Georgios Nicolaou

List of Publications by Year
in descending order

46	779	471509 17	552781 26
papers	citations	h-index	g-index

46	46	46	770
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The Solar Orbiter Science Activity Plan. Astronomy and Astrophysics, 2020, 642, A3.	5.1	67
2	Long-Term Variability of the Polytropic Index of Solar Wind Protons at 1 AU. Solar Physics, 2014, 289, 1371-1378.	2.5	55
3	Enhanced proton parallel temperature inside patches of switchbacks in the inner heliosphere. Astronomy and Astrophysics, 2021, 650, L1.	5.1	43
4	Properties of plasma ions in the distant Jovian magnetosheath using Solar Wind Around Pluto data on New Horizons. Journal of Geophysical Research: Space Physics, 2014, 119, 3463-3479.	2.4	41
5	THE NEW HORIZONS SOLAR WIND AROUND PLUTO (SWAP) OBSERVATIONS OF THE SOLAR WIND FROM 11â€“33 au. Astrophysical Journal, Supplement Series, 2016, 223, 19.	7.7	39
6	Misestimation of temperature when applying Maxwellian distributions to space plasmas described by kappa distributions. Astrophysics and Space Science, 2016, 361, 1.	1.4	33
7	Determining the Kappa Distributions of Space Plasmas from Observations in a Limited Energy Range. Astrophysical Journal, 2018, 864, 3.	4.5	32
8	Method to Derive Ion Properties From Juno JADE Including Abundance Estimates for O⁺ and S²⁺. Journal of Geophysical Research: Space Physics, 2020, 125, e2018JA026169.	2.4	31
9	Charge state of â¼1 to 50ÂkeV ions after passing through graphene and ultrathin carbon foils. Optical Engineering, 2014, 53, 024101.	1.0	30
10	Plasma properties in the deep jovian magnetotail. Planetary and Space Science, 2015, 119, 222-232.	1.7	27
11	Long-term Correlations of Polytropic Indices with Kappa Distributions in Solar Wind Plasma near 1 au. Astrophysical Journal, 2019, 884, 52.	4.5	25
12	Comparisons Between Jupiter's Xâ€ray, UV and Radio Emissions and Inâ€Situ Solar Wind Measurements During 2007. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027222.	2.4	24
13	Jupiter's deep magnetotail boundary layer. Planetary and Space Science, 2015, 111, 116-125.	1.7	22
14	Polytropic Behavior of Solar Wind Protons Observed by Parker Solar Probe. Astrophysical Journal, 2020, 901, 26.	4.5	21
15	Angular scattering of 1â€“50 keV ions through graphene and thin carbon foils: Potential applications for space plasma instrumentation. Review of Scientific Instruments, 2014, 85, 033302.	1.3	19
16	Three-dimensional magnetic reconnection in particle-in-cell simulations of anisotropic plasma turbulence. Journal of Plasma Physics, 2021, 87, .	2.1	19
17	The Fluid-like and Kinetic Behavior of Kinetic AlfvÃ©n Turbulence in Space Plasma. Astrophysical Journal, 2019, 870, 106.	4.5	18
18	The Impact of Turbulent Solar Wind Fluctuations on Solar Orbiter Plasma Proton Measurements. Astrophysical Journal, 2019, 886, 101.	4.5	18

#	Article	IF	Citations
19	Semi-empirical relationships for the energy loss and straggling of 1â€“50 keV hydrogen ions passing through thin carbon foils. Nuclear Instruments & Methods in Physics Research B, 2015, 359, 115-119.	1.4	16
20	Radial Evolution of Thermal and Suprathermal Electron Populations in the Slow Solar Wind from 0.13 to 0.5 au: Parker Solar Probe Observations. Astrophysical Journal, 2022, 931, 118.	4.5	15
21	Relationship between Polytropic Index and Temperature Anisotropy in Space Plasmas. Astrophysical Journal, 2021, 909, 127.	4.5	14
22	Jovian deep magnetotail composition and structure. Journal of Geophysical Research: Space Physics, 2017, 122, 1763-1777.	2.4	13
23	Modeling the Plasma Flow in the Inner Heliosheath with a Spatially Varying Compression Ratio. Astrophysical Journal, 2017, 838, 7.	4.5	13
24	First-year ion-acoustic wave observations in the solar wind by the RPW/TDS instrument on board Solar Orbiter. Astronomy and Astrophysics, 2021, 656, A14.	5.1	13
25	Determining the Bulk Parameters of Plasma Electrons from Pitch-Angle Distribution Measurements. Entropy, 2020, 22, 103.	2.2	12
26	On the Calculation of the Effective Polytropic Index in Space Plasmas. Entropy, 2019, 21, 997.	2.2	11
27	Electron Partial Density and Temperature Over Jupiter's Main Auroral Emission Using Juno Observations. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029426.	2.4	11
28	On the Determination of Kappa Distribution Functions from Space Plasma Observations. Entropy, 2020, 22, 212.	2.2	9
29	Anisotropic Kappa Distributions. I. Formulation Based on Particle Correlations. Astrophysical Journal, Supplement Series, 2021, 253, 16.	7.7	9
30	Evaluating the Performance of a Plasma Analyzer for a Space Weather Monitor Mission Concept. Space Weather, 2020, 18, e2020SW002559.	3.7	9
31	The Stability of the Electron Strahl against the Oblique Fast-magnetosonic/Whistler Instability in the Inner Heliosphere. Astrophysical Journal Letters, 2022, 926, L26.	8.3	8
32	Statistical Uncertainties of Space Plasma Properties Described by Kappa Distributions. Entropy, 2020, 22, 541.	2.2	7
33	Breathing of the Heliosphere. Astrophysical Journal, 2021, 922, 250.	4.5	7
34	Deriving the bulk properties of solar wind electrons observed by Solar Orbiter. Astronomy and Astrophysics, 2021, 656, A10.	5.1	6
35	Energy loss and straggling of 1â€“50 keV H, He, C, N, and O ions passing through few layer graphene. Nuclear Instruments & Methods in Physics Research B, 2015, 358, 223-228.	1.4	5
36	Ions Accelerated by Sounderâ€Plasma Interaction as Observed by Mars Express. Journal of Geophysical Research: Space Physics, 2018, 123, 9802-9814.	2.4	5

#	Article	IF	Citations
37	High-cadence measurements of electron pitch-angle distributions from Solar Orbiter SWA-EAS burst mode operations. Astronomy and Astrophysics, 0, , .	5.1	5
38	Solar Orbiter observations of the structure of reconnection outflow layers in the solar wind. Astronomy and Astrophysics, 2021, 656, L8.	5.1	5
39	The Kinetic Expansion of Solar-wind Electrons: Transport Theory and Predictions for the Very Inner Heliosphere. Astrophysical Journal, 2022, 927, 162.	4.5	5
40	Investigation of the influence of surface composition on the charge state distribution of â^¼keV hydrogen exiting thin carbon foils for space plasma instrumentation. Advances in Space Research, 2016, 57, 2420-2426.	2.6	4
41	Design and Optimization of a High-Time-Resolution Magnetic Plasma Analyzer (MPA). Applied Sciences (Switzerland), 2020, 10, 8483.	2.5	4
42	Matching Temporal Signatures of Solar Features to Their Corresponding Solar-Wind Outflows. Solar Physics, 2021, 296, 1.	2.5	3
43	Estimating the Polytropic Indices of Plasmas with Partial Temperature Tensor Measurements: Application to Solar Wind Protons at ~1 au. Applied Sciences (Switzerland), 2021, 11, 4019.	2.5	2
44	Significance of Bernoulli Integral Terms for the Solar Wind Protons at 1 au. Applied Sciences (Switzerland), 2021, 11, 4643.	2.5	2
45	Plasma-neutral gas interactions in various space environments: Assessment beyond simplified approximations as a Voyage 2050 theme. Experimental Astronomy, 0, , 1.	3.7	1
46	Resolving Space Plasma Species With Electrostatic Analyzers. Frontiers in Astronomy and Space Sciences, 0, 9, .	2.8	1