

Roman A Makarevich

List of Publications by Year in descending order

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Version: 2024-02-01

42
papers

455
citations

687220

13
h-index

839398

18
g-index

42
all docs

42
docs citations

42
times ranked

459
citing authors

#	ARTICLE	IF	CITATIONS
1	Three-dimensional data assimilation and reanalysis of radiation belt electrons: Observations of a four-zone structure using five spacecraft and the VERB code. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 8764-8783.	0.8	31
2	Symmetry considerations in the two-fluid theory of the gradient drift instability in the lower ionosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 7902-7913.	0.8	24
3	PCN magnetic index and average convection velocity in the polar cap inferred from SuperDARN radar measurements. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	21
4	SAPS intensification during substorm recovery: A multi-instrument case study. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	20
5	Time evolution of the subauroral electric fields: A case study during a sequence of two substorms. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	19
6	On the occurrence of high-velocity E-region echoes in SuperDARN observations. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	19
7	Velocity of E-region HF echoes under strongly-driven electrojet conditions. <i>Annales Geophysicae</i> , 2012, 30, 235-250.	0.6	19
8	Toward an integrated view of ionospheric plasma instabilities: Altitudinal transitions and strong gradient case. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 3634-3647.	0.8	18
9	First E-region observations of mesoscale neutral wind interaction with auroral arcs. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	17
10	HF radar observations of high-velocity E-region echoes from the eastward auroral electrojet. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	16
11	HF radar observations of the F-region ionospheric plasma response to Storm Sudden Commencements. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	16
12	HF radar observations of ionospheric backscatter during geomagnetically quiet periods. <i>Annales Geophysicae</i> , 2012, 30, 221-233.	0.6	16
13	Radar observations of density gradients, electric fields, and plasma irregularities near polar cap patches in the context of the gradient-drift instability. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 3721-3736.	0.8	15
14	Characterization of the energy-dependent response of riometer absorption. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 615-631.	0.8	14
15	Aspect angle dependence of the E-region irregularity velocity at large flow angles. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	13
16	Statistical comparison of TEC derived from GPS and ISR observations at high latitudes. <i>Radio Science</i> , 2013, 48, 441-452.	0.8	13
17	Evaluation of the New Background Covariance Model for the Ionospheric Data Assimilation. <i>Radio Science</i> , 2021, 56, e2021RS007286.	0.8	12
18	E-region decameter-scale plasma waves observed by the dual TIGER HF radars. <i>Annales Geophysicae</i> , 2009, 27, 261-278.	0.6	11

#	ARTICLE	IF	CITATIONS
19	Solar control of F region radar backscatter: Further insights from observations in the southern polar cap. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 9875-9890.	0.8	11
20	Toward an integrated view of ionospheric plasma instabilities: 2. Three inertial modes of a cubic dispersion relation. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 6855-6869.	0.8	11
21	A study of aspect angle effects in the E-region irregularity velocity using multi-point electric field measurements. <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	10
22	Resolute Bay Incoherent Scatter Radar observations of plasma structures in the vicinity of polar holes. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 7970-7986.	0.8	10
23	Dual radar investigation of <i>E</i> region plasma waves in the southern polar cap. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 9132-9147.	0.8	9
24	The response of auroral absorption to substorm onset: Superposed epoch and propagation analyses. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	8
25	Electric field control of <i>E</i> region coherent echoes: Evidence from radar observations at the South Pole. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 2148-2165.	0.8	8
26	Critical density gradients for small-scale plasma irregularity generation in the <i>E</i> and <i>F</i> regions. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 9588-9602.	0.8	8
27	Toward an Integrated View of Ionospheric Plasma Instabilities: 3. Explicit Growth Rate and Oscillation Frequency for Arbitrary Altitude. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 6138-6155.	0.8	8
28	First observations of simultaneous interhemispheric conjugate high-latitude thermospheric winds. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	7
29	Coordinated radar observations of plasma wave characteristics in the auroral F region. <i>Annales Geophysicae</i> , 2014, 32, 875-888.	0.6	7
30	Auroral <i>E</i> -Region as a Source Region for Ionospheric Scintillation. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029212.	0.8	7
31	Global view of the <i>E</i> region irregularity and convection velocities in the high-latitude Southern Hemisphere. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 2467-2483.	0.8	6
32	The Global Analysis of the Ionospheric Correlation Time and Its Implications for Ionospheric Data Assimilation. <i>Radio Science</i> , 2020, 55, e2020RS007181.	0.8	6
33	Poker Flat Incoherent Scatter Radar observations of anomalous electron heating in the E region. <i>Annales Geophysicae</i> , 2013, 31, 1163-1176.	0.6	5
34	Statistical Analysis of the Electron Density Gradients in the Polar Cap <i>F</i> Region Using the Resolute Bay Incoherent Scatter Radar North. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 4066-4079.	0.8	5
35	A modeling study of asymmetries in plasma irregularity characteristics near gradient reversals. <i>Annales Geophysicae</i> , 2016, 34, 709-723.	0.6	3
36	Toward an Integrated View of Ionospheric Plasma Instabilities: 4. Behavior in the Transitional Valley Region. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 9709-9724.	0.8	3

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37	HF echo types revisited: aspect angle attenuation effects. <i>Annales Geophysicae</i> , 2009, 27, 3065-3075.	0.6	2
38	Interplanetary magnetic field control and magnetic conjugacy of auroral E region backscatter. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	2
39	Toward An Integrated View of Ionospheric Plasma Instabilities: 5. Ionospheric Thermal Instability for Arbitrary Ion Magnetization, Density Gradient, and Wave Propagation. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA028349.	0.8	2
40	Asymmetry in the Farley-Buneman dispersion relation caused by parallel electric fields. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 11,391.	0.8	1
41	Data Assimilation Retrieval of Electron Density Profiles From Ionosonde Virtual Height Data. <i>Radio Science</i> , 2021, 56, e2021RS007264.	0.8	1
42	Toward an Integrated View of Ionospheric Plasma Instabilities: 6. Analytic Analysis of Thermal Effects. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029178.	0.8	1