

Peter Bodenheimer

List of Publications by Year in descending order

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Version: 2024-02-01

21
papers

4,801
citations

471509

17
h-index

713466

21
g-index

21
all docs

21
docs citations

21
times ranked

2891
citing authors

#	ARTICLE	IF	CITATIONS
1	Formation of the Giant Planets by Concurrent Accretion of Solids and Gas. <i>Icarus</i> , 1996, 124, 62-85.	2.5	2,403
2	Calculations of the accretion and evolution of giant planets: The effects of solid cores. <i>Icarus</i> , 1986, 67, 391-408.	2.5	425
3	Accretion of the gaseous envelope of Jupiter around a 5×10 Earth-mass core. <i>Icarus</i> , 2005, 179, 415-431.	2.5	384
4	Models of Jupiter's growth incorporating thermal and hydrodynamic constraints. <i>Icarus</i> , 2009, 199, 338-350.	2.5	229
5	IN SITU FORMATION AND DYNAMICAL EVOLUTION OF HOT JUPITER SYSTEMS. <i>Astrophysical Journal</i> , 2016, 829, 114.	4.5	215
6	FORMATION AND STRUCTURE OF LOW-DENSITY EXO-NEPTUNES. <i>Astrophysical Journal</i> , 2011, 738, 59.	4.5	213
7	Formation of Jupiter using opacities based on detailed grain physics. <i>Icarus</i> , 2010, 209, 616-624.	2.5	190
8	Ice lines, planetesimal composition and solid surface density in the solar nebula. <i>Icarus</i> , 2009, 200, 672-693.	2.5	117
9	Planetesimal dissolution in the envelopes of the forming, giant planets. <i>Icarus</i> , 1986, 67, 409-443.	2.5	94
10	DEUTERIUM BURNING IN MASSIVE GIANT PLANETS AND LOW-MASS BROWN DWARFS FORMED BY CORE-NUCLEATED ACCRETION. <i>Astrophysical Journal</i> , 2013, 770, 120.	4.5	77
11	THE FORMATION OF URANUS AND NEPTUNE: CHALLENGES AND IMPLICATIONS FOR INTERMEDIATE-MASS EXOPLANETS. <i>Astrophysical Journal</i> , 2014, 789, 69.	4.5	75
12	THREE-DIMENSIONAL RADIATION-HYDRODYNAMICS CALCULATIONS OF THE ENVELOPES OF YOUNG PLANETS EMBEDDED IN PROTOPLANETARY DISKS. <i>Astrophysical Journal</i> , 2013, 778, 77.	4.5	69
13	ACCRETION AND EVOLUTION OF $\sim 4.25 M_{\oplus}$ PLANETS WITH VOLUMINOUS H/He ENVELOPES. <i>Astrophysical Journal</i> , 2014, 791, 103.	4.5	66
14	Jupiter's Formation and Its Primordial Internal Structure. <i>Astrophysical Journal</i> , 2017, 836, 227.	4.5	57
15	The formation of Uranus and Neptune in solid-rich feeding zones: Connecting chemistry and dynamics. <i>Icarus</i> , 2010, 207, 491-498.	2.5	44
16	New Formation Models for the Kepler-36 System. <i>Astrophysical Journal</i> , 2018, 868, 138.	4.5	43
17	IN SITU AND EX SITU FORMATION MODELS OF KEPLER 11 PLANETS. <i>Astrophysical Journal</i> , 2016, 828, 33.	4.5	33
18	Growth of Jupiter: Enhancement of core accretion by a voluminous low-mass envelope. <i>Icarus</i> , 2014, 241, 298-312.	2.5	24

#	ARTICLE	IF	CITATIONS
19	Growth of Jupiter: Formation in disks of gas and solids and evolution to the present epoch. <i>Icarus</i> , 2021, 355, 114087.	2.5	17
20	Detailed Calculations of the Efficiency of Planetesimal Accretion in the Core-accretion Model. <i>Astrophysical Journal</i> , 2020, 899, 45.	4.5	17
21	Mixing of Condensable Constituents with H ₂ during the Formation and Evolution of Jupiter. <i>Planetary Science Journal</i> , 2022, 3, 74.	3.6	9