

Robert E Johnson

List of Publications by Year in descending order

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35
papers

1,654
citations

361045

20
h-index

377514

34
g-index

36
all docs

36
docs citations

36
times ranked

1627
citing authors

#	ARTICLE	IF	CITATIONS
1	Energetic Charged-Particle Interactions with Atmospheres and Surfaces. , 1990, , .		400
2	Atmospheric Escape and Evolution of Terrestrial Planets and Satellites. Space Science Reviews, 2008, 139, 399-436.	3.7	223
3	THERMALLY DRIVEN ATMOSPHERIC ESCAPE: TRANSITION FROM HYDRODYNAMIC TO JEANS ESCAPE. Astrophysical Journal Letters, 2011, 729, L24.	3.0	113
4	O ₂ on Ganymede: Spectral characteristics and plasma formation mechanisms. Geophysical Research Letters, 1996, 23, 673-676.	1.5	87
5	Cross Sections and Reaction Rates for Comparative Planetary Aeronomy. Space Science Reviews, 2008, 139, 63-105.	3.7	74
6	MASSIVE SATELLITES OF CLOSE-IN GAS GIANT EXOPLANETS. Astrophysical Journal, 2009, 704, 1341-1348.	1.6	60
7	MOLECULAR-KINETIC SIMULATIONS OF ESCAPE FROM THE EX-PLANET AND EXOPLANETS: CRITERION FOR TRANSONIC FLOW. Astrophysical Journal Letters, 2013, 768, L4.	3.0	58
8	Investigating the physical properties of transiting hot Jupiters with the 1.5-m Kuiper Telescope. Monthly Notices of the Royal Astronomical Society, 2017, 472, 3871-3886.	1.6	57
9	Investigation of the environment around close-in transiting exoplanets using cloudy. Monthly Notices of the Royal Astronomical Society, 2016, 458, 3880-3891.	1.6	55
10	A three-dimensional azimuthally symmetric model atmosphere for Io: 1. Photochemistry and the accumulation of a nightside atmosphere. Journal of Geophysical Research, 1996, 101, 23243-23254.	3.3	49
11	The importance of pickup oxygen ion precipitation to the Mars upper atmosphere under extreme solar wind conditions. Geophysical Research Letters, 2013, 40, 1922-1927.	1.5	45
12	No sodium in the vapour plumes of Enceladus. Nature, 2009, 459, 1102-1104.	13.7	41
13	Sodium and Potassium Signatures of Volcanic Satellites Orbiting Close-in Gas Giant Exoplanets. Astrophysical Journal, 2019, 885, 168.	1.6	38
14	Observations of molecular oxygen ions in Saturn's inner magnetosphere. Geophysical Research Letters, 2008, 35, .	1.5	35
15	Kinetic simulations of thermal escape from a single component atmosphere. Physics of Fluids, 2011, 23, .	1.6	32
16	Molecular Dynamics Study of Vibrational Excitation Dynamics and Desorption in Solid O ₂ . Journal of Physical Chemistry A, 1999, 103, 2925-2933.	1.1	31
17	SURFACE CHEMISTRY IN THE JOVIAN MAGNETOSPHERE RADIATION ENVIRONMENT. Advanced Series in Physical Chemistry, 2001, , 390-419.	1.5	27
18	Statistical studies on Mars atmospheric sputtering by precipitating pickup O ⁺ : Preparation for the MAVEN mission. Journal of Geophysical Research E: Planets, 2015, 120, 34-50.	1.5	26

#	ARTICLE	IF	CITATIONS
19	Europa Neutral Torus Confirmation and Characterization Based on Observations and Modeling. <i>Astrophysical Journal</i> , 2019, 871, 69.	1.6	26
20	Modeling of the O ⁺ pickup ion sputtering efficiency dependence on solar wind conditions for the Martian atmosphere. <i>Journal of Geophysical Research E: Planets</i> , 2014, 119, 93-108.	1.5	23
21	Neutral H ₂ and H ₂ ⁺ ions in the Saturnian magnetosphere. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	22
22	Dusk over dawn O ₂ asymmetry in Europa's near-surface atmosphere. <i>Planetary and Space Science</i> , 2019, 167, 23-32.	0.9	21
23	THERMAL ESCAPE IN THE HYDRODYNAMIC REGIME: RECONSIDERATION OF PARKER'S ISENTROPIC THEORY BASED ON RESULTS OF KINETIC SIMULATIONS. <i>Astrophysical Journal</i> , 2013, 765, 90.	1.6	19
24	A three-dimensional azimuthally symmetric model atmosphere for Io: 2. Plasma effect on the surface. <i>Journal of Geophysical Research</i> , 1996, 101, 23255-23259.	3.3	15
25	Dusk/dawn atmospheric asymmetries on tidally-locked satellites: O ₂ at Europa. <i>Icarus</i> , 2018, 305, 50-55.	1.1	14
26	Interplanetary weathering: Surface erosion in outer space. <i>Eos</i> , 1996, 77, 141.	0.1	12
27	A tenuous, collisional atmosphere on Callisto. <i>Icarus</i> , 2021, 368, 114597.	1.1	10
28	Observations of sodium in the coma of Comet C/2012 S1 (ISON) during outburst. <i>Icarus</i> , 2015, 247, 313-318.	1.1	9
29	Semiclassical calculation of collisional dissociation cross sections for N+N ₂ . <i>Journal of Chemical Physics</i> , 2002, 117, 6556-6561.	1.2	8
30	The influence of collisions and thermal escape in Callisto's atmosphere. <i>Icarus</i> , 2020, 352, 113932.	1.1	7
31	Electronic effects in MeV ion tracks affecting thin film adhesion. <i>Radiation Effects and Defects in Solids</i> , 1989, 108, 205-209.	0.4	6
32	Desorption of Solid O ₂ Induced by Vibrational Excitations. <i>Journal of Low Temperature Physics</i> , 1998, 111, 747-756.	0.6	3
33	NANOGRAIN DENSITY OUTSIDE SATURN'S A RING. <i>Astrophysical Journal Letters</i> , 2017, 834, L6.	3.0	3
34	Fluid-Kinetic Hybrid Simulation of Atmospheric Escape: Pluto. , 2011, , .		1
35	The influence of upper boundary conditions on molecular kinetic atmospheric escape simulations. <i>Planetary and Space Science</i> , 2021, 205, 105302.	0.9	1