Nir Shaviv

List of Publications by Year in descending order

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Νιρ ςμανιν

#	Article	IF	CITATIONS
1	An outburst from a massive star 40 days before a supernova explosion. Nature, 2013, 494, 65-67.	27.8	183
2	The spiral structure of the Milky Way, cosmic rays, and ice age epochs on Earth. New Astronomy, 2003, 8, 39-77.	1.8	180
3	A Porosityâ€Length Formalism for Photonâ€Tiring–limited Mass Loss from Stars above the Eddington Limit. Astrophysical Journal, 2004, 616, 525-541.	4.5	176
4	PRECURSORS PRIOR TO TYPE IIn SUPERNOVA EXPLOSIONS ARE COMMON: PRECURSOR RATES, PROPERTIES, AND CORRELATIONS. Astrophysical Journal, 2014, 789, 104.	4.5	175
5	Energetic eruptions leading to a peculiar hydrogen-rich explosion of a massive star. Nature, 2017, 551, 210-213.	27.8	112
6	Inhomogeneity in Cosmic Ray Sources as the Origin of the Electron Spectrum and the PAMELA Anomaly. Physical Review Letters, 2009, 103, 111302.	7.8	91
7	Increased ionization supports growth of aerosols into cloud condensation nuclei. Nature Communications, 2017, 8, 2199.	12.8	77
8	The theory of steady-state super-Eddington winds and its application to novae. Monthly Notices of the Royal Astronomical Society, 2001, 326, 126-146.	4.4	72
9	Bright, Months-long Stellar Outbursts Announce the Explosion of Interaction-powered Supernovae. Astrophysical Journal, 2021, 907, 99.	4.5	59
10	Polarization evolution in strong magnetic fields. Monthly Notices of the Royal Astronomical Society, 2000, 311, 555-564.	4.4	58
11	The high-energy polarization-limiting radius of neutron star magnetospheres I. Slowly rotating neutron stars. Monthly Notices of the Royal Astronomical Society, 2003, 342, 134-144.	4.4	53
12	The response of clouds and aerosols to cosmic ray decreases. Journal of Geophysical Research: Space Physics, 2016, 121, 8152-8181.	2.4	52
13	The Nature of the Radiative Hydrodynamic Instabilities in Radiatively Supported Thomson Atmospheres. Astrophysical Journal, 2001, 549, 1093-1110.	4.5	51
14	Life Extinctions by Cosmic Ray Jets. Physical Review Letters, 1998, 80, 5813-5816.	7.8	49
15	Is There a Dynamic Effect in the Screening of Nuclear Reactions in Stellar Plasmas?. Astrophysical Journal, 2000, 529, 1054-1069.	4.5	45
16	Origin of the High Energy Extragalactic Diffuse Gamma Ray Background. Physical Review Letters, 1995, 75, 3052-3055.	7.8	44
17	PTF13efv—AN OUTBURST 500 DAYS PRIOR TO THE SNHUNT 275 EXPLOSION AND ITS RADIATIVE EFFICIENCY. Astrophysical Journal, 2016, 824, 6.	4.5	39
18	Magnetic lensing near ultramagnetized neutron stars. Monthly Notices of the Royal Astronomical Society, 1999, 306, 333-347.	4.4	36

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19	Numerical simulations of continuum-driven winds of super-Eddington stars. Monthly Notices of the Royal Astronomical Society, 2008, 389, 1353-1359.	4.4	34
20	The fate of a WD accreting H-rich material at high accretion rates. Monthly Notices of the Royal Astronomical Society, 2013, 433, 2884-2892.	4.4	34
21	The Electrostatic Screening of Thermonuclear Reactions in Astrophysical Plasmas. I Astrophysical Journal, 1996, 468, 433.	4.5	33
22	The Electrostatic Screening of Nuclear Reactions in the Sun. Astrophysical Journal, 2001, 558, 925-942.	4.5	32
23	The maximal runaway temperature of Earth-like planets. Icarus, 2011, 216, 403-414.	2.5	29
24	Open cluster birth analysis and multiple spiral arm sets in the Milky Way. New Astronomy, 2007, 12, 410-421.	1.8	27
25	Dynamics of fronts in thermally bistable fluids. Astrophysical Journal, 1992, 392, 106.	4.5	27
26	SEARCH FOR PRECURSOR ERUPTIONS AMONG TYPE IIB SUPERNOVAE. Astrophysical Journal, 2015, 811, 117.	4.5	26
27	On the behaviour of stellar winds that exceed the photon-tiring limit. Monthly Notices of the Royal Astronomical Society, 2009, 394, 595-604.	4.4	24
28	RECOVERING THE OBSERVED B/C RATIO IN A DYNAMIC SPIRAL-ARMED COSMIC RAY MODEL. Astrophysical Journal, 2014, 782, 34.	4.5	20
29	A lower limit on the halo mass to form supermassive black holes. Monthly Notices of the Royal Astronomical Society, 2011, 417, 3035-3046.	4.4	19
30	The spectral temperature of optically thick outflows with application to light echo spectra from η Carinae's giant eruption. Monthly Notices of the Royal Astronomical Society, 2016, 462, 345-351.	4.4	17
31	The extragalactic neutrino background radiations from blazars and cosmic rays. Astroparticle Physics, 1996, 4, 343-349.	4.3	14
32	Binary pulsar J0737â^'3039 – evidence for a new core collapse and neutron star formation mechanism. Monthly Notices of the Royal Astronomical Society, 2014, 438, 1005-1013.	4.4	14
33	Reconciling the diffuse Galactic γ-ray and the cosmic ray spectra. Monthly Notices of the Royal Astronomical Society, 2017, 466, 3674-3681.	4.4	12
34	ls there a dynamic effect in the screening of nuclear reactions in stellar plasmas?. Physics Reports, 1999, 311, 99-114.	25.6	11
35	Interface dynamics and domain growth in thermally bistable fluids. Physical Review E, 1994, 50, 2048-2056.	2.1	10
36	The super-Eddington nature of supermassive stars. Monthly Notices of the Royal Astronomical Society, 2012, 427, 3071-3080.	4.4	9

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37	Instability & Mass Loss near the Eddington Limit. Astrophysics and Space Science Library, 2012, , 275-297.	2.7	9
38	Asteroseismic effects in close binary stars. Monthly Notices of the Royal Astronomical Society, 2013, 434, 1869-1882.	4.4	8
39	Pattern evolution in thermally bistable media. Astrophysical Journal, 1994, 426, 621.	4.5	8
40	Can non-linear structure form at the era of decoupling?. Monthly Notices of the Royal Astronomical Society, 1998, 297, 1245-1260.	4.4	6
41	Constraining MOND using the vertical motion of stars in the solar neighbourhood. Monthly Notices of the Royal Astronomical Society, 2016, 456, 1163-1171.	4.4	6
42	Impact of the ISM magnetic field on GRB afterglow polarization. Monthly Notices of the Royal Astronomical Society, 2021, 507, 5340-5347.	4.4	6
43	The instability of radiative flows: from the early universe to the Eddington luminosity limit. Physics Reports, 1999, 311, 177-185.	25.6	5
44	The state of7Be in the core of the Sun and the solar neutrino flux. Monthly Notices of the Royal Astronomical Society, 2003, 341, 119-128.	4.4	5
45	The IONâ€CAGE Code: A Numerical Model for the Growth of Charged and Neutral Aerosols. Earth and Space Science, 2020, 7, e2020EA001142.	2.6	5
46	Why the Salpeter approximation is not valid in the Sun. Journal of Physics A, 2003, 36, 6187-6196.	1.6	4
47	Comment [on "Cosmic rays, carbon dioxide, and climateâ€]. Eos, 2004, 85, 510-510.	0.1	4
48	ON THE LINK BETWEEN COSMIC RAYS AND TERRESTRIAL CLIMATE. International Journal of Modern Physics A, 2005, 20, 6662-6665.	1.5	4
49	Continuumâ€Driven Winds from Superâ€Eddington Stars: A Tale of Two Limits. , 2008, , .		4
50	A GRB model satisfying stringent observational constraints. Astrophysics and Space Science, 1995, 231, 445-448.	1.4	3
51	The solar and Southern Oscillation components in the satellite altimetry data. Journal of Geophysical Research: Space Physics, 2015, 120, 3297-3306.	2.4	3
52	ON CONTINUUM-DRIVEN WINDS FROM ROTATING STARS. Astrophysical Journal, 2012, 757, 191.	4.5	1
53	Approximate analytical solutions to the condensation-coagulation equation of aerosols. Aerosol Science and Technology, 2016, 50, 578-590.	3.1	1
54	Lower Limits on the Nucleosynthesis of ⁴⁴ Ti and ⁶⁰ Fe in the Dynamic Spiral-arm Cosmic-Ray Propagation Model. Astrophysical Journal, 2018, 863, 86.	4.5	1

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55	The mass distribution in a merger model. Astrophysical Journal, 1993, 412, L25.	4.5	1
56	The Electrostatic Screening of Nuclear Reactions in Dense Plasma. AIP Conference Proceedings, 2002, ,	0.4	0
57	The Mass Distribution in a Collapsing Merging Spherical Cluster of Objects. Astrophysical Journal, 1995, 448, 514.	4.5	0