Hamid K Rassoul

List of Publications by Year
in descending order

91	3,013	159585 30	175258 52
papers	citations	h-index	g-index

91	91	91	1895
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A new model of the location of the plasmapause: CRRES results. Journal of Geophysical Research, 2002, 107, SMP 2-1.	3.3	223
2	X-ray bursts associated with leader steps in cloud-to-ground lightning. Geophysical Research Letters, 2005, 32, .	4.0	168
3	Energetic Radiation Produced During Rocket-Triggered Lightning. Science, 2003, 299, 694-697.	12.6	157
4	PROPAGATION OF SOLAR ENERGETIC PARTICLES IN THREE-DIMENSIONAL INTERPLANETARY MAGNETIC FIELDS. Astrophysical Journal, 2009, 692, 109-132.	4.5	131
5	A ground level gamma-ray burst observed in association with rocket-triggered lightning. Geophysical Research Letters, 2004, 31, n/a-n/a.	4.0	122
6	Measurements of x-ray emission from rocket-triggered lightning. Geophysical Research Letters, 2004, 31, n/a-n/a.	4.0	95
7	A study of Xâ€ray emission from laboratory sparks in air at atmospheric pressure. Journal of Geophysical Research, 2008, 113, .	3.3	92
8	X-ray bursts produced by laboratory sparks in air. Geophysical Research Letters, 2005, 32, .	4.0	87
9	COMPOSITION AND SPECTRAL PROPERTIES OF THE 1 AU QUIET-TIME SUPRATHERMAL ION POPULATION DURING SOLAR CYCLE 23. Astrophysical Journal, 2009, 693, 1588-1600.	4.5	78
10	Groundâ€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
11	Estimation of the fluence of highâ€energy electron bursts produced by thunderclouds and the resulting radiation doses received in aircraft. Journal of Geophysical Research, 2010, 115, .	3.3	73
12	Formation of Streamer Discharges from an Isolated Ionization Column at Subbreakdown Conditions. Physical Review Letters, 2012, 109, 025002.	7.8	69
13	Observation of a gammaâ€ray flash at ground level in association with a cloudâ€toâ€ground lightning return stroke. Journal of Geophysical Research, 2012, 117, .	3.3	66
14	PITCH ANGLE SCATTERING IN THE OUTER HELIOSHEATH AND FORMATION OF THEINTERSTELLAR BOUNDARY EXPLORERRIBBON. Astrophysical Journal, 2010, 725, 2251-2261.	4.5	59
15	Coâ€location of lightning leader xâ€ray and electric field change sources. Geophysical Research Letters, 2008, 35, .	4.0	58
16	Relativistic electron avalanches as a thunderstorm discharge competing with lightning. Nature Communications, 2015, 6, 7845.	12.8	58
17	Plasmaspheric plumes: CRRES observations of enhanced density beyond the plasmapause. Journal of Geophysical Research, 2004, 109, .	3.3	54
18	Thunderstorm characteristics associated with RHESSI identified terrestrial gamma ray flashes. Journal of Geophysical Research, 2010, 115, .	3.3	53

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19	On the possible origin of X-rays in long laboratory sparks. Journal of Atmospheric and Solar-Terrestrial Physics, 2009, 71, 1890-1898.	1.6	46
20	Luminosity and propagation characteristics of sprite streamers initiated from small ionospheric disturbances at subbreakdown conditions. Journal of Geophysical Research, 2012, 117, .	3.3	46
21	The rarity of terrestrial gamma-ray flashes. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	42
22	Ulysses observations of solar energetic particles from the 14 July 2000 event at high heliographic latitudes. Journal of Geophysical Research, 2003, 108, .	3.3	40
23	â€œChaoticâ€•dart leaders in triggered lightning: Electric fields, Xâ€•rays, and source locations. Journal of Geophysical Research, 2012, 117, .	3.3	38
24	High-speed X-ray images of triggered lightning dart leaders. Journal of Geophysical Research, 2011, 116, .	3.3	37
25	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
26	Upward electrical discharges observed above Tropical Depression Dorian. Nature Communications, 2015, 6, 5995.	12.8	36
27	Positron clouds within thunderstorms. Journal of Plasma Physics, 2015, 81, .	2.1	35
28	Spatial and energy distributions of Xâ€•ray emissions from leaders in natural and rocket triggered lightning. Journal of Geophysical Research, 2012, 117, .	3.3	34
29	DOUBLE POWER LAWS IN THE EVENT-INTEGRATED SOLAR ENERGETIC PARTICLE SPECTRUM. Astrophysical Journal, 2016, 821, 62.	4.5	31
30	An analysis of five negative spriteâ€parent discharges and their associated thunderstorm charge structures. Journal of Geophysical Research D: Atmospheres, 2016, 121, 759-784.	3.3	30
31	Properties of relatively long streamers initiated from an isolated hydrometeor. Journal of Geophysical Research D: Atmospheres, 2016, 121, 7284-7295.	3.3	30
32	The Model Dependence of Solar Energetic Particle Mean Free Paths under Weak Scattering. Astrophysical Journal, 2005, 627, 562-566.	4.5	29
33	Galactic Cosmicâ€Ray Modulation Using a Solar Minimum MHD Heliosphere: A Stochastic Particle Approach. Astrophysical Journal, 2005, 634, 1116-1125.	4.5	27
34	Remote measurements of thundercloud electrostatic fields. Journal of Geophysical Research, 2009, 114, .	3.3	27
35	The first electric field pulse of cloud and cloud-to-ground lightning discharges. Journal of Atmospheric and Solar-Terrestrial Physics, 2010, 72, 143-150.	1.6	26
36	Characteristics of Radio Emissions Associated With Terrestrial Gammaâ€Ray Flashes. Journal of Geophysical Research: Space Physics, 2018, 123, 5933-5948.	2.4	26

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37	Interplanetary Transport Mechanisms of Solar Energetic Particles. Astrophysical Journal, 2004, 609, 1076-1081.	4.5	24
38	ENERGY SPECTRUM OF ENERGETIC PARTICLES ACCELERATED BY SHOCK WAVES: FROM FOCUSED TRANSPORT TO DIFFUSIVE ACCELERATION. Astrophysical Journal, 2011, 738, 168.	4.5	24
39	Runaway breakdown in the Jovian atmospheres. Geophysical Research Letters, 2006, 33, .	4.0	23
40	COSMIC-RAY MODULATION BY THE GLOBAL MERGED INTERACTION REGION IN THE HELIOSHEATH. Astrophysical Journal, 2011, 730, 13.	4.5	23
41	SELF-CONSISTENT MODEL OF THE INTERSTELLAR PICKUP PROTONS, ALFVÃ‰NIC TURBULENCE, AND CORE SOLAR WIND IN THE OUTER HELIOSPHERE. Astrophysical Journal, 2012, 757, 74.	4.5	23
42	GALACTIC COSMIC-RAY MODULATION IN A REALISTIC GLOBAL MAGNETOHYDRODYNAMIC HELIOSPHERE. Astrophysical Journal, 2013, 764, 85.	4.5	23
43	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
44	A Terrestrial Gammaâ€Ray Flash inside the Eyewall of Hurricane Patricia. Journal of Geophysical Research D: Atmospheres, 2018, 123, 4977-4987.	3.3	23
45	Properties of the thundercloud discharges responsible for terrestrial gammaâ€ray flashes. Geophysical Research Letters, 2013, 40, 4067-4073.	4.0	22
46	Thunderstorm charge structures producing gigantic jets. Scientific Reports, 2018, 8, 18085.	3.3	22
47	First Observations of Gigantic Jets From Geostationary Orbit. Geophysical Research Letters, 2019, 46, 3999-4006.	4.0	20
48	ACCELERATION OF LOW-ENERGY IONS AT PARALLEL SHOCKS WITH A FOCUSED TRANSPORT MODEL. Astrophysical Journal, 2013, 767, 6.	4.5	19
49	Ulysses observations of Jovian relativistic electrons in the interplanetary space near Jupiter: Determination of perpendicular particle transport coefficients and their energy dependence. Planetary and Space Science, 2007, 55, 12-20.	1.7	18
50	Effects of pressure and humidity on positive corona inception from thundercloud hydrometeors. Journal of Atmospheric and Solar-Terrestrial Physics, 2012, 80, 179-186.	1.6	18
51	The structure of Xâ€ray emissions from triggered lightning leaders measured by a pinholeâ€type Xâ€ray camera. Journal of Geophysical Research D: Atmospheres, 2014, 119, 982-1002.	3.3	18
52	Electromagnetic fields of a relativistic electron avalanche with special attention to the origin of lightning signatures known as narrow bipolar pulses. Atmospheric Research, 2014, 149, 346-358.	4.1	18
53	Characteristics of Currents in Upward Lightning Flashes Initiated From the Gaisberg Tower. IEEE Transactions on Electromagnetic Compatibility, 2019, 61, 705-718.	2.2	18
54	Characterizing the source properties of terrestrial gamma ray flashes. Journal of Geophysical Research: Space Physics, 2017, 122, 8915-8932.	2.4	16

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55	An analytical approach for calculating energy spectra of relativistic runaway electron avalanches in air. Journal of Geophysical Research: Space Physics, 2014, 119, 7794-7823.	2.4	15
56	A Test of the Interstellar Boundary EXplorer Ribbon Formation in the Outer Heliosheath. Astrophysical Journal, 2017, 845, 63.	4.5	15
57	Gamma-Ray and Radio-Frequency Radiation from Thunderstorms Observed from Space and Ground. Scientific Reports, 2020, 10, 7286.	3.3	15
58	Formation of sprite streamers at subbreakdown conditions from ionospheric inhomogeneities resembling observed sprite halo structures. Geophysical Research Letters, 2013, 40, 6282-6287.	4.0	14
59	Model of electromagnetic ion cyclotron waves in the inner magnetosphere. Journal of Geophysical Research: Space Physics, 2014, 119, 7541-7565.	2.4	14
60	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
61	A study of thunderstorm microphysical properties and lightning flash counts associated with terrestrial gammaâ€ray flashes. Journal of Geophysical Research D: Atmospheres, 2015, 120, 3453-3464.	3.3	13
62	First images of thunder: Acoustic imaging of triggered lightning. Geophysical Research Letters, 2015, 42, 6051-6057.	4.0	12
63	The Effects of Interplanetary Transport in the Event-intergrated Solar Energetic Particle Spectra. Astrophysical Journal, 2017, 836, 31.	4.5	12
64	Plasmapause response to geomagnetic storms: CRRES results. Journal of Geophysical Research, 2003, 108, .	3.3	11
65	Prediction of the shock arrival time with SEP observations. Journal of Geophysical Research, 2009, 114, .	3.3	10
66	The angular distribution of energetic electron and Xâ€ray emissions from triggered lightning leaders. Journal of Geophysical Research D: Atmospheres, 2013, 118, 11,712.	3.3	10
67	Numerical simulations of compact intracloud discharges as the Relativistic Runaway Electron Avalancheâ€Extensive Air Shower process. Journal of Geophysical Research: Space Physics, 2014, 119, 479-489.	2.4	10
68	Vertical Temperature Profile of Natural Lightning Return Strokes Derived From Optical Spectra. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD034438.	3.3	10
69	Modification of the lower ionospheric conductivity by thunderstorm electrostatic fields. Geophysical Research Letters, 2016, 43, 5-12.	4.0	9
70	Cosmic Ray Transport and Production in the Galaxy: A Stochastic Propagation Simulation Approach. Astrophysical Journal, 2008, 681, 1334-1340.	4.5	8
71	Effects of small thundercloud electrostatic fields on the ionospheric density profile. Geophysical Research Letters, 2015, 42, 1619-1625.	4.0	8
72	Highâ€Speed Video Observation of a Dart Leader Producing Xâ€rays. Journal of Geophysical Research: Space Physics, 2019, 124, 10564-10570.	2.4	8

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73	Observations of X-rays from Laboratory Sparks in Air at Atmospheric Pressure under Negative Switching Impulse Voltages. Atmosphere, 2019, 10, 169.	2.3	8
74	Source of seed fluctuations for electromagnetic ion cyclotron waves in Earthâ€™s magnetosphere. Advances in Space Research, 2015, 55, 2573-2583.	2.6	7
75	Effect of the Interstellar Magnetic Field Draping around the Heliopause on the IBEX Ribbon. Astrophysical Journal Letters, 2019, 876, L21.	8.3	7
76	Fair Weather Neutron Bursts From Photonuclear Reactions by Extensive Air Shower Core Interactions in the Ground and Implications for Terrestrial Gammaâ€ray Flash Signatures. Geophysical Research Letters, 2021, 48, e2020GL090033.	4.0	7
77	Insights on Spaceâ€Leader Characteristics and Evolution in Natural Negative Cloudâ€toâ€Ground Lightning. Geophysical Research Letters, 2021, 48, e2021GL093614.	4.0	7
78	THE ROLE OF CROSS-SHOCK POTENTIAL ON PICKUP ION SHOCK ACCELERATION IN THE FRAMEWORK OF FOCUSED TRANSPORT THEORY. Astrophysical Journal, 2013, 776, 93.	4.5	6
79	The energy spectrum of Xâ€rays from rocketâ€triggered lightning. Journal of Geophysical Research D: Atmospheres, 2015, 120, 10,951.	3.3	6
80	The effect of direct electronâ€positron pair production on relativistic feedback rates. Journal of Geophysical Research: Space Physics, 2015, 120, 800-806.	2.4	6
81	On production of gamma rays and relativistic runaway electron avalanches from Martian dust storms. Geophysical Research Letters, 2017, 44, 8182-8187.	4.0	6
82	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
83	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
84	Inferences on upward leader characteristics from measured currents. Atmospheric Research, 2021, 251, 105420.	4.1	6
85	Comment on â€œRunaway breakdown and electrical discharges in thunderstormsâ€•by Gennady Milikh and Robert Roussel-DuprÃ©. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	4
86	Streamer discharge initiation from an isolated spherical hydrometeor at subbreakdown condition. Journal of Electrostatics, 2020, 106, 103457.	1.9	4
87	Evidence of different magnetotail responses to small solar wind pressure pulses depending on IMF Bz polarity. Geophysical Research Letters, 2001, 28, 4163-4166.	4.0	3
88	Magnetic field modification to the relativistic runaway electron avalanche length. Journal of Geophysical Research: Space Physics, 2016, 121, 11,261.	2.4	3
89	Studies of magnetotail dynamics and energy evolution during substorms using MHD simulations. Annales Geophysicae, 2009, 27, 1717-1727.	1.6	3
90	Comment on â€œObservations of lowâ€latitude electron precipitationâ€•by R. Lieu, J. Watermann, K. Wilhelm, J. J. Quenby, and W. I. Axford. Journal of Geophysical Research, 1989, 94, 9155-9157.	3.3	1

#	Article	IF	Citations
91	Lightning Physics and The Study of Climate Change and Sustainability. , 2009, , .		1