

# Nir Shaviv

## List of Publications by Year in descending order

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57  
papers

2,028  
citations

236925

25  
h-index

243625

44  
g-index

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all docs

57  
docs citations

57  
times ranked

2178  
citing authors

#	ARTICLE	IF	CITATIONS
1	Bright, Months-long Stellar Outbursts Announce the Explosion of Interaction-powered Supernovae. <i>Astrophysical Journal</i> , 2021, 907, 99.	4.5	59
2	Impact of the ISM magnetic field on GRB afterglow polarization. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 507, 5340-5347.	4.4	6
3	The IONâ€CAGE Code: A Numerical Model for the Growth of Charged and Neutral Aerosols. <i>Earth and Space Science</i> , 2020, 7, e2020EA001142.	2.6	5
4	Lower Limits on the Nucleosynthesis of $^{44}\text{Ti}$ and $^{60}\text{Fe}$ in the Dynamic Spiral-arm Cosmic-Ray Propagation Model. <i>Astrophysical Journal</i> , 2018, 863, 86.	4.5	1
5	Reconciling the diffuse Galactic $\hat{3}$ -ray and the cosmic ray spectra. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 466, 3674-3681.	4.4	12
6	Energetic eruptions leading to a peculiar hydrogen-rich explosion of a massive star. <i>Nature</i> , 2017, 551, 210-213.	27.8	112
7	Increased ionization supports growth of aerosols into cloud condensation nuclei. <i>Nature Communications</i> , 2017, 8, 2199.	12.8	77
8	PTF13efvâ€”AN OUTBURST 500 DAYS PRIOR TO THE SNHUNT 275 EXPLOSION AND ITS RADIATIVE EFFICIENCY. <i>Astrophysical Journal</i> , 2016, 824, 6.	4.5	39
9	The response of clouds and aerosols to cosmic ray decreases. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 8152-8181.	2.4	52
10	The spectral temperature of optically thick outflows with application to light echo spectra from $\hat{1}$ -Carinae's giant eruption. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 462, 345-351.	4.4	17
11	Approximate analytical solutions to the condensation-coagulation equation of aerosols. <i>Aerosol Science and Technology</i> , 2016, 50, 578-590.	3.1	1
12	Constraining MOND using the vertical motion of stars in the solar neighbourhood. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 456, 1163-1171.	4.4	6
13	The solar and Southern Oscillation components in the satellite altimetry data. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 3297-3306.	2.4	3
14	SEARCH FOR PRECURSOR ERUPTIONS AMONG TYPE IIB SUPERNOVAE. <i>Astrophysical Journal</i> , 2015, 811, 117.	4.5	26
15	PRECURSORS PRIOR TO TYPE II <sub>n</sub> SUPERNOVA EXPLOSIONS ARE COMMON: PRECURSOR RATES, PROPERTIES, AND CORRELATIONS. <i>Astrophysical Journal</i> , 2014, 789, 104.	4.5	175
16	RECOVERING THE OBSERVED B/C RATIO IN A DYNAMIC SPIRAL-ARMED COSMIC RAY MODEL. <i>Astrophysical Journal</i> , 2014, 782, 34.	4.5	20
17	Binary pulsar J0737âˆ3039 â€” evidence for a new core collapse and neutron star formation mechanism. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 438, 1005-1013.	4.4	14
18	An outburst from a massive star 40â€%days before a supernova explosion. <i>Nature</i> , 2013, 494, 65-67.	27.8	183

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19	Asteroseismic effects in close binary stars. Monthly Notices of the Royal Astronomical Society, 2013, 434, 1869-1882.	4.4	8
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	ON CONTINUUM-DRIVEN WINDS FROM ROTATING STARS. Astrophysical Journal, 2012, 757, 191.	4.5	1
22	The super-Eddington nature of supermassive stars. Monthly Notices of the Royal Astronomical Society, 2012, 427, 3071-3080.	4.4	9
23	Instability & Mass Loss near the Eddington Limit. Astrophysics and Space Science Library, 2012, , 275-297.	2.7	9
24	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
25	The maximal runaway temperature of Earth-like planets. Icarus, 2011, 216, 403-414.	2.5	29
26	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
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	Numerical simulations of continuum-driven winds of super-Eddington stars. Monthly Notices of the Royal Astronomical Society, 2008, 389, 1353-1359.	4.4	34
29	Continuum-Driven Winds from Super-Eddington Stars: A Tale of Two Limits. , 2008, , .		4
30	Open cluster birth analysis and multiple spiral arm sets in the Milky Way. New Astronomy, 2007, 12, 410-421.	1.8	27
31	ON THE LINK BETWEEN COSMIC RAYS AND TERRESTRIAL CLIMATE. International Journal of Modern Physics A, 2005, 20, 6662-6665.	1.5	4
32	Comment [on "Cosmic rays, carbon dioxide, and climate"]. Eos, 2004, 85, 510-510.	0.1	4
33	A Porosity-Length Formalism for Photon-Tiring-limited Mass Loss from Stars above the Eddington Limit. Astrophysical Journal, 2004, 616, 525-541.	4.5	176
34	The state of ${}^7\text{Be}$ 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
35	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
36	The spiral structure of the Milky Way, cosmic rays, and ice age epochs on Earth. New Astronomy, 2003, 8, 39-77.	1.8	180

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37	Why the Salpeter approximation is not valid in the Sun. <i>Journal of Physics A</i> , 2003, 36, 6187-6196.	1.6	4
38	The Electrostatic Screening of Nuclear Reactions in Dense Plasma. <i>AIP Conference Proceedings</i> , 2002, , .	0.4	0
39	The Nature of the Radiative Hydrodynamic Instabilities in Radiatively Supported Thomson Atmospheres. <i>Astrophysical Journal</i> , 2001, 549, 1093-1110.	4.5	51
40	The theory of steady-state super-Eddington winds and its application to novae. <i>Monthly Notices of the Royal Astronomical Society</i> , 2001, 326, 126-146.	4.4	72
41	The Electrostatic Screening of Nuclear Reactions in the Sun. <i>Astrophysical Journal</i> , 2001, 558, 925-942.	4.5	32
42	Polarization evolution in strong magnetic fields. <i>Monthly Notices of the Royal Astronomical Society</i> , 2000, 311, 555-564.	4.4	58
43	Is There a Dynamic Effect in the Screening of Nuclear Reactions in Stellar Plasmas?. <i>Astrophysical Journal</i> , 2000, 529, 1054-1069.	4.5	45
44	The instability of radiative flows: from the early universe to the Eddington luminosity limit. <i>Physics Reports</i> , 1999, 311, 177-185.	25.6	5
45	Magnetic lensing near ultramagnetized neutron stars. <i>Monthly Notices of the Royal Astronomical Society</i> , 1999, 306, 333-347.	4.4	36
46	Is there a dynamic effect in the screening of nuclear reactions in stellar plasmas?. <i>Physics Reports</i> , 1999, 311, 99-114.	25.6	11
47	Can non-linear structure form at the era of decoupling?. <i>Monthly Notices of the Royal Astronomical Society</i> , 1998, 297, 1245-1260.	4.4	6
48	Life Extinctions by Cosmic Ray Jets. <i>Physical Review Letters</i> , 1998, 80, 5813-5816.	7.8	49
49	The extragalactic neutrino background radiations from blazars and cosmic rays. <i>Astroparticle Physics</i> , 1996, 4, 343-349.	4.3	14
50	The Electrostatic Screening of Thermonuclear Reactions in Astrophysical Plasmas. I.. <i>Astrophysical Journal</i> , 1996, 468, 433.	4.5	33
51	A GRB model satisfying stringent observational constraints. <i>Astrophysics and Space Science</i> , 1995, 231, 445-448.	1.4	3
52	Origin of the High Energy Extragalactic Diffuse Gamma Ray Background. <i>Physical Review Letters</i> , 1995, 75, 3052-3055.	7.8	44
53	The Mass Distribution in a Collapsing Merging Spherical Cluster of Objects. <i>Astrophysical Journal</i> , 1995, 448, 514.	4.5	0
54	Interface dynamics and domain growth in thermally bistable fluids. <i>Physical Review E</i> , 1994, 50, 2048-2056.	2.1	10

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55	Pattern evolution in thermally bistable media. <i>Astrophysical Journal</i> , 1994, 426, 621.	4.5	8
56	The mass distribution in a merger model. <i>Astrophysical Journal</i> , 1993, 412, L25.	4.5	1
57	Dynamics of fronts in thermally bistable fluids. <i>Astrophysical Journal</i> , 1992, 392, 106.	4.5	27