

Robert E Johnson

List of Publications by Year in descending order

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Version: 2024-02-01

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	The influence of upper boundary conditions on molecular kinetic atmospheric escape simulations. Planetary and Space Science, 2021, 205, 105302.	0.9	1
2	A tenuous, collisional atmosphere on Callisto. Icarus, 2021, 368, 114597.	1.1	10
3	The influence of collisions and thermal escape in Callisto's atmosphere. Icarus, 2020, 352, 113932.	1.1	7
4	Europa Neutral Torus Confirmation and Characterization Based on Observations and Modeling. Astrophysical Journal, 2019, 871, 69.	1.6	26
5	Dusk over dawn O ₂ asymmetry in Europa's near-surface atmosphere. Planetary and Space Science, 2019, 167, 23-32.	0.9	21
6	Sodium and Potassium Signatures of Volcanic Satellites Orbiting Close-in Gas Giant Exoplanets. Astrophysical Journal, 2019, 885, 168.	1.6	38
7	Dusk/dawn atmospheric asymmetries on tidally-locked satellites: O ₂ at Europa. Icarus, 2018, 305, 50-55.	1.1	14
8	NANOGRAIN DENSITY OUTSIDE SATURN'S A RING. Astrophysical Journal Letters, 2017, 834, L6.	3.0	3
9	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
10	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
11	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
12	Observations of sodium in the coma of Comet C/2012 S1 (ISON) during outburst. Icarus, 2015, 247, 313-318.	1.1	9
13	Modeling of the O ⁺ pickup ion sputtering efficiency dependence on solar wind conditions for the Martian atmosphere. Journal of Geophysical Research E: Planets, 2014, 119, 93-108.	1.5	23
14	MOLECULAR-KINETIC SIMULATIONS OF ESCAPE FROM THE EX-PLANET AND EXOPLANETS: CRITERION FOR TRANSONIC FLOW. Astrophysical Journal Letters, 2013, 768, L4.	3.0	58
15	THERMAL ESCAPE IN THE HYDRODYNAMIC REGIME: RECONSIDERATION OF PARKER'S ISENTROPIC THEORY BASED ON RESULTS OF KINETIC SIMULATIONS. Astrophysical Journal, 2013, 765, 90.	1.6	19
16	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
17	Neutral H ₂ and H ₂ ⁺ ions in the Saturnian magnetosphere. Journal of Geophysical Research, 2011, 116, .	3.3	22
18	THERMALLY DRIVEN ATMOSPHERIC ESCAPE: TRANSITION FROM HYDRODYNAMIC TO JEANS ESCAPE. Astrophysical Journal Letters, 2011, 729, L24.	3.0	113

#	ARTICLE	IF	CITATIONS
19	Fluid-Kinetic Hybrid Simulation of Atmospheric Escape: Pluto. , 2011, , .		1
20	Kinetic simulations of thermal escape from a single component atmosphere. Physics of Fluids, 2011, 23, .	1.6	32
21	MASSIVE SATELLITES OF CLOSE-IN GAS GIANT EXOPLANETS. Astrophysical Journal, 2009, 704, 1341-1348.	1.6	60
22	No sodium in the vapour plumes of Enceladus. Nature, 2009, 459, 1102-1104.	13.7	41
23	Cross Sections and Reaction Rates for Comparative Planetary Aeronomy. Space Science Reviews, 2008, 139, 63-105.	3.7	74
24	Atmospheric Escape and Evolution of Terrestrial Planets and Satellites. Space Science Reviews, 2008, 139, 399-436.	3.7	223
25	Observations of molecular oxygen ions in Saturn's inner magnetosphere. Geophysical Research Letters, 2008, 35, .	1.5	35
26	Semiclassical calculation of collisional dissociation cross sections for N+N2. Journal of Chemical Physics, 2002, 117, 6556-6561.	1.2	8
27	SURFACE CHEMISTRY IN THE JOVIAN MAGNETOSPHERE RADIATION ENVIRONMENT. Advanced Series in Physical Chemistry, 2001, , 390-419.	1.5	27
28	Molecular Dynamics Study of Vibrational Excitation Dynamics and Desorption in Solid O2. Journal of Physical Chemistry A, 1999, 103, 2925-2933.	1.1	31
29	Desorption of Solid O2 Induced by Vibrational Excitations. Journal of Low Temperature Physics, 1998, 111, 747-756.	0.6	3
30	Interplanetary weathering: Surface erosion in outer space. Eos, 1996, 77, 141.	0.1	12
31	O2on Ganymede: Spectral characteristics and plasma formation mechanisms. Geophysical Research Letters, 1996, 23, 673-676.	1.5	87
32	A three-dimensional azimuthally symmetric model atmosphere for Io: 2. Plasma effect on the surface. Journal of Geophysical Research, 1996, 101, 23255-23259.	3.3	15
33	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
34	Energetic Charged-Particle Interactions with Atmospheres and Surfaces. , 1990, , .		400
35	Electronic effects in MeV ion tracks affecting thin film adhesion. Radiation Effects and Defects in Solids, 1989, 108, 205-209.	0.4	6