

# Seth A Jacobson

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4766678/publications.pdf>

Version: 2024-02-01

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	Accretion and differentiation of the terrestrial planets with implications for the compositions of early-formed Solar System bodies and accretion of water. <i>Icarus</i> , 2015, 248, 89-108.	2.5	328
2	Oxygen isotopic evidence for vigorous mixing during the Moon-forming giant impact. <i>Science</i> , 2016, 351, 493-496.	12.6	203
3	Highly siderophile elements in Earth's mantle as a clock for the Moon-forming impact. <i>Nature</i> , 2014, 508, 84-87.	27.8	191
4	The great dichotomy of the Solar System: Small terrestrial embryos and massive giant planet cores. <i>Icarus</i> , 2015, 258, 418-429.	2.5	191
5	The timeline of the lunar bombardment: Revisited. <i>Icarus</i> , 2018, 305, 262-276.	2.5	186
6	Dynamics of rotationally fissioned asteroids: Source of observed small asteroid systems. <i>Icarus</i> , 2011, 214, 161-178.	2.5	179
7	Formation of asteroid pairs by rotational fission. <i>Nature</i> , 2010, 466, 1085-1088.	27.8	171
8	Fossilized condensation lines in the Solar System protoplanetary disk. <i>Icarus</i> , 2016, 267, 368-376.	2.5	152
9	Formation of planetary systems by pebble accretion and migration. <i>Astronomy and Astrophysics</i> , 2019, 627, A83.	5.1	149
10	Formation of planetary systems by pebble accretion and migration: growth of gas giants. <i>Astronomy and Astrophysics</i> , 2019, 623, A88.	5.1	117
11	Highly siderophile elements were stripped from Earth's mantle by iron sulfide segregation. <i>Science</i> , 2016, 353, 1141-1144.	12.6	95
12	Lunar and terrestrial planet formation in the Grand Tack scenario. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2014, 372, 20130174.	3.4	92
13	Formation of planetary systems by pebble accretion and migration. <i>Astronomy and Astrophysics</i> , 2021, 650, A152.	5.1	85
14	The Delivery of Water During Terrestrial Planet Formation. <i>Space Science Reviews</i> , 2018, 214, 1.	8.1	76
15	Formation, stratification, and mixing of the cores of Earth and Venus. <i>Earth and Planetary Science Letters</i> , 2017, 474, 375-386.	4.4	63
16	Post-main-sequence debris from rotation-induced YORP break-up of small bodies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 445, 2794-2799.	4.4	59
17	LONG-TERM STABLE EQUILIBRIA FOR SYNCHRONOUS BINARY ASTEROIDS. <i>Astrophysical Journal Letters</i> , 2011, 736, L19.	8.3	55
18	Did Jupiter's core form in the innermost parts of the Sun's protoplanetary disc?. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 458, 2962-2972.	4.4	46

#	ARTICLE	IF	CITATIONS
19	Effect of rotational disruption on the size-frequency distribution of the Main Belt asteroid population. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2014, 439, L95-L99.	3.3	35
20	The binary near-Earth Asteroid (175706) 1996 FG3 – An observational constraint on its orbital evolution. <i>Icarus</i> , 2015, 245, 56-63.	2.5	35
21	Subsolar Al/Si and Mg/Si ratios of non-carbonaceous chondrites reveal planetesimal formation during early condensation in the protoplanetary disk. <i>Earth and Planetary Science Letters</i> , 2020, 538, 116220.	4.4	33
22	The excited spin state of Dimorphos resulting from the DART impact. <i>Icarus</i> , 2021, 370, 114624.	2.5	33
23	Early Solar System instability triggered by dispersal of the gaseous disk. <i>Nature</i> , 2022, 604, 643-646.	27.8	33
24	The formation of striae within cometary dust tails by a sublimation-driven YORP-like effect. <i>Icarus</i> , 2016, 264, 160-171.	2.5	32
25	Chemical diversity of super-Earths as a consequence of formation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 493, 4910-4924.	4.4	32
26	Impact-induced melting during accretion of the Earth. <i>Progress in Earth and Planetary Science</i> , 2016, 3, .	3.0	31
27	FORMATION OF THE WIDE ASYNCHRONOUS BINARY ASTEROID POPULATION. <i>Astrophysical Journal</i> , 2014, 780, 60.	4.5	27
28	Scaling laws for the geometry of an impact-induced magma ocean. <i>Earth and Planetary Science Letters</i> , 2021, 568, 116983.	4.4	25
29	Formation of compact systems of super-Earths via dynamical instabilities and giant impacts. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 491, 5595-5620.	4.4	24
30	Predictions for the Dynamical States of the Didymos System before and after the Planned DART Impact. <i>Planetary Science Journal</i> , 2022, 3, 157.	3.6	23
31	A Martian origin for the Mars Trojan asteroids. <i>Nature Astronomy</i> , 2017, 1, .	10.1	19
32	Stochastic accretion of the Earth. <i>Nature Astronomy</i> , 2022, 6, 951-960.	10.1	16
33	Matching asteroid population characteristics with a model constructed from the YORP-induced rotational fission hypothesis. <i>Icarus</i> , 2016, 277, 381-394.	2.5	15
34	How Sublimation Delays the Onset of Dusty Debris Disk Formation around White Dwarf Stars. <i>Astrophysical Journal Letters</i> , 2021, 913, L31.	8.3	14
35	Metal-silicate partitioning of W and Mo and the role of carbon in controlling their abundances in the bulk silicate earth. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 293, 40-69.	3.9	13
36	Formation and Evolution of Binary Asteroids. , 2015, , .		13

#	ARTICLE	IF	CITATIONS
37	The "breaking the chains"™ migration model for super-Earth formation: the effect of collisional fragmentation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 509, 2856-2868.	4.4	13
38	Constraints on terrestrial planet formation timescales and equilibration processes in the Grand Tack scenario from Hf-W isotopic evolution. <i>Earth and Planetary Science Letters</i> , 2019, 522, 210-218.	4.4	11
39	The Effect of Inefficient Accretion on Planetary Differentiation. <i>Planetary Science Journal</i> , 2021, 2, 93.	3.6	11
40	Population control of Mars Trojans by the Yarkovsky & YORP effects. <i>Icarus</i> , 2020, 335, 113370.	2.5	10
41	Quantitative estimates of impact induced crustal erosion during accretion and its influence on the Sm/Nd ratio of the Earth. <i>Icarus</i> , 2021, 363, 114412.	2.5	8
42	Barrel Instability in Binary Asteroids. <i>Planetary Science Journal</i> , 2021, 2, 231.	3.6	8
43	Small asteroid system evolution. <i>Proceedings of the International Astronomical Union</i> , 2014, 9, 108-117.	0.0	2
44	Multiple origins of asteroid pairs. <i>Proceedings of the International Astronomical Union</i> , 2015, 10, 55-65.	0.0	0
45	The Delivery of Water During Terrestrial Planet Formation. <i>Space Sciences Series of ISSI</i> , 2018, , 291-314.	0.0	0