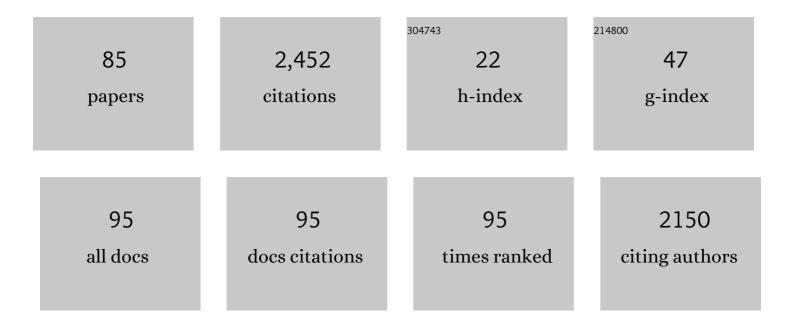


List of Publications by Year in descending order

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IAN L COHEN

#	Article	IF	CITATIONS
1	Small Satellite Mission Concepts for Space Weather Research and as Pathfinders for Operations. Space Weather, 2022, 20, e2020SW002554.	3.7	6
2	Energetic lons Downtail of the Reconnection Site. Journal of Geophysical Research: Space Physics, 2022, 127, .	2.4	0
3	The Case for a New Frontiers–Class Uranus Orbiter: System Science at an Underexplored and Unique World with a Mid-scale Mission. Planetary Science Journal, 2022, 3, 58.	3.6	12
4	A New Three-Dimensional Empirical Reconstruction Model Using a Stochastic Optimization Method. Frontiers in Astronomy and Space Sciences, 2022, 9, .	2.8	1
5	Three-dimensional network of filamentary currents and super-thermal electrons during magnetotail magnetic reconnection. Nature Communications, 2022, 13, .	12.8	11
6	Characteristics of Energetic Electrons Near Active Magnetotail Reconnection Sites: Statistical Evidence for Local Energization. Geophysical Research Letters, 2021, 48, e2020GL090087.	4.0	8
7	Characteristics of Energetic Electrons Near Active Magnetotail Reconnection Sites: Tracers of a Complex Magnetic Topology and Evidence of Localized Acceleration. Geophysical Research Letters, 2021, 48, e2020GL090089.	4.0	10
8	Evidence for Nonadiabatic Oxygen Energization in the Near‣arth Magnetotail From MMS. Geophysical Research Letters, 2021, 48, e2020GL091697.	4.0	5
9	In Situ Evidence of Ion Acceleration between Consecutive Reconnection Jet Fronts. Astrophysical Journal, 2021, 908, 73.	4.5	3
10	New Frontiers-class Uranus Orbiter: Exploring the feasibility of achieving multidisciplinary science with a mid-scale mission. , 2021, 53, .		0
11	Collaborative Actions to Enable Richer and More Complex Planetary Science Mission Data. , 2021, 53, .		0
12	MMS Observations of the Multiscale Wave Structures and Parallel Electron Heating in the Vicinity of the Southern Exterior Cusp. Journal of Geophysical Research: Space Physics, 2021, 126, e2019JA027698.	2.4	15
13	The Science Case for Spacecraft Exploration of the Uranian Satellites. , 2021, 53, .		0
14	Direct Multipoint Observations Capturing the Reformation of a Supercritical Fast Magnetosonic Shock. Astrophysical Journal Letters, 2021, 911, L31.	8.3	6
15	Magnetospheric Multiscale Observations of the Source Region of Energetic Electron Microinjections Along the Duskside, High‣atitude Magnetopause Boundary Layer. Geophysical Research Letters, 2021, 48, e2021GL092466.	4.0	9
16	A Multiâ€Instrument Study of a Dipolarization Event in the Inner Magnetosphere. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029294.	2.4	0
17	Investigating the Link Between Outer Radiation Belt Losses and Energetic Electron Escape at the Magnetopause: A Case Study Using Multiâ€Mission Observations and Simulations. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029261.	2.4	2
18	The Science Case for Spacecraft Exploration of the Uranian Satellites: Candidate Ocean Worlds in an Ice Giant System. Planetary Science Journal, 2021, 2, 120.	3.6	19

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19	Local Acceleration of Protons to 100ÂkeV in a Quasiâ€Parallel Bow Shock. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029477.	2.4	7
20	Anomalous Reconnection Layer at Earth's Dayside Magnetopause. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029678.	2.4	1
21	Can Earth's Magnetotail Plasma Sheet Produce a Source of Relativistic Electrons for the Radiation Belts?. Geophysical Research Letters, 2021, 48, e2021GL095495.	4.0	11
22	Neptune Odyssey: A Flagship Concept for the Exploration of the Neptune–Triton System. Planetary Science Journal, 2021, 2, 184.	3.6	11
23	Application of Cold and Hot Plasma Composition Measurements to Investigate Impacts on Dusk‧ide Electromagnetic Ion Cyclotron Waves. Journal of Geophysical Research: Space Physics, 2021, 126, .	2.4	5
24	Rocket Investigation of Current Closure in the Ionosphere (RICCI): A novel application of CubeSats from a sounding rocket platform. Advances in Space Research, 2020, 66, 98-106.	2.6	1
25	Overview of the Rocket Experiment for Neutral Upwelling Sounding Rocket 2 (RENU2). Geophysical Research Letters, 2020, 47, e2018GL081885.	4.0	7
26	Heavy Ion Charge States in Jupiter's Polar Magnetosphere Inferred From Auroral Megavolt Electric Potentials. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA028052.	2.4	21
27	Microscopic, Multipoint Characterization of Foreshock Bubbles With Magnetospheric Multiscale (MMS). Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027707.	2.4	40
28	Magnetospheric Studies: A Requirement for Addressing Interdisciplinary Mysteries in the Ice Giant Systems. Space Science Reviews, 2020, 216, 1.	8.1	16
29	Chargeâ€Stateâ€Dependent Energization of Suprathermal Ions During Substorm Injections Observed by MMS in the Magnetotail. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA028144.	2.4	8
30	Cross-NASA divisional relevance of an Ice Giant mission. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2020, 378, 20200222.	3.4	4
31	lce giant magnetospheres. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2020, 378, 20190480.	3.4	12
32	Direct Evidence for Electron Acceleration Within Ionâ€Scale Flux Rope. Geophysical Research Letters, 2020, 47, e2019GL085141.	4.0	44
33	MMS Observations of Accelerated Interstellar Pickup He <sup>+</sup> lons at an Interplanetary Shock. Astrophysical Journal, 2020, 897, 6.	4.5	2
34	Characteristics of Escaping Magnetospheric Ions Associated With Magnetic Field Fluctuations. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027337.	2.4	2
35	Ice giant system exploration in the 2020s: an introduction. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2020, 378, 20190473.	3.4	13
36	Observations of Particle Acceleration in Magnetic Reconnection–driven Turbulence. Astrophysical Journal, 2020, 898, 154.	4.5	36

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37	Heliospheric Maps from Cassini INCA Early in the Cruise to Saturn. Astrophysical Journal Letters, 2020, 902, L45.	8.3	7
38	Delayed Arrival of Energetic Solar Particles at MMS on 16 July 2017. Journal of Geophysical Research: Space Physics, 2019, 124, 2711-2719.	2.4	1
39	Driftâ€Ðispersed Flux Dropouts of Energetic Electrons Observed in Earth's Middle Magnetosphere by the Magnetospheric Multiscale (MMS) Mission. Geophysical Research Letters, 2019, 46, 3069-3078.	4.0	7
40	Investigation of Mass″Chargeâ€Dependent Escape of Energetic Ions Across the Magnetopauses of Earth and Jupiter. Journal of Geophysical Research: Space Physics, 2019, 124, 5539-5567.	2.4	15
41	Dynamic Response of Ionospheric Plasma Density to the Geomagnetic Storm of 22â€⊋3 June 2015. Journal of Geophysical Research: Space Physics, 2019, 124, 7123-7139.	2.4	22
42	Cusp and Nightside Auroral Sources of O <sup>+</sup> in the Plasma Sheet. Journal of Geophysical Research: Space Physics, 2019, 124, 10036-10047.	2.4	10
43	MMS Measurements and Modeling of Peculiar Electromagnetic Ion Cyclotron Waves. Geophysical Research Letters, 2019, 46, 11622-11631.	4.0	8
44	Highâ€Resolution Measurements of the Crossâ€Shock Potential, Ion Reflection, and Electron Heating at an Interplanetary Shock by MMS. Journal of Geophysical Research: Space Physics, 2019, 124, 3961-3978.	2.4	36
45	The Space Physics Environment Data Analysis System (SPEDAS). Space Science Reviews, 2019, 215, 9.	8.1	332
46	The Properties of Lion Roars and Electron Dynamics in Mirror Mode Waves Observed by the Magnetospheric MultiScale Mission. Journal of Geophysical Research: Space Physics, 2018, 123, 93-103.	2.4	26
47	Effects in the Nearâ€Magnetopause Magnetosheath Elicited by Largeâ€Amplitude Alfvénic Fluctuations Terminating in a Field and Flow Discontinuity. Journal of Geophysical Research: Space Physics, 2018, 123, 8983-9004.	2.4	3
48	Multiscale Currents Observed by MMS in the Flow Braking Region. Journal of Geophysical Research: Space Physics, 2018, 123, 1260-1278.	2.4	32
49	Kinetic Equilibrium of Dipolarization Fronts. Scientific Reports, 2018, 8, 17186.	3.3	12
50	Electron-scale dynamics of the diffusion region during symmetric magnetic reconnection in space. Science, 2018, 362, 1391-1395.	12.6	221
51	Interstellar Mapping and Acceleration Probe (IMAP): A New NASA Mission. Space Science Reviews, 2018, 214, 1.	8.1	129
52	Autogenous and efficient acceleration of energetic ions upstream of Earth's bow shock. Nature, 2018, 561, 206-210.	27.8	47
53	New Insights into the Nature of Turbulence in the Earth's Magnetosheath Using Magnetospheric MultiScale Mission Data. Astrophysical Journal, 2018, 859, 127.	4.5	23
54	MMS observation of inverse energy dispersion in shock drift accelerated ions. Journal of Geophysical Research: Space Physics, 2017, 122, 3232-3246.	2.4	1

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55	Multipoint Observations of Energetic Particle Injections and Substorm Activity During a Conjunction Between Magnetospheric Multiscale (MMS) and Van Allen Probes. Journal of Geophysical Research: Space Physics, 2017, 122, 11,481.	2.4	42
56	Charge Proportional and Weakly Massâ€Dependent Acceleration of Different Ion Species in the Earth's Magnetotail. Geophysical Research Letters, 2017, 44, 10,108.	4.0	7
57	Examining Coherency Scales, Substructure, and Propagation of Whistler Mode Chorus Elements With Magnetospheric Multiscale (MMS). Journal of Geophysical Research: Space Physics, 2017, 122, 11,201.	2.4	18
58	Lower Hybrid Drift Waves and Electromagnetic Electron Spaceâ€Phase Holes Associated With Dipolarization Fronts and Fieldâ€Aligned Currents Observed by the Magnetospheric Multiscale Mission During a Substorm. Journal of Geophysical Research: Space Physics, 2017, 122, 12,236.	2.4	31
59	Dominance of highâ€energy (>150ÂkeV) heavy ion intensities in Earth's middle to outer magnetosphere. Journal of Geophysical Research: Space Physics, 2017, 122, 9282-9293.	2.4	18
60	MMS Observations of Reconnection at Dayside Magnetopause Crossings During Transitions of the Solar Wind to Subâ€Alfvénic Flow. Journal of Geophysical Research: Space Physics, 2017, 122, 9934-9951.	2.4	3
61	Storm time empirical model of O <sup>+</sup> and O <sup>6+</sup> distributions in the magnetosphere. Journal of Geophysical Research: Space Physics, 2017, 122, 8353-8374.	2.4	18
62	Statistical analysis of MMS observations of energetic electron escape observed at/beyond the dayside magnetopause. Journal of Geophysical Research: Space Physics, 2017, 122, 9440-9463.	2.4	14
63	Near-Earth plasma sheet boundary dynamics during substorm dipolarization. Earth, Planets and Space, 2017, 69, 129.	2.5	15
64	The "Puck―energetic charged particle detector: Design, heritage, and advancements. Journal of Geophysical Research: Space Physics, 2016, 121, 7900-7913.	2.4	15
65	Currents and associated electron scattering and bouncing near the diffusion region at Earth's magnetopause. Geophysical Research Letters, 2016, 43, 3042-3050.	4.0	81
66	Energetic electron acceleration observed by MMS in the vicinity of an Xâ€line crossing. Geophysical Research Letters, 2016, 43, 7356-7363.	4.0	21
67	Electron-scale measurements of magnetic reconnection in space. Science, 2016, 352, aaf2939.	12.6	545
68	Observations of energetic particle escape at the magnetopause: Early results from the MMS Energetic Ion Spectrometer (EIS). Geophysical Research Letters, 2016, 43, 5960-5968.	4.0	23
69	Transient, smallâ€scale fieldâ€aligned currents in the plasma sheet boundary layer during storm time substorms. Geophysical Research Letters, 2016, 43, 4841-4849.	4.0	30
70	Modeling magnetospheric energetic particle escape across Earth's magnetopause as observed by the MMS mission. Geophysical Research Letters, 2016, 43, 4081-4088.	4.0	19
71	The substructure of a flux transfer event observed by the MMS spacecraft. Geophysical Research Letters, 2016, 43, 9434-9443.	4.0	33
72	Rocket-borne measurements of electron temperature and density with the Electron Retarding Potential Analyzer instrument. Journal of Geophysical Research: Space Physics, 2016, 121, 6774-6782.	2.4	8

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73	Inverse energy dispersion of energetic ions observed in the magnetosheath. Geophysical Research Letters, 2016, 43, 7338-7347.	4.0	5
74	Measuring the seeds of ion outflow: Auroral sounding rocket observations of lowâ€altitude ion heating and circulation. Journal of Geophysical Research: Space Physics, 2016, 121, 1587-1607.	2.4	19
75	Multispacecraft analysis of dipolarization fronts and associated whistler wave emissions using MMS data. Geophysical Research Letters, 2016, 43, 7279-7286.	4.0	49
76	Electrodynamic context of magnetopause dynamics observed by magnetospheric multiscale. Geophysical Research Letters, 2016, 43, 5988-5996.	4.0	10
77	Energy limits of electron acceleration in the plasma sheet during substorms: A case study with the Magnetospheric Multiscale (MMS) mission. Geophysical Research Letters, 2016, 43, 7785-7794.	4.0	51
78	The permeability of the magnetopause to a multispecies substorm injection of energetic particles. Geophysical Research Letters, 2016, 43, 9453-9460.	4.0	7
79	Dipolarization in the inner magnetosphere during a geomagnetic storm on 7 October 2015. Geophysical Research Letters, 2016, 43, 9397-9405.	4.0	7
80	Microinjections observed by MMS FEEPS in the dusk to midnight region. Geophysical Research Letters, 2016, 43, 6078-6086.	4.0	13
81	A telescopic and microscopic examination of acceleration in the June 2015 geomagnetic storm: Magnetospheric Multiscale and Van Allen Probes study of substorm particle injection. Geophysical Research Letters, 2016, 43, 6051-6059.	4.0	30
82	Ion upflow dependence on ionospheric density and solar photoionization. Journal of Geophysical Research: Space Physics, 2015, 120, 10039-10052.	2.4	16
83	Auroral Current and Electrodynamics Structure (ACES) observations of ionospheric feedback in the Alfvén resonator and model responses. Journal of Geophysical Research: Space Physics, 2013, 118, 3288-3296.	2.4	19
84	Modeling of Jupiter's auroral curtain and upper atmospheric thermal structure. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	4
85	A Statistical Study of Magnetopause Boundary Layer Energetic Electron Enhancements Using MMS. Frontiers in Astronomy and Space Sciences, 0, 9, .	2.8	1