Andreas Shalchi

List of Publications by Year
in descending order

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161	6,551	76326	69250
papers	citations	40 h-index	77 g-index

162	162	162	5592
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	An Exceptional Very High Energy Gamma-Ray Flare of PKS 2155-304. Astrophysical Journal, 2007, 664, L71-L74.	4.5	644
2	Energy Spectrum of Cosmic-Ray Electrons at TeV Energies. Physical Review Letters, 2008, 101, 261104.	7.8	516
3	Fast Variability of Tera-Electron Volt Â Rays from the Radio Galaxy M87. Science, 2006, 314, 1424-1427.	12.6	277
4	Nonlinear Cosmic Ray Diffusion Theories. Astrophysics and Space Science Library, 2009, , .	2.7	265
5	Search for a Dark Matter Annihilation Signal from the Galactic Center Halo with H.E.S.S.. Physical Review Letters, 2011, 106, 161301.	7.8	209
6	DISCOVERY OF VERY HIGH ENERGY Î³-RAY EMISSION FROM CENTAURUS A WITH H.E.S.S.. Astrophysical Journal, 2009, 695, L40-L44.	4.5	177
7	Radio Imaging of the Very-High-Energy Î³-Ray Emission Region in the Central Engine of a Radio Galaxy. Science, 2009, 325, 444-448.	12.6	175
8	Detection of Gamma Rays from a Starburst Galaxy. Science, 2009, 326, 1080-1082.	12.6	172
9	H.E.S.S. Observations of the Supernova Remnant RX J0852.0â^'4622: Shellâ€Type Morphology and Spectrum of a Widely Extended Very High Energy Gammaâ€Ray Source. Astrophysical Journal, 2007, 661, 236-249.	4.5	167
10	A UNIFIED PARTICLE DIFFUSION THEORY FOR CROSS-FIELD SCATTERING: SUBDIFFUSION, RECOVERY OF DIFFUSION, AND DIFFUSION IN THREE-DIMENSIONAL TURBULENCE. Astrophysical Journal Letters, 2010, 720, L127-L130.	8.3	151
11	SIMULTANEOUS OBSERVATIONS OF PKS 2155â€“304 WITH HESS, FERMI , RXTE , AND ATOM: SPECTRAL ENERGY DISTRIBUTIONS AND VARIABILITY IN A LOW STATE. Astrophysical Journal, 2009, 696, L150-L155.	4.5	144
12	Nonlinear Parallel and Perpendicular Diffusion of Charged Cosmic Rays in Weak Turbulence. Astrophysical Journal, 2004, 616, 617-629.	4.5	141
13	Analytic Forms of the Perpendicular Diffusion Coefficient in Magnetostatic Turbulence. Astrophysical Journal, 2004, 604, 675-686.	4.5	118
14	Random walk of magnetic field lines: Subdiffusive, diffusive, and superdiffusive regimes. Advances in Space Research, 2009, 43, 1429-1435.	2.6	99
15	A new theory for perpendicular transport of cosmic rays. Astronomy and Astrophysics, 2007, 470, 405-409.	5.1	98
16	DISCOVERY OF GAMMA-RAY EMISSION FROM THE SHELL-TYPE SUPERNOVA REMNANT RCW 86 WITH HESS. Astrophysical Journal, 2009, 692, 1500-1505.	4.5	96
17	Limits on an Energy Dependence of the Speed of Light from a Flare of the Active Galaxy PKS 2155-304. Physical Review Letters, 2008, 101, 170402.	7.8	95
18	Search for Lorentz Invariance breaking with a likelihood fit of the PKS 2155-304 flare data taken on MJD 53944. Astroparticle Physics, 2011, 34, 738-747.	4.3	94

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19	Parallel and Perpendicular Transport of Heliospheric Cosmic Rays in an Improved Dynamical Turbulence Model. Astrophysical Journal, 2006, 642, 230-243.	4.5	91
20	Second-order quasilinear theory of cosmic ray transport. Physics of Plasmas, 2005, 12, 052905.	1.9	89
21	Observations of the Sagittarius dwarf galaxy by the HESS experiment and search for a dark matter signal. Astroparticle Physics, 2008, 29, 55-62.	4.3	87
22	Analytic forms of the perpendicular cosmic ray diffusion coefficient for an arbitrary turbulence spectrum and applications on transport of Galactic protons and acceleration atÂinterplanetary shocks. Astrophysics and Space Science, 2010, 325, 99-111.	1.4	86
23	Extended nonlinear guiding center theory of perpendicular diffusion. Astronomy and Astrophysics, 2006, 453, L43-L46.	5.1	84
24	Nonlinear guiding center theory of perpendicular diffusion: General properties and comparison with observation. Geophysical Research Letters, 2004, 31, n/a-n/a.	4.0	74
25	H.E.S.S. constraints on dark matter annihilations towards the sculptor and carina dwarf galaxies. Astroparticle Physics, 2011, 34, 608-616.	4.3	74
26	Particle acceleration and transport at an oblique CME-driven shock. Advances in Space Research, 2012, 49, 1067-1075.	2.6	66
27	Analytical description of stochastic field-line wandering in magnetic turbulence. Physics of Plasmas, 2007, 14, .	1.9	63
28	PITCH-ANGLE DIFFUSION COEFFICIENTS OF CHARGED PARTICLES FROM COMPUTER SIMULATIONS. Astrophysical Journal, 2009, 707, 61-66.	4.5	60
29	Analytical description of nonlinear cosmic ray scattering: isotropic and quasilinear regimes of pitch-angle diffusion. Astronomy and Astrophysics, 2009, 507, 589-597.	5.1	58
30	Perpendicular Transport of Energetic Particles in Magnetic Turbulence. Space Science Reviews, 2020, 216, 1.	8.1	56
31	Localizing the VHE Î³-ray source at the Galactic Centre. Monthly Notices of the Royal Astronomical Society, 2010, 402, 1877-1882.	4.4	55
32	Solving the 90Â° Scattering Problem in Isotropic Turbulence. Astrophysical Journal, 2008, 685, L165-L168.	4.5	50
33	Cosmicâ€Ray Diffusion Approximation with Weak Adiabatic Focusing. Astrophysical Journal, 2008, 686, 292-302.	4.5	48
34	Random walk of magnetic field-lines for different values of the energy range spectral index. Physics of Plasmas, 2007, 14, .	1.9	47
35	Perpendicular diffusion of energetic particles in collisionless plasmas. Physics of Plasmas, 2015, 22, .	1.9	44
36	Time-dependent transport and subdiffusion of cosmic rays. Journal of Geophysical Research, 2005, 110, .	3.3	43

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37	Analytical investigation of the two-dimensional cosmic ray Fokker-Planck equation. Astronomy and Astrophysics, 2006, 448, 809-816.	5.1	42
38	Diffusive shock acceleration at interplanetary perpendicular shock waves: Influence of the large scale structure of turbulence on the maximum particle energy. Advances in Space Research, 2010, 46, 1208-1217.	2.6	42
39	Nonlinear Guiding Center Theory of Perpendicular Diffusion: Derivation from the Newtonâ€Lorentz Equation. Astrophysical Journal, 2008, 685, 971-975.	4.5	41
40	COSMIC RAY ACCELERATION AT PERPENDICULAR SHOCKS IN SUPERNOVA REMNANTS. Astrophysical Journal, 2014, 792, 133.	4.5	41
41	SCALING THEORY FOR CROSS-FIELD TRANSPORT OF COSMIC RAYS IN TURBULENT FIELDS. Astrophysical Journal, 2010, 711, 997-1007.	4.5	40
42	Quasilinear perpendicular diffusion of cosmic rays in weak dynamical turbulence. Astronomy and Astrophysics, 2004, 420, 821-832.	5.1	39
43	The Parallel Mean Free Path of Heliospheric Cosmic Rays in Composite Slab/Twoâ€dimensional Geometry. I. The Damping Model of Dynamical Turbulence. Astrophysical Journal, 2004, 604, 861-873.	4.5	39
44	Evidence for the Nonlinear Transport of Galactic Cosmic Rays. Astrophysical Journal, 2005, 626, L97-L99.	4.5	39
45	DRIFT COEFFICIENTS OF CHARGED PARTICLES IN TURBULENT MAGNETIC FIELDS. Astrophysical Journal, 2012, 744, 125.	4.5	39
46	Comparison between test-particle simulations and test-particle theories for cosmic ray transport: I. Magnetostatic turbulence. Journal of Physics G: Nuclear and Particle Physics, 2006, 32, 809-833.	3.6	38
47	A SEARCH FOR A DARK MATTER ANNIHILATION SIGNAL TOWARD THE CANIS MAJOR OVERDENSITY WITH H.E.S.S.. Astrophysical Journal, 2009, 691, 175-181.	4.5	38
48	NUMERICAL TEST OF IMPROVED NONLINEAR GUIDING CENTER THEORIES. Astrophysical Journal, 2011, 735, 92.	4.5	38
49	PERPENDICULAR DIFFUSION OF COSMIC RAYS FOR A GOLDREICH-SRIDHAR SPECTRUM. Astrophysical Journal, 2010, 725, 2117-2127.	4.5	35
50	Applicability of the Taylor-Green-Kubo formula in particle diffusion theory. Physical Review E, 2011, 83, 046402.	2.1	34
51	Nonlinear Guiding Center Theory of Perpendicular Diffusion in Dynamical Turbulence. Astrophysical Journal, 2004, 615, 805-812.	4.5	30
52	The Cosmicâ€Ray Diffusion Tensor in Nonaxisymmetric Turbulence. Astrophysical Journal, 2008, 677, 671-675.	4.5	29
53	A GENERALIZED NONLINEAR GUIDING CENTER THEORY FOR THE COLLISIONLESS ANOMALOUS PERPENDICULAR DIFFUSION OF COSMIC RAYS. Astrophysical Journal, 2010, 716, 671-692.	4.5	29
54	Random walk of magnetic field lines: analytical theory versus simulations. Astrophysics and Space Science, 2010, 330, 279-287.	1.4	26

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55	On the diffusivity of cosmic ray transport. Journal of Geophysical Research, 2010, 115, .	3.3	26
56	On the widespread use of the Corrsin hypothesis in diffusion theories. Physics of Plasmas, 2010, 17, .	1.9	25
57	IMPROVED ANALYTICAL DESCRIPTION OF PARALLEL DIFFUSION WITH ADIABATIC FOCUSING. Astrophysical Journal, 2011, 728, 113.	4.5	24
58	SIMPLE ANALYTICAL FORMS OF THE PERPENDICULAR DIFFUSION COEFFICIENT FOR TWO-COMPONENT TURBULENCE. I. MAGNETOSTATIC TURBULENCE. Astrophysical Journal, 2013, 774, 7.	4.5	24
59	Magnetic Field Line Random Walk in Twoâ€dimensional Turbulence: Markovian Diffusion versus Superdiffusion. Contributions To Plasma Physics, 2011, 51, 920-930.	1.1	23
60	Time-dependent perpendicular transport of energetic particles in magnetic turbulence with transverse complexity. Physics of Plasmas, 2017, 24, .	1.9	23
61	The influence of different turbulence models on the diffusion coefficients of energetic particles. Journal of Geophysical Research: Space Physics, 2015, 120, 4095-4111.	2.4	22
62	Comparison between test-particle simulations and test-particle theories for cosmic ray transport: II. Plasma wave turbulence. Journal of Physics G: Nuclear and Particle Physics, 2006, 32, 1045-1059.	3.6	21
63	PERPENDICULAR DIFFUSION OF ENERGETIC PARTICLES IN NOISY REDUCED MAGNETOHYDRODYNAMIC TURBULENCE. Astrophysical Journal, 2014, 794, 56.	4.5	21
64	DETAILED NUMERICAL INVESTIGATION OF THE BOHM LIMIT IN COSMIC RAY DIFFUSION THEORY. Astrophysical Journal, 2014, 785, 31.	4.5	21
65	Heuristic Description of Perpendicular Diffusion of Energetic Particles in Astrophysical Plasmas. Astrophysical Journal Letters, 2019, 881, L27.	8.3	21
66	Field line wandering and perpendicular scattering of charged particles in AlfvÃ©nic slab turbulence. Astronomy and Astrophysics, 2007, 475, 415-420.	5.1	20
67	Simulating heliospheric and solar particle diffusion using the Parker spiral geometry. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	20
68	Numerical investigation of the influence of large turbulence scales on the parallel and perpendicular transport of cosmic rays. Advances in Space Research, 2012, 49, 1643-1652.	2.6	19
69	Pitch-angle scattering in pure two-dimensional and two-component turbulence. Astronomy and Astrophysics, 2008, 483, 371-381.	5.1	18
70	Analytical description for field-line wandering in strong magnetic turbulence. Physical Review E, 2009, 80, 066408.	2.1	18
71	Relation between different theories for cosmic ray cross field diffusion. Advances in Space Research, 2009, 44, 1326-1336.	2.6	18
72	Diffusive shock acceleration in supernova remnants: On the validity of the Bohm limit. Astroparticle Physics, 2009, 31, 237-242.	4.3	17

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73	Plasma-particle interaction for strong stochastic magnetic fields: Isotropic and anisotropic scattering regimes. Physical Review D, 2009, 79, .	4.7	17
74	Test-particle transport: higher-order correlations and time-dependent diffusion. Plasma Physics and Controlled Fusion, 2011, 53, 105016.	2.1	17
75	Charged-particle transport in space plasmas: an improved theory for cross-field scattering. Plasma Physics and Controlled Fusion, 2011, 53, 074010.	2.1	17
76	THEORETICAL EXPLANATION OF THE COSMIC-RAY PERPENDICULAR DIFFUSION COEFFICIENT IN THE NEARBY STARBURST GALAXY NGC 253. Astrophysical Journal, 2013, 764, 37.	4.5	17
77	SIMULATIONS OF ENERGETIC PARTICLES INTERACTING WITH DYNAMICAL MAGNETIC TURBULENCE. Astrophysical Journal, 2016, 817, 136.	4.5	17
78	A New Type of Cosmicâ€Ray Anisotropy from Perpendicular Diffusion. I. Modification of the Spatial Diffusion Tensor and the Diffusionâ€Convection Cosmicâ€Ray Transport Equation. Astrophysical Journal, 2007, 661, 185-189.	4.5	16
79	Compound and perpendicular diffusion of cosmic rays and random walk of the field lines: II. Non-parallel particle transport and drifts. Journal of Physics A: Mathematical and Theoretical, 2009, 42, 235502.	2.1	16
80	Erratum to â€œObservations of the Sagittarius dwarf galaxy by the HESS experiment and search for a dark matter signalâ€•[Astropart. Phys. 29(1) (2008) 55â€“62]. Astroparticle Physics, 2010, 33, 274-275.	4.3	16
81	Nonlinear field line random walk for non-Gaussian statistics. Journal of Physics A: Mathematical and Theoretical, 2009, 42, 345501.	2.1	15
82	Nonlinear propagation, confinement, and anisotropy of ultrahigh-energy cosmic rays in the Galaxy. Physical Review D, 2009, 80, .	4.7	15
83	Simulated energetic particle transport in the interplanetary space: The Palmer consensus revisited. Journal of Geophysical Research: Space Physics, 2013, 118, 642-647.	2.4	15
84	Velocity correlation functions of charged test particles. Journal of Physics G: Nuclear and Particle Physics, 2007, 34, 859-870.	3.6	14
85	Time-dependent test-particle scattering perpendicular to a mean magnetic field: the four transport regimes and validity of the FLRW limit. Plasma Physics and Controlled Fusion, 2008, 50, 055001.	2.1	14
86	Semiâ€“Quasiâ€Linear Description of Cosmicâ€Ray Perpendicular Transport. Astrophysical Journal, 2008, 672, 642-649.	4.5	14
87	Reproducing spacecraft measurements of magnetic correlations in the solar wind. Monthly Notices of the Royal Astronomical Society, 2010, 403, 287-294.	4.4	14
88	Benchmarking the unified nonlinear transport theory for Goldreich-Sridhar turbulence. Astrophysics and Space Science, 2013, 344, 187-191.	1.4	14
89	SIMPLE ANALYTICAL FORMS OF THE PERPENDICULAR DIFFUSION COEFFICIENT FOR TWO-COMPONENT TURBULENCE. II. DYNAMICAL TURBULENCE WITH CONSTANT CORRELATION TIME. Astrophysical Journal, 2014, 780, 138.	4.5	14
90	Perpendicular Diffusion of Energetic Particles: A Complete Analytical Theory. Astrophysical Journal, 2021, 923, 209.	4.5	13

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91	INFLUENCE OF TURBULENCE DISSIPATION EFFECTS ON THE PROPAGATION OF LOW-ENERGY COSMIC RAYS IN THE GALAXY. Astrophysical Journal, 2010, 725, 2110-2116.	4.5	12
92	Velocity correlation functions of charged particles derived from the Fokkerâ€“Planck equation. Advances in Space Research, 2011, 47, 1147-1164.	2.6	12
93	NUMERICAL ANALYSIS OF THE FOKKER-PLANCK EQUATION WITH ADIABATIC FOCUSING: ISOTROPIC PITCH-ANGLE SCATTERING. Astrophysical Journal, 2013, 772, 35.	4.5	12
94	Quasi-linear perpendicular diffusion coefficients of charged cosmic rays calculated directly from the Newton-Lorentz equation. Monthly Notices of the Royal Astronomical Society, 2009, 394, 2089-2097.	4.4	11
95	ON THE DIFFERENT ANALYTICAL RESULTS OBTAINED FOR THE PARALLEL DIFFUSION COEFFICIENT OF COSMIC PARTICLES WITH ADIABATIC FOCUSING. Astrophysical Journal, 2013, 765, 153.	4.5	11
96	Detailed numerical investigation of 90â˜ scattering of energetic particles interacting with magnetic turbulence. Physics of Plasmas, 2014, 21, 042906.	1.9	11
97	Finite gyroradius corrections in the theory of perpendicular diffusion 1. Suppressed velocity diffusion. Advances in Space Research, 2015, 56, 1264-1275.	2.6	11
98	NUMERICAL TEST OF DIFFERENT APPROXIMATIONS USED IN THE TRANSPORT THEORY OF ENERGETIC PARTICLES. Astrophysical Journal, 2016, 823, 23.	4.5	11
99	Time-dependent Perpendicular Transport of Energetic Particles for Different Turbulence Configurations and Parallel Transport Models. Astrophysical Journal, 2017, 847, 9.	4.5	11
100	Simple Analytical Forms of the Perpendicular Diffusion Coefficient for Two-component Turbulence. III. Damping Model of Dynamical Turbulence. Astrophysical Journal, 2017, 847, 118.	4.5	11
101	Field line random walk, field line separation, and particle transport in turbulence with weak transverse complexity. Advances in Space Research, 2019, 64, 2426-2438.	2.6	11
102	Random walk of magnetic field lines in dynamical turbulence: A field line tracing method. I. Slab turbulence. Physics of Plasmas, 2010, 17, .	1.9	10
103	On the universality of asymptotic limits in the theory of field line diffusion and perpendicular transport of energetic particles. Advances in Space Research, 2014, 53, 1024-1034.	2.6	10
104	Time-dependent transport of energetic particles in magnetic turbulence: computer simulations versus analytical theory. Astrophysics and Space Science, 2018, 363, 1.	1.4	10
105	Numerical investigation of the cosmic-ray scattering anisotropy and Bohm diffusion in space plasmas. Monthly Notices of the Royal Astronomical Society, 2011, 413, 2950-2956.	4.4	9
106	Stochastic field-line wandering in magnetic turbulence with shear. I. Quasi-linear theory. Physics of Plasmas, 2016, 23, 072306.	1.9	9
107	Stochastic field-line wandering in magnetic turbulence with shear. II. Decorrelation trajectory method. Physics of Plasmas, 2017, 24, .	1.9	9
108	Generalized compound transport of charged particles in turbulent magnetized plasmas. Journal of Physics A: Mathematical and Theoretical, 2007, 40, 11191-11201.	2.1	8

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109	Parameter study of particle transport in partially turbulent magnetic fields. Journal of Physics G: Nuclear and Particle Physics, 2007, 34, 209-218.	3.6	8
110	Analytical forms of correlation functions and length scales ofÂastrophysical turbulence. Astrophysics and Space Science, 2008, 315, 31-43.	1.4	8
111	Perpendicular transport of charged particles in slab turbulence: recovery of diffusion for realistic wavespectra?. Journal of Physics G: Nuclear and Particle Physics, 2008, 35, 025202.	3.6	8
112	Parallel and perpendicular diffusion coefficients of energetic particles interacting with shear AlfvÃ©n waves. Monthly Notices of the Royal Astronomical Society, 2014, 444, 2676-2684.	4.4	8
113	PITCH-ANGLE SCATTERING OF ENERGETIC PARTICLES WITH ADIABATIC FOCUSING. Astrophysical Journal, 2014, 794, 138.	4.5	8
114	THE IMPLICIT CONTRIBUTION OF SLAB MODES TO THE PERPENDICULAR DIFFUSION COEFFICIENT OF PARTICLES INTERACTING WITH TWO-COMPONENT TURBULENCE. Astrophysical Journal, 2016, 830, 130.	4.5	8
115	Finite gyroradius corrections in the theory of perpendicular diffusion 2. Strong velocity diffusion. Advances in Space Research, 2016, 57, 431-442.	2.6	8
116	Numerical Test of Analytical Theories for Perpendicular Diffusion in Small Kubo Number Turbulence. Astrophysical Journal, 2017, 839, 115.	4.5	8
117	Cosmic ray transport in strong turbulence. Monthly Notices of the Royal Astronomical Society, 2005, 363, 107-111.	4.4	7
118	The role of the Kubo number in two-component turbulence. Physics of Plasmas, 2013, 20, .	1.9	7
119	Analytical description of field-line random walk in Goldreichâ€“Sridhar turbulence. Monthly Notices of the Royal Astronomical Society, 2013, 431, 1923-1928.	4.4	7
120	Field line random walk in magnetic turbulence. Physics of Plasmas, 2021, 28, .	1.9	7
121	Compound perpendicular transport of charged particles withÂdrift, advection, wave propagation effects, and an arbitrary turbulence spectrum. Astrophysics and Space Science, 2009, 321, 197-207.	1.4	6
122	Random walk of magnetic field lines in dynamical turbulence: A field line tracing method. II. Two-dimensional turbulence. Physics of Plasmas, 2012, 19, .	1.9	6
123	Magnetic-field-line random walk in turbulence: A two-point correlation function description. Physical Review E, 2012, 85, 026411.	2.1	6
124	The different transport regimes of pitch-angle scattering of energetic particles. Astrophysics and Space Science, 2014, 350, 197-210.	1.4	6
125	Numerical analysis of the Fokker-Planck equation with adiabatic focusing: Realistic pitch-angle scattering. Advances in Space Research, 2017, 59, 722-735.	2.6	6
126	The influence of non-Gaussian distribution functions on the time-dependent perpendicular transport of energetic particles. Advances in Space Research, 2018, 61, 2827-2836.	2.6	6

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127	Heuristic Description of Perpendicular Particle Transport in Turbulence with Super-diffusive Magnetic Field Lines. Astrophysical Journal, 2020, 898, 135.	4.5	6
128	Non-linear Guiding Center Theory and Acceleration of Cosmic Rays at Supernova Remnant Shocks. , 2009, , .		5
129	A heuristic derivation of an improved analytical theory for perpendicular diffusion of charged particles. Advances in Space Research, 2011, 48, 1499-1505.	2.6	5
130	Analytical Description of the Time-dependent Perpendicular Transport of Energetic Particles. Astrophysical Journal, 2018, 864, 155.	4.5	5
131	Subspace approximations to the cosmic ray Fokkerâ€“Planck equation. Monthly Notices of the Royal Astronomical Society, 2019, 485, 1635-1650.	4.4	5
132	Influence of spectral anisotropy on the random walk of magnetic field lines. Monthly Notices of the Royal Astronomical Society, 2010, 406, 634-643.	4.4	4
133	Comment on â€œCosmic ray diffusion: Detailed investigation of a recent modelâ€•[Phys. Plasmas 18, 082305 (2011)]. Physics of Plasmas, 2011, 18, 114701.	1.9	4
134	Analytical description of nonlinear particle transport in slab turbulence: High particle energies and stochastic acceleration. Physics of Plasmas, 2012, 19, 102901.	1.9	4
135	Gyrophase diffusion of charged particles in random magnetic fields. Monthly Notices of the Royal Astronomical Society, 2012, 426, 880-891.	4.4	4
136	Parallel transport of cosmic rays for non-diffusive pitch-angle scattering: I. Using the standard Fokkerâ€“Planck equation. Physica Scripta, 2012, 85, 065901.	2.5	4
137	Pitch-Angle Dependent Perpendicular Diffusion of Energetic Particles Interacting With Magnetic Turbulence. Applied Physics Research, 2013, 6, .	0.0	4
138	ANALYTIC FORMS OF THE PERPENDICULAR DIFFUSION COEFFICIENT IN NRMHD TURBULENCE. Astrophysical Journal, 2015, 799, 232.	4.5	4
139	Monte Carlo simulations of intensity profiles for energetic particle propagation. Astronomy and Astrophysics, 2016, 586, A118.	5.1	4
140	Solutions of the cosmic ray velocity diffusion equation. Advances in Space Research, 2017, 60, 1532-1546.	2.6	4
141	Detailed test-particle simulations of energetic particles interacting with magnetized plasmas I. Two-component turbulence. Advances in Space Research, 2020, 66, 2001-2023.	2.6	4
142	Detailed analytical investigation of magnetic field line random walk in turbulent plasmas: II. Isotropic turbulence. Journal of Plasma Physics, 2009, 75, 183-192.	2.1	3
143	Parallel diffusion of energetic particles interacting with noisy reduced MHD turbulence. Monthly Notices of the Royal Astronomical Society, 2016, 456, 3803-3812.	4.4	3
144	Analytic forms of the cosmic ray perpendicular diffusion coefficient with implicit contribution of slab modes. Advances in Space Research, 2018, 62, 2817-2827.	2.6	3

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145	Perturbation theory based solution of the pitch-angle dependent cosmic ray diffusion equation. Advances in Space Research, 2019, 63, 653-664.	2.6	3
146	Subspace approximation to the cosmic ray Fokker-Planck equation with perpendicular diffusion. Astrophysics and Space Science, 2021, 366, 1.	1.4	3
147	Non-linear momentum diffusion of heliospheric cosmic rays. Monthly Notices of the Royal Astronomical Society, 2006, 371, 1898-1902.	4.4	2
148	Forms of Eulerian correlation functions in the solar wind. Astrophysics and Space Science, 2008, 318, 149-159.	1.4	2
149	Perpendicular transport of charged particles: Results for the unified nonlinear transport theory derived from the Newtonâ€“Lorentz equation. Advances in Space Research, 2013, 52, 936-950.	2.6	2
150	Perpendicular diffusion in magnetostatic slab turbulence: The theorem on reduced dimensionality and microscopic diffusion. Journal of Atmospheric and Solar-Terrestrial Physics, 2013, 97, 37-42.	1.6	2
151	Comparison between test-particle simulations and test-particle theories for cosmic ray transport: III. Dynamical turbulence. Journal of Physics Communications, 2019, 3, 015016.	1.2	2
152	Distribution Functions of Energetic Particles Experiencing Compound Subdiffusion. Astrophysical Journal, 2020, 890, 147.	4.5	2
153	Detailed analytical investigation of magnetic field line random walk in turbulent plasmas: I. Two-component slab/two-dimensional turbulence. Journal of Plasma Physics, 2008, 74, 657-677.	2.1	1
154	Compound diffusion of energetic particles: a Kappa model for the parallel distribution function. Astrophysics and Space Science, 2012, 340, 351-358.	1.4	1
155	The influence of the Kubo number on the transport of energetic particles. New Journal of Physics, 2016, 18, 085010.	2.9	1
156	Simulations of energetic particles interacting with nonlinear anisotropic dynamical turbulence. Astrophysics and Space Science, 2016, 361, 1.	1.4	1
157	Analytical forms of the first 14 moments of the cosmic ray Fokkerâ€“Planck equation. Journal of Plasma Physics, 2017, 83, .	2.1	1
158	Heuristic Description of Perpendicular Transport. Journal of Physics: Conference Series, 2020, 1620, 012018.	0.4	1
159	Particle Scattering in Magnetized Plasmas and Diffusive Shock Acceleration at Perpendicular Interplanetary Shock Waves. AIP Conference Proceedings, 2011, , .	0.4	0
160	Time-Dependent Perpendicular Transport of Energetic Particles. Journal of Physics: Conference Series, 2019, 1332, 012014.	0.4	0
161	Landau Damping of Langmuir Waves: An Alternative Derivation. Physics, 2021, 3, 940-954.	1.4	0