

Victor P Pasko

List of Publications by Year in descending order

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Version: 2024-02-01

53
papers

1,726
citations

361413

20
h-index

276875

41
g-index

53
all docs

53
docs citations

53
times ranked

1034
citing authors

#	ARTICLE	IF	CITATIONS
1	Monte Carlo model for analysis of thermal runaway electrons in streamer tips in transient luminous events and streamer zones of lightning leaders. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	262
2	Energy and fluxes of thermal runaway electrons produced by exponential growth of streamers during the stepping of lightning leaders and in transient luminous events. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	168
3	Lightning Related Transient Luminous Events at High Altitude in the Earth's Atmosphere: Phenomenology, Mechanisms and Effects. <i>Space Science Reviews</i> , 2012, 168, 475-516.	8.1	164
4	Dynamics of streamer-to-leader transition at reduced air densities and its implications for propagation of lightning leaders and gigantic jets. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 13,561.	3.3	90
5	Excitation of ducted gravity waves in the lower thermosphere by tropospheric sources. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	75
6	Source altitudes of terrestrial gamma-ray flashes produced by lightning leaders. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	74
7	Three-dimensional fractal modeling of intracloud lightning discharge in a New Mexico thunderstorm and comparison with lightning mapping observations. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	73
8	Modeling of thundercloud screening charges: Implications for blue and gigantic jets. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	67
9	On the inception of streamers from sprite halo events produced by lightning discharges with positive and negative polarity. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	62
10	Molecular nitrogen LBH band system far-UV emissions of sprite streamers. <i>Geophysical Research Letters</i> , 2005, 32, .	4.0	51
11	Dependence of positive and negative sprite morphology on lightning characteristics and upper atmospheric ambient conditions. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 2623-2638.	2.4	47
12	Plasma irregularities in the D-region ionosphere in association with sprite streamer initiation. <i>Nature Communications</i> , 2014, 5, 3740.	12.8	46
13	Air-density-dependent model for analysis of air heating associated with streamers, leaders, and transient luminous events. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	42
14	Compton scattering effects on the duration of terrestrial gamma-ray flashes. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	36
15	Minimum charge moment change in positive and negative cloud to ground lightning discharges producing sprites. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	33
16	Variability in fluence and spectrum of high-energy photon bursts produced by lightning leaders. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 10,712.	2.4	31
17	Doppler ducting of short-period gravity waves by midlatitude tidal wind structure. <i>Journal of Geophysical Research</i> , 2007, 112, n/a-n/a.	3.3	29
18	Formation of single and double-headed streamers in sprite-halo events. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	29

#	ARTICLE	IF	CITATIONS
19	Toward Better Understanding of Sprite Streamers: Initiation, Morphology, and Polarity Asymmetry. <i>Surveys in Geophysics</i> , 2013, 34, 797-830.	4.6	27
20	Low frequency electromagnetic radiation from sprite streamers. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	23
21	Optical emissions associated with terrestrial gamma ray flashes. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 1355-1370.	2.4	21
22	Dynamics of sprite streamers in varying air density. <i>Geophysical Research Letters</i> , 2015, 42, 2031-2036.	4.0	20
23	Antiphase OH and OI airglow emissions induced by a short-period ducted gravity wave. <i>Geophysical Research Letters</i> , 2005, 32, .	4.0	18
24	Modeling of X-ray emissions produced by stepping lightning leaders. <i>Geophysical Research Letters</i> , 2014, 41, 7406-7412.	4.0	17
25	Charge transfer to the ionosphere and to the ground during thunderstorms. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	16
26	Vertical structuring of gigantic jets. <i>Geophysical Research Letters</i> , 2013, 40, 3315-3319.	4.0	16
27	Mechanism of column and carrot sprites derived from optical and radio observations. <i>Geophysical Research Letters</i> , 2013, 40, 4777-4782.	4.0	16
28	Electrostatic modeling of intracloud stepped leader electric fields and mechanisms of terrestrial gamma ray flashes. <i>Geophysical Research Letters</i> , 2014, 41, 179-185.	4.0	16
29	Simulation of leader speeds at gigantic jet altitudes. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	15
30	Compton Scattering Effects on the Spectral and Temporal Properties of Terrestrial Gamma-ray Flashes. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 7220-7230.	2.4	14
31	Modeling studies of NO emissions of sprites. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	12
32	Modeling of Streamer Ignition and Propagation in the System of Two Approaching Hydrometeors. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2019JD031337.	3.3	12
33	Production of very high potential differences by intracloud lightning discharges in connection with terrestrial gamma ray flashes. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 912-918.	2.4	11
34	Initiation of positive streamer corona in low thundercloud fields. <i>Geophysical Research Letters</i> , 2017, 44, 5758-5765.	4.0	11
35	Photoionization and Optical Emission Effects of Positive Streamers in Air at Ground Pressure. <i>IEEE Transactions on Plasma Science</i> , 2008, 36, 942-943.	1.3	9
36	Charge balance and ionospheric potential dynamics in time-dependent global electric circuit model. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 10,184.	2.4	9

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37	A novel type of transient luminous event produced by terrestrial gamma-ray flashes. <i>Geophysical Research Letters</i> , 2017, 44, 2571-2578.	4.0	9
38	Infrasonic waves generated by supersonic auroral arcs. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	8
39	Effects of conductivity perturbations in time-dependent global electric circuit model. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 10,654.	2.4	8
40	Analysis of the Diurnal Variation of the Global Electric Circuit Obtained From Different Numerical Models. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 12,906.	3.3	8
41	Earthquake Lights: Mechanism of Electrical Coupling of Earth's Crust to the Lower Atmosphere. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 8901-8914.	3.3	7
42	A Framework for Efficient Calculation of Photoionization and Photodetachment Rates With Application to the Lower Ionosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA027979.	2.4	7
43	Initiation of Streamers Due to Hydrometeor Collisions in Thunderclouds. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 7050-7064.	3.3	6
44	Introduction to special section: Recent Advances in Studies of Schumann Resonances on Earth and Other Planets of the Solar System. <i>Radio Science</i> , 2006, 41, n/a-n/a.	1.6	4
45	Optical emissions associated with energetic electrons produced by stepping leaders in cloud-to-ground lightning discharges. <i>Geophysical Research Letters</i> , 2015, 42, 5610-5616.	4.0	4
46	Implications of Electron Detachment in Associative Collisions of Atomic Oxygen Anion with Molecular Nitrogen for Modeling of Transient Luminous Events. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091134.	4.0	2
47	Modeling of X-ray Images and Energy Spectra Produced by Stepping Lightning Leaders. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 11,776.	3.3	1
48	Sprite Streamers Imaged at Different Exposure Times. <i>IEEE Transactions on Plasma Science</i> , 2011, 39, 2710-2711.	1.3	0
49	Mechanisms of sprite initiation, morphology, and lightning polarity asymmetry. , 2014, , .		0
50	Optical emissions associated with terrestrial gamma-ray flashes. , 2014, , .		0
51	Charge balance, electric field and ionospheric potential signatures in time dependent global electric circuit model. , 2014, , .		0
52	Reply to comments on the article by S. A. Mallios and V. P. Pasko "Charge transfer to the ionosphere and to the ground during thunderstorms". <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 2363-2364.	2.4	0
53	Effects of Phosphor Persistence on High-Speed Imaging of Transient Luminous Events. <i>IEEE Transactions on Plasma Science</i> , 2015, 43, 2738-2742.	1.3	0