

# Vahe' Petrosian

## List of Publications by Year in descending order

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44  
papers

3,865  
citations

201674

27  
h-index

233421

45  
g-index

45  
all docs

45  
docs citations

45  
times ranked

4374  
citing authors

#	ARTICLE	IF	CITATIONS
1	<i>Fermi</i> Large Area Telescope Fourth Source Catalog. Astrophysical Journal, Supplement Series, 2020, 247, 33.	7.7	817
2	Fermi Observations of High-Energy Gamma-Ray Emission from GRB 080916C. Science, 2009, 323, 1688-1693.	12.6	523
3	<i>FERMI</i> OBSERVATIONS OF GRB 090902B: A DISTINCT SPECTRAL COMPONENT IN THE PROMPT AND DELAYED EMISSION. Astrophysical Journal, 2009, 706, L138-L144.	4.5	364
4	Incremental Fermi Large Area Telescope Fourth Source Catalog. Astrophysical Journal, Supplement Series, 2022, 260, 53.	7.7	186
5	Recent Advances in Understanding Particle Acceleration Processes in Solar Flares. Space Science Reviews, 2011, 159, 357-420.	8.1	184
6	A Decade of Gamma-Ray Bursts Observed by Fermi-LAT: The Second GRB Catalog. Astrophysical Journal, 2019, 878, 52.	4.5	152
7	MULTIWAVELENGTH EVIDENCE FOR QUASI-PERIODIC MODULATION IN THE GAMMA-RAY BLAZAR PG 1553+113. Astrophysical Journal Letters, 2015, 813, L41.	8.3	144
8	Resolving the Extragalactic $\gamma$ -Ray Background above 50 GeV with the Fermi Large Area Telescope. Physical Review Letters, 2016, 116, 151105.	7.8	130
9	HIGH-ENERGY GAMMA-RAY EMISSION FROM SOLAR FLARES: SLIMMRY OF <i>FERMI</i> LARGE AREA TELESCOPE DETECTIONS AND ANALYSIS OF TWO M-CLASS FLARES. Astrophysical Journal, 2014, 787, 15.	4.5	100
10	IMPULSIVE AND LONG DURATION HIGH-ENERGY GAMMA-RAY EMISSION FROM THE VERY BRIGHT 2012 MARCH 7 SOLAR FLARES. Astrophysical Journal, 2014, 789, 20.	4.5	96
11	DETERMINATION OF THE INTRINSIC LUMINOSITY TIME CORRELATION IN THE X-RAY AFTERGLOWS OF GAMMA-RAY BURSTS. Astrophysical Journal, 2013, 774, 157.	4.5	90
12	Search for Extended Sources in the Galactic Plane Using Six Years of Fermi-Large Area Telescope Pass 8 Data above 10 GeV. Astrophysical Journal, 2017, 843, 139.	4.5	70
13	DATA-DRIVEN RADIATIVE HYDRODYNAMIC MODELING OF THE 2014 MARCH 29 X1.0 SOLAR FLARE. Astrophysical Journal, 2016, 827, 38.	4.5	66
14	Luminosityâ€time and luminosityâ€luminosity correlations for GRB prompt and afterglow plateau emissions. Monthly Notices of the Royal Astronomical Society, 2015, 451, 3898-3908.	4.4	63
15	The Second Catalog of Flaring Gamma-Ray Sources from the Fermi All-sky Variability Analysis. Astrophysical Journal, 2017, 846, 34.	4.5	63
16	<i>FERMI</i> DETECTION OF $\hat{\gamma}$ -RAY EMISSION FROM THE M2 SOFT X-RAY FLARE ON 2010 JUNE 12. Astrophysical Journal, 2012, 745, 144.	4.5	60
17	COSMOLOGICAL EVOLUTION OF LONG GAMMA-RAY BURSTS AND THE STAR FORMATION RATE. Astrophysical Journal, 2015, 806, 44.	4.5	58
18	Particle Acceleration Mechanisms. Space Science Reviews, 2008, 134, 207-227.	8.1	54

#	ARTICLE	IF	CITATIONS
19	ON THE RADIO AND OPTICAL LUMINOSITY EVOLUTION OF QUASARS. <i>Astrophysical Journal</i> , 2011, 743, 104.	4.5	53
20	Fermi-LAT Observations of High-energy Behind-the-limb Solar Flares. <i>Astrophysical Journal</i> , 2017, 835, 219.	4.5	53
21	FIRST DETECTION OF $>100$ MeV GAMMA-RAYS ASSOCIATED WITH A BEHIND-THE-LIMB SOLAR FLARE. <i>Astrophysical Journal Letters</i> , 2015, 805, L15.	8.3	52
22	FLUX AND PHOTON SPECTRAL INDEX DISTRIBUTIONS OF <i>FERMI</i> -LAT BLAZARS AND CONTRIBUTION TO THE EXTRAGALACTIC GAMMA-RAY BACKGROUND. <i>Astrophysical Journal</i> , 2012, 753, 45.	4.5	47
23	Equilibration Processes in the Warm-Hot Intergalactic Medium. <i>Space Science Reviews</i> , 2008, 134, 141-153.	8.1	43
24	THE RADIO AND OPTICAL LUMINOSITY EVOLUTION OF QUASARS. II. THE SDSS SAMPLE. <i>Astrophysical Journal</i> , 2013, 764, 43.	4.5	40
25	Probing the Puzzle of Behind-the-limb $\hat{3}$ -Ray Flares: Data-driven Simulations of Magnetic Connectivity and CME-driven Shock Evolution. <i>Astrophysical Journal</i> , 2018, 867, 122.	4.5	33
26	Fermi-LAT Observations of LIGO/Virgo Event GW170817. <i>Astrophysical Journal</i> , 2018, 861, 85.	4.5	32
27	First Fermi-LAT Solar Flare Catalog. <i>Astrophysical Journal, Supplement Series</i> , 2021, 252, 13.	7.7	32
28	Hard X-Ray Emission from Partially Occulted Solar Flares: RHESSI Observations in Two Solar Cycles. <i>Astrophysical Journal</i> , 2017, 835, 124.	4.5	28
29	COMBINED MODELING OF ACCELERATION, TRANSPORT, AND HYDRODYNAMIC RESPONSE IN SOLAR FLARES. II. INCLUSION OF RADIATIVE TRANSFER WITH RADYN. <i>Astrophysical Journal</i> , 2015, 813, 133.	4.5	27
30	PARTICLE ACCELERATION IN SOLAR FLARES AND ASSOCIATED CME SHOCKS. <i>Astrophysical Journal</i> , 2016, 830, 28.	4.5	27
31	Cosmological Evolution of the Formation Rate of Short Gamma-Ray Bursts with and without Extended Emission. <i>Astrophysical Journal Letters</i> , 2021, 914, L40.	8.3	26
32	On the Existence of the Plateau Emission in High-energy Gamma-Ray Burst Light Curves Observed by Fermi-LAT. <i>Astrophysical Journal, Supplement Series</i> , 2021, 255, 13.	7.7	25
33	VERITAS and Fermi-LAT Observations of TeV Gamma-Ray Sources Discovered by HAWC in the 2HWC Catalog. <i>Astrophysical Journal</i> , 2018, 866, 24.	4.5	21
34	Measurement of the high-energy gamma-ray emission from the Moon with the Fermi Large Area Telescope. <i>Physical Review D</i> , 2016, 93, 082001.	4.7	20
35	GAMMA-RAY LUMINOSITY AND PHOTON INDEX EVOLUTION OF FSRQ BLAZARS AND CONTRIBUTION TO THE GAMMA-RAY BACKGROUND. <i>Astrophysical Journal</i> , 2014, 786, 109.	4.5	19
36	Fermi Observations of the LIGO Event GW170104. <i>Astrophysical Journal Letters</i> , 2017, 846, L5.	8.3	15

#	ARTICLE	IF	CITATIONS
37	The Relation between Escape and Scattering Times of Energetic Particles in a Turbulent Magnetized Plasma: Application to Solar Flares. <i>Astrophysical Journal Letters</i> , 2018, 868, L28.	8.3	12
38	MAGIC and <i>Fermi</i> -LAT gamma-ray results on unassociated HAWC sources. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 485, 356-366.	4.4	7
39	Catalog of Long-term Transient Sources in the First 10 yr of <i>Fermi</i> -LAT Data. <i>Astrophysical Journal, Supplement Series</i> , 2021, 256, 13.	7.7	7
40	ACCELERATION OF THERMAL PROTONS BY GENERIC PHENOMENOLOGICAL MECHANISMS. <i>Astrophysical Journal</i> , 2015, 813, 5.	4.5	6
41	Implications of a Loop-top Origin for Microwave, Hard X-Ray, and Low-energy Gamma-Ray Emission from Behind-the-limb Flares. <i>Astrophysical Journal</i> , 2018, 865, 99.	4.5	5
42	Cosmological Evolution of <i>Fermi</i> Large Area Telescope Gamma-Ray Blazars Using Novel Nonparametric Methods. <i>Astrophysical Journal</i> , 2021, 913, 120.	4.5	5
43	Luminosityâ€“Luminosity Correlations in Flux-limited Multiwavelength Data. <i>Astrophysical Journal</i> , 2019, 877, 63.	4.5	4
44	The X-Ray Luminosity Function Evolution of Quasars and the Correlation between the X-Ray and Ultraviolet Luminosities. <i>Astrophysical Journal</i> , 2022, 932, 111.	4.5	4