

Reinhard Schlickeiser

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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 | Determining Pitch-Angle Diffusion Coefficients for Electrons in Whistler Turbulence 2022 , 4, 80-103 | 2.1 | |
| 92 | Forecast of Omicron Wave Time Evolution. <i>Covid</i> , 2022 , 2, 216-229 | | 2 |
| 91 | SIR-Solution for Slowly Time-Dependent Ratio between Recovery and Infection Rates 2022 , 4, 504-524 | 2.1 | 0 |
| 90 | 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 |
| 89 | Subluminal electrostatic noise in isotropic space plasmas. General formulas and nonrelativistic thermal limit. <i>Physics of Plasmas</i> , 2021 , 28, 052110 | 2.1 | 1 |
| 88 | Analytical Modeling of the Temporal Evolution of Epidemics Outbreaks Accounting for Vaccinations 2021 , 3, 386-426 | 2.1 | 11 |
| 87 | 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 |
| 86 | 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 |
| 85 | 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 |
| 84 | 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 |
| 83 | 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 |
| 82 | The cosmic-ray content of the Orion-Eridanus superbubble. <i>Astronomy and Astrophysics</i> , 2020 , 635, A96 | 5.1 | 4 |
| 81 | 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 |
| 80 | Covid-19 Predictions Using a Gauss Model, Based on Data from April 2 2020 , 2, 197-212 | 2.1 | 28 |
| 79 | The Original Anisotropy of TeV Cosmic Rays in the Local Interstellar Medium. <i>Astrophysical Journal</i> , 2020 , 889, 97 | 4.7 | 6 |
| 78 | 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 |
| 77 | Gaussian Doubling Times and Reproduction Factors of the COVID-19 Pandemic Disease. <i>Frontiers in Physics</i> , 2020 , 8, | 3.9 | 7 |

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| 76 | Ionospheric losses of Venus in the solar wind. <i>Advances in Space Research</i> , 2020 , 65, 129-137 | 2.4 | 6 |
| 75 | Longitudinal electrostatic waves in isotropic thermal plasmas: Ultrarelativistic pair plasmas. <i>Physics of Plasmas</i> , 2019 , 26, 082117 | 2.1 | 1 |
| 74 | 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 |
| 73 | On the Anisotropy of Galactic Cosmic Rays. <i>Astrophysical Journal</i> , 2019 , 879, 29 | 4.7 | 2 |
| 72 | Cosmic Rays in Superbubbles. <i>Astrophysical Journal</i> , 2019 , 879, 66 | 4.7 | 4 |
| 71 | 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 |
| 70 | Primordial Plasma Fuctuations. I. Magnetization of the Early Universe by Dark Aperiodic Fluctuations in the Past Myon and Prior ElectronPositron Annihilation Epoch. <i>Astrophysical Journal</i> , 2018 , 857, 29 | 4.7 | 4 |
| 69 | Suprathermal Spontaneous Emissions in β -distributed Plasmas. <i>Astrophysical Journal Letters</i> , 2018 , 868, L25 | 7.9 | 9 |
| 68 | Modified β -distribution of Solar Wind Electrons and Steady-state Langmuir Turbulence. <i>Astrophysical Journal</i> , 2018 , 868, 131 | 4.7 | 15 |
| 67 | Kinetic theory of small-amplitude fluctuations in astrophysical plasmas. <i>Physics Reports</i> , 2018 , 783-785, 1-84 | 27.7 | 5 |
| 66 | 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 |
| 65 | Low frequency electromagnetic fluctuations in Kappa magnetized plasmas. <i>Plasma Physics and Controlled Fusion</i> , 2018 , 60, 075010 | 2 | 7 |
| 64 | Velocity Fluctuations Driven by the Damped, Aperiodic Mode in the Intergalactic Medium. <i>Astrophysical Journal</i> , 2017 , 844, 124 | 4.7 | 3 |
| 63 | Weak turbulence theory for collisional plasmas. <i>Physical Review E</i> , 2016 , 93, 033203 | 2.4 | 21 |
| 62 | 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 |
| 61 | COSMIC RAYS AND MHD TURBULENCE GENERATION IN INTERSTELLAR GIANT MOLECULAR CLOUDS. <i>Astrophysical Journal</i> , 2016 , 824, 89 | 4.7 | 19 |
| 60 | 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 |
| 59 | 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 |

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| 58 | AMPLIFICATION OF COLLECTIVE MAGNETIC FLUCTUATIONS IN MAGNETIZED BI-MAXWELLIAN PLASMAS FOR PARALLEL WAVE VECTORS. I. ELECTRON-BROTON PLASMA. <i>Astrophysical Journal</i> , 2016 , 829, 41 | 4-7 | 2 |
| 57 | 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 |
| 56 | Cosmic ray transport in astrophysical plasmas. <i>Physics of Plasmas</i> , 2015 , 22, 091502 | 2.1 | 18 |
| 55 | Freak waves in a plasma having Cairns particles. <i>Astrophysics and Space Science</i> , 2015 , 360, 1 | 1.6 | 16 |
| 54 | 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 |
| 53 | Electromagnetic fluctuations in magnetized plasmas. I. The rigorous relativistic kinetic theory. <i>Physics of Plasmas</i> , 2015 , 22, 072108 | 2.1 | 18 |
| 52 | Fluctuation-dissipation theorems in magnetized plasmas for arbitrary complex frequencies. <i>Physics of Plasmas</i> , 2015 , 22, 102115 | 2.1 | 4 |
| 51 | 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 |
| 50 | 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 |
| 49 | Kinetics of general electromagnetic fluctuations in unmagnetized plasmas: aperiodic thermal noise. <i>Plasma Physics and Controlled Fusion</i> , 2015 , 57, 014013 | 2 | 3 |
| 48 | 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 |
| 47 | 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 |
| 46 | On the ordinary mode instability for low beta plasmas. <i>Physics of Plasmas</i> , 2014 , 21, 052111 | 2.1 | 16 |
| 45 | Quasilinear theory of general electromagnetic fluctuations in unmagnetized plasmas. <i>Physics of Plasmas</i> , 2014 , 21, 092102 | 2.1 | 8 |
| 44 | 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 |
| 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 | 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 |
| 41 | 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 |

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| 40 | 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 |
| 39 | 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 |
| 38 | 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 |
| 37 | Cosmic magnetization: from spontaneously emitted aperiodic turbulent to ordered equipartition fields. <i>Physical Review Letters</i> , 2012 , 109, 261101 | 7.4 | 73 |
| 36 | Spontaneous electromagnetic fluctuations in unmagnetized plasmas I: General theory and nonrelativistic limit. <i>Physics of Plasmas</i> , 2012 , 19, 022105 | 2.1 | 59 |
| 35 | Spontaneous electromagnetic fluctuations in unmagnetized plasmas. III. Generalized Kappa distributions. <i>Physics of Plasmas</i> , 2012 , 19, 122108 | 2.1 | 39 |
| 34 | PLASMA EFFECTS ON FAST PAIR BEAMS IN COSMIC VOIDS. <i>Astrophysical Journal</i> , 2012 , 758, 102 | 4.7 | 65 |
| 33 | THE INFLUENCE OF KLEIN-NISHINA STEPS ON THE SPATIAL DIFFUSION OF GALACTIC COSMIC-RAY ELECTRONS. <i>Astrophysical Journal</i> , 2012 , 751, 71 | 4.7 | 7 |
| 32 | Discovery of VHE emission towards the Carina arm region with the H.E.S.S. telescope array: HESS J1018-589. <i>Astronomy and Astrophysics</i> , 2012 , 541, A5 | 5.1 | 26 |
| 31 | COSMIC-RAY TRANSPORT THEORY IN PARTIALLY TURBULENT SPACE PLASMAS WITH COMPRESSIBLE MAGNETIC TURBULENCE. <i>Astrophysical Journal</i> , 2012 , 745, 153 | 4.7 | 2 |
| 30 | Modified temperature-anisotropy instability thresholds in the solar wind. <i>Physical Review Letters</i> , 2011 , 107, 201102 | 7.4 | 18 |
| 29 | JUMP CONDITIONS FOR RELATIVISTIC MAGNETOHYDRODYNAMIC SHOCKS IN A GYROTROPIC PLASMA. <i>Astrophysical Journal</i> , 2011 , 733, 32 | 4.7 | 12 |
| 28 | Revisiting the Westerlund Ω field with the HESS telescope array. <i>Astronomy and Astrophysics</i> , 2011 , 525, A46 | 5.1 | 43 |
| 27 | 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 |
| 26 | 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 |
| 25 | 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 |
| 24 | 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 |
| 23 | 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 |

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|----|---|-----|-----|
| 22 | 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 |
| 21 | Linear Theory of Temperature Anisotropy Instabilities in Magnetized Thermal Pair Plasmas. <i>The Open Plasma Physics Journal</i> , 2010 , 3, 1-19 | | 15 |
| 20 | 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 |
| 19 | 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 |
| 18 | Cosmic-Ray Diffusion Approximation with Weak Adiabatic Focusing. <i>Astrophysical Journal</i> , 2008 , 686, 292-302 | 4.7 | 44 |
| 17 | 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 |
| 16 | Covariant kinetic theory for nonlinear plasma waves interaction. <i>Journal of Plasma Physics</i> , 2006 , 72, 711 | 2.7 | 1 |
| 15 | 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 |
| 14 | 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 | |
| 13 | 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 |
| 12 | 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 |
| 11 | Cosmic Ray Astrophysics. <i>Astronomy and Astrophysics Library</i> , 2002 , | 0.2 | 622 |
| 10 | Longitudinal oscillations in hot isotropic Maxwellian plasmas. <i>Physics of Plasmas</i> , 1994 , 1, 2119-2124 | 2.1 | 16 |
| 9 | 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 |
| 8 | Cosmic-ray particle transport in weakly turbulent plasmas. Part 1. Theory. <i>Journal of Plasma Physics</i> , 1993 , 49, 63-77 | 2.7 | 60 |
| 7 | Quasi-linear theory and the phenomenology of interplanetary solar particle transport. <i>Astrophysical Journal</i> , 1993 , 407, L95 | 4.7 | 12 |
| 6 | 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 |
| 5 | Particle acceleration in solar flares. <i>Astrophysical Journal</i> , 1986 , 305, 909 | 4.7 | 32 |

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| 4 | Covid-19 Predictions Using a Gauss Model, Based on Data from April 2 | 4 |
| 3 | A Gaussian model for the time development of the Sars-Cov-2 corona pandemic disease. Predictions for Germany made on March 30, 2020 | 5 |
| 2 | Covid-19 predictions using a Gauss model, based on data from April 2 | 3 |
| 1 | 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 |