

Amir Levinson

List of Publications by Year in descending order

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103
papers

2,876
citations

147566

31
h-index

189595

50
g-index

105
all docs

105
docs citations

105
times ranked

2956
citing authors

#	ARTICLE	IF	CITATIONS
1	The Response of Black Hole Spark Gaps to External Changes: A Production Mechanism of Rapid TeV Flares?. <i>Astrophysical Journal</i> , 2022, 924, 28.	1.6	7
2	Electromagnetic Fireworks: Fast Radio Bursts from Rapid Reconnection in the Compressed Magnetar Wind. <i>Astrophysical Journal Letters</i> , 2022, 932, L20.	3.0	18
3	Spherical Shocks in a Steep Density Gradient of Expanding Media. <i>Astrophysical Journal</i> , 2021, 907, 113.	1.6	2
4	Intermittent mildly magnetized jets as the source of GRBs. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 504, 3947-3955.	1.6	19
5	GRMHD simulations of BH activation by small scale magnetic loops: formation of striped jets and active coronae. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 508, 1241-1252.	1.6	28
6	Intermittent hydrodynamic jets in collapsars do not produce GRBs. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 495, 570-577.	1.6	26
7	Physics of radiation mediated shocks and its applications to GRBs, supernovae, and neutron star mergers. <i>Physics Reports</i> , 2020, 866, 1-46.	10.3	38
8	BALQSO spectra explained by shock disruption of galactic clouds. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 491, 4325-4333.	1.6	6
9	Monte Carlo simulations of relativistic radiation-mediated shocks: II. photon-starved regime. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 492, 1902-1913.	1.6	9
10	Monte Carlo simulations of fast Newtonian and mildly relativistic shock breakout from a stellar wind. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 499, 4961-4971.	1.6	10
11	Comprehensive Analysis of Magnetospheric Gaps around Kerr Black Holes Using 1D GRPIC Simulations. <i>Astrophysical Journal</i> , 2020, 902, 80.	1.6	25
12	Plasma kinetic effects in relativistic radiation-mediated shocks. <i>Physical Review E</i> , 2020, 102, 063210.	0.8	9
13	High efficiency photospheric emission entailed by formation of a collimation shock in gamma-ray bursts. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 488, 1416-1426.	1.6	38
14	Prospects for multi-messenger extended emission from core-collapse supernovae in the Local Universe. <i>European Physical Journal Plus</i> , 2019, 134, 1.	1.2	10
15	The spectrum of a fast shock breakout from a stellar wind. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 484, 3502-3509.	1.6	12
16	Multi-messenger Extended Emission from the Compact Remnant in GW170817. <i>Astrophysical Journal Letters</i> , 2019, 876, L2.	3.0	12
17	Numerical simulations of AGN wind feedback on black hole accretion: probing down to scales within the sphere of influence. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 482, 4642-4653.	1.6	7
18	Radio Galaxies at VHE Energies. <i>Galaxies</i> , 2018, 6, 116.	1.1	36

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19	Particle-in-cell simulations of pair discharges in a starved magnetosphere of a Kerr black hole. <i>Astronomy and Astrophysics</i> , 2018, 616, A184.	2.1	48
20	Relativistic shock breakout from a stellar wind. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 476, 5453-5463.	1.6	14
21	Limits on the growth rate of supermassive black holes at early cosmic epochs. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 473, 2673-2678.	1.6	5
22	Monte Carlo simulations of relativistic radiation-mediated shocks â€“ I. Photon-rich regime. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 474, 2828-2851.	1.6	25
23	Existence of steady gap solutions in rotating black hole magnetospheres. <i>Physical Review D</i> , 2017, 96, .	1.6	33
24	Dynamics of relativistic shock waves subject to a strong radiation drag: Similarity solutions and numerical simulations. <i>Physics of Fluids</i> , 2017, 29, 087105.	1.6	1
25	The collimation of magnetic jets by disc winds. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 461, 2605-2615.	1.6	29
26	The effect of Compton drag on the dynamics of dissipative Poynting-dominated flows: implications for the unification of radio loud AGN. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 458, 2269-2274.	1.6	14
27	BROADBAND EXTENDED EMISSION IN GRAVITATIONAL WAVES FROM CORE-COLLAPSE SUPERNOVAE. <i>Astrophysical Journal</i> , 2015, 812, 124.	1.6	5
28	BLAZAR FLARES FROM COMPTON DRAGGED SHELLS. <i>Astrophysical Journal</i> , 2015, 809, 23.	1.6	3
29	On the origin of short GRBs with extended emission and long GRBs without associated SN. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2014, 444, L58-L62.	1.2	26
30	JET FORMATION IN GRBs: A SEMI-ANALYTIC MODEL OF MHD FLOW IN KERR GEOMETRY WITH REALISTIC PLASMA INJECTION. <i>Astrophysical Journal</i> , 2014, 796, 26.	1.6	31
31	SUB-PHOTOSPHERIC, RADIATION-MEDIATED SHOCKS IN GAMMA-RAY BURSTS: MULTIPLE SHOCK EMISSION AND THE BAND SPECTRUM. <i>Astrophysical Journal</i> , 2014, 789, 128.	1.6	17
32	PLASMA INJECTION AND OUTFLOW FORMATION IN KERR BLACK HOLES. <i>International Journal of Modern Physics Conference Series</i> , 2014, 28, 1460164.	0.7	2
33	ULTRA-RELATIVISTIC, NEUTRINO-DRIVEN FLOWS IN GAMMA-RAY BURSTS: A DOUBLE TRANSONIC FLOW SOLUTION IN A SCHWARZSCHILD SPACETIME. <i>Astrophysical Journal</i> , 2013, 770, 159.	1.6	18
34	Loaded magnetohydrodynamic flows in Kerr spacetime. <i>Physical Review D</i> , 2013, 88, .	1.6	23
35	COLLIMATION AND CONFINEMENT OF MAGNETIC JETS BY EXTERNAL MEDIA. <i>Astrophysical Journal</i> , 2013, 764, 148.	1.6	32
36	OBSERVATIONAL SIGNATURES OF SUB-PHOTOSPHERIC RADIATION-MEDIATED SHOCKS IN THE PROMPT PHASE OF GAMMA-RAY BURSTS. <i>Astrophysical Journal</i> , 2012, 756, 174.	1.6	44

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37	VARIABLE TeV EMISSION AS A MANIFESTATION OF JET FORMATION IN M87?. <i>Astrophysical Journal</i> , 2011, 730, 123.	1.6	122
38	SUB-PHOTOSPHERIC EMISSION FROM RELATIVISTIC RADIATION MEDIATED SHOCKS IN GRBs. <i>Astrophysical Journal</i> , 2011, 733, 85.	1.6	29
39	Relativistic jets at high energies. <i>Proceedings of the International Astronomical Union</i> , 2010, 6, 24-31.	0.0	0
40	INTERACTION OF A MAGNETIZED SHELL WITH AN AMBIENT MEDIUM: LIMITS ON IMPULSIVE MAGNETIC ACCELERATION. <i>Astrophysical Journal</i> , 2010, 720, 1490-1499.	1.6	17
41	JETS ON ALL SCALES. <i>International Journal of Modern Physics D</i> , 2010, 19, 649-657.	0.9	2
42	Relativistic Rayleigh-Taylor instability of a decelerating shell and its implications for gamma-ray bursts. <i>Geophysical and Astrophysical Fluid Dynamics</i> , 2010, 104, 85-111.	0.4	11
43	RECOLLIMATION AND RADIATIVE FOCUSING OF RELATIVISTIC JETS: APPLICATIONS TO BLAZARS AND M87. <i>Astrophysical Journal</i> , 2009, 699, 1274-1280.	1.6	82
44	Probing Cosmic Accelerators Using VHE Gamma Rays and UHE Cosmic Rays. <i>Nuclear Physics A</i> , 2009, 827, 561c-566c.	0.6	0
45	CONVECTIVE INSTABILITY OF A RELATIVISTIC EJECTA DECELERATED BY A SURROUNDING MEDIUM: AN ORIGIN OF MAGNETIC FIELDS IN GAMMA-RAY BURSTS?. <i>Astrophysical Journal</i> , 2009, 705, L213-L216.	1.6	21
46	Structure and nuclear composition of general relativistic, magnetohydrodynamic outflows from neutrino-cooled disks. <i>New Astronomy</i> , 2008, 13, 386-394.	0.8	12
47	COLLIMATION AND RADIATIVE DECELERATION OF JETS IN TEV AGNs. <i>International Journal of Modern Physics D</i> , 2008, 17, 1603-1610.	0.9	6
48	Phenomenology of Gamma-Ray Jets. <i>AIP Conference Proceedings</i> , 2008, , .	0.3	0
49	Relativistic Photon Mediated Shocks. <i>Physical Review Letters</i> , 2008, 100, 131101.	2.9	45
50	Focusing of Relativistic Cooling Jets. , 2008, , .		0
51	Neutrino-Driven Mass Loading of GRMHD Outflows. , 2007, , .		0
52	Hydrodynamic Collimation of Relativistic Outflows: Semianalytic Solutions and Application to Gamma-Ray Bursts. <i>Astrophysical Journal</i> , 2007, 671, 678-688.	1.6	44
53	On the Origin of Rapid Flares in TeV Blazars. <i>Astrophysical Journal</i> , 2007, 671, L29-L32.	1.6	34
54	Are the Radiative Properties of Long Gamma-Ray Bursts Universal?. <i>Astrophysical Journal</i> , 2006, 649, L5-L8.	1.6	12

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55	Radio and Optical Follow-up Observations of a Uniform Radio Transient Search: Implications for Gamma-ray Bursts and Supernovae. <i>Astrophysical Journal</i> , 2006, 639, 331-339.	1.6	101
56	General Relativistic, Neutrino-assisted Magnetohydrodynamic Winds Theory and Application to Gamma-ray Bursts. I. Schwarzschild Geometry. <i>Astrophysical Journal</i> , 2006, 648, 510-522.	1.6	29
57	The planets capture model of V838 Monocerotis: conclusions for the penetration depth of the planet(s). <i>Monthly Notices of the Royal Astronomical Society</i> , 2006, 370, 1573-1580.	1.6	47
58	The gravitational-wave spectrum of a non-axisymmetric torus around a rapidly spinning black hole. <i>New Astronomy</i> , 2006, 11, 619-627.	0.8	6
59	HIGH-ENERGY ASPECTS OF ASTROPHYSICAL JETS. <i>International Journal of Modern Physics A</i> , 2006, 21, 6015-6054.	0.5	36
60	The Difference between the Amati and Ghirlanda Relations. <i>Astrophysical Journal</i> , 2005, 629, L13-L16.	1.6	46
61	Large-Amplitude, Pair-creating Oscillations in Pulsar and Black Hole Magnetospheres. <i>Astrophysical Journal</i> , 2005, 631, 456-465.	1.6	83
62	Oscillating pair creation in pulsar magnetospheres. <i>AIP Conference Proceedings</i> , 2005, , .	0.3	3
63	Gravitational radiation from gamma-ray burst-supernovae as observational opportunities for LIGO and VIRGO. <i>Physical Review D</i> , 2004, 69, .	1.6	52
64	Polarization of Gamma-Ray Bursts by Scattering off Relativistically Moving Material: Compton Sailing and High Polarization. <i>Astrophysical Journal</i> , 2004, 613, 1079-1087.	1.6	15
65	An Interpretation of the $h\nu/2$ peak - E iso Correlation for Gamma-Ray Bursts. <i>Astrophysical Journal</i> , 2004, 614, L13-L16.	1.6	91
66	On Time Evolution and Causality of Force-free Black Hole Magnetospheres. <i>Astrophysical Journal</i> , 2004, 608, 411-417.	1.6	4
67	Baryon Loading of Gamma-Ray Burst by Neutron Pickup. <i>Astrophysical Journal</i> , 2003, 594, L19-L22.	1.6	51
68	Polarization of Gamma-Ray Bursts via Scattering off a Relativistic Sheath. <i>Astrophysical Journal</i> , 2003, 596, L147-L150.	1.6	40
69	Theory and Astrophysical Consequences of a Magnetized Torus around a Rapidly Rotating Black Hole. <i>Astrophysical Journal</i> , 2003, 584, 937-953.	1.6	71
70	Black-hole galactic nuclei: a high-energy perspective. <i>Classical and Quantum Gravity</i> , 2002, 19, 1317-1319.	1.5	1
71	Gamma-ray bursts: calorimetry on echoes in gravitational waves. <i>Classical and Quantum Gravity</i> , 2002, 19, 1309-1315.	1.5	2
72	Detecting Energy Emissions from a Rotating Black Hole. <i>Science</i> , 2002, 295, 1874-1877.	6.0	17

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73	UHECR production by a compact black hole dynamo: application to Sgr A*. <i>Astroparticle Physics</i> , 2002, 16, 265-270.	1.9	16
74	Neutrino Flux Predictions for Known Galactic Microquasars. <i>Astrophysical Journal</i> , 2002, 575, 378-383.	1.6	95
75	Orphan Gamma-Ray Burst Radio Afterglows: Candidates and Constraints on Beaming. <i>Astrophysical Journal</i> , 2002, 576, 923-931.	1.6	129
76	Calorimetry of Gamma-Ray Bursts: Echoes in Gravitational Waves. <i>Astrophysical Journal</i> , 2001, 555, L41-L44.	1.6	8
77	UHECR production and curvature TeV emission in nearby, dormant AGNs. <i>AIP Conference Proceedings</i> , 2001, , .	0.3	1
78	Probing Microquasars with TeV Neutrinos. <i>Physical Review Letters</i> , 2001, 87, 171101.	2.9	83
79	Comment on "TeV Cerenkov Events as Bose-Einstein Gamma Condensations". <i>Astrophysical Journal</i> , 2001, 549, L67-L69.	1.6	2
80	A Compact Fireball Model of Gamma-Ray Bursts. <i>Astrophysical Journal</i> , 2000, 529, 146-150.	1.6	76
81	Hydrodynamic Collimation of Gamma-Ray-Burst Fireballs. <i>Physical Review Letters</i> , 2000, 85, 236-239.	2.9	45
82	Particle Acceleration and Curvature TeV Emission by Rotating, Supermassive Black Holes. <i>Physical Review Letters</i> , 2000, 85, 912-915.	2.9	89
83	Effect of Orientation on the Variability Pattern of Gamma-Ray Sources. <i>Astrophysics and Space Science</i> , 1999, 268, 433-441.	0.5	0
84	Transient Emission from Dissipative Fronts in Magnetized, Relativistic Outflows. II. Synchrotron Flares. <i>Astrophysical Journal</i> , 1999, 522, 93-100.	1.6	4
85	Shading and Smothering of Gamma-Ray Bursts. <i>Astrophysical Journal</i> , 1999, 521, L117-L120.	1.6	42
86	Model for the Transient Emission from Blazars. <i>Highlights of Astronomy</i> , 1998, 11, 820-823.	0.0	0
87	Transient Emission from Dissipative Fronts in Magnetized, Relativistic Outflows. I. Gamma-Ray Flares. <i>Astrophysical Journal</i> , 1998, 507, 145-154.	1.6	23
88	Formation, Evolution, and Structure of Fronts Produced by Unsteady Injection of Highly Magnetized, Relativistic Flows. <i>Astrophysical Journal</i> , 1997, 488, 69-73.	1.6	23
89	On the injection of electrons in oblique shocks. <i>Monthly Notices of the Royal Astronomical Society</i> , 1996, 278, 1018-1024.	1.6	31
90	Pair Cascades in Extragalactic Jets. III. Synchrotron Emission. <i>Astrophysical Journal</i> , 1996, 459, 520.	1.6	7

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91	Can Electromagnetic Instabilities Driven by Temperature Gradients Inhibit Thermal Conduction in Cluster Cooling Flows?. <i>Astrophysical Journal</i> , 1996, 467, 162.	1.6	23
92	Constraints on the Dynamics of Electron-Positron Jets in Active Galactic Nuclei. <i>Astrophysical Journal</i> , 1996, 467, 546.	1.6	12
93	On the Jets Associated with Galactic Superluminal Sources. <i>Astrophysical Journal</i> , 1996, 456, .	1.6	62
94	PAIR CASCADE MODELS OF GAMMA-RAY BLAZARS. <i>Annals of the New York Academy of Sciences</i> , 1995, 759, 534-537.	1.8	0
95	Pair Cascades in Extragalactic Jets. II. The Beamed X-Ray Spectrum. <i>Astrophysical Journal</i> , 1995, 449, 86.	1.6	18
96	Symmetry-breaking effects induced by intense laser fields. <i>Physical Review A</i> , 1994, 49, R661-R664.	1.0	12
97	Electron injection and acceleration at nonlinear shocks: Results of numerical simulations. <i>Astrophysical Journal</i> , 1994, 426, 327.	1.6	19
98	Baryon Purity in Cosmological Gamma-Ray Bursts as a Manifestation of Event Horizons. <i>Astrophysical Journal</i> , 1993, 418, 386.	1.6	107
99	Inhibition of electron thermal conduction by electromagnetic instabilities. <i>Astrophysical Journal</i> , 1992, 387, 212.	1.6	34
100	Electron injection in collisionless shocks. <i>Astrophysical Journal</i> , 1992, 401, 73.	1.6	54
101	GENERALIZED BELINSKY&RUFFINI GEOMETRY. <i>Modern Physics Letters A</i> , 1991, 06, 2189-2195.	0.5	0
102	Can neutron stars ablate their companions?. <i>Astrophysical Journal</i> , 1991, 379, 359.	1.6	15
103	On black widow evolutionary scenarios for binary neutron stars. <i>Astrophysical Journal</i> , 1988, 335, L67.	1.6	19