Astrophysical Journal</i> , 2009, 693, 303-310.   | 4.5 | 81        |
| 47 | A Consistency Test of Spectroscopic Gravities for Late $\hat{\epsilon}$ Type Stars. <i>Astrophysical Journal</i> , 1999, 527, 879-892.   | 4.5 | 79        |
| 48 | DETECTION OF VERY HIGH ENERGY $\hat{\gamma}$ -RAY EMISSION FROM THE PERSEUS CLUSTER HEAD-TAIL GALAXY IC 310 BY THE MAGIC TELESCOPES. <i>Astrophysical Journal Letters</i> , 2010, 723, L207-L212.                              | 8.3 | 78        |
| 49 | VERY HIGH ENERGY $\langle z \rangle$ -RAY FROM THE UNIVERSE $\hat{\epsilon}$ S MIDDLE AGE: DETECTION OF THE $\langle z \rangle = 0.940$ BLAZAR PKS 1441+25 WITH MAGIC. <i>Astrophysical Journal Letters</i> , 2015, 815, L23.  | 8.3 | 78        |
| 50 | Detection of very-high energy $\langle z \rangle$ -ray emission from NGC 1275 by the MAGIC telescopes. <i>Astronomy and Astrophysics</i> , 2012, 539, L2.  | 5.1 | 77        |
| 51 | Unfolding of differential energy spectra in the MAGIC experiment. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2007, 583, 494-506. | 1.6 | 74        |
| 52 | MAGIC Upper Limits on the Very High Energy Emission from Gamma $\hat{\epsilon}$ Ray Bursts. <i>Astrophysical Journal</i> , 2007, 667, 358-366.   | 4.5 | 72        |
| 53 | Simultaneous Multiwavelength Observations of the Blazar 1ES 1959+650 at a Low TeV Flux. <i>Astrophysical Journal</i> , 2008, 679, 1029-1039.   | 4.5 | 72        |
| 54 | DISCOVERY OF VERY HIGH ENERGY $\hat{\gamma}$ -RAYS FROM THE BLAZAR S5 0716+714. <i>Astrophysical Journal</i> , 2009, 704, L129-L133.   | 4.5 | 72        |

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|----|--|-----|-----------|
| 55 | SPECTRAL ENERGY DISTRIBUTION OF MARKARIAN 501: QUIESCENT STATE VERSUS EXTREME OUTBURST. <i>Astrophysical Journal</i> , 2011, 729, 2.   | 4.5 | 70        |
| 56 | MAGIC gamma-ray and multi-frequency observations of flat spectrum radio quasar PKS 1510+089 in early 2012. <i>Astronomy and Astrophysics</i> , 2014, 569, A46.   | 5.1 | 70        |
| 57 | The First L-Type Brown Dwarf in the Pleiades. <i>Astrophysical Journal</i> , 1998, 507, L41-L44.   | 4.5 | 69        |
| 58 | MAGIC Observations and multiwavelength properties of the quasar 3C279 in 2007 and 2009. <i>Astronomy and Astrophysics</i> , 2011, 530, A4.   | 5.1 | 68        |
| 59 | Precision Measurement of Cosmic-Ray Nitrogen and its Primary and Secondary Components with the Alpha Magnetic Spectrometer on the International Space Station. <i>Physical Review Letters</i> , 2018, 121, 051103. | 7.8 | 68        |
| 60 | Morphological and spectral properties of the W51 region measured with the MAGIC telescopes. <i>Astronomy and Astrophysics</i> , 2012, 541, A13.  | 5.1 | 67        |
| 61 | Measurement of the extragalactic background light using MAGIC and Fermi-LAT gamma-ray observations of blazars up to $z=1$ . <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 486, 4233-4251.       | 4.4 | 67        |
| 62 | MAGIC Observations of the Unidentified $\gamma$ -Ray Source TeV J2032+4130. <i>Astrophysical Journal</i> , 2008, 675, L25-L28.   | 4.5 | 64        |
| 63 | A cut-off in the TeV gamma-ray spectrum of the SNR Cassiopeia A. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 472, 2956-2962.  | 4.4 | 64        |
| 64 | Constraining cosmic rays and magnetic fields in the Perseus galaxy cluster with TeV observations by the MAGIC telescopes. <i>Astronomy and Astrophysics</i> , 2012, 541, A99.                                      | 5.1 | 64        |
| 65 | Observation of Complex Time Structures in the Cosmic-Ray Electron and Positron Fluxes with the Alpha Magnetic Spectrometer on the International Space Station. <i>Physical Review Letters</i> , 2018, 121, 051102. | 7.8 | 62        |
| 66 | Upper Limit for $\gamma$ -Ray Emission above 140 GeV from the Dwarf Spheroidal Galaxy Draco. <i>Astrophysical Journal</i> , 2008, 679, 428-431.  | 4.5 | 61        |
| 67 | Detection of very high energy gamma-ray emission from the gravitationally lensed blazar QSO B0218+357 with the MAGIC telescopes. <i>Astronomy and Astrophysics</i> , 2016, 595, A98.                               | 5.1 | 56        |
| 68 | SIMULTANEOUS MULTIWAVELENGTH OBSERVATIONS OF MARKARIAN 421 DURING OUTBURST. <i>Astrophysical Journal</i> , 2009, 703, 169-178.   | 4.5 | 55        |
| 69 | Mrk 421 active state in 2008: the MAGIC view, simultaneous multi-wavelength observations and SSC model constrained. <i>Astronomy and Astrophysics</i> , 2012, 542, A100.   | 5.1 | 55        |
| 70 | Observation of Very High Energy $\gamma$ -Rays from the AGN 1ES 2344+514 in a Low Emission State with the MAGIC Telescope. <i>Astrophysical Journal</i> , 2007, 662, 892-899.                                      | 4.5 | 54        |
| 71 | DISCOVERY OF A VERY HIGH ENERGY GAMMA-RAY SIGNAL FROM THE 3C 66A/B REGION. <i>Astrophysical Journal</i> , 2009, 692, L29-L33.  | 4.5 | 52        |
| 72 | Multiwavelength (Radio, X-ray, and $\gamma$ -Ray) Observations of the $\gamma$ -Ray Binary LS I +61 303. <i>Astrophysical Journal</i> , 2008, 684, 1351-1358.  | 4.5 | 51        |

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|----|--|-----|-----------|
| 73 | Search for an extended VHE $\gamma$ -ray emission from Mrk 421 and Mrk 501 with the MAGIC Telescope. <i>Astronomy and Astrophysics</i> , 2010, 524, A77.   | 5.1 | 50        |
| 74 | Discovery of VHE $\gamma$ -rays from the blazar 1ES 1215+303 with the MAGIC telescopes and simultaneous multi-wavelength observations. <i>Astronomy and Astrophysics</i> , 2012, 544, A142.                      | 5.1 | 50        |
| 75 | FIRST NuSTAR OBSERVATIONS OF MRK 501 WITHIN A RADIO TO TeV MULTI-INSTRUMENT CAMPAIGN. <i>Astrophysical Journal</i> , 2015, 812, 65.  | 4.5 | 49        |
| 76 | Multiwavelength observations of Mrk 501 in 2008. <i>Astronomy and Astrophysics</i> , 2015, 573, A50.   | 5.1 | 49        |
| 77 | Multiband variability studies and novel broadband SED modeling of Mrk 501 in 2009. <i>Astronomy and Astrophysics</i> , 2017, 603, A31.   | 5.1 | 49        |
| 78 | MAGIC long-term study of the distant TeV blazar PKS 1424+240 in a multiwavelength context. <i>Astronomy and Astrophysics</i> , 2014, 567, A135.  | 5.1 | 48        |
| 79 | CORRELATED X-RAY AND VERY HIGH ENERGY EMISSION IN THE GAMMA-RAY BINARY LS I +61 303. <i>Astrophysical Journal</i> , 2009, 706, L27-L32.  | 4.5 | 47        |
| 80 | Extreme HBL behavior of Markarian 501 during 2012. <i>Astronomy and Astrophysics</i> , 2018, 620, A181.  | 5.1 | 47        |
| 81 | Nitrogen abundances in planet-harboring stars. <i>Astronomy and Astrophysics</i> , 2004, 418, 703-715.   | 5.1 | 47        |
| 82 | Lithium abundances and metallicities in stars near the main-sequence turnoff and a giant in M67. <i>Publications of the Astronomical Society of the Pacific</i> , 1988, 100, 1489.                               | 3.1 | 47        |
| 83 | MAGIC observations of the February 2014 flare of 1ES 1011+496 and ensuing constraint of the EBL density. <i>Astronomy and Astrophysics</i> , 2016, 590, A24.   | 5.1 | 46        |
| 84 | Rapid and multiband variability of the TeV bright active nucleus of the galaxy IC 310. <i>Astronomy and Astrophysics</i> , 2014, 563, A91.   | 5.1 | 45        |
| 85 | SIMULTANEOUS MULTIWAVELENGTH OBSERVATION OF MRK 501 IN A LOW STATE IN 2006. <i>Astrophysical Journal</i> , 2009, 705, 1624-1631.   | 4.5 | 44        |
| 86 | Are beryllium abundances anomalous in stars with giant planets?. <i>Astronomy and Astrophysics</i> , 2004, 427, 1085-1096.   | 5.1 | 43        |
| 87 | Fe $\alpha$ line shifts in the optical spectrum of the Sun. <i>Astronomy and Astrophysics</i> , 1998, 129, 41-44.  | 2.1 | 43        |
| 88 | FADC signal reconstruction for the MAGIC telescope. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2008, 594, 407-419. | 1.6 | 42        |
| 89 | Contemporaneous observations of the radio galaxy NGC 1275 from radio to very high energy $\gamma$ -rays. <i>Astronomy and Astrophysics</i> , 2014, 564, A5.  | 5.1 | 42        |
| 90 | PG 1553+113: FIVE YEARS OF OBSERVATIONS WITH MAGIC. <i>Astrophysical Journal</i> , 2012, 748, 46.  | 4.5 | 40        |

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|-----|---|-----|-----------|
| 91  | Deep observation of the NGC 1275 region with MAGIC: search of diffuse $\gamma$ -ray emission from cosmic rays in the Perseus cluster. <i>Astronomy and Astrophysics</i> , 2016, 589, A33. | 5.1 | 40        |
| 92  | Beryllium abundances in stars hosting giant planets. <i>Astronomy and Astrophysics</i> , 2002, 386, 1028-1038.  | 5.1 | 40        |
| 93  | A catalogue of accurate wavelengths in the optical spectrum of the Sun. <i>Astronomy and Astrophysics</i> , 1998, 131, 431-433.   | 2.1 | 40        |
| 94  | New Hard-TeV Extreme Blazars Detected with the MAGIC Telescopes*. <i>Astrophysical Journal, Supplement Series</i> , 2020, 247, 16.  | 7.7 | 39        |
| 95  | Periastron Observations of TeV Gamma-Ray Emission from a Binary System with a 50-year Period. <i>Astrophysical Journal Letters</i> , 2018, 867, L19.                                      | 8.3 | 38        |
| 96  | MAGIC Observations of the Nearby Short Gamma-Ray Burst GRB 160821B <sup>*</sup> . <i>Astrophysical Journal</i> , 2021, 908, 90.   | 4.5 | 38        |
| 97  | Long-term multi-wavelength variability and correlation study of Markarian 421 from 2007 to 2009. <i>Astronomy and Astrophysics</i> , 2016, 593, A91.                                      | 5.1 | 36        |
| 98  | Monte Carlo studies for the optimisation of the Cherenkov Telescope Array layout. <i>Astroparticle Physics</i> , 2019, 111, 35-53.  | 4.3 | 35        |
| 99  | The INT Search for Metal-Poor Stars: Spectroscopic Observations and Classification via Artificial Neural Networks. <i>Astronomical Journal</i> , 2000, 120, 1516-1531.                    | 4.7 | 35        |
| 100 | MAGIC TeV gamma-ray observations of Markarian 421 during multiwavelength campaigns in 2006. <i>Astronomy and Astrophysics</i> , 2010, 519, A32.   | 5.1 | 33        |
| 101 | MAGIC observations and multifrequency properties of the flat spectrum radio quasar 3C 279 in 2011. <i>Astronomy and Astrophysics</i> , 2014, 567, A41.                                    | 5.1 | 33        |
| 102 | MULTIFREQUENCY STUDIES OF THE PECULIAR QUASAR 4C+21.35 DURING THE 2010 FLARING ACTIVITY. <i>Astrophysical Journal</i> , 2014, 786, 157.   | 4.5 | 33        |
| 103 | Multiwavelength observations of a VHE gamma-ray flare from PKS 1510-089 in 2015. <i>Astronomy and Astrophysics</i> , 2017, 603, A29.  | 5.1 | 33        |
| 104 | Multi-wavelength characterization of the blazar S5 0716+714 during an unprecedented outburst phase. <i>Astronomy and Astrophysics</i> , 2018, 619, A45.                                   | 5.1 | 32        |
| 105 | OBSERVATIONS OF THE BLAZAR 3C 66A WITH THE MAGIC TELESCOPES IN STEREOSCOPIC MODE. <i>Astrophysical Journal</i> , 2011, 726, 58.   | 4.5 | 31        |
| 106 | The EChO science case. <i>Experimental Astronomy</i> , 2015, 40, 329-391.   | 3.7 | 31        |
| 107 | Monitoring of the radio galaxy M 87 during a low-emission state from 2012 to 2015 with MAGIC. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 492, 5354-5365.            | 4.4 | 31        |
| 108 | The effect of stellar activity on the Li I 6708, Na I 5896 and K I 7699 Å...lines. <i>Astronomy and Astrophysics</i> , 2001, 371, 652-666.  | 5.1 | 30        |

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|-----|--|------|-----------|
| 109 | Discovery of VHE $\gamma$ -ray emission from the BL Lacertae object B3 2247+381 with the MAGIC telescopes. <i>Astronomy and Astrophysics</i> , 2012, 539, A118.  | 5.1  | 29        |
| 110 | A SEARCH FOR SPECTRAL HYSTERESIS AND ENERGY-DEPENDENT TIME LAGS FROM X-RAY AND TeV GAMMA-RAY OBSERVATIONS OF Mrk 421. <i>Astrophysical Journal</i> , 2017, 834, 2.   | 4.5  | 29        |
| 111 | Study of the variable broadband emission of Markarian 501 during the most extreme <i>Swift</i> X-ray activity. <i>Astronomy and Astrophysics</i> , 2020, 637, A86.   | 5.1  | 28        |
| 112 | Oxygen abundances in F-type stars of the Hyades and the Ursa Major group. <i>Astrophysical Journal</i> , 1993, 412, 173.   | 4.5  | 28        |
| 113 | Constraints on Gamma-Ray and Neutrino Emission from NGC 1068 with the MAGIC Telescopes. <i>Astrophysical Journal</i> , 2019, 883, 135.   | 4.5  | 27        |
| 114 | Investigating the peculiar emission from the new VHE gamma-ray source H1722+119. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 459, 3271-3281.  | 4.4  | 26        |
| 115 | Detection of persistent VHE gamma-ray emission from PKS 1510+089 by the MAGIC telescopes during low states between 2012 and 2017. <i>Astronomy and Astrophysics</i> , 2018, 619, A159.                                   | 5.1  | 26        |
| 116 | Constraining dark matter lifetime with a deep gamma-ray survey of the Perseus galaxy cluster with MAGIC. <i>Physics of the Dark Universe</i> , 2018, 22, 38-47.  | 4.9  | 26        |
| 117 | A fast, very-high-energy $\gamma$ -ray flare from BL Lacertae during a period of multi-wavelength activity in June 2015. <i>Astronomy and Astrophysics</i> , 2019, 623, A175.  | 5.1  | 26        |
| 118 | Beryllium anomalies in solar-type field stars. <i>Astronomy and Astrophysics</i> , 2004, 425, 1013-1027.   | 5.1  | 25        |
| 119 | MAGIC observations of the giant radio galaxy M87 in a low-emission state between 2005 and 2007. <i>Astronomy and Astrophysics</i> , 2012, 544, A96.  | 5.1  | 25        |
| 120 | The simultaneous low state spectral energy distribution of 1ES 2344+514 from radio to very high energies. <i>Astronomy and Astrophysics</i> , 2013, 556, A67.  | 5.1  | 25        |
| 121 | MAGIC detection of short-term variability of the high-peaked BL Lac object 1ES 0806+524. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 451, 739-750.  | 4.4  | 25        |
| 122 | Gamma-ray flaring activity of NGC1275 in 2016–2017 measured by MAGIC. <i>Astronomy and Astrophysics</i> , 2018, 617, A91.  | 5.1  | 25        |
| 123 | Unraveling the Complex Behavior of Mrk 421 with Simultaneous X-Ray and VHE Observations during an Extreme Flaring Activity in 2013 April <sup>*</sup> . <i>Astrophysical Journal, Supplement Series</i> , 2020, 248, 29. | 7.7  | 25        |
| 124 | Proton acceleration in thermonuclear nova explosions revealed by gamma rays. <i>Nature Astronomy</i> , 2022, 6, 689-697.   | 10.1 | 25        |
| 125 | First broadband characterization and redshift determination of the VHE blazar MAGIC J2001+439. <i>Astronomy and Astrophysics</i> , 2014, 572, A121.  | 5.1  | 24        |
| 126 | Very high-energy gamma-ray follow-up program using neutrino triggers from IceCube. <i>Journal of Instrumentation</i> , 2016, 11, P11009-P11009.  | 1.2  | 24        |



| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 127 | Indirect dark matter searches in the dwarf satellite galaxy Ursa Major II with the MAGIC telescopes. <i>Journal of Cosmology and Astroparticle Physics</i> , 2018, 2018, 009-009.                               | 5.4 | 24        |
| 128 | GAMMA-RAY EXCESS FROM A STACKED SAMPLE OF HIGH- AND INTERMEDIATE-FREQUENCY PEAKED BLAZARS OBSERVED WITH THE MAGIC TELESCOPE. <i>Astrophysical Journal</i> , 2011, 729, 115.                                     | 4.5 | 23        |
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