

Reinhard Schlickeiser

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93
papers

2,432
citations

25
h-index

47
g-index

103
ext. papers

2,671
ext. citations

3.4
avg, IF

5.92
L-index

#	Paper	IF	Citations
93	Cosmic Ray Astrophysics. <i>Astronomy and Astrophysics Library</i> , 2002 ,	0.2	622
92	Cosmic-ray transport and acceleration. I - Derivation of the kinetic equation and application to cosmic rays in static cold media. II - Cosmic rays in moving cold media with application to diffusive shock wave acceleration. <i>Astrophysical Journal</i> , 1989 , 336, 243	4.7	297
91	Cosmic magnetization: from spontaneously emitted aperiodic turbulent to ordered equipartition fields. <i>Physical Review Letters</i> , 2012 , 109, 261101	7.4	73
90	Covariant kinetic dispersion theory of linear waves in anisotropic plasmas. I. General dispersion relations, bi-Maxwellian distributions and nonrelativistic limits. <i>Physics of Plasmas</i> , 2004 , 11, 5532-5546	2.1	67
89	PLASMA EFFECTS ON FAST PAIR BEAMS IN COSMIC VOIDS. <i>Astrophysical Journal</i> , 2012 , 758, 102	4.7	65
88	Cosmic-ray particle transport in weakly turbulent plasmas. Part 1. Theory. <i>Journal of Plasma Physics</i> , 1993 , 49, 63-77	2.7	60
87	Spontaneous electromagnetic fluctuations in unmagnetized plasmas I: General theory and nonrelativistic limit. <i>Physics of Plasmas</i> , 2012 , 19, 022105	2.1	59
86	Thermal fluctuation levels of magnetic and electric fields in unmagnetized plasma: The rigorous relativistic kinetic theory. <i>Physics of Plasmas</i> , 2014 , 21, 032109	2.1	46
85	Evolution of the Electron Distribution Function in the Whistler Wave Turbulence of the Solar Wind. <i>Solar Physics</i> , 2011 , 269, 421-438	2.6	44
84	Cosmic-Ray Diffusion Approximation with Weak Adiabatic Focusing. <i>Astrophysical Journal</i> , 2008 , 686, 292-302	4.7	44
83	Revisiting the Westerland γ field with the HESS telescope array. <i>Astronomy and Astrophysics</i> , 2011 , 525, A46	5.1	43
82	Cumulative effect of the Weibel-type instabilities in symmetric counterstreaming plasmas with kappa anisotropies. <i>Physics of Plasmas</i> , 2008 , 15, 042103	2.1	43
81	PLASMA EFFECTS ON FAST PAIR BEAMS. II. REACTIVE VERSUS KINETIC INSTABILITY OF PARALLEL ELECTROSTATIC WAVES. <i>Astrophysical Journal</i> , 2013 , 777, 49	4.7	40
80	Spontaneous electromagnetic fluctuations in unmagnetized plasmas. III. Generalized Kappa distributions. <i>Physics of Plasmas</i> , 2012 , 19, 122108	2.1	39
79	Instability of the parallel electromagnetic modes in Kappa distributed plasmas - I. Electron whistler-cyclotron modes. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011 , 410, 663-670	4.3	34
78	Particle acceleration in solar flares. <i>Astrophysical Journal</i> , 1986 , 305, 909	4.7	32
77	Spontaneous electromagnetic fluctuations in unmagnetized plasmas. II. Relativistic form factors of aperiodic thermal modes. <i>Physics of Plasmas</i> , 2013 , 20, 052113	2.1	31

76	A NEW COSMIC RAY TRANSPORT THEORY IN PARTIALLY TURBULENT SPACE PLASMAS: EXTENDING THE QUASILINEAR APPROACH. <i>Astrophysical Journal</i> , 2011 , 732, 96	4.7	31
75	Interplanetary transport of solar electrons and protons: Effect of dissipative processes in the magnetic field power spectrum. <i>Journal of Geophysical Research</i> , 1993 , 98, 13261-13280		29
74	Analytical solution of the SIR-model for the temporal evolution of epidemics. Part A: time-independent reproduction factor. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2020 , 53, 505601		29
73	Characterising the VHE diffuse emission in the central 200 parsecs of our Galaxy with H.E.S.S.. <i>Astronomy and Astrophysics</i> , 2018 , 612, A9	5.1	29
72	Covid-19 Predictions Using a Gauss Model, Based on Data from April 2 2020 , 2, 197-212	2.1	28
71	Discovery of VHE emission towards the Carina arm region with the H.E.S.S. telescope array: HESS J1018B89. <i>Astronomy and Astrophysics</i> , 2012 , 541, A5	5.1	26
70	General properties of small-amplitude fluctuations in magnetized and unmagnetized collision poor plasmas. I. The dielectric tensor. <i>Physics of Plasmas</i> , 2010 , 17, 112105	2.1	26
69	Solitons collision and freak waves in a plasma with Cairns-Tsallis particle distributions. <i>Plasma Physics and Controlled Fusion</i> , 2015 , 57, 125012	2	25
68	Weak turbulence theory for collisional plasmas. <i>Physical Review E</i> , 2016 , 93, 033203	2.4	21
67	Cosmic ray transport in non-uniform magnetic fields: consequences of gradient and curvature drifts. <i>Journal of Plasma Physics</i> , 2010 , 76, 317-327	2.7	21
66	COSMIC RAYS AND MHD TURBULENCE GENERATION IN INTERSTELLAR GIANT MOLECULAR CLOUDS. <i>Astrophysical Journal</i> , 2016 , 824, 89	4.7	19
65	Head-on collision of ion-acoustic solitons in an ultracold neutral plasma. <i>Astrophysics and Space Science</i> , 2014 , 350, 175-184	1.6	19
64	Cosmic ray transport in astrophysical plasmas. <i>Physics of Plasmas</i> , 2015 , 22, 091502	2.1	18
63	Electromagnetic fluctuations in magnetized plasmas. I. The rigorous relativistic kinetic theory. <i>Physics of Plasmas</i> , 2015 , 22, 072108	2.1	18
62	Modified temperature-anisotropy instability thresholds in the solar wind. <i>Physical Review Letters</i> , 2011 , 107, 201102	7.4	18
61	EXPLANATION OF THE LOCAL GALACTIC COSMIC RAY ENERGY SPECTRA MEASURED BY VOYAGER 1. I. PROTONS. <i>Astrophysical Journal</i> , 2014 , 787, 35	4.7	17
60	Analytical solution of the SIR-model for the temporal evolution of epidemics: part B. Semi-time case. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2021 , 54, 175601	2	17
59	Freak waves in a plasma having Cairns particles. <i>Astrophysics and Space Science</i> , 2015 , 360, 1	1.6	16

58	On the ordinary mode instability for low beta plasmas. <i>Physics of Plasmas</i> , 2014 , 21, 052111	2.1	16
57	Longitudinal oscillations in hot isotropic Maxwellian plasmas. <i>Physics of Plasmas</i> , 1994 , 1, 2119-2124	2.1	16
56	Oblique propagation of ion-acoustic solitary waves in a magnetized plasma with electrons following a generalized distribution function. <i>Physics of Plasmas</i> , 2019 , 26, 012107	2.1	15
55	Linear Theory of Temperature Anisotropy Instabilities in Magnetized Thermal Pair Plasmas. <i>The Open Plasma Physics Journal</i> , 2010 , 3, 1-19		15
54	Modified δ -distribution of Solar Wind Electrons and Steady-state Langmuir Turbulence. <i>Astrophysical Journal</i> , 2018 , 868, 131	4.7	15
53	The reduction of distant blazars' inverse Compton cascade emission by plasma instability induced beam plateauing. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015 , 448, 3405-3413	4.3	14
52	A Gaussian Model for the Time Development of the Sars-Cov-2 Corona Pandemic Disease. Predictions for Germany Made on 30 March 2020 2020 , 2, 164-170	2.1	14
51	FIRST-ORDER DISTRIBUTED FERMI ACCELERATION OF COSMIC RAY HADRONS IN NON-UNIFORM MAGNETIC FIELDS. <i>Modern Physics Letters A</i> , 2009 , 24, 1461-1472	1.3	14
50	Instability of the Shukla mode in a dusty plasma containing equilibrium density and magnetic field inhomogeneities. <i>Physics of Plasmas</i> , 2004 , 11, 1732-1734	2.1	14
49	STRENGTH OF THE SPONTANEOUSLY EMITTED COLLECTIVE APERIODIC MAGNETIC FIELD FLUCTUATIONS IN THE REIONIZED EARLY INTERGALACTIC MEDIUM. <i>Astrophysical Journal</i> , 2013 , 778, 39	4.7	13
48	Spontaneous electromagnetic fluctuations in unmagnetized plasmas. V. Relativistic form factors of weakly damped/amplified thermal modes. <i>Physics of Plasmas</i> , 2013 , 20, 082117	2.1	12
47	JUMP CONDITIONS FOR RELATIVISTIC MAGNETOHYDRODYNAMIC SHOCKS IN A GYROTROPIC PLASMA. <i>Astrophysical Journal</i> , 2011 , 733, 32	4.7	12
46	THE INFLUENCE OF DISSIPATION RANGE POWER SPECTRA AND PLASMA-WAVE POLARIZATION ON COSMIC-RAY SCATTERING MEAN FREE PATH. <i>Astrophysical Journal</i> , 2010 , 719, 1497-1502	4.7	12
45	Quasi-linear theory and the phenomenology of interplanetary solar particle transport. <i>Astrophysical Journal</i> , 1993 , 407, L95	4.7	12
44	Analytical Modeling of the Temporal Evolution of Epidemics Outbreaks Accounting for Vaccinations 2021 , 3, 386-426	2.1	11
43	Spontaneous electromagnetic fluctuations in unmagnetized plasmas. IV. Relativistic form factors of aperiodic Lorentzian modes. <i>Physics of Plasmas</i> , 2013 , 20, 082116	2.1	10
42	Suprathermal Spontaneous Emissions in δ -distributed Plasmas. <i>Astrophysical Journal Letters</i> , 2018 , 868, L25	7.9	9
41	Quasilinear theory of general electromagnetic fluctuations in unmagnetized plasmas. <i>Physics of Plasmas</i> , 2014 , 21, 092102	2.1	8

40	Explicit formulae for the peak time of an epidemic from the SIR model. Which approximant to use?. <i>Physica D: Nonlinear Phenomena</i> , 2021 , 425, 132981	3.3	8
39	Electromagnetic fluctuations in magnetized plasmas II: Extension of the theory for parallel wave vectors. <i>Physics of Plasmas</i> , 2015 , 22, 102111	2.1	7
38	The instability condition of the aperiodic ordinary mode for new scalings of the counterstreaming parameters. <i>Physics of Plasmas</i> , 2015 , 22, 022129	2.1	7
37	THE INFLUENCE OF KLEINISHINA STEPS ON THE SPATIAL DIFFUSION OF GALACTIC COSMIC-RAY ELECTRONS. <i>Astrophysical Journal</i> , 2012 , 751, 71	4.7	7
36	Gaussian Doubling Times and Reproduction Factors of the COVID-19 Pandemic Disease. <i>Frontiers in Physics</i> , 2020 , 8,	3.9	7
35	Low frequency electromagnetic fluctuations in Kappa magnetized plasmas. <i>Plasma Physics and Controlled Fusion</i> , 2018 , 60, 075010	2	7
34	The Original Anisotropy of TeV Cosmic Rays in the Local Interstellar Medium. <i>Astrophysical Journal</i> , 2020 , 889, 97	4.7	6
33	Electromagnetic fluctuation spectra of collective oscillations in magnetized Maxwellian plasmas for parallel wave vectors. <i>Physics of Plasmas</i> , 2016 , 23, 052106	2.1	6
32	Spontaneous electromagnetic fluctuations in unmagnetized plasmas. VI. Transverse, collective mode for arbitrary distribution functions. <i>Physics of Plasmas</i> , 2013 , 20, 104502	2.1	6
31	Ionospheric losses of Venus in the solar wind. <i>Advances in Space Research</i> , 2020 , 65, 129-137	2.4	6
30	Electromagnetic ion cyclotron instability stimulated by the suprathermal ions in space plasmas: A quasi-linear approach. <i>Physics of Plasmas</i> , 2021 , 28, 022103	2.1	6
29	Obliquely propagating electron-acoustic solitary waves in magnetized plasmas: the role of trapped superthermal electrons. <i>European Physical Journal D</i> , 2019 , 73, 1	1.3	5
28	A Gaussian model for the time development of the Sars-Cov-2 corona pandemic disease. Predictions for Germany made on March 30, 2020		5
27	Kinetic theory of small-amplitude fluctuations in astrophysical plasmas. <i>Physics Reports</i> , 2018 , 783-785, 1-84	27.7	5
26	Verification of the accuracy of the SIR model in forecasting based on the improved SIR model with a constant ratio of recovery to infection rate by comparing with monitored second wave data. <i>Royal Society Open Science</i> , 2021 , 8, 211379	3.3	5
25	The cosmic-ray content of the Orion-Eridanus superbubble. <i>Astronomy and Astrophysics</i> , 2020 , 635, A96	5.1	4
24	Primordial Plasma Fluctuations. I. Magnetization of the Early Universe by Dark Aperiodic Fluctuations in the Past Myon and Prior Electron-Positron Annihilation Epoch. <i>Astrophysical Journal</i> , 2018 , 857, 29	4.7	4
23	Cosmic Rays in Superbubbles. <i>Astrophysical Journal</i> , 2019 , 879, 66	4.7	4

22	Fluctuation-dissipation theorems in magnetized plasmas for arbitrary complex frequencies. <i>Physics of Plasmas</i> , 2015 , 22, 102115	2.1	4
21	Relations between interstellar density and magnetic field fluctuations I. Kinetic theory of fluctuations. <i>Journal of Plasma Physics</i> , 2002 , 68, 191-202	2.7	4
20	Covid-19 Predictions Using a Gauss Model, Based on Data from April 2		4
19	ON THE BEAM INDUCED QUASI-INSTABILITY TRANSFORMATION OF THE DAMPED APERIODIC MODE IN THE INTERGALACTIC MEDIUM. <i>Astrophysical Journal</i> , 2016 , 817, 159	4.7	3
18	Velocity Fluctuations Driven by the Damped, Aperiodic Mode in the Intergalactic Medium. <i>Astrophysical Journal</i> , 2017 , 844, 124	4.7	3
17	Kinetics of general electromagnetic fluctuations in unmagnetized plasmas: aperiodic thermal noise. <i>Plasma Physics and Controlled Fusion</i> , 2015 , 57, 014013	2	3
16	Nonlinear response of a relativistic plasma to intense fields: Generation of strong quasistatic magnetic fields. <i>Physics of Plasmas</i> , 2006 , 13, 102302	2.1	3
15	Covid-19 predictions using a Gauss model, based on data from April 2		3
14	Epidemics Forecast From SIR-Modeling, Verification and Calculated Effects of Lockdown and Lifting of Interventions. <i>Frontiers in Physics</i> , 2021 , 8,	3.9	3
13	On the Anisotropy of Galactic Cosmic Rays. <i>Astrophysical Journal</i> , 2019 , 879, 29	4.7	2
12	COSMIC-RAY TRANSPORT THEORY IN PARTIALLY TURBULENT SPACE PLASMAS WITH COMPRESSIBLE MAGNETIC TURBULENCE. <i>Astrophysical Journal</i> , 2012 , 745, 153	4.7	2
11	AMPLIFICATION OF COLLECTIVE MAGNETIC FLUCTUATIONS IN MAGNETIZED BI-MAXWELLIAN PLASMAS FOR PARALLEL WAVE VECTORS. I. ELECTRON-PROTON PLASMA. <i>Astrophysical Journal</i> , 2016 , 829, 41	4.7	2
10	Forecast of Omicron Wave Time Evolution. <i>Covid</i> , 2022 , 2, 216-229		2
9	Longitudinal electrostatic waves in isotropic thermal plasmas: Ultrarelativistic pair plasmas. <i>Physics of Plasmas</i> , 2019 , 26, 082117	2.1	1
8	Covariant kinetic theory for nonlinear plasma waves interaction. <i>Journal of Plasma Physics</i> , 2006 , 72, 711	2.7	1
7	Subluminal electrostatic noise in isotropic space plasmas. General formulas and nonrelativistic thermal limit. <i>Physics of Plasmas</i> , 2021 , 28, 052110	2.1	1
6	Reasonable Limiting of 7-Day Incidence per Hundred Thousand and Herd Immunization in Germany and Other Countries. <i>Covid</i> , 2021 , 1, 130-136		1
5	Electromagnetic fluctuation spectra of collective oscillations in magnetized Maxwellian equal mass plasmas for low-frequency waves. <i>Physics of Plasmas</i> , 2016 , 23, 052117	2.1	1

4	Multi-Hamiltonian structure of the epidemics model accounting for vaccinations and a suitable test for the accuracy of its numerical solvers. <i>Journal of Physics A: Mathematical and Theoretical</i> ,	2	1
3	SIR-Solution for Slowly Time-Dependent Ratio between Recovery and Infection Rates 2022 , 4, 504-524	2.1	0
2	Response to Comment on Instability of the Shukla mode in a dusty plasma containing equilibrium density and magnetic field inhomogeneities and New resonance and cutoff for low-frequency electromagnetic waves in dusty magnetoplasmas [Phys. Plasmas 11, 4154 (2004)]. <i>Physics of Plasmas</i> , 2004 , 11, 4156-4158	2.1	
1	Determining Pitch-Angle Diffusion Coefficients for Electrons in Whistler Turbulence 2022 , 4, 80-103	2.1	