

Viviane Pierrard

List of Publications by Year in descending order

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113
papers

3,374
citations

159525

30
h-index

161767

54
g-index

120
all docs

120
docs citations

120
times ranked

1838
citing authors

#	ARTICLE	IF	CITATIONS
1	Thank You to Our 2021 Reviewers. Journal of Geophysical Research: Space Physics, 2022, 127, .	0.8	0
2	Observations of Electron Fluxes in the Radiation Belts with PROBA-V/EPT at Polar Low Earth Orbit and Van Allen Probes/MagEIS at Near Equatorial Elliptical Orbit. , 2022, , .		0
3	Thank You to Our 2020 Reviewers. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029311.	0.8	0
4	Improving Predictions of the 3D Dynamic Model of the Plasmasphere. Frontiers in Astronomy and Space Sciences, 2021, 8, .	1.1	10
5	Observations and Simulations of Dropout Events and Flux Decays in October 2013: Comparing MEO Equatorial With LEO Polar Orbit. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028850.	0.8	21
6	Electron Heat Flux Instabilities in the Inner Heliosphere: Radial Distribution and Implication on the Evolution of the Electron Velocity Distribution Function. Astrophysical Journal Letters, 2021, 916, L4.	3.0	10
7	Space weather models for the solar wind and the plasmasphere. , 2021, , .		0
8	Links of the Plasmopause With Other Boundary Layers of the Magnetosphere: Ionospheric Convection, Radiation Belt Boundaries, Auroral Oval. Frontiers in Astronomy and Space Sciences, 2021, 8, .	1.1	7
9	Suprathermal Populations and Their Effects in Space Plasmas: Kappa vs. Maxwellian. Astrophysics and Space Science Library, 2021, , 15-38.	1.0	0
10	Assessment of the Earth's Cold Plasmatrough Modeling by Using Van Allen Probes/EMFISIS and Arase/PWE Electron Density Data. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029737.	0.8	6
11	Electron Kappa Distributions in the Solar Wind: Cause of the Acceleration or Consequence of the Expansion?. Astrophysics and Space Science Library, 2021, , 39-51.	1.0	2
12	Relationship Between Global Plasmopause Characteristics and Plasmopause Structures in the Frame of Interchange Instability Mechanism. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA026768.	0.8	5
13	Characteristics of solar wind suprathermal halo electrons. Astronomy and Astrophysics, 2020, 642, A130.	2.1	14
14	Observation of High-Energy Electrons Precipitated by NWC Transmitter From PROBA-V Low-Earth Orbit Satellite. Geophysical Research Letters, 2020, 47, e2020GL089077.	1.5	12
15	Electron Dropout Events and Flux Enhancements Associated With Geomagnetic Storms Observed by PROBA-V/Energetic Particle Telescope From 2013 to 2019. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA028487.	0.8	13
16	Solar Wind Plasma Particles Organized by the Flow Speed. Solar Physics, 2020, 295, 1.	1.0	10
17	Thank You to Our 2019 Reviewers. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA028092.	0.8	0
18	Toward a realistic macroscopic parametrization of space plasmas with regularized $\langle i \rangle^p / \langle i \rangle$ -distributions. Astronomy and Astrophysics, 2020, 634, A20.	2.1	22

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19	Comparison between empirical and physical models of the topside ionospheric-plasmaspheric electron content above Antarctica. , 2019, , .		0
20	Isolated Auroral Spots Observed by DMSP/SSUSI. Journal of Geophysical Research: Space Physics, 2019, 124, 8416-8426.	0.8	8
21	Editorial Honoring the 2018 Reviewers for JGR Space Physics. Journal of Geophysical Research: Space Physics, 2019, 124, 3848-3857.	0.8	1
22	Dynamics of Megaelectron Volt Electrons Observed in the Inner Belt by PROBA-V/EPT. Journal of Geophysical Research: Space Physics, 2019, 124, 1651-1659.	0.8	10
23	Experimental Study of the Plasmasphere Boundary Layer Using MAGION 5 Data. Journal of Geophysical Research: Space Physics, 2018, 123, 1251-1259.	0.8	7
24	MLT Plasmopause Characteristics: Comparison Between THEMIS Observations and Numerical Simulations. Journal of Geophysical Research: Space Physics, 2018, 123, 2000-2017.	0.8	13
25	The detection of ultra-relativistic electrons in low Earth orbit. Journal of Space Weather and Space Climate, 2018, 8, A01.	1.1	1
26	Analysis of proton and electron spectra observed by EPT/PROBA-V in the South Atlantic Anomaly. Advances in Space Research, 2017, 60, 796-805.	1.2	6
27	Dual Maxwellian-Kappa modeling of the solar wind electrons: new clues on the temperature of Kappa populations. Astronomy and Astrophysics, 2017, 602, A44.	2.1	59
28	Multi-instrument observations of the solar eclipse on 20 March 2015 and its effects on the ionosphere over Belgium and Europe. Journal of Space Weather and Space Climate, 2017, 7, A19.	1.1	33
29	Evidence of MLT propagation of the plasmopause inferred from THEMIS data. Journal of Atmospheric and Solar-Terrestrial Physics, 2017, 161, 55-63.	0.6	14
30	Interfacing MHD Single Fluid and Kinetic Exospheric Solar Wind Models and Comparing Their Energetics. Solar Physics, 2017, 292, 1.	1.0	7
31	Dynamical simulations of the plasmopause and the plasmasphere. , 2017, , .		0
32	Electron Distributions in Space Plasmas. , 2017, , 465-479.		4
33	The effects of the big storm events in the first half of 2015 on the radiation belts observed by EPT/PROBA-V. Annales Geophysicae, 2016, 34, 75-84.	0.6	21
34	Postmidnight ionospheric troughs in summer at high latitudes. Journal of Geophysical Research: Space Physics, 2016, 121, 12,171.	0.8	13
35	The Electron Temperature and Anisotropy in the Solar Wind. Comparison of the Core and Halo Populations. Solar Physics, 2016, 291, 2165-2179.	1.0	81
36	MLT dependence in the relationship between plasmopause, solar wind, and geomagnetic activity based on CRRES: 1990-1991. Journal of Geophysical Research: Space Physics, 2016, 121, 4397-4408.	0.8	27

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37	Contamination in electron observations of the silicon detector on board Cluster/RAPID/IES instrument in Earth's radiation belts and ring current. <i>Space Weather</i> , 2016, 14, 449-462.	1.3	9
38	Kinetic models for space plasmas: Recent progress for the solar wind and the Earth's magnetosphere. <i>AIP Conference Proceedings</i> , 2016, , .	0.3	1
39	The relationship between plasmopause, solar wind and geomagnetic activity between 2007 and 2011. <i>Annales Geophysicae</i> , 2015, 33, 1271-1283.	0.6	31
40	Bursts of kinetic Alfvén waves and coronal radio emission at 2-3 solar radii. , 2015, , .		1
41	Space weather effects in the inner magnetosphere: Plasmasphere and radiation belts dynamics during geomagnetic storms. , 2015, , .		0
42	Generation of Proton Beams by Non-uniform Solar Wind Turbulence. <i>Solar Physics</i> , 2015, 290, 1231-1241.	1.0	11
43	The Energetic Particle Telescope (EPT) on Board PROBA-V: Description of a New Science-Class Instrument for Particle Detection in Space. <i>IEEE Transactions on Nuclear Science</i> , 2014, 61, 3667-3681.	1.2	28
44	Coronal heating and solar wind acceleration for electrons, protons, and minor ions obtained from kinetic models based on kappa distributions. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 9441-9455.	0.8	46
45	The Energetic Particle Telescope: First Results. <i>Space Science Reviews</i> , 2014, 184, 87-106.	3.7	17
46	Coronal Temperature Profiles Obtained from Kinetic Models and from Coronal Brightness Measurements Obtained During Solar Eclipses. <i>Solar Physics</i> , 2014, 289, 183-192.	1.0	5
47	Links between the plasmopause and the radiation belt boundaries as observed by the instruments CIS, RAPID, and WHISPER onboard Cluster. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 4176-4188.	0.8	35
48	Velocity-Space Proton Diffusion in the Solar Wind Turbulence. <i>Solar Physics</i> , 2013, 288, 369-387.	1.0	11
49	Modification of Proton Velocity Distributions by Alfvénic Turbulence in the Solar Wind. <i>Solar Physics</i> , 2013, 288, 355-368.	1.0	8
50	Sub-oval proton aurora spots: Mapping relatively to the plasmopause. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2013, 99, 61-66.	0.6	20
51	The transient observation-based particle (TOP) model and its potential application in radiation effects evaluation. <i>Journal of Space Weather and Space Climate</i> , 2013, 3, A03.	1.1	5
52	SWIFF: Space weather integrated forecasting framework. <i>Journal of Space Weather and Space Climate</i> , 2013, 3, A05.	1.1	21
53	Effects of suprathermal particles in space plasmas. <i>AIP Conference Proceedings</i> , 2012, , .	0.3	4
54	The dynamics of the terrestrial radiation belts and its links to the plasmasphere. <i>AIP Conference Proceedings</i> , 2012, , .	0.3	7

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55	Solar Wind Electron Transport: Interplanetary Electric Field and Heat Conduction. Space Science Reviews, 2012, 172, 315-324.	3.7	17
56	Fitting the AP-8 spectra to determine the proton momentum distribution functions in space radiations. Radiation Measurements, 2012, 47, 401-405.	0.7	6
57	Modeling Space Plasma Dynamics with Anisotropic Kappa Distributions. Thirty Years of Astronomical Discovery With UKIRT, 2012, , 97-107.	0.3	27
58	The 3D model of the plasmasphere coupled to the ionosphere. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	35
59	Evolution of the Electron Distribution Function in the Whistler Wave Turbulence of the Solar Wind. Solar Physics, 2011, 269, 421-438.	1.0	54
60	Solar Wind Electron Transport: Interplanetary Electric Field and Heat Conduction. Space Sciences Series of ISSI, 2011, , 315-324.	0.0	1
61	Kappa Distributions: Theory and Applications in Space Plasmas. Solar Physics, 2010, 267, 153-174.	1.0	517
62	Low altitude energetic electron lifetimes after enhanced magnetic activity as deduced from SAC-C and DEMETER data. Annales Geophysicae, 2010, 28, 849-859.	0.6	24
63	Velocity Distributions and Proton Beam Production in the Solar Wind. AIP Conference Proceedings, 2010, , .	0.3	6
64	Recent Progress in Physics-Based Models of the Plasmasphere. Space Science Reviews, 2009, 145, 193-229.	3.7	50
65	Augmented Empirical Models of Plasmaspheric Density and Electric Field Using IMAGE and CLUSTER Data. Space Science Reviews, 2009, 145, 231-261.	3.7	36
66	Kinetic models for the exospheres of Jupiter and Saturn. Planetary and Space Science, 2009, 57, 1260-1267.	0.9	11
67	Augmented Empirical Models of Plasmaspheric Density and Electric Field Using IMAGE and CLUSTER Data. , 2009, , 231-261.		10
68	The Earth's Plasmasphere. , 2009, , .		48
69	Recent Progress in Physics-Based Models of the Plasmasphere. , 2009, , 193-229.		13
70	The effect of altitude- and velocity-dependent wave-particle interactions on the H ⁺ and O ⁺ outflows in the auroral region. Journal of Atmospheric and Solar-Terrestrial Physics, 2008, 70, 1159-1169.	0.6	4
71	Formulas for recurrence coefficients of orthogonal polynomials related to Lorentzian-like weights. Journal of Computational and Applied Mathematics, 2008, 219, 431-440.	1.1	10
72	Comparison between two theoretical mechanisms for the formation of the plasmopause and relevant observations. Geomagnetism and Aeronomy, 2008, 48, 553-570.	0.2	30

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73	Influence of the convection electric field models on predicted plasmopause positions during magnetic storms. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	46
74	A three-dimensional dynamic kinetic model of the plasmasphere. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	58
75	Spatio-temporal structure of a poloidal Alfvén wave detected by Cluster adjacent to the dayside plasmopause. <i>Annales Geophysicae</i> , 2008, 26, 1805-1817.	0.6	30
76	Spatial and temporal characteristics of poloidal waves in the terrestrial plasmasphere: a CLUSTER case study. <i>Annales Geophysicae</i> , 2007, 25, 1011-1024.	0.6	33
77	High-altitude and high-latitude O ⁺ and H ⁺ outflows: the effect of finite electromagnetic turbulence wavelength. <i>Annales Geophysicae</i> , 2007, 25, 2195-2202.	0.6	6
78	Current-voltage relationship. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2007, 69, 2048-2057.	0.6	17
79	Kinetic modeling of the polar wind. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2007, 69, 1984-2027.	0.6	34
80	Analysis of plasmaspheric plumes: CLUSTER and IMAGE observations. <i>Annales Geophysicae</i> , 2006, 24, 1737-1758.	0.6	35
81	Dynamical Simulations of Plasmopause Deformations. <i>Space Science Reviews</i> , 2006, 122, 119-126.	3.7	23
82	Effects of Wave-Particle Interactions on Double-Hump Distributions of the H + Polar Wind. <i>Astrophysics and Space Science</i> , 2006, 302, 35-41.	0.5	5
83	Multipoint observations of ionic structures in the plasmasphere by CLUSTER-CIS and comparisons with IMAGE-EUV observations and with model simulations. <i>Geophysical Monograph Series</i> , 2005, , 23-53.	0.1	27
84	Comparisons between EUV/IMAGE observations and numerical simulations of the plasmopause formation. <i>Annales Geophysicae</i> , 2005, 23, 2635-2646.	0.6	34
85	Women in Physics in Belgium. <i>AIP Conference Proceedings</i> , 2005, , .	0.3	0
86	Development of shoulders and plumes in the frame of the interchange instability mechanism for plasmopause formation. <i>Geophysical Research Letters</i> , 2004, 31, n/a-n/a.	1.5	55
87	Exospheric distributions of minor ions in the solar wind. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	62
88	Title is missing!. <i>Cosmic Research</i> , 2003, 41, 392-402.	0.2	7
89	The Effects of the Velocity Filtration Mechanism on the Minor Ions of the Corona. <i>Solar Physics</i> , 2003, 216, 47-58.	1.0	20
90	Evaporation of hydrogen and helium atoms from the atmospheres of Earth and Mars. <i>Planetary and Space Science</i> , 2003, 51, 319-327.	0.9	20

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91	A kinetic exospheric model of the solar wind with a nonmonotonic potential energy for the protons. Journal of Geophysical Research, 2003, 108, .	3.3	46
92	A new exospheric model of the solar wind acceleration: the transsonic solutions. AIP Conference Proceedings, 2003, , .	0.3	7
93	Solar wind kinetic exospheric models with typical coronal holes exobase conditions. AIP Conference Proceedings, 2003, , .	0.3	2
94	Collisionless model of the solar wind in a spiral magnetic field. Geophysical Research Letters, 2001, 28, 223-226.	1.5	32
95	Self-consistent model of solar wind electrons. Journal of Geophysical Research, 2001, 106, 29305-29312.	3.3	46
96	Exospheric model of the plasmasphere. Journal of Atmospheric and Solar-Terrestrial Physics, 2001, 63, 1261-1265.	0.6	25
97	Title is missing!. Astrophysics and Space Science, 2001, 277, 189-193.	0.5	9
98	Core, Halo and Strahl Electrons in the Solar Wind. Astrophysics and Space Science, 2001, 277, 195-200.	0.5	67
99	Kinetic Models of Solar and Polar Winds. Astrophysics and Space Science, 2001, 277, 169-180.	0.5	38
100	On the Exospheric Approach for the Solar Wind Acceleration. Astrophysics and Space Science, 2001, 277, 181-187.	0.5	22
101	Title is missing!. Astrophysics and Space Science, 2001, 277, 427-436.	0.5	18
102	Kinetic Models of Solar and Polar Winds. , 2001, , 169-180.		4
103	Statistical analysis of SAMPEX PET proton measurements. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2000, 449, 378-382.	0.7	3
104	A low altitude trapped proton model for solar minimum conditions based on SAMPEX/PET data. IEEE Transactions on Nuclear Science, 1999, 46, 1475-1480.	1.2	84
105	Electron velocity distribution functions from the solar wind to the corona. Journal of Geophysical Research, 1999, 104, 17021-17032.	3.3	158
106	Electron velocity distribution functions from the solar wind to the corona. , 1999, , .		3
107	A collisional kinetic model of the polar wind. Journal of Geophysical Research, 1998, 103, 11701-11709.	3.3	26
108	Ulysses electron distributions fitted with Kappa functions. Geophysical Research Letters, 1997, 24, 1151-1154.	1.5	379

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109	New model of magnetospheric current-voltage relationship. Journal of Geophysical Research, 1996, 101, 2669-2675.	3.3	40
110	Lorentzian ion exosphere model. Journal of Geophysical Research, 1996, 101, 7923-7934.	3.3	217
111	Fitting the AE-8 energy spectra with two maxwellian functions. Radiation Measurements, 1996, 26, 333-337.	0.7	22
112	Kinetic Models of Solar Wind Electrons, Protons and Heavy Ions. , 0, , .		4
113	Implications of Kappa Suprathermal Halo of the Solar Wind Electrons. Frontiers in Astronomy and Space Sciences, 0, 9, .	1.1	3