

Maxim Lyutikov

List of Publications by Year in descending order

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82
papers

2,502
citations

201674

27
h-index

206112

48
g-index

84
all docs

84
docs citations

84
times ranked

2904
citing authors

#	ARTICLE	IF	CITATIONS
1	Rotating neutron stars without light cylinders. Monthly Notices of the Royal Astronomical Society, 2022, 513, 1947-1957.	4.4	2
2	On the nature of fast blue optical transients. Monthly Notices of the Royal Astronomical Society, 2022, 515, 2293-2304.	4.4	8
3	Faraday Conversion in Pair-symmetric Winds of Magnetars and Fast Radio Bursts. Astrophysical Journal Letters, 2022, 933, L6.	8.3	4
4	Dynamics and Emission of Wind-powered Afterglows of Gamma-Ray Bursts: Flares, Plateaus, and Steep Decays. Astrophysical Journal, 2021, 907, 109.	4.5	5
5	Peeking Between the Pulses: The Far-UV Spectrum of the Previously Unseen White Dwarf in AR Scorpii. Astrophysical Journal, 2021, 908, 195.	4.5	9
6	Radio afterglow of magnetars' giant flares. Monthly Notices of the Royal Astronomical Society, 2021, 506, 6093-6110.	4.4	2
7	Resolving the Emission Regions of the Crab Pulsar's Giant Pulses. Astrophysical Journal, 2021, 915, 65.	4.5	13
8	Brightness Temperature Constraints on Coherent Processes in Magnetospheres of Neutron Stars. Astrophysical Journal Letters, 2021, 918, L11.	8.3	3
9	Magnetic loading of magnetars' flares. Monthly Notices of the Royal Astronomical Society, 2021, 509, 2689-2695.	4.4	6
10	Coherent Emission in Pulsars, Magnetars, and Fast Radio Bursts: Reconnection-driven Free Electron Laser. Astrophysical Journal, 2021, 922, 166.	4.5	29
11	Magnetic Topology in Coupled Binaries, Spin-orbital Resonances, and Flares. Astrophysical Journal, 2021, 923, 13.	4.5	8
12	Conditions for jet breakout in neutron stars' mergers. Monthly Notices of the Royal Astronomical Society, 2020, 491, 483-487.	4.4	7
13	Fast-moving pulsars as probes of interstellar medium. Monthly Notices of the Royal Astronomical Society, 2020, 497, 2605-2615.	4.4	2
14	Nonlinear self-focusing in strongly magnetized pair plasma. Physical Review E, 2020, 102, 013211.	2.1	4
15	Tilting instability of magnetically confined spheromaks. Journal of Plasma Physics, 2020, 86, .	2.1	5
16	FRB Periodicity: Mild Pulsars in Tight O/B-star Binaries. Astrophysical Journal Letters, 2020, 893, L39.	8.3	85
17	Nonlinear force-free configurations in cylindrical geometry. Journal of Plasma Physics, 2020, 86, .	2.1	1
18	Radius-to-frequency Mapping and FRB Frequency Drifts. Astrophysical Journal, 2020, 889, 135.	4.5	32

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19	Turbulent Model of Crab Nebula Radiation. <i>Astrophysical Journal</i> , 2020, 896, 147.	4.5	9
20	Fast-rising blue optical transients and AT2018cow following electron-capture collapse of merged white dwarfs. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 487, 5618-5629.	4.4	40
21	On the nature of radio filaments near the Galactic Centre. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2019, 489, L28-L31.	3.3	13
22	Interpreting Crab Nebula's synchrotron spectrum: two acceleration mechanisms. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 489, 2403-2416.	4.4	27
23	Driving the Beat: Time-resolved Spectra of the White Dwarf Pulsar AR Scorpii. <i>Astrophysical Journal</i> , 2019, 872, 67.	4.5	16
24	Kinetic "jets" from fast-moving pulsars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 485, 2041-2053.	4.4	26
25	3D dynamics and morphology of bow-shock pulsar wind nebulae. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 484, 4760-4784.	4.4	35
26	Electrodynamics of binary neutron star mergers. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 483, 2766-2777.	4.4	20
27	Particle acceleration in explosive relativistic reconnection events and Crab Nebula gamma-ray flares. <i>Journal of Plasma Physics</i> , 2018, 84, .	2.1	38
28	On the linear stability of sheared and magnetized jets without current sheets " relativistic case. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 474, 3954-3966.	4.4	17
29	GRB 170817A Associated with GW170817: Multi-frequency Observations and Modeling of Prompt Gamma-Ray Emission. <i>Astrophysical Journal Letters</i> , 2018, 852, L30.	8.3	89
30	Radiation- and pair-loaded shocks. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 477, 816-829.	4.4	2
31	Ultra-relativistic double explosions. <i>Physics of Fluids</i> , 2017, 29, .	4.0	5
32	Fast Radio Bursts' Emission Mechanism: Implication from Localization. <i>Astrophysical Journal Letters</i> , 2017, 838, L13.	8.3	50
33	Polarization swings in blazars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 467, 3876-3886.	4.4	29
34	Rotation of polarization by a moving gravitational lens. <i>Physical Review D</i> , 2017, 95, .	4.7	3
35	On the linear stability of magnetized jets without current sheets " relativistic case. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 467, 4647-4662.	4.4	15
36	Early GRB Afterglows from Reverse Shocks in Ultra-relativistic, Long-lasting Winds. <i>Astrophysical Journal</i> , 2017, 835, 206.	4.5	9

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37	Magnetar-like X-Ray Bursts Suppress Pulsar Radio Emission. <i>Astrophysical Journal Letters</i> , 2017, 849, L20.	8.3	26
38	Explosive X-point collapse in relativistic magnetically dominated plasma. <i>Journal of Plasma Physics</i> , 2017, 83, .	2.1	18
39	Particle acceleration in relativistic magnetic flux-merging events. <i>Journal of Plasma Physics</i> , 2017, 83, .	2.1	32
40	Emission Knots and Polarization Swings of Swinging Jets. <i>Galaxies</i> , 2016, 4, 75.	3.0	0
41	Fast radio bursts as giant pulses from young rapidly rotating pulsars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 462, 941-950.	4.4	104
42	HOW ELSE CAN WE DETECT FAST RADIO BURSTS?. <i>Astrophysical Journal Letters</i> , 2016, 824, L18.	8.3	22
43	On the linear stability of sheared and magnetized jets without current sheets – non-relativistic case. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 461, 728-741.	4.4	10
44	The inner knot of the Crab nebula. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 456, 286-299.	4.4	21
45	Magnetar activity via the density–shear instability in Hall-MHD. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2015, 453, L93-L97.	3.3	22
46	Stationary relativistic jets. <i>Computational Astrophysics and Cosmology</i> , 2015, 2, 9.	22.7	20
47	Magnetar activity mediated by plastic deformations of neutron star crust. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 447, 1407-1417.	4.4	31
48	Radio emission region exposed: courtesy of the double pulsar. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 441, 690-714.	4.4	10
49	Inverse Compton origin of pulsar γ emission and the reconnection model of Crab Nebula flares. <i>Astronomische Nachrichten</i> , 2014, 335, 227-233.	1.2	2
50	Topics in Microphysics of Relativistic Plasmas. <i>Space Science Reviews</i> , 2013, 178, 459-481.	8.1	13
51	Electron magnetohydrodynamics: Dynamics and turbulence. <i>Physical Review E</i> , 2013, 88, 053103.	2.1	14
52	Magnetic fields in γ -ray bursts. <i>Nature</i> , 2013, 504, 92-93.	27.8	1
53	THE ELECTROMAGNETIC MODEL OF SHORT GRBs, THE NATURE OF PROMPT TAILS, SUPERNOVA-LESS LONG GRBs, AND HIGHLY EFFICIENT EPISODIC ACCRETION. <i>Astrophysical Journal</i> , 2013, 768, 63.	4.5	26
54	Topics in Microphysics of Relativistic Plasmas. <i>Space Sciences Series of ISSI</i> , 2013, , 383-405.	0.0	0

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55	THE VERY HIGH ENERGY EMISSION FROM PULSARS: A CASE FOR INVERSE COMPTON SCATTERING. <i>Astrophysical Journal</i> , 2012, 754, 33.	4.5	50
56	On the dynamics of mechanical failures in magnetized neutron star crusts. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 427, 1574-1579.	4.4	40
57	On the sideways expansion of relativistic non-spherical shocks and gamma-ray burst afterglows. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, , no-no.	4.4	3
58	Crab GeV flares from the corrugated termination shock. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 422, 3118-3129.	4.4	33
59	On the origin of variable gamma-ray emission from the Crab nebula. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 414, 2017-2028.	4.4	74
60	Double explosions and jet formation in gamma-ray burst-supernova progenitors. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 411, 2054-2058.	4.4	7
61	Coronal Mass Ejections as Expanding Force-Free Structures. <i>Solar Physics</i> , 2011, 270, 537-549.	2.5	9
62	Slowly balding black holes. <i>Physical Review D</i> , 2011, 84, .	4.7	39
63	Electromagnetic power of merging and collapsing compact objects. <i>Physical Review D</i> , 2011, 83, .	4.7	49
64	Structure of magnetic fields in intracluster cavities. <i>Monthly Notices of the Royal Astronomical Society</i> , 2010, 409, 1660-1668.	4.4	16
65	A high-sigma model of pulsar wind nebulae. <i>Monthly Notices of the Royal Astronomical Society</i> , 2010, , no-no.	4.4	17
66	Structure of cosmic ray-modified perpendicular shocks. <i>Monthly Notices of the Royal Astronomical Society</i> , 2010, 407, 1721-1727.	4.4	2
67	Magnetocentrifugal launching of jets from discs around Kerr black holes. <i>Monthly Notices of the Royal Astronomical Society</i> , 2009, 396, 1545-1552.	4.4	20
68	Magnetism in a cosmic blast. <i>Nature</i> , 2009, 462, 728-729.	27.8	0
69	Relativistic Spin Precession in the Double Pulsar. <i>Science</i> , 2008, 321, 104-107.	12.6	152
70	Inductive acceleration of UHECRs in sheared relativistic jets. <i>Astroparticle Physics</i> , 2007, 27, 473-489.	4.3	21
71	Magnetar giant flares and afterglows as relativistic magnetized explosions. <i>Monthly Notices of the Royal Astronomical Society</i> , 2006, 367, 1594-1602.	4.4	141
72	The Electromagnetic Model of Gamma ray Bursts. <i>AIP Conference Proceedings</i> , 2006, , .	0.4	0

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73	Explosive reconnection in magnetars. Monthly Notices of the Royal Astronomical Society, 2003, 346, 540-554.	4.4	196
74	Dynamics of Relativistic Reconnection. Astrophysical Journal, 2003, 589, 893-901.	4.5	110
75	Radio Emission from Magnetars. Astrophysical Journal, 2002, 580, L65-L68.	4.5	68
76	Radio and X-ray signatures of merging neutron stars. Monthly Notices of the Royal Astronomical Society, 2001, 322, 695-701.	4.4	176
77	On the nature of pulsar radio emission. Monthly Notices of the Royal Astronomical Society, 1999, 305, 338-352.	4.4	86
78	Cherenkovâ€Curvature Radiation and Pulsar Radio Emission Generation. Astrophysical Journal, 1999, 512, 804-826.	4.5	50
79	Beam instabilities in a magnetized pair plasma. Journal of Plasma Physics, 1999, 62, 65-86.	2.1	16
80	Waves in a one-dimensional magnetized relativistic pair plasma. Monthly Notices of the Royal Astronomical Society, 1998, 293, 447-468.	4.4	36
81	Induced Raman scattering in pulsar magnetospheres. Monthly Notices of the Royal Astronomical Society, 1998, 298, 1198-1206.	4.4	5
82	On generation of Crab giant pulses. Monthly Notices of the Royal Astronomical Society, 0, 381, 1190-1196.	4.4	46