

Hamid K Rassoul

List of Publications by Year in descending order

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91
papers

3,013
citations

159585

30
h-index

175258

52
g-index

91
all docs

91
docs citations

91
times ranked

1895
citing authors

#	ARTICLE	IF	CITATIONS
1	Inferences on upward leader characteristics from measured currents. Atmospheric Research, 2021, 251, 105420.	4.1	6
2	Fair Weather Neutron Bursts From Photonuclear Reactions by Extensive Air Shower Core Interactions in the Ground and Implications for Terrestrial Gamma-ray Flash Signatures. Geophysical Research Letters, 2021, 48, e2020GL090033.	4.0	7
3	Vertical Temperature Profile of Natural Lightning Return Strokes Derived From Optical Spectra. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD034438.	3.3	10
4	Insights on Space Leader Characteristics and Evolution in Natural Negative Cloud-to-Ground Lightning. Geophysical Research Letters, 2021, 48, e2021GL093614.	4.0	7
5	Gamma-Ray and Radio-Frequency Radiation from Thunderstorms Observed from Space and Ground. Scientific Reports, 2020, 10, 7286.	3.3	15
6	Streamer discharge initiation from an isolated spherical hydrometeor at subbreakdown condition. Journal of Electrostatics, 2020, 106, 103457.	1.9	4
7	High-Speed Video Observation of a Dart Leader Producing X-rays. Journal of Geophysical Research: Space Physics, 2019, 124, 10564-10570.	2.4	8
8	Characteristics of Currents in Upward Lightning Flashes Initiated From the Gaisberg Tower. IEEE Transactions on Electromagnetic Compatibility, 2019, 61, 705-718.	2.2	18
9	Effect of the Interstellar Magnetic Field Draping around the Heliopause on the IBEX Ribbon. Astrophysical Journal Letters, 2019, 876, L21.	8.3	7
10	Observations of X-rays from Laboratory Sparks in Air at Atmospheric Pressure under Negative Switching Impulse Voltages. Atmosphere, 2019, 10, 169.	2.3	8
11	First Observations of Gigantic Jets From Geostationary Orbit. Geophysical Research Letters, 2019, 46, 3999-4006.	4.0	20
12	Generation of EMIC Waves Observed by Van Allen Probes at Low L Shells. Journal of Geophysical Research: Space Physics, 2018, 123, 8533-8556.	2.4	14
13	Thunderstorm charge structures producing gigantic jets. Scientific Reports, 2018, 8, 18085.	3.3	22
14	Broadband RF Interferometric Mapping and Polarization (BIMAP) Observations of Lightning Discharges: Revealing New Physics Insights Into Breakdown Processes. Journal of Geophysical Research D: Atmospheres, 2018, 123, 10,326.	3.3	23
15	Characteristics of Radio Emissions Associated With Terrestrial Gamma-ray Flashes. Journal of Geophysical Research: Space Physics, 2018, 123, 5933-5948.	2.4	26
16	A Terrestrial Gamma-ray Flash inside the Eyewall of Hurricane Patricia. Journal of Geophysical Research D: Atmospheres, 2018, 123, 4977-4987.	3.3	23
17	The Effects of Interplanetary Transport in the Event-integrated Solar Energetic Particle Spectra. Astrophysical Journal, 2017, 836, 31.	4.5	12
18	On production of gamma rays and relativistic runaway electron avalanches from Martian dust storms. Geophysical Research Letters, 2017, 44, 8182-8187.	4.0	6

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19	The impact on the ozone layer from NO _x produced by terrestrial gamma ray flashes. Geophysical Research Letters, 2017, 44, 5240-5245.	4.0	6
20	A Test of the Interstellar Boundary Explorer Ribbon Formation in the Outer Heliosheath. Astrophysical Journal, 2017, 845, 63.	4.5	15
21	Characterizing the source properties of terrestrial gamma ray flashes. Journal of Geophysical Research: Space Physics, 2017, 122, 8915-8932.	2.4	16
22	Do cosmic ray air showers initiate lightning?: A statistical analysis of cosmic ray air showers and lightning mapping array data. Journal of Geophysical Research D: Atmospheres, 2017, 122, 8173-8186.	3.3	6
23	Magnetic field modification to the relativistic runaway electron avalanche length. Journal of Geophysical Research: Space Physics, 2016, 121, 11,261.	2.4	3
24	An analysis of five negative sprite-parent discharges and their associated thunderstorm charge structures. Journal of Geophysical Research D: Atmospheres, 2016, 121, 759-784.	3.3	30
25	Ground-level observation of a terrestrial gamma ray flash initiated by a triggered lightning. Journal of Geophysical Research D: Atmospheres, 2016, 121, 6511-6533.	3.3	74
26	Properties of relatively long streamers initiated from an isolated hydrometeor. Journal of Geophysical Research D: Atmospheres, 2016, 121, 7284-7295.	3.3	30
27	DOUBLE POWER LAWS IN THE EVENT-INTEGRATED SOLAR ENERGETIC PARTICLE SPECTRUM. Astrophysical Journal, 2016, 821, 62.	4.5	31
28	Modification of the lower ionospheric conductivity by thunderstorm electrostatic fields. Geophysical Research Letters, 2016, 43, 5-12.	4.0	9
29	Positron clouds within thunderstorms. Journal of Plasma Physics, 2015, 81, .	2.1	35
30	The energy spectrum of X-rays from rocket-triggered lightning. Journal of Geophysical Research D: Atmospheres, 2015, 120, 10,951.	3.3	6
31	The effect of direct electron-positron pair production on relativistic feedback rates. Journal of Geophysical Research: Space Physics, 2015, 120, 800-806.	2.4	6
32	First images of thunder: Acoustic imaging of triggered lightning. Geophysical Research Letters, 2015, 42, 6051-6057.	4.0	12
33	Source of seed fluctuations for electromagnetic ion cyclotron waves in Earth's magnetosphere. Advances in Space Research, 2015, 55, 2573-2583.	2.6	7
34	Effects of small thundercloud electrostatic fields on the ionospheric density profile. Geophysical Research Letters, 2015, 42, 1619-1625.	4.0	8
35	Streamer formation and branching from model hydrometeors in subbreakdown conditions inside thunderclouds. Journal of Geophysical Research D: Atmospheres, 2015, 120, 3660-3678.	3.3	36
36	A study of thunderstorm microphysical properties and lightning flash counts associated with terrestrial gamma-ray flashes. Journal of Geophysical Research D: Atmospheres, 2015, 120, 3453-3464.	3.3	13

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37	Relativistic electron avalanches as a thunderstorm discharge competing with lightning. <i>Nature Communications</i> , 2015, 6, 7845.	12.8	58
38	Upward electrical discharges observed above Tropical Depression Dorian. <i>Nature Communications</i> , 2015, 6, 5995.	12.8	36
39	The structure of X-ray emissions from triggered lightning leaders measured by a pinhole-type X-ray camera. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 982-1002.	3.3	18
40	Electromagnetic fields of a relativistic electron avalanche with special attention to the origin of lightning signatures known as narrow bipolar pulses. <i>Atmospheric Research</i> , 2014, 149, 346-358.	4.1	18
41	An analytical approach for calculating energy spectra of relativistic runaway electron avalanches in air. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 7794-7823.	2.4	15
42	Model of electromagnetic ion cyclotron waves in the inner magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 7541-7565.	2.4	14
43	Numerical simulations of compact intracloud discharges as the Relativistic Runaway Electron Avalanche-Extensive Air Shower process. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 479-489.	2.4	10
44	Properties of the thundercloud discharges responsible for terrestrial gamma-ray flashes. <i>Geophysical Research Letters</i> , 2013, 40, 4067-4073.	4.0	22
45	Formation of sprite streamers at subbreakdown conditions from ionospheric inhomogeneities resembling observed sprite halo structures. <i>Geophysical Research Letters</i> , 2013, 40, 6282-6287.	4.0	14
46	ACCELERATION OF LOW-ENERGY IONS AT PARALLEL SHOCKS WITH A FOCUSED TRANSPORT MODEL. <i>Astrophysical Journal</i> , 2013, 767, 6.	4.5	19
47	THE ROLE OF CROSS-SHOCK POTENTIAL ON PICKUP ION SHOCK ACCELERATION IN THE FRAMEWORK OF FOCUSED TRANSPORT THEORY. <i>Astrophysical Journal</i> , 2013, 776, 93.	4.5	6
48	GALACTIC COSMIC-RAY MODULATION IN A REALISTIC GLOBAL MAGNETOHYDRODYNAMIC HELIOSPHERE. <i>Astrophysical Journal</i> , 2013, 764, 85.	4.5	23
49	The angular distribution of energetic electron and X-ray emissions from triggered lightning leaders. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 11,712.	3.3	10
50	Luminosity and propagation characteristics of sprite streamers initiated from small ionospheric disturbances at subbreakdown conditions. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	46
51	Observation of a gamma-ray flash at ground level in association with a cloud-to-ground lightning return stroke. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	66
52	Chaotic leaders in triggered lightning: Electric fields, X-rays, and source locations. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	38
53	Spatial and energy distributions of X-ray emissions from leaders in natural and rocket triggered lightning. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	34
54	SELF-CONSISTENT MODEL OF THE INTERSTELLAR PICKUP PROTONS, ALFVÉNIC TURBULENCE, AND CORE SOLAR WIND IN THE OUTER HELIOSPHERE. <i>Astrophysical Journal</i> , 2012, 757, 74.	4.5	23

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55	Formation of Streamer Discharges from an Isolated Ionization Column at Subbreakdown Conditions. <i>Physical Review Letters</i> , 2012, 109, 025002.	7.8	69
56	Effects of pressure and humidity on positive corona inception from thundercloud hydrometeors. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2012, 80, 179-186.	1.6	18
57	The rarity of terrestrial gamma-ray flashes. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	42
58	Comment on "Runaway breakdown and electrical discharges in thunderstorms" by Gennady Milikh and Robert Roussel-Dupre. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	4
59	ENERGY SPECTRUM OF ENERGETIC PARTICLES ACCELERATED BY SHOCK WAVES: FROM FOCUSED TRANSPORT TO DIFFUSIVE ACCELERATION. <i>Astrophysical Journal</i> , 2011, 738, 168.	4.5	24
60	High-speed X-ray images of triggered lightning dart leaders. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	37
61	COSMIC-RAY MODULATION BY THE GLOBAL MERGED INTERACTION REGION IN THE HELIOSHEATH. <i>Astrophysical Journal</i> , 2011, 730, 13.	4.5	23
62	PITCH ANGLE SCATTERING IN THE OUTER HELIOSHEATH AND FORMATION OF THE INTERSTELLAR BOUNDARY EXPLORER RIBBON. <i>Astrophysical Journal</i> , 2010, 725, 2251-2261.	4.5	59
63	The first electric field pulse of cloud and cloud-to-ground lightning discharges. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2010, 72, 143-150.	1.6	26
64	Thunderstorm characteristics associated with RHESSI identified terrestrial gamma ray flashes. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	53
65	Estimation of the fluence of high-energy electron bursts produced by thunderclouds and the resulting radiation doses received in aircraft. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	73
66	COMPOSITION AND SPECTRAL PROPERTIES OF THE 1 AU QUIET-TIME SUPRATHERMAL ION POPULATION DURING SOLAR CYCLE 23. <i>Astrophysical Journal</i> , 2009, 693, 1588-1600.	4.5	78
67	PROPAGATION OF SOLAR ENERGETIC PARTICLES IN THREE-DIMENSIONAL INTERPLANETARY MAGNETIC FIELDS. <i>Astrophysical Journal</i> , 2009, 692, 109-132.	4.5	131
68	On the possible origin of X-rays in long laboratory sparks. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2009, 71, 1890-1898.	1.6	46
69	Prediction of the shock arrival time with SEP observations. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	10
70	Remote measurements of thundercloud electrostatic fields. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	27
71	Lightning Physics and The Study of Climate Change and Sustainability. , 2009, , .		1
72	Studies of magnetotail dynamics and energy evolution during substorms using MHD simulations. <i>Annales Geophysicae</i> , 2009, 27, 1717-1727.	1.6	3

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73	Co-location of lightning leader x-ray and electric field change sources. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	58
74	A study of X-ray emission from laboratory sparks in air at atmospheric pressure. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	92
75	Cosmic Ray Transport and Production in the Galaxy: A Stochastic Propagation Simulation Approach. <i>Astrophysical Journal</i> , 2008, 681, 1334-1340.	4.5	8
76	Ulysses observations of Jovian relativistic electrons in the interplanetary space near Jupiter: Determination of perpendicular particle transport coefficients and their energy dependence. <i>Planetary and Space Science</i> , 2007, 55, 12-20.	1.7	18
77	Runaway breakdown in the Jovian atmospheres. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	23
78	The Model Dependence of Solar Energetic Particle Mean Free Paths under Weak Scattering. <i>Astrophysical Journal</i> , 2005, 627, 562-566.	4.5	29
79	Galactic Cosmic-Ray Modulation Using a Solar Minimum MHD Heliosphere: A Stochastic Particle Approach. <i>Astrophysical Journal</i> , 2005, 634, 1116-1125.	4.5	27
80	X-ray bursts associated with leader steps in cloud-to-ground lightning. <i>Geophysical Research Letters</i> , 2005, 32, .	4.0	168
81	X-ray bursts produced by laboratory sparks in air. <i>Geophysical Research Letters</i> , 2005, 32, .	4.0	87
82	Measurements of x-ray emission from rocket-triggered lightning. <i>Geophysical Research Letters</i> , 2004, 31, n/a-n/a.	4.0	95
83	A ground level gamma-ray burst observed in association with rocket-triggered lightning. <i>Geophysical Research Letters</i> , 2004, 31, n/a-n/a.	4.0	122
84	Plasmaspheric plumes: CRRES observations of enhanced density beyond the plasmopause. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	54
85	Interplanetary Transport Mechanisms of Solar Energetic Particles. <i>Astrophysical Journal</i> , 2004, 609, 1076-1081.	4.5	24
86	Ulysses observations of solar energetic particles from the 14 July 2000 event at high heliographic latitudes. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	40
87	Plasmapause response to geomagnetic storms: CRRES results. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	11
88	Energetic Radiation Produced During Rocket-Triggered Lightning. <i>Science</i> , 2003, 299, 694-697.	12.6	157
89	A new model of the location of the plasmapause: CRRES results. <i>Journal of Geophysical Research</i> , 2002, 107, SMP 2-1.	3.3	223
90	Evidence of different magnetotail responses to small solar wind pressure pulses depending on IMF Bz polarity. <i>Geophysical Research Letters</i> , 2001, 28, 4163-4166.	4.0	3

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91	Comment on "Observations of low-latitude electron precipitation" by R. Lieu, J. Watermann, K. Wilhelm, J. J. Quenby, and W. I. Axford. <i>Journal of Geophysical Research</i> , 1989, 94, 9155-9157.	3.3	1