John M C Plane

List of Publications by Year
in descending order

403 papers	18,232 citations	21215 62 h-index	31191 106 g-index
509 all docs	509 docs citations	509 times ranked	10175 citing authors

#	Article	IF	Citations
1	A new material for combustion exhaust aftertreatment at low temperature. Chemical Engineering Journal, 2022, 427, 131814.	6.6	1
2	Bottom-up dust nucleation theory in oxygen-rich evolved stars. Astronomy and Astrophysics, 2022, 658, A167.	2.1	22
3	ATOMIUM: ALMA tracing the origins of molecules in dust forming oxygen rich M-type stars. Astronomy and Astrophysics, 2022, 660, A94.	2.1	14
4	A Comparison of the Midlatitude Nickel and Sodium Layers in the Mesosphere: Observations and Modeling. Journal of Geophysical Research: Space Physics, 2022, 127, .	0.8	4
5	Differential Ablation of Organic Coatings From Micrometeoroids Simulated in the Laboratory. Journal of Geophysical Research E: Planets, 2022, 127, .	1.5	5
6	Ablation Rates of Organic Compounds in Cosmic Dust and Resulting Changes in Mechanical Properties During Atmospheric Entry. Earth and Space Science, 2022, 9, .	1.1	4
7	The reaction between HgBr and O₃: kinetic study and atmospheric implications. Physical Chemistry Chemical Physics, 2022, , .	1.3	8
8	Reaction of SO₃ with HONO₂ and Implications for Sulfur Partitioning in the Atmosphere. Journal of the American Chemical Society, 2022, 144, 9172-9177.	6.6	8
9	Theoretical study of the NO₃radical reaction with CH₂ClBr, CH₂ICl, CH₂BrI, CHCl₂Br, and CHClBr₂. Physical Chemistry Chemical Physics, 2022, 24, 14365-14374.	1.3	3
10	Insights into the Chemistry of Iodine New Particle Formation: The Role of Iodine Oxides and the Source of Iodic Acid. Journal of the American Chemical Society, 2022, 144, 9240-9253.	6.6	14
11	Experimental study of the removal of excited state phosphorus atoms by H2O and H2: implications for the formation of PO in stellar winds. Monthly Notices of the Royal Astronomical Society, 2022, 515, 99-109.	1.6	6
12	The Chemistry of Mercury in the Stratosphere. Geophysical Research Letters, 2022, 49, .	1.5	4
13	Lidar observations of the upper atmospheric nickel layer at Beijing (40âˆ˜N,116âˆ˜E). Journal of Quantitative Spectroscopy and Radiative Transfer, 2021, 260, 107468.	1.1	8
14	Meteorâ€Ablated Aluminum in the Mesosphereâ€Lower Thermosphere. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028792.	0.8	8
15	Interhemispheric transport of metallic ions within ionospheric sporadic <i>E</i> layers by the lower thermospheric meridional circulation. Atmospheric Chemistry and Physics, 2021, 21, 4219-4230.	1.9	24
16	Astrochemical Significance of the P + SO Reaction: Spectroscopic Characterization of SPO, PSO, and SOP Isomers. Astrophysical Journal, 2021, 909, 122.	1.6	2
17	The Phase of Water Ice Which Forms in Cold Clouds in the Mesospheres of Mars, Venus, and Earth. Journal of Geophysical Research E: Planets, 2021, 126, e2020JE006796.	1.5	7
18	The micrometeorite flux at Dome C (Antarctica), monitoring the accretion of extraterrestrial dust on Earth. Earth and Planetary Science Letters, 2021, 560, 116794.	1.8	38

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19	New Global Meteoric Smoke Observations From SOFIE: Insight Regarding Chemical Composition, Meteoric Influx, and Hemispheric Asymmetry. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2021JD035007.	1.2	5
20	Phosphorus Chemistry in the Earth's Upper Atmosphere. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029881.	0.8	6
21	ATOMIUM: halide molecules around the S-type AGB star W Aquilae. Astronomy and Astrophysics, 2021, 655, A80.	2.1	13
22	Self-consistent global transport of metallic ions with WACCM-X. Atmospheric Chemistry and Physics, 2021, 21, 15619-15630.	1.9	11
23	Kinetic Study of the Reactions of AlO with H₂O and H₂; Precursors to Stellar Dust Formation. ACS Earth and Space Chemistry, 2021, 5, 3385-3395.	1.2	9
24	Cosmic dust fluxes in the atmospheres of Earth, Mars, and Venus. Icarus, 2020, 335, 113395.	1.1	53
25	Water Photolysis and Its Contributions to the Hydroxyl Dayglow Emissions in the Atmospheres of Earth and Mars. Journal of Physical Chemistry Letters, 2020, 11, 9086-9092.	2.1	19
26	Kinetic Study of the Reactions of AlO and OAlO Relevant to Planetary Mesospheres. ACS Earth and Space Chemistry, 2020, 4, 2007-2017.	1.2	5
27	Photochemistry of oxidized Hg(I) and Hg(II) species suggests missing mercury oxidation in the troposphere. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 30949-30956.	3.3	50
28	First Simultaneous Lidar Observations of Thermosphereâ€Ionosphere Fe and Na (TIFe and TINa) Layers at McMurdo (77.84Â°S, 166.67Â°E), Antarctica With Concurrent Measurements of Aurora Activity, Enhanced Ionization Layers, and Converging Electric Field. Geophysical Research Letters, 2020, 47, e2020GL090181.	1.5	19
29	Kinetic Study of the Reactions PO + O₂ and PO₂ + O₃ and Spectroscopy of the PO Radical. Journal of Physical Chemistry A, 2020, 124, 7911-7926.	1.1	10
30	A gas-to-particle conversion mechanism helps to explain atmospheric particle formation through clustering of iodine oxides. Nature Communications, 2020, 11, 4521.	5.8	39
31	(Sub)stellar companions shape the winds of evolved stars. Science, 2020, 369, 1497-1500.	6.0	57
32	Injection of meteoric phosphorus into planetary atmospheres. Planetary and Space Science, 2020, 187, 104926.	0.9	17
33	The Meteoric Ni Layer in the Upper Atmosphere. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA028083.	0.8	8
34	Suprathermal Magnetospheric Atomic and Molecular Heavy Ions at and Near Earth, Jupiter, and Saturn: Observations and Identification. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027271.	0.8	7
35	A study of the reactions of Ni⁺and NiO⁺ions relevant to planetary upper atmospheres. Physical Chemistry Chemical Physics, 2020, 22, 8940-8951.	1.3	6
36	ATOMIUM: A high-resolution view on the highly asymmetric wind of the AGB star<i>Ï€</i>¹Gruis. Astronomy and Astrophysics, 2020, 644, A61.	2.1	17

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37	The Multi-Scale Infrastructure for Chemistry and Aerosols (MUSICA). Bulletin of the American Meteorological Society, 2020, 101, E1743-E1760.	1.7	21
38	Determination of the absorption cross sections of higher-order iodine oxides at 355Âand 532â€‰nm. Atmospheric Chemistry and Physics, 2020, 20, 10865-10887.	1.9	14
39	Observations of the Nickel Layer in the Mesopause Region at Mid-Latitudes. EPJ Web of Conferences, 2020, 237, 04004.	0.1	0
40	Observations and Modeling of Potassium Emission in the Terrestrial Nightglow. Journal of Geophysical Research D: Atmospheres, 2019, 124, 6612-6629.	1.2	9
41	Experimental Study of the Removal of Ground- and Excited-State Phosphorus Atoms by Atmospherically Relevant Species. Journal of Physical Chemistry A, 2019, 123, 9469-9478.	1.1	19
42	Ablation of Ni from micrometeoroids in the upper atmosphere: Experimental and computer simulations and implications for Fe ablation. Planetary and Space Science, 2019, 179, 104725.	0.9	12
43	A study of the reactions of Al⁺ions with O₃, N₂, O₂, CO₂and H₂O: influence on Al⁺chemistry in planetary ionospheres. Physical Chemistry Chemical Physics, 2019, 21, 14080-14089.	1.3	7
44	The 27â€Day Solar Rotational Cycle Response in the Mesospheric Metal Layers at Low Latitudes. Geophysical Research Letters, 2019, 46, 7199-7206.	1.5	6
45	The impact of solar radiation on polar mesospheric ice particle formation. Atmospheric Chemistry and Physics, 2019, 19, 4311-4322.	1.9	3
46	Origin of the Extended Mars Radar Blackout of September 2017. Journal of Geophysical Research: Space Physics, 2019, 124, 4556-4568.	0.8	27
47	Localized Ionization Hypothesis for Transient Ionospheric Layers. Journal of Geophysical Research: Space Physics, 2019, 124, 4870-4880.	0.8	19
48	Modeling the Altitude Distribution of Meteor Head Echoes Observed with HPLA Radars: Implications for the Radar Detectability of Meteoroid Populations. Astronomical Journal, 2019, 157, 179.	1.9	8
49	Lidar Soundings of the Mesospheric Nickel Layer Using Ni(³F) and Ni(³D) Transitions. Geophysical Research Letters, 2019, 46, 408-415.	1.5	24
50	Photochemistry on the bottom side of the mesospheric Na layer. Atmospheric Chemistry and Physics, 2019, 19, 3769-3777.	1.9	8
51	From molecules to dust grains: The role of alumina cluster seeds. Proceedings of the International Astronomical Union, 2019, 15, 245-248.	0.0	0
52	Optical properties of meteoric smoke analogues. Atmospheric Chemistry and Physics, 2019, 19, 12767-12777.	1.9	3
53	Kinetic Study of Ni and NiO Reactions Pertinent to the Earthâ€™s Upper Atmosphere. Journal of Physical Chemistry A, 2019, 123, 601-610.	1.1	14
54	Low temperature studies of the rate coefficients and branching ratios of reactive loss vs quenching for the reactions of 1CH2 with C2H6, C2H4, C2H2. Icarus, 2019, 321, 752-766.	1.1	8

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55	Comment on â€œMethanol dimer formation drastically enhances hydrogen abstraction from methanol by OH at low temperatureâ€•by W. Siebrand, Z. Smedarchina, E. MartÃnez-NÃºÃ±ez and A. FernÃ¡ndez-Ramos, <i>Phys. Chem. Chem. Phys</i>., 2016, 18, 22712. Physical Chemistry Chemical Physics, 2018, 20, 8349-8354.	1.3	10
56	Impacts of Cosmic Dust on Planetary Atmospheres and Surfaces. Space Science Reviews, 2018, 214, 1.	3.7	43
57	Selective Disparity of Ordinary Chondritic Precursors in Micrometeorite Flux. Astrophysical Journal, 2018, 853, 38.	1.6	9
58	Low temperature studies of the removal reactions of 1CH2 with particular relevance to the atmosphere of Titan. Icarus, 2018, 303, 10-21.	1.1	12
59	Nucleation of nitric acid hydrates in polar stratospheric clouds by meteoric material. Atmospheric Chemistry and Physics, 2018, 18, 4519-4531.	1.9	18
60	Characterization of the Extraterrestrial Magnesium Source in the Atmosphere Using a Meteoric Ablation Simulator. Geophysical Research Letters, 2018, 45, 7765-7771.	1.5	6
61	Meteoric Metal Chemistry in the Martian Atmosphere. Journal of Geophysical Research E: Planets, 2018, 123, 695-707.	1.5	28
62	Constraints on Metal Oxide and Metal Hydroxide Abundances in the Winds of AGB Stars: Potential Detection of FeO in R Dor. Astrophysical Journal, 2018, 855, 113.	1.6	20
63	A new model of meteoric calcium in the mesosphere and lower thermosphere. Atmospheric Chemistry and Physics, 2018, 18, 14799-14811.	1.9	19
64	Heterogeneous chemistry on nano dust in the terrestrial and planetary atmospheres (including Titan). Proceedings of the International Astronomical Union, 2018, 14, 388-388.	0.0	0
65	The role of alumina in triggering stellar outflows. Proceedings of the International Astronomical Union, 2018, 14, 406-407.	0.0	0
66	On the onset of dust formation in AGB stars. Proceedings of the International Astronomical Union, 2018, 14, 119-128.	0.0	0
67	Photoreduction of gaseous oxidized mercury changes global atmospheric mercury speciation, transport and deposition. Nature Communications, 2018, 9, 4796.	5.8	107
68	The Impact of Comet Siding Spring's Meteors on the Martian Atmosphere and Ionosphere. Journal of Geophysical Research E: Planets, 2018, 123, 2613-2627.	1.5	14
69	Climatology of mesopause region nocturnal temperature, zonal wind and sodium density observed by sodium lidar over Hefei, China (32Â°â€‰N, 117Â°â€‰E). Atmospheric Chemistry and Physics, 2018, 18, 11683-11695.	1.9	12
70	Largeâ€Amplitude Mountain Waves in the Mesosphere Accompanying Weak Crossâ€Mountain Flow During DEEPWAVE Research Flight RF22. Journal of Geophysical Research D: Atmospheres, 2018, 123, 9992.	1.2	26
71	Observations and Modeling of Increased Nitric Oxide in the Antarctic Polar Middle Atmosphere Associated With Geomagnetic Stormâ€Driven Energetic Electron Precipitation. Journal of Geophysical Research: Space Physics, 2018, 123, 6009-6025.	0.8	22
72	Momentum Flux Spectra of a Mountain Wave Event Over New Zealand. Journal of Geophysical Research D: Atmospheres, 2018, 123, 9980-9991.	1.2	15

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73	Radical-mediated direct Câ€“H amination of arenes with secondary amines. Chemical Science, 2018, 9, 6647-6652.	3.7	36
74	An Explanation for the Nitrous Oxide Layer Observed in the Mesopause Region. Geophysical Research Letters, 2018, 45, 7818-7827.	1.5	5
75	Novel Experimental Simulations of the Atmospheric Injection of Meteoric Metals. Astrophysical Journal, 2017, 836, 212.	1.6	31
76	The uptake of HO₂ on meteoric smoke analogues. Journal of Geophysical Research D: Atmospheres, 2017, 122, 554-565.	1.2	10
77	Absorption cross sections and kinetics of formation of AlO at 298 K. Chemical Physics Letters, 2017, 675, 56-62.	1.2	11
78	Unique, nonâ€Earthlike, meteoritic ion behavior in upper atmosphere of Mars. Geophysical Research Letters, 2017, 44, 3066-3072.	1.5	30
79	Experimental setup for the laboratory investigation of micrometeoroid ablation using a dust accelerator. Review of Scientific Instruments, 2017, 88, 034501.	0.6	12
80	Detection of a persistent meteoric metal layer in the Martian atmosphere. Nature Geoscience, 2017, 10, 401-404.	5.4	52
81	CO oxidation and O2 removal on meteoric material in Venusâ€™ atmosphere. Icarus, 2017, 296, 150-162.	1.1	7
82	CO2 ice structure and density under Martian atmospheric conditions. Icarus, 2017, 294, 201-208.	1.1	45
83	Impacts of a sudden stratospheric warming on the mesospheric metal layers. Journal of Atmospheric and Solar-Terrestrial Physics, 2017, 162, 162-171.	0.6	16
84	The Reaction between Sodium Hydroxide and Atomic Hydrogen in Atmospheric and Flame Chemistry. Journal of Physical Chemistry A, 2017, 121, 7667-7674.	1.1	14
85	Impacts of meteoric sulfur in the Earth's atmosphere. Journal of Geophysical Research D: Atmospheres, 2017, 122, 7678-7701.	1.2	10
86	Meteoric Smoke Deposition in the Polar Regions: A Comparison of Measurements With Global Atmospheric Models. Journal of Geophysical Research D: Atmospheres, 2017, 122, 11,112.	1.2	16
87	Discovery of Suprathermal Ionospheric Origin Fe⁺ in and Near Earth's Magnetosphere. Journal of Geophysical Research: Space Physics, 2017, 122, 11,175.	0.8	10
88	The fate of meteoric metals in ice particles: Effects of sublimation and energetic particle bombardment. Journal of Atmospheric and Solar-Terrestrial Physics, 2017, 161, 143-149.	0.6	4
89	Reaction Kinetics of CaOH with H and O₂ and O₂CaOH with O: Implications for the Atmospheric Chemistry of Meteoric Calcium. ACS Earth and Space Chemistry, 2017, 1, 431-441.	1.2	6
90	Radar Detectability Studies of Slow and Small Zodiacal Dust Cloud Particles. III. The Role of Sodium and the Head Echo Size on the Probability of Detection. Astrophysical Journal, 2017, 843, 1.	1.6	33

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91	Synthesis and characterisation of analogues for interplanetary dust and meteoric smoke particles. Journal of Atmospheric and Solar-Terrestrial Physics, 2017, 162, 178-191.	0.6	7
92	Observations of Dramatic Enhancements to the Mesospheric K Layer. Geophysical Research Letters, 2017, 44, 12,536.	1.5	11
93	Measuring FeO variation using astronomical spectroscopic observations. Atmospheric Chemistry and Physics, 2017, 17, 4177-4187.	1.9	13
94	Determination of the atmospheric lifetime and global warming potential of sulfur hexafluoride using a three-dimensional model. Atmospheric Chemistry and Physics, 2017, 17, 883-898.	1.9	49
95	Constraints on Meteoric Smoke Composition and Meteoric Influx Using SOFIE Observations With Models. Journal of Geophysical Research D: Atmospheres, 2017, 122, 13,495.	1.2	15
96	Comparison of global datasets of sodium densities in the mesosphere and lower thermosphere from GOMOS, SCIAMACHY and OSIRIS measurements and WACCM model simulations from 2008 to 2012. Atmospheric Measurement Techniques, 2017, 10, 2989-3006.	1.2	12
97	<i>D</i>-region ionâ€“neutral coupled chemistry (SodankylÃ Ion Chemistry,) Tj ETQq1 1 0.784314 rgBT WACCM-rSIC. Geoscientific Model Development, 2016, 9, 3123-3136.	1.3	16
98	Decay times of transitionally dense specularly reflecting meteor trails and potential chemical impact on trail lifetimes. Annales Geophysicae, 2016, 34, 1119-1144.	0.6	11
99	Stratospheric aerosol-Observations, processes, and impact on climate. Reviews of Geophysics, 2016, 54, 278-335.	9.0	265
100	Sources of cosmic dust in the Earth's atmosphere. Geophysical Research Letters, 2016, 43, 11979-11986.	1.5	138
101	A study of the dissociative recombination of CaO + with electrons: Implications for Ca chemistry in the upper atmosphere. Geophysical Research Letters, 2016, 43, 12333-12339.	1.5	6
102	ABLATION AND CHEMICAL ALTERATION OF COSMIC DUST PARTICLES DURING ENTRY INTO THE EARTHâ€™S ATMOSPHERE. Astrophysical Journal, Supplement Series, 2016, 227, 15.	3.0	11
103	Dust formation in the oxygen-rich AGB star IK Tauri. Astronomy and Astrophysics, 2016, 585, A6.	2.1	141
104	A novel instrument to measure differential ablation of meteorite samples and proxies: The Meteoric Ablation Simulator (MASI). Review of Scientific Instruments, 2016, 87, 094504.	0.6	22
105	Solar cycle response and longâ€term trends in the mesospheric metal layers. Journal of Geophysical Research: Space Physics, 2016, 121, 7153-7165.	0.8	15
106	Uptake of acetylene on cosmic dust and production of benzene in Titan's atmosphere. Icarus, 2016, 278, 88-99.	1.1	14
107	Preliminary observations and simulation of nocturnal variations of airglow temperature and emission rates at Pune (18.5Â°N), India. Journal of Atmospheric and Solar-Terrestrial Physics, 2016, 149, 59-68.	0.6	0
108	Silicon chemistry in the mesosphere and lower thermosphere. Journal of Geophysical Research D: Atmospheres, 2016, 121, 3718-3728.	1.2	27

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109	WACCMâ€Ðâ€"Whole Atmosphere Community Climate Model with Dâ€region ion chemistry. Journal of Advances in Modeling Earth Systems, 2016, 8, 954-975.	1.3	86
110	SOLUBILITY OF ROCK IN STEAM ATMOSPHERES OF PLANETS. Astrophysical Journal, 2016, 824, 103.	1.6	42
111	The photolysis of FeOH and its effect on the bottomside of the mesospheric Fe layer. Geophysical Research Letters, 2016, 43, 1373-1381.	1.5	17
112	WACCMâ€Ðâ€"Improved modeling of nitric acid and active chlorine during energetic particle precipitation. Journal of Geophysical Research D: Atmospheres, 2016, 121, 10,328.	1.2	32
113	RELICT OLIVINES IN MICROMETEORITES: PRECURSORS AND INTERACTIONS IN THE EARTHâ€™S ATMOSPHERE. Astrophysical Journal, 2016, 831, 197.	1.6	11
114	Under what conditions does (SiO)_N nucleation occur? A bottom-up kinetic modelling evaluation. Physical Chemistry Chemical Physics, 2016, 18, 26913-26922.	1.3	37
115	Atmospheric lifetimes, infrared absorption spectra, radiative forcings and global warming potentials of NF₃ and CF₃CF₂ClÂ(CFC-115). Atmospheric Chemistry and Physics, 2016, 16, 11451-11463.	1.9	16
116	Nighttime atmospheric chemistry of iodine. Atmospheric Chemistry and Physics, 2016, 16, 15593-15604.	1.9	31
117	Laboratory measurements of heterogeneous CO₂ ice nucleation on nanoparticles under conditions relevant to the Martian mesosphere. Journal of Geophysical Research E: Planets, 2016, 121, 753-769.	1.5	22
118	Dissociative Recombination of FeO⁺ with Electrons: Implications for Plasma Layers in the Ionosphere. Journal of Physical Chemistry A, 2016, 120, 1369-1376.	1.1	21
119	Reaction Kinetics of Meteoric Sodium Reservoirs in the Upper Atmosphere. Journal of Physical Chemistry A, 2016, 120, 1330-1346.	1.1	18
120	Cosmic and Atmospheric Nanosilicates. Series in Materials Science and Engineering, 2016, , 369-412.	0.1	1
121	The nearâ€global mesospheric potassium layer: Observations and modeling. Journal of Geophysical Research D: Atmospheres, 2015, 120, 7975-7987.	1.2	15
122	MAVEN IUVS observations of the aftermath of the Comet Siding Spring meteor shower on Mars. Geophysical Research Letters, 2015, 42, 4755-4761.	1.5	56
123	Metallic ions in the upper atmosphere of Mars from the passage of comet C/2013 A1 (Siding Spring). Geophysical Research Letters, 2015, 42, 4670-4675.	1.5	45
124	Discovery of suprathermal Fe⁺ in Saturn's magnetosphere. Journal of Geophysical Research: Space Physics, 2015, 120, 2720-2738.	0.8	9
125	Global investigation of the Mg atom and ion layers using SCIAMACHY/Envisat observations between 70 and 150 km altitude and WACCM-Mg model results. Atmospheric Chemistry and Physics, 2015, 15, 273-295.	1.9	36
126	Ice nucleation by combustion ash particles at conditions relevant to mixed-phase clouds. Atmospheric Chemistry and Physics, 2015, 15, 5195-5210.	1.9	55

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127	Diurnal variation of the potassium layer in the upper atmosphere. Geophysical Research Letters, 2015, 42, 3619-3626.	1.5	10
128	Measurements of the vertical fluxes of atomic Fe and Na at the mesopause: Implications for the velocity of cosmic dust entering the atmosphere. Geophysical Research Letters, 2015, 42, 169-175.	1.5	31
129	The Mesosphere and Metals: Chemistry and Changes. Chemical Reviews, 2015, 115, 4497-4541.	23.0	216
130	Mesospheric temperatures and sodium properties measured with the ALOMAR Na lidar compared with WACCM. Journal of Atmospheric and Solar-Terrestrial Physics, 2015, 127, 111-119.	0.6	13
131	On the size and velocity distribution of cosmic dust particles entering the atmosphere. Geophysical Research Letters, 2015, 42, 6518-6525.	1.5	63
132	EVALUATING CHANGES IN THE ELEMENTAL COMPOSITION OF MICROMETEORITES DURING ENTRY INTO THE EARTHâ€™S ATMOSPHERE. Astrophysical Journal, 2015, 814, 78.	1.6	25
133	The uptake of HNO3 on meteoric smoke analogues. Journal of Atmospheric and Solar-Terrestrial Physics, 2015, 127, 150-160.	0.6	18
134	Mesospheric Removal of Very Long-Lived Greenhouse Gases SF₆ and CFC-115 by Metal Reactions, Lyman-Î± Photolysis, and Electron Attachment. Journal of Physical Chemistry A, 2015, 119, 2016-2025.	1.1	18
135	MESOSPHERE | Metal Layers. , 2015, , 430-435.		0
136	Fe embedded in ice: The impacts of sublimation and energetic particle bombardment. Journal of Atmospheric and Solar-Terrestrial Physics, 2015, 127, 103-110.	0.6	4
137	CO2 trapping in amorphous H2O ice: Relevance to polar mesospheric cloud particles. Journal of Atmospheric and Solar-Terrestrial Physics, 2015, 127, 92-96.	0.6	2
138	Summer time Fe depletion in the Antarctic mesopause region. Journal of Atmospheric and Solar-Terrestrial Physics, 2015, 127, 97-102.	0.6	8
139	RADAR DETECTABILITY STUDIES OF SLOW AND SMALL ZODIACAL DUST CLOUD PARTICLES. II. A STUDY OF THREE RADARS WITH DIFFERENT SENSITIVITY. Astrophysical Journal, 2015, 807, 13.	1.6	15
140	The TromsÃ¸ programme of in situ and sample return studies of mesospheric nanoparticles. Journal of Atmospheric and Solar-Terrestrial Physics, 2015, 127, 129-136.	0.6	6
141	First global observations of the mesospheric potassium layer. Geophysical Research Letters, 2014, 41, 5653-5661.	1.5	17
142	Meteor trail characteristics observed by high time resolution lidar. Annales Geophysicae, 2014, 32, 1321-1332.	0.6	4
143	E region ionization enhancement over northern Scandinavia during the 2002 Leonids. , 2014, , .		0
144	The MAGIC meteoric smoke particle sampler. Journal of Atmospheric and Solar-Terrestrial Physics, 2014, 118, 127-144.	0.6	9

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145	Morphology of sporadic <i>E</i> layer retrieved from COSMIC GPS radio occultation measurements: Wind shear theory examination. Journal of Geophysical Research: Space Physics, 2014, 119, 2117-2136.	0.8	102
146	Strong <i>E</i> region ionization caused by the 1767 trail during the 2002 Leonids. Journal of Geophysical Research: Space Physics, 2014, 119, 7880-7888.	0.8	6
147	RADAR DETECTABILITY STUDIES OF SLOW AND SMALL ZODIACAL DUST CLOUD PARTICLES. I. THE CASE OF ARECIBO 430 MHz METEOR HEAD ECHO OBSERVATIONS. Astrophysical Journal, 2014, 796, 41.	1.6	33
148	Experimental Study of the Mesospheric Removal of NF3 by Neutral Meteoric Metals and Lyman-Î± Radiation. Journal of Physical Chemistry A, 2014, 118, 4120-4129.	1.1	6
149	Low Temperature Kinetics of the CH₃OH + OH Reaction. Journal of Physical Chemistry A, 2014, 118, 2693-2701.	1.1	68
150	A combined rocket-borne and ground-based study of the sodium layer and charged dust in the upper mesosphere. Journal of Atmospheric and Solar-Terrestrial Physics, 2014, 118, 151-160.	0.6	28
151	Refractory metal nuggets in different types of cosmic spherules. Geochimica Et Cosmochimica Acta, 2014, 131, 247-266.	1.6	34
152	Glyoxal observations in the global marine boundary layer. Journal of Geophysical Research D: Atmospheres, 2014, 119, 6160-6169.	1.2	38
153	Inferring the global cosmic dust influx to the Earth's atmosphere from lidar observations of the vertical flux of mesospheric Na. Journal of Geophysical Research: Space Physics, 2014, 119, 7870-7879.	0.8	45
154	Missing SO₂ oxidant in the coastal atmosphere? â€" observations from high-resolution measurements of OH and atmospheric sulfur compounds. Atmospheric Chemistry and Physics, 2014, 14, 12209-12223.	1.9	38
155	A laboratory characterisation of inorganic iodine emissions from the sea surface: dependence on oceanic variables and parameterisation for global modelling. Atmospheric Chemistry and Physics, 2014, 14, 5841-5852.	1.9	111
156	Seasonality of halogen deposition in polar snow and ice. Atmospheric Chemistry and Physics, 2014, 14, 9613-9622.	1.9	27
157	Resolving the strange behavior of extraterrestrial potassium in the upper atmosphere. Geophysical Research Letters, 2014, 41, 4753-4760.	1.5	43
158	Short-Lived Trace Gases in the Surface Ocean and the Atmosphere. Springer Earth System Sciences, 2014, , 1-54.	0.1	17
159	Speciation analysis of iodine and bromine at picogram-per-gram levels in polar ice. Analytical and Bioanalytical Chemistry, 2013, 405, 647-654.	1.9	21
160	LOCUS: Low cost upper atmosphere sounder. Proceedings of SPIE, 2013, , .	0.8	2
161	On the mechanism of iodine oxide particle formation. Physical Chemistry Chemical Physics, 2013, 15, 15612.	1.3	52
162	Atmospheric iodine levels influenced by sea surface emissions of inorganic iodine. Nature Geoscience, 2013, 6, 108-111.	5.4	256

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163	Sea ice dynamics influence halogen deposition to Svalbard. Cryosphere, 2013, 7, 1645-1658.	1.5	27
164	Plutoniumâ€238 observations as a test of modeled transport and surface deposition of meteoric smoke particles. Geophysical Research Letters, 2013, 40, 4454-4458.	1.5	29
165	Halogen species record Antarctic sea ice extent over glacialâ€“interglacial periods. Atmospheric Chemistry and Physics, 2013, 13, 6623-6635.	1.9	47
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