

Georgios Nicolaou

List of Publications by Year in descending order

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papers

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471509

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#	ARTICLE	IF	CITATIONS
1	The Stability of the Electron Strahl against the Oblique Fast-magnetosonic/Whistler Instability in the Inner Heliosphere. <i>Astrophysical Journal Letters</i> , 2022, 926, L26.	8.3	8
2	The Kinetic Expansion of Solar-wind Electrons: Transport Theory and Predictions for the Very Inner Heliosphere. <i>Astrophysical Journal</i> , 2022, 927, 162.	4.5	5
3	Radial Evolution of Thermal and Suprathermal Electron Populations in the Slow Solar Wind from 0.13 to 0.5 au: Parker Solar Probe Observations. <i>Astrophysical Journal</i> , 2022, 931, 118.	4.5	15
4	Relationship between Polytopic Index and Temperature Anisotropy in Space Plasmas. <i>Astrophysical Journal</i> , 2021, 909, 127.	4.5	14
5	Anisotropic Kappa Distributions. I. Formulation Based on Particle Correlations. <i>Astrophysical Journal, Supplement Series</i> , 2021, 253, 16.	7.7	9
6	Matching Temporal Signatures of Solar Features to Their Corresponding Solar-Wind Outflows. <i>Solar Physics</i> , 2021, 296, 1.	2.5	3
7	Estimating the Polytopic Indices of Plasmas with Partial Temperature Tensor Measurements: Application to Solar Wind Protons at ~1 au. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 4019.	2.5	2
8	Three-dimensional magnetic reconnection in particle-in-cell simulations of anisotropic plasma turbulence. <i>Journal of Plasma Physics</i> , 2021, 87, .	2.1	19
9	Significance of Bernoulli Integral Terms for the Solar Wind Protons at 1 au. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 4643.	2.5	2
10	Enhanced proton parallel temperature inside patches of switchbacks in the inner heliosphere. <i>Astronomy and Astrophysics</i> , 2021, 650, L1.	5.1	43
11	Electron Partial Density and Temperature Over Jupiter's Main Auroral Emission Using Juno Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029426.	2.4	11
12	First-year ion-acoustic wave observations in the solar wind by the RPW/TDS instrument on board Solar Orbiter. <i>Astronomy and Astrophysics</i> , 2021, 656, A14.	5.1	13
13	Deriving the bulk properties of solar wind electrons observed by Solar Orbiter. <i>Astronomy and Astrophysics</i> , 2021, 656, A10.	5.1	6
14	Solar Orbiter observations of the structure of reconnection outflow layers in the solar wind. <i>Astronomy and Astrophysics</i> , 2021, 656, L8.	5.1	5
15	Breathing of the Heliosphere. <i>Astrophysical Journal</i> , 2021, 922, 250.	4.5	7
16	Method to Derive Ion Properties From Juno JADE Including Abundance Estimates for O^{+} and S^{2+} . <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2018JA026169.	2.4	31
17	Design and Optimization of a High-Time-Resolution Magnetic Plasma Analyzer (MPA). <i>Applied Sciences (Switzerland)</i> , 2020, 10, 8483.	2.5	4
18	Comparisons Between Jupiter's X-ray, UV and Radio Emissions and <i>In-Situ</i> Solar Wind Measurements During 2007. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027222.	2.4	24

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19	Statistical Uncertainties of Space Plasma Properties Described by Kappa Distributions. <i>Entropy</i> , 2020, 22, 541.	2.2	7
20	On the Determination of Kappa Distribution Functions from Space Plasma Observations. <i>Entropy</i> , 2020, 22, 212.	2.2	9
21	Determining the Bulk Parameters of Plasma Electrons from Pitch-Angle Distribution Measurements. <i>Entropy</i> , 2020, 22, 103.	2.2	12
22	Evaluating the Performance of a Plasma Analyzer for a Space Weather Monitor Mission Concept. <i>Space Weather</i> , 2020, 18, e2020SW002559.	3.7	9
23	The Solar Orbiter Science Activity Plan. <i>Astronomy and Astrophysics</i> , 2020, 642, A3.	5.1	67
24	Polytropic Behavior of Solar Wind Protons Observed by Parker Solar Probe. <i>Astrophysical Journal</i> , 2020, 901, 26.	4.5	21
25	On the Calculation of the Effective Polytropic Index in Space Plasmas. <i>Entropy</i> , 2019, 21, 997.	2.2	11
26	Long-term Correlations of Polytropic Indices with Kappa Distributions in Solar Wind Plasma near 1 au. <i>Astrophysical Journal</i> , 2019, 884, 52.	4.5	25
27	The Fluid-like and Kinetic Behavior of Kinetic Alfvén Turbulence in Space Plasma. <i>Astrophysical Journal</i> , 2019, 870, 106.	4.5	18
28	The Impact of Turbulent Solar Wind Fluctuations on Solar Orbiter Plasma Proton Measurements. <i>Astrophysical Journal</i> , 2019, 886, 101.	4.5	18
29	Ions Accelerated by Souder's Plasma Interaction as Observed by Mars Express. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 9802-9814.	2.4	5
30	Determining the Kappa Distributions of Space Plasmas from Observations in a Limited Energy Range. <i>Astrophysical Journal</i> , 2018, 864, 3.	4.5	32
31	Jovian deep magnetotail composition and structure. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 1763-1777.	2.4	13
32	Modeling the Plasma Flow in the Inner Heliosheath with a Spatially Varying Compression Ratio. <i>Astrophysical Journal</i> , 2017, 838, 7.	4.5	13
33	Misestimation of temperature when applying Maxwellian distributions to space plasmas described by kappa distributions. <i>Astrophysics and Space Science</i> , 2016, 361, 1.	1.4	33
34	Investigation of the influence of surface composition on the charge state distribution of $\sim 1/4$ keV hydrogen exiting thin carbon foils for space plasma instrumentation. <i>Advances in Space Research</i> , 2016, 57, 2420-2426.	2.6	4
35	THE NEW HORIZONS SOLAR WIND AROUND PLUTO (SWAP) OBSERVATIONS OF THE SOLAR WIND FROM 11–33 au. <i>Astrophysical Journal, Supplement Series</i> , 2016, 223, 19.	7.7	39
36	Semi-empirical relationships for the energy loss and straggling of ~ 50 keV hydrogen ions passing through thin carbon foils. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2015, 359, 115-119.	1.4	16

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37	Energy loss and straggling of 1–50 keV H, He, C, N, and O ions passing through few layer graphene. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2015, 358, 223-228.	1.4	5
38	Plasma properties in the deep jovian magnetotail. <i>Planetary and Space Science</i> , 2015, 119, 222-232.	1.7	27
39	Jupiter's deep magnetotail boundary layer. <i>Planetary and Space Science</i> , 2015, 111, 116-125.	1.7	22
40	Angular scattering of 1–50 keV ions through graphene and thin carbon foils: Potential applications for space plasma instrumentation. <i>Review of Scientific Instruments</i> , 2014, 85, 033302.	1.3	19
41	Charge state of 1 to 50 keV ions after passing through graphene and ultrathin carbon foils. <i>Optical Engineering</i> , 2014, 53, 024101.	1.0	30
42	Long-Term Variability of the Polytropic Index of Solar Wind Protons at 1 AU. <i>Solar Physics</i> , 2014, 289, 1371-1378.	2.5	55
43	Properties of plasma ions in the distant Jovian magnetosheath using Solar Wind Around Pluto data on New Horizons. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 3463-3479.	2.4	41
44	High-cadence measurements of electron pitch-angle distributions from Solar Orbiter SWA-EAS burst mode operations. <i>Astronomy and Astrophysics</i> , 0, , .	5.1	5
45	Plasma-neutral gas interactions in various space environments: Assessment beyond simplified approximations as a Voyage 2050 theme. <i>Experimental Astronomy</i> , 0, , 1.	3.7	1
46	Resolving Space Plasma Species With Electrostatic Analyzers. <i>Frontiers in Astronomy and Space Sciences</i> , 0, 9, .	2.8	1