Indrek Vurm

List of Publications by Year
in descending order

28	1,314	361413	501196
papers	citations	20 h-index	28 g-index

28	28	28	1741
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	An Embedded X-Ray Source Shines through the Aspherical ATÂ2018cow: Revealing the Inner Workings of the Most Luminous Fast-evolving Optical Transients. Astrophysical Journal, 2019, 872, 18.	4.5	160
2	GAMMA-RAY BURSTS FROM MAGNETIZED COLLISIONALLY HEATED JETS. Astrophysical Journal, 2011, 738, 77.	4.5	112
3	Ionization break-out from millisecond pulsar wind nebulae: an X-ray probe of the origin of superluminous supernovae. Monthly Notices of the Royal Astronomical Society, 2014, 437, 703-720.	4.4	112
4	Hot accretion flow in black hole binaries: a link connecting X-rays to the infrared. Monthly Notices of the Royal Astronomical Society, 2013, 430, 3196-3212.	4.4	82
5	ON THE ORIGIN OF SPECTRAL STATES IN ACCRETING BLACK HOLES. Astrophysical Journal, 2009, 690, L97-L100.	4.5	73
6	ON THERMALIZATION IN GAMMA-RAY BURST JETS AND THE PEAK ENERGIES OF PHOTOSPHERIC SPECTRA. Astrophysical Journal, 2013, 764, 143.	4.5	66
7	Shocks in nova outflows â€“ I. Thermal emission. Monthly Notices of the Royal Astronomical Society, 2014, 442, 713-731.	4.4	64
8	A SYNCHROTRON SELF-COMPTON-DISK REPROCESSING MODEL FOR OPTICAL/X-RAY CORRELATION IN BLACK HOLE X-RAY BINARIES. Astrophysical Journal Letters, 2011, 737, L17.	8.3	62
9	A nova outburst powered by shocks. Nature Astronomy, 2017, 1, 697-702.	10.1	61
10	Direct evidence for shock-powered optical emission in a nova. Nature Astronomy, 2020, 4, 776-780.	10.1	58
11	TIME-DEPENDENT MODELING OF RADIATIVE PROCESSES IN HOT MAGNETIZED PLASMAS. Astrophysical Journal, 2009, 698, 293-316.	4.5	57
12	RADIATIVE TRANSFER MODELS FOR GAMMA-RAY BURSTS. Astrophysical Journal, 2016, 831, 175.	4.5	51
13	A self-consistent hybrid Comptonization model for broad-band spectra of accreting supermassive black holes. Monthly Notices of the Royal Astronomical Society, 2011, 414, 3330-3343.	4.4	49
14	ON THE ORIGIN OF GeV EMISSION IN GAMMA-RAY BURSTS. Astrophysical Journal, 2014, 788, 36.	4.5	49
15	High-energy Neutrinos and Gamma Rays from Nonrelativistic Shock-powered Transients. Astrophysical Journal, 2020, 904, 4.	4.5	29
16	High-energy Emission from Nonrelativistic Radiative Shocks: Application to Gamma-Ray Novae. Astrophysical Journal, 2018, 852, 62.	4.5	27
17	Gamma-Ray Thermalization and Leakage from Millisecond Magnetar Nebulae: Toward a Self-consistent Model for Superluminous Supernovae. Astrophysical Journal, 2021, 917, 77.	4.5	27
18	Polarization of Gamma-Ray Bursts in the Dissipative Photosphere Model. Astrophysical Journal, 2018, 856, 145.	4.5	26

#	Article	IF	Citations
19	NuSTAR Detection of X-Rays Concurrent with Gamma-Rays in the Nova V5855 Sgr. Astrophysical Journal, 2019, 872, 86.	4.5	22
20	PAIR-DOMINATED GeV-OPTICAL FLASH IN GRB 130427A. Astrophysical Journal Letters, 2014, 789, L37.	8.3	20
21	Shocks in nova outflows â€“ II. Synchrotron radio emission. Monthly Notices of the Royal Astronomical Society, 2016, 463, 394-412.	4.4	20
22	Radiation-mediated Shocks in Gamma-Ray Bursts: Pair Creation. Astrophysical Journal, 2018, 858, 7.	4.5	20
23	MEASURING AMBIENT DENSITIES AND LORENTZ FACTORS OF GAMMA-RAY BURSTS FROM GeV AND OPTICAL OBSERVATIONS. Astrophysical Journal, 2015, 813, 63.	4.5	15
24	X-ray spectroscopy of the Î³-ray brightest nova V906â€‰Car (ASASSN-18fv). Monthly Notices of the Royal Astronomical Society, 2020, 497, 2569-2585.	4.4	15
25	On the Prospects of Gamma-Ray Burst Detection in the TeV Band. Astrophysical Journal, 2017, 846, 152.	4.5	14
26	THEORY OF COMPTON SCATTERING BY ANISOTROPIC ELECTRONS. Astrophysical Journal, Supplement Series, 2010, 189, 286-308.	7.7	9
27	A Strong Limit on the Very-high-energy Emission from GRB 150323A. Astrophysical Journal, 2018, 857, 33.	4.5	8
28	ELECTRON THERMALIZATION AND PHOTON EMISSION FROM MAGNETIZED COMPACT SOURCES. International Journal of Modern Physics D, 2008, 17, 1629-1634.	2.1	6