Seth A Jacobson

List of Publications by Year
in descending order

45 papers	2,984 citations	218677 26 h-index	243625 44 g-index
53 all docs	53 docs citations	53 times ranked	2508 citing authors

#	Article	IF	Citations
1	Early Solar System instability triggered by dispersal of the gaseous disk. Nature, 2022, 604, 643-646.	27.8	33
2	Stochastic accretion of the Earth. Nature Astronomy, 2022, 6, 951-960.	10.1	16
3	Predictions for the Dynamical States of the Didymos System before and after the Planned DART Impact. Planetary Science Journal, 2022, 3, 157.	3.6	23
4	Metalâ€"silicate partitioning of W and Mo and the role of carbon in controlling their abundances in the bulk silicate earth. Geochimica Et Cosmochimica Acta, 2021, 293, 40-69.	3.9	13
5	The Effect of Inefficient Accretion on Planetary Differentiation. Planetary Science Journal, 2021, 2, 93.	3.6	11
6	How Sublimation Delays the Onset of Dusty Debris Disk Formation around White Dwarf Stars. Astrophysical Journal Letters, 2021, 913, L31.	8.3	14
7	Formation of planetary systems by pebble accretion and migration. Astronomy and Astrophysics, 2021, 650, A152.	5.1	85
8	Quantitative estimates of impact induced crustal erosion during accretion and its influence on the Sm/Nd ratio of the Earth. Icarus, 2021, 363, 114412.	2.5	8
9	Scaling laws for the geometry of an impact-induced magma ocean. Earth and Planetary Science Letters, 2021, 568, 116983.	4.4	25
10	The excited spin state of Dimorphos resulting from the DART impact. Icarus, 2021, 370, 114624.	2.5	33
11	The â€˜breaking the chainsâ€™ migration model for super-Earth formation: the effect of collisional fragmentation. Monthly Notices of the Royal Astronomical Society, 2021, 509, 2856-2868.	4.4	13
12	Barrel Instability in Binary Asteroids. Planetary Science Journal, 2021, 2, 231.	3.6	8
13	Population control of Mars Trojans by the Yarkovsky & YORP effects. Icarus, 2020, 335, 113370.	2.5	10
14	Chemical diversity of super-Earths as a consequence of formation. Monthly Notices of the Royal Astronomical Society, 2020, 493, 4910-4924.	4.4	32
15	Formation of compact systems of super-Earths via dynamical instabilities and giant impacts. Monthly Notices of the Royal Astronomical Society, 2020, 491, 5595-5620.	4.4	24
16	Subsolar Al/Si and Mg/Si ratios of non-carbonaceous chondrites reveal planetesimal formation during early condensation in the protoplanetary disk. Earth and Planetary Science Letters, 2020, 538, 116220.	4.4	33
17	Constraints on terrestrial planet formation timescales and equilibration processes in the Grand Tack scenario from Hf-W isotopic evolution. Earth and Planetary Science Letters, 2019, 522, 210-218.	4.4	11
18	Formation of planetary systems by pebble accretion and migration. Astronomy and Astrophysics, 2019, 627, A83.	5.1	149

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19	Formation of planetary systems by pebble accretion and migration: growth of gas giants. Astronomy and Astrophysics, 2019, 623, A88.	5.1	117
20	The Delivery of Water During Terrestrial Planet Formation. Space Science Reviews, 2018, 214, 1.	8.1	76
21	The timeline of the lunar bombardment: Revisited. Icarus, 2018, 305, 262-276.	2.5	186
22	The Delivery of Water During Terrestrial Planet Formation. Space Sciences Series of ISSI, 2018, , 291-314.	0.0	0
23	A Martian origin for the Mars Trojan asteroids. Nature Astronomy, 2017, 1, .	10.1	19
24	Formation, stratification, and mixing of the cores of Earth and Venus. Earth and Planetary Science Letters, 2017, 474, 375-386.	4.4	63
25	Did Jupiter's core form in the innermost parts of the Sun's protoplanetary disc?. Monthly Notices of the Royal Astronomical Society, 2016, 458, 2962-2972.	4.4	46
26	Highly siderophile elements were stripped from Earthâ€™s mantle by iron sulfide segregation. Science, 2016, 353, 1141-1144.	12.6	95
27	Matching asteroid population characteristics with a model constructed from the YORP-induced rotational fission hypothesis. Icarus, 2016, 277, 381-394.	2.5	15
28	Fossilized condensation lines in the Solar System protoplanetary disk. Icarus, 2016, 267, 368-376.	2.5	152
29	Oxygen isotopic evidence for vigorous mixing during the Moon-forming giant impact. Science, 2016, 351, 493-496.	12.6	203
30	Impact-induced melting during accretion of the Earth. Progress in Earth and Planetary Science, 2016, 3, .	3.0	31
31	The formation of striae within cometary dust tails by a sublimation-driven YORP-like effect. Icarus, 2016, 264, 160-171.	2.5	32
32	Multiple origins of asteroid pairs. Proceedings of the International Astronomical Union, 2015, 10, 55-65.	0.0	0
33	The great dichotomy of the Solar System: Small terrestrial embryos and massive giant planet cores. Icarus, 2015, 258, 418-429.	2.5	191
34	Accretion and differentiation of the terrestrial planets with implications for the compositions of early-formed Solar System bodies and accretion of water. Icarus, 2015, 248, 89-108.	2.5	328
35	The binary near-Earth Asteroid (175706) 1996 FG3 â€" An observational constraint on its orbital evolution. Icarus, 2015, 245, 56-63.	2.5	35
36	Formation and Evolution of Binary Asteroids. , 2015, , .		13

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37	Effect of rotational disruption on the sizeâ€“frequency distribution of the Main Belt asteroid population. Monthly Notices of the Royal Astronomical Society: Letters, 2014, 439, L95-L99.	3.3	35
38	Post-main-sequence debris from rotation-induced YORP break-up of small bodies. Monthly Notices of the Royal Astronomical Society, 2014, 445, 2794-2799.	4.4	59
39	FORMATION OF THE WIDE ASYNCHRONOUS BINARY ASTEROID POPULATION. Astrophysical Journal, 2014, 780, 60.	4.5	27
40	Lunar and terrestrial planet formation in the Grand Tack scenario. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2014, 372, 20130174.	3.4	92
41	Highly siderophile elements in Earthâ€™s mantle as a clock for the Moon-forming impact. Nature, 2014, 508, 84-87.	27.8	191
42	Small asteroid system evolution. Proceedings of the International Astronomical Union, 2014, 9, 108-117.	0.0	2
43	Dynamics of rotationally fissioned asteroids: Source of observed small asteroid systems. Icarus, 2011, 214, 161-178.	2.5	179
44	LONG-TERM STABLE EQUILIBRIA FOR SYNCHRONOUS BINARY ASTEROIDS. Astrophysical Journal Letters, 2011, 736, L19.	8.3	55
45	Formation of asteroid pairs by rotational fission. Nature, 2010, 466, 1085-1088.	27.8	171