

Alex Lazarian

List of Publications by Year in descending order

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333
papers

20,221
citations

6592

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14156

128
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335
all docs

335
docs citations

335
times ranked

6618
citing authors

#	ARTICLE	IF	CITATIONS
1	GLIMPSE. I. AnSIRTF Legacy Project to Map the Inner Galaxy. Publications of the Astronomical Society of the Pacific, 2003, 115, 953-964.	1.0	1,059
2	Reconnection in a Weakly Stochastic Field. Astrophysical Journal, 1999, 517, 700-718.	1.6	790
3	Compressible magnetohydrodynamic turbulence: mode coupling, scaling relations, anisotropy, viscosity-damped regime and astrophysical implications. Monthly Notices of the Royal Astronomical Society, 2003, 345, 325-339.	1.6	449
4	Electric Dipole Radiation from Spinning Dust Grains. Astrophysical Journal, 1998, 508, 157-179.	1.6	407
5	Simulations of Magnetohydrodynamic Turbulence in a Strongly Magnetized Medium. Astrophysical Journal, 2002, 564, 291-301.	1.6	374
6	Interstellar Dust Grain Alignment. Annual Review of Astronomy and Astrophysics, 2015, 53, 501-539.	8.1	340
7	Tracing magnetic fields with aligned grains. Journal of Quantitative Spectroscopy and Radiative Transfer, 2007, 106, 225-256.	1.1	329
8	Velocity Modification of HiPower Spectrum. Astrophysical Journal, 2000, 537, 720-748.	1.6	329
9	Radiative torques: analytical model and basic properties. Monthly Notices of the Royal Astronomical Society, 2007, 378, 910-946.	1.6	318
10	Diffuse Galactic Emission from Spinning Dust Grains. Astrophysical Journal, 1998, 494, L19-L22.	1.6	312
11	NUMERICAL TESTS OF FAST RECONNECTION IN WEAKLY STOCHASTIC MAGNETIC FIELDS. Astrophysical Journal, 2009, 700, 63-85.	1.6	299
12	Compressible turbulence in galaxy clusters: physics and stochastic particle re-acceleration. Monthly Notices of the Royal Astronomical Society, 2007, 378, 245-275.	1.6	283
13	Compressible Sub-Alfvénic MHD Turbulence in Low- β^2 Plasmas. Physical Review Letters, 2002, 88, 245001.	2.9	275
14	Scattering of Cosmic Rays by Magnetohydrodynamic Interstellar Turbulence. Physical Review Letters, 2002, 89, 281102.	2.9	219
15	Density Fluctuations in MHD Turbulence: Spectra, Intermittency, and Topology. Astrophysical Journal, 2007, 658, 423-445.	1.6	219
16	Cosmic-ray Scattering and Streaming in Compressible Magnetohydrodynamic Turbulence. Astrophysical Journal, 2004, 614, 757-769.	1.6	218
17	EXTENDING THE BIG POWER LAW IN THE SKY WITH TURBULENCE SPECTRA FROM WISCONSIN H α MAPPER DATA. Astrophysical Journal, 2010, 710, 853-858.	1.6	205
18	LiteBIRD: A Satellite for the Studies of B-Mode Polarization and Inflation from Cosmic Background Radiation Detection. Journal of Low Temperature Physics, 2019, 194, 443-452.	0.6	193

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19	Magnetic Dipole Microwave Emission from Dust Grains. <i>Astrophysical Journal</i> , 1999, 512, 740-754.	1.6	188
20	DENSITY STUDIES OF MHD INTERSTELLAR TURBULENCE: STATISTICAL MOMENTS, CORRELATIONS AND BISPECTRUM. <i>Astrophysical Journal</i> , 2009, 693, 250-266.	1.6	173
21	The Anisotropy of Electron Magnetohydrodynamic Turbulence. <i>Astrophysical Journal</i> , 2004, 615, L41-L44.	1.6	170
22	Production of the large scale superluminal ejections of the microquasar GRS 1915+105 by violent magnetic reconnection. <i>Astronomy and Astrophysics</i> , 2005, 441, 845-853.	2.1	169
23	Magnetic Field Structure and Stochastic Reconnection in a Partially Ionized Gas. <i>Astrophysical Journal</i> , 2004, 603, 180-197.	1.6	167
24	Studies of Regular and Random Magnetic Fields in the ISM: Statistics of Polarization Vectors and the Chandrasekhar-Fermi Technique. <i>Astrophysical Journal</i> , 2008, 679, 537-551.	1.6	164
25	Cosmic-Ray Propagation: Nonlinear Diffusion Parallel and Perpendicular to Mean Magnetic Field. <i>Astrophysical Journal</i> , 2008, 673, 942-953.	1.6	160
26	VELOCITY FIELD OF COMPRESSIBLE MAGNETOHYDRODYNAMIC TURBULENCE: WAVELET DECOMPOSITION AND MODE SCALINGS. <i>Astrophysical Journal</i> , 2010, 720, 742-756.	1.6	149
27	FAST MAGNETIC RECONNECTION AND SPONTANEOUS STOCHASTICITY. <i>Astrophysical Journal</i> , 2011, 743, 51.	1.6	148
28	Acceleration of primary and secondary particles in galaxy clusters by compressible MHD turbulence: from radio haloes to gamma-rays. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 410, 127-142.	1.6	145
29	Enhancement and Suppression of Heat Transfer by MHD Turbulence. <i>Astrophysical Journal</i> , 2006, 645, L25-L28.	1.6	141
30	Velocity and Density Spectra of the Small Magellanic Cloud. <i>Astrophysical Journal</i> , 2001, 551, L53-L56.	1.6	141
31	Statistical Properties of Galactic Starlight Polarization. <i>Astrophysical Journal</i> , 2002, 564, 762-772.	1.6	135
32	Velocity Modification of the Power Spectrum from an Absorbing Medium. <i>Astrophysical Journal</i> , 2004, 616, 943-965.	1.6	133
33	Dust Dynamics in Compressible Magnetohydrodynamic Turbulence. <i>Astrophysical Journal</i> , 2004, 616, 895-911.	1.6	133
34	Radiative torque alignment: essential physical processes. <i>Monthly Notices of the Royal Astronomical Society</i> , 2008, 388, 117-143.	1.6	131
35	Low-Mach-number turbulence in interstellar gas revealed by radio polarization gradients. <i>Nature</i> , 2011, 478, 214-217.	13.7	130
36	3D turbulent reconnection: Theory, tests, and astrophysical implications. <i>Physics of Plasmas</i> , 2020, 27, .	0.7	128

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37	Density Scaling and Anisotropy in Supersonic Magnetohydrodynamic Turbulence. <i>Astrophysical Journal</i> , 2005, 624, L93-L96.	1.6	124
38	The Efficiency of Grain Alignment in Dense Interstellar Clouds: a Reassessment of Constraints from Near-Infrared Polarization. <i>Astrophysical Journal</i> , 2008, 674, 304-315.	1.6	123
39	TURBULENCE-INDUCED MAGNETIC FIELDS AND STRUCTURE OF COSMIC RAY MODIFIED SHOCKS. <i>Astrophysical Journal</i> , 2009, 707, 1541-1549.	1.6	121
40	MAGNETOHYDRODYNAMIC SIMULATIONS OF RECONNECTION AND PARTICLE ACCELERATION: THREE-DIMENSIONAL EFFECTS. <i>Astrophysical Journal</i> , 2011, 735, 102.	1.6	117
41	SIMULATIONS OF ELECTRON MAGNETOHYDRODYNAMIC TURBULENCE. <i>Astrophysical Journal</i> , 2009, 701, 236-252.	1.6	115
42	Magnetic fields via polarimetry: progress on grain alignment theory. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2003, 79-80, 881-902.	1.1	114
43	GROWTH OF MAGNETIC FIELDS INDUCED BY TURBULENT MOTIONS. <i>Astrophysical Journal</i> , 2009, 693, 1449-1461.	1.6	113
44	Strong Imbalanced Turbulence. <i>Astrophysical Journal</i> , 2008, 682, 1070-1075.	1.6	110
45	A MODEL OF ACCELERATION OF ANOMALOUS COSMIC RAYS BY RECONNECTION IN THE HELIOSHEATH. <i>Astrophysical Journal</i> , 2009, 703, 8-21.	1.6	110
46	Velocity Centroids as Tracers of the Turbulent Velocity Statistics. <i>Astrophysical Journal</i> , 2005, 631, 320-350.	1.6	109
47	Magnetically Limited X-Ray Filaments in Young Supernova Remnants. <i>Astrophysical Journal</i> , 2005, 626, L101-L104.	1.6	109
48	Studying Turbulence Using Doppler-broadened Lines: Velocity Coordinate Spectrum. <i>Astrophysical Journal</i> , 2006, 652, 1348-1365.	1.6	106
49	The Turbulent Warm Ionized Medium: Emission Measure Distribution and MHD Simulations. <i>Astrophysical Journal</i> , 2008, 686, 363-378.	1.6	106
50	THE ROLE OF TURBULENT MAGNETIC RECONNECTION IN THE FORMATION OF ROTATIONALLY SUPPORTED PROTOSTELLAR DISKS. <i>Astrophysical Journal</i> , 2012, 747, 21.	1.6	106
51	Astrophysical Hydromagnetic Turbulence. <i>Space Science Reviews</i> , 2013, 178, 163-200.	3.7	101
52	On the Efficiency of Grain Alignment in Dark Clouds. <i>Astrophysical Journal</i> , 1997, 490, 273-280.	1.6	100
53	IMPROVING THE MODEL OF EMISSION FROM SPINNING DUST: EFFECTS OF GRAIN WOBBLING AND TRANSIENT SPIN-UP. <i>Astrophysical Journal</i> , 2010, 715, 1462-1485.	1.6	100
54	A UNIFIED MODEL OF GRAIN ALIGNMENT: RADIATIVE ALIGNMENT OF INTERSTELLAR GRAINS WITH MAGNETIC INCLUSIONS. <i>Astrophysical Journal</i> , 2016, 831, 159.	1.6	97

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55	The energy source of the filaments around the giant galaxy NGC 1275. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 417, 172-177.	1.6	96
56	Radiative Grain Alignment in Protoplanetary Disks: Implications for Polarimetric Observations. <i>Astrophysical Journal</i> , 2017, 839, 56.	1.6	96
57	The LiteBIRD Satellite Mission: Sub-Kelvin Instrument. <i>Journal of Low Temperature Physics</i> , 2018, 193, 1048-1056.	0.6	96
58	Obtaining Spectra of Turbulent Velocity from Observations. <i>Space Science Reviews</i> , 2009, 143, 357-385.	3.7	95
59	VELOCITY GRADIENTS AS A TRACER FOR MAGNETIC FIELDS. <i>Astrophysical Journal</i> , 2017, 835, 41.	1.6	95
60	Polarization Intermittency and Its Influence on MHD Turbulence. <i>Astrophysical Journal</i> , 2006, 640, L175-L178.	1.6	92
61	VELOCITY SPECTRUM FOR H I AT HIGH LATITUDES. <i>Astrophysical Journal</i> , 2010, 714, 1398-1406.	1.6	91
62	Turbulence, Magnetic Reconnection in Turbulent Fluids and Energetic Particle Acceleration. <i>Space Science Reviews</i> , 2012, 173, 557-622.	3.7	91
63	Particle Acceleration in Turbulence and Weakly Stochastic Reconnection. <i>Physical Review Letters</i> , 2012, 108, 241102.	2.9	89
64	SUPERDIFFUSION OF COSMIC RAYS: IMPLICATIONS FOR COSMIC RAY ACCELERATION. <i>Astrophysical Journal</i> , 2014, 784, 38.	1.6	89
65	Grain alignment by radiative torques in special conditions and implications. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 438, 680-703.	1.6	89
66	New Regime of Magnetohydrodynamic Turbulence: Cascade below the Viscous Cutoff. <i>Astrophysical Journal</i> , 2002, 566, L49-L52.	1.6	88
67	DIFFUSION OF MAGNETIC FIELD AND REMOVAL OF MAGNETIC FLUX FROM CLOUDS VIA TURBULENT RECONNECTION. <i>Astrophysical Journal</i> , 2010, 714, 442-461.	1.6	87
68	Stochastic reacceleration of relativistic electrons by turbulent reconnection: a mechanism for cluster-scale radio emission?. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 458, 2584-2595.	1.6	87
69	STATISTICAL DESCRIPTION OF SYNCHROTRON INTENSITY FLUCTUATIONS: STUDIES OF ASTROPHYSICAL MAGNETIC TURBULENCE. <i>Astrophysical Journal</i> , 2012, 747, 5.	1.6	86
70	Subsonic Mechanical Alignment of Irregular Grains. <i>Astrophysical Journal</i> , 2007, 669, L77-L80.	1.6	84
71	Tracing Magnetic Fields with Spectroscopic Channel Maps. <i>Astrophysical Journal</i> , 2018, 853, 96.	1.6	84
72	GRAIN ALIGNMENT INDUCED BY RADIATIVE TORQUES: EFFECTS OF INTERNAL RELAXATION OF ENERGY AND COMPLEX RADIATION FIELD. <i>Astrophysical Journal</i> , 2009, 697, 1316-1333.	1.6	83

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73	MAGNETIZATION OF CLOUD CORES AND ENVELOPES AND OTHER OBSERVATIONAL CONSEQUENCES OF RECONNECTION DIFFUSION. <i>Astrophysical Journal</i> , 2012, 757, 154.	1.6	83
74	Turbulent reconnection and its implications. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2015, 373, 20140144.	1.6	83
75	Grain Alignment by Radiation in Dark Clouds and Cores. <i>Astrophysical Journal</i> , 2005, 631, 361-370.	1.6	82
76	COMPARISON OF SPECTRAL SLOPES OF MAGNETOHYDRODYNAMIC AND HYDRODYNAMIC TURBULENCE AND MEASUREMENTS OF ALIGNMENT EFFECTS. <i>Astrophysical Journal</i> , 2009, 702, 1190-1198.	1.6	82
77	Thermal Conduction in Magnetized Turbulent Gas. <i>Astrophysical Journal</i> , 2003, 589, L77-L80.	1.6	81
78	THE COLUMN DENSITY VARIANCE- $\{cal M\}_s$ RELATIONSHIP. <i>Astrophysical Journal Letters</i> , 2012, 755, L19.	3.0	81
79	Tracing Interstellar Magnetic Field Using Velocity Gradient Technique: Application to Atomic Hydrogen Data. <i>Astrophysical Journal Letters</i> , 2017, 837, L24.	3.0	80
80	Grain Alignment and Polarized Emission from Magnetized T Tauri Disks. <i>Astrophysical Journal</i> , 2007, 669, 1085-1097.	1.6	78
81	SCALING LAWS AND DIFFUSE LOCALITY OF BALANCED AND IMBALANCED MAGNETOHYDRODYNAMIC TURBULENCE. <i>Astrophysical Journal Letters</i> , 2010, 722, L110-L113.	3.0	77
82	Turbulent Cooling Flows in Molecular Clouds. <i>Astrophysical Journal</i> , 1998, 507, L157-L160.	1.6	74
83	Cosmic ray scattering in compressible turbulence. <i>Monthly Notices of the Royal Astronomical Society</i> , 2006, 373, 1195-1202.	1.6	72
84	Nuclear Spin Relaxation within Interstellar Grains. <i>Astrophysical Journal</i> , 1999, 520, L67-L70.	1.6	71
85	Resonance Paramagnetic Relaxation and Alignment of Small Grains. <i>Astrophysical Journal</i> , 2000, 536, L15-L18.	1.6	71
86	Scaling Relations of Compressible MHD Turbulence. <i>Astrophysical Journal</i> , 2007, 666, L69-L72.	1.6	71
87	MAGNETIC RECONNECTION AS THE CAUSE OF COSMIC RAY EXCESS FROM THE HELIOSPHERIC TAIL. <i>Astrophysical Journal</i> , 2010, 722, 188-196.	1.6	70
88	Grain Acceleration by Magnetohydrodynamic Turbulence: Gyroresonance Mechanism. <i>Astrophysical Journal</i> , 2003, 592, L33-L36.	1.6	69
89	Gold-type mechanisms of grain alignment. <i>Monthly Notices of the Royal Astronomical Society</i> , 1994, 268, 713-723.	1.6	68
90	RADIATIVE TORQUES ALIGNMENT IN THE PRESENCE OF PINWHEEL TORQUES. <i>Astrophysical Journal</i> , 2009, 695, 1457-1476.	1.6	68

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91	TSALLIS STATISTICS AS A TOOL FOR STUDYING INTERSTELLAR TURBULENCE. <i>Astrophysical Journal</i> , 2010, 710, 125-132.	1.6	68
92	PROPERTIES OF INTERSTELLAR TURBULENCE FROM GRADIENTS OF LINEAR POLARIZATION MAPS. <i>Astrophysical Journal</i> , 2012, 749, 145.	1.6	68
93	SPECTRUM AND ANISOTROPY OF TURBULENCE FROM MULTI-FREQUENCY MEASUREMENT OF SYNCHROTRON POLARIZATION. <i>Astrophysical Journal</i> , 2016, 818, 178.	1.6	68
94	OBSERVATIONAL DIAGNOSTICS OF SELF-GRAVITATING MHD TURBULENCE IN GIANT MOLECULAR CLOUDS. <i>Astrophysical Journal</i> , 2015, 808, 48.	1.6	67
95	Ordinary and Viscosity-damped Magnetohydrodynamic Turbulence. <i>Astrophysical Journal</i> , 2003, 595, 812-823.	1.6	65
96	Statistics of Reconnection-driven Turbulence. <i>Astrophysical Journal</i> , 2017, 838, 91.	1.6	65
97	Particle Acceleration by Magnetohydrodynamic Turbulence. <i>Astrophysical Journal</i> , 2006, 638, 811-826.	1.6	64
98	Reconnection studies under different types of turbulence driving. <i>Nonlinear Processes in Geophysics</i> , 2012, 19, 297-314.	0.6	64
99	HAWC+/SOFIA Multiwavelength Polarimetric Observations of OMC-1. <i>Astrophysical Journal</i> , 2019, 872, 187.	1.6	64
100	Grain Dynamics in Magnetized Interstellar Gas. <i>Astrophysical Journal</i> , 2002, 566, L105-L108.	1.6	64
101	Alignment of Irregular Grains by Mechanical Torques. <i>Astrophysical Journal</i> , 2018, 852, 129.	1.6	63
102	Barnett Relaxation in Thermally Rotating Grains. <i>Astrophysical Journal</i> , 1997, 484, 230-237.	1.6	62
103	Polarization of Dust Emission in Clumpy Molecular Clouds and Cores. <i>Astrophysical Journal</i> , 2007, 663, 1055-1068.	1.6	62
104	Thermal Flipping and Thermal Trapping: New Elements in Grain Dynamics. <i>Astrophysical Journal</i> , 1999, 516, L37-L40.	1.6	62
105	STRUCTURE OF STATIONARY STRONG IMBALANCED TURBULENCE. <i>Astrophysical Journal</i> , 2009, 702, 460-471.	1.6	61
106	SPINNING DUST EMISSION: EFFECTS OF IRREGULAR GRAIN SHAPE, TRANSIENT HEATING, AND COMPARISON WITH WILKINSON MICROWAVE ANISOTROPY PROBE RESULTS. <i>Astrophysical Journal</i> , 2011, 741, 87.	1.6	61
107	The Interaction of Relativistic Spacecrafts with the Interstellar Medium. <i>Astrophysical Journal</i> , 2017, 837, 5.	1.6	61
108	Reconnection in the Interstellar Medium. <i>Astrophysical Journal</i> , 1999, 511, 193-203.	1.6	61

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109	Statistics of Velocity from Spectral Data: Modified Velocity Centroids. <i>Astrophysical Journal</i> , 2003, 592, L37-L40.	1.6	59
110	Studying Velocity Turbulence from Doppler-broadened Absorption Lines: Statistics of Optical Depth Fluctuations. <i>Astrophysical Journal</i> , 2008, 686, 350-362.	1.6	59
111	Velocity statistics from spectral line data: effects of density-velocity correlations, magnetic field and shear. <i>Monthly Notices of the Royal Astronomical Society</i> , 2003, 342, 325-336.	1.6	58
112	NUMERICAL STUDY OF COSMIC RAY DIFFUSION IN MAGNETOHYDRODYNAMIC TURBULENCE. <i>Astrophysical Journal</i> , 2011, 728, 60.	1.6	58
113	TURBULENT DYNAMO IN A CONDUCTING FLUID AND A PARTIALLY IONIZED GAS. <i>Astrophysical Journal</i> , 2016, 833, 215.	1.6	58
114	Distribution of Velocity Gradient Orientations: Mapping Magnetization with the Velocity Gradient Technique. <i>Astrophysical Journal</i> , 2018, 865, 46.	1.6	58
115	MAGNETIC FIELD AMPLIFICATION AND EVOLUTION IN TURBULENT COLLISIONLESS MAGNETOHYDRODYNAMICS: AN APPLICATION TO THE INTRACLUSTER MEDIUM. <i>Astrophysical Journal</i> , 2014, 781, 84.	1.6	57
116	Heliosheath Processes and the Structure of the Heliopause: Modeling Energetic Particles, Cosmic Rays, and Magnetic Fields. <i>Space Science Reviews</i> , 2017, 212, 193-248.	3.7	57
117	Alignment of Dust with Magnetic Inclusions: Radiative Torques and Superparamagnetic Barnett and Nuclear Relaxation. <i>Astrophysical Journal</i> , 2008, 676, L25-L28.	1.6	56
118	Magnetic field morphology in interstellar clouds with the velocity gradient technique. <i>Nature Astronomy</i> , 2019, 3, 776-782.	4.2	56
119	Emissivity Statistics in Turbulent Compressible Magnetohydrodynamic Flows and the Density-Velocity Correlation. <i>Astrophysical Journal</i> , 2001, 555, 130-138.	1.6	55
120	DAMPING OF MAGNETOHYDRODYNAMIC TURBULENCE IN PARTIALLY IONIZED PLASMA: IMPLICATIONS FOR COSMIC RAY PROPAGATION. <i>Astrophysical Journal</i> , 2016, 826, 166.	1.6	52
121	DAMPING OF ALFVÉN WAVES BY TURBULENCE AND ITS CONSEQUENCES: FROM COSMIC-RAY STREAMING TO LAUNCHING WINDS. <i>Astrophysical Journal</i> , 2016, 833, 131.	1.6	52
122	THE TURBULENCE VELOCITY POWER SPECTRUM OF NEUTRAL HYDROGEN IN THE SMALL MAGELLANIC CLOUD. <i>Astrophysical Journal</i> , 2015, 810, 33.	1.6	51
123	VELOCITY ANISOTROPY AS A DIAGNOSTIC OF THE MAGNETIZATION OF THE INTERSTELLAR MEDIUM AND MOLECULAR CLOUDS. <i>Astrophysical Journal</i> , 2011, 740, 117.	1.6	49
124	THE TURBULENCE POWER SPECTRUM IN OPTICALLY THICK INTERSTELLAR CLOUDS. <i>Astrophysical Journal</i> , 2013, 771, 123.	1.6	49
125	TURBULENCE SPECTRA FROM DOPPLER-BROADENED SPECTRAL LINES: TESTS OF THE VELOCITY CHANNEL ANALYSIS AND VELOCITY COORDINATE SPECTRUM TECHNIQUES. <i>Astrophysical Journal</i> , 2009, 693, 1074-1083.	1.6	48
126	MEASURING THE ALFVÉNIC NATURE OF THE INTERSTELLAR MEDIUM: VELOCITY ANISOTROPY REVISITED. <i>Astrophysical Journal</i> , 2014, 790, 130.	1.6	47

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127	Cosmic ray transport in starburst galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 493, 2817-2833.	1.6	47
128	Gold Alignment and Internal Dissipation. <i>Astrophysical Journal</i> , 1997, 483, 296-308.	1.6	46
129	Disc formation in turbulent cloud cores: is magnetic flux loss necessary to stop the magnetic braking catastrophe or not?. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 429, 3371-3378.	1.6	46
130	Inelastic dissipation in a freely rotating body: application to cosmic dust alignment. <i>Monthly Notices of the Royal Astronomical Society</i> , 1999, 303, 673-684.	1.6	45
131	Generation of compressible modes in MHD turbulence. <i>Theoretical and Computational Fluid Dynamics</i> , 2005, 19, 127-157.	0.9	45
132	Magnetic reconnection in the presence of externally driven and self-generated turbulence. <i>Physics of Plasmas</i> , 2013, 20, .	0.7	45
133	POLARIZATION OF MAGNETIC DIPOLE EMISSION AND SPINNING DUST EMISSION FROM MAGNETIC NANOPARTICLES. <i>Astrophysical Journal</i> , 2016, 821, 91.	1.6	45
134	Davis-Greenstein alignment of oblate spheroidal grains. <i>Monthly Notices of the Royal Astronomical Society</i> , 1999, 305, 615-630.	1.6	44
135	STRINGENT LIMITS ON THE POLARIZED SUBMILLIMETER EMISSION FROM PROTOPLANETARY DISKS. <i>Astrophysical Journal</i> , 2009, 704, 1204-1217.	1.6	44
136	HIERARCHICAL STRUCTURE OF MAGNETOHYDRODYNAMIC TURBULENCE IN POSITION-POSITION-VELOCITY SPACE. <i>Astrophysical Journal</i> , 2013, 770, 141.	1.6	43
137	On the Formation of Density Filaments in the Turbulent Interstellar Medium. <i>Astrophysical Journal</i> , 2019, 878, 157.	1.6	42
138	Extending velocity channel analysis for studying turbulence anisotropies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 461, 1227-1259.	1.6	41
139	Improving the accuracy of magnetic field tracing by velocity gradients: principal component analysis. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 480, 1333-1339.	1.6	40
140	Gradients of Synchrotron Polarization: Tracing 3D Distribution of Magnetic Fields. <i>Astrophysical Journal</i> , 2018, 865, 59.	1.6	40
141	Statistics of velocity centroids: effects of density-velocity correlations and non-Gaussianity. <i>Monthly Notices of the Royal Astronomical Society</i> , 2007, 381, 1733-1744.	1.6	39
142	COSMIC-RAY STREAMING FROM SUPERNOVA REMNANTS AND GAMMA-RAY EMISSION FROM NEARBY MOLECULAR CLOUDS. <i>Astrophysical Journal</i> , 2012, 745, 140.	1.6	39
143	Relation of astrophysical turbulence and magnetic reconnection. <i>Physics of Plasmas</i> , 2012, 19, .	0.7	39
144	Reconnection Diffusion in Turbulent Fluids and Its Implications for Star Formation. <i>Space Science Reviews</i> , 2014, 181, 1-59.	3.7	39

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145	Topology of Neutral Hydrogen within the Small Magellanic Cloud. <i>Astrophysical Journal</i> , 2008, 688, 1021-1028.	1.6	38
146	CONSTRAINT ON THE POLARIZATION OF ELECTRIC DIPOLE EMISSION FROM SPINNING DUST. <i>Astrophysical Journal</i> , 2013, 779, 152.	1.6	38
147	EVIDENCE FOR H ₂ FORMATION DRIVEN DUST GRAIN ALIGNMENT IN IC 63. <i>Astrophysical Journal</i> , 2013, 775, 84.	1.6	37
148	ALFVÉNIC TURBULENCE BEYOND THE AMBIPOLAR DIFFUSION SCALE. <i>Astrophysical Journal</i> , 2015, 805, 118.	1.6	37
149	Synchrotron Intensity Gradients as Tracers of Interstellar Magnetic Fields. <i>Astrophysical Journal</i> , 2017, 842, 30.	1.6	37
150	Role of cosmic-ray streaming and turbulent damping in driving galactic winds. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 490, 1271-1282.	1.6	37
151	Damping of Magnetohydrodynamic Turbulence in Solar Flares. <i>Astrophysical Journal</i> , 2006, 644, 603-612.	1.6	36
152	INTERSTELLAR SONIC AND ALFVÉNIC MACH NUMBERS AND THE TSALLIS DISTRIBUTION. <i>Astrophysical Journal</i> , 2011, 736, 60.	1.6	36
153	Magnetohydrodynamic Turbulence as a Foreground for Cosmic Microwave Background Studies. <i>Astrophysical Journal</i> , 2002, 575, L63-L66.	1.6	36
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