

Kathryn Volk

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

50
papers

1,010
citations

19
h-index

31
g-index

51
ext. papers

1,172
ext. citations

5.7
avg, IF

4.75
L-index

#	Paper	IF	Citations
50	The Scattered Disk as the Source of the Jupiter Family Comets. <i>Astrophysical Journal</i> , 2008 , 687, 714-725	4.7	96
49	THE OUTER SOLAR SYSTEM ORIGINS SURVEY. I. DESIGN AND FIRST-QUARTER DISCOVERIES. <i>Astronomical Journal</i> , 2016 , 152, 70	4.9	84
48	CONSOLIDATING AND CRUSHING EXOPLANETS: DID IT HAPPEN HERE?. <i>Astrophysical Journal Letters</i> , 2015 , 806, L26	7.9	75
47	OSSOS. VII. 800+ Trans-Neptunian Objects—the Complete Data Release. <i>Astrophysical Journal, Supplement Series</i> , 2018 , 236, 18	8	71
46	CORRALLING A DISTANT PLANET WITH EXTREME RESONANT KUIPER BELT OBJECTS. <i>Astrophysical Journal Letters</i> , 2016 , 824, L22	7.9	62
45	All planetesimals born near the Kuiper belt formed as binaries. <i>Nature Astronomy</i> , 2017 , 1,	12.1	47
44	Do Centaurs preserve their source inclinations?. <i>Icarus</i> , 2013 , 224, 66-73	3.8	46
43	OSSOS. VI. Striking Biases in the Detection of Large Semimajor Axis Trans-Neptunian Objects. <i>Astronomical Journal</i> , 2017 , 154, 50	4.9	45
42	OSSOS III—RESONANT TRANS-NEPTUNIAN POPULATIONS: CONSTRAINTS FROM THE FIRST QUARTER OF THE OUTER SOLAR SYSTEM ORIGINS SURVEY. <i>Astronomical Journal</i> , 2016 , 152, 23	4.9	42
41	Col-OSSOS:z-Band Photometry Reveals Three Distinct TNO Surface Types. <i>Astronomical Journal</i> , 2017 , 154, 101	4.9	37
40	OSSOS. V. Diffusion in the Orbit of a High-perihelion Distant Solar System Object. <i>Astronomical Journal</i> , 2017 , 153, 262	4.9	30
39	The Curiously Warped Mean Plane of the Kuiper Belt. <i>Astronomical Journal</i> , 2017 , 154, 62	4.9	30
38	29P/Schwassmann-Wachmann 1, A Centaur in the Gateway to the Jupiter-family Comets. <i>Astrophysical Journal Letters</i> , 2019 , 883, L25	7.9	29
37	INCLINATION MIXING IN THE CLASSICAL KUIPER BELT. <i>Astrophysical Journal</i> , 2011 , 736, 11	4.7	27
36	Col-OSSOS: The Colors of the Outer Solar System Origins Survey. <i>Astrophysical Journal, Supplement Series</i> , 2019 , 243, 12	8	22
35	OSSOS. IX. Two Objects in Neptune's 9:1 Resonance—Implications for Resonance Sticking in the Scattering Population. <i>Astronomical Journal</i> , 2018 , 155, 260	4.9	21
34	Carbon Chain Depletion of 21/Borisov. <i>Astrophysical Journal Letters</i> , 2020 , 889, L38	7.9	19

33	Neptune's 5:2 Resonance in the Kuiper Belt. <i>Astronomical Journal</i> , 2018 , 156, 55	4.9	19
32	The effect of orbital evolution on the Haumea (2003 EL61) collisional family. <i>Icarus</i> , 2012 , 221, 106-115	3.8	19
31	Col-OSSOS: Color and Inclination Are Correlated throughout the Kuiper Belt. <i>Astronomical Journal</i> , 2019 , 157, 94	4.9	18
30	OSSOS. IV. DISCOVERY OF A DWARF PLANET CANDIDATE IN THE 9:2 RESONANCE WITH NEPTUNE. <i>Astronomical Journal</i> , 2016 , 152, 212	4.9	16
29	Trans-Neptunian Objects Transiently Stuck in Neptune's Mean-motion Resonances: Numerical Simulations of the Current Population. <i>Astronomical Journal</i> , 2018 , 156, 33	4.9	16
28	Not a simple relationship between Neptune's migration speed and Kuiper belt inclination excitation. <i>Astronomical Journal</i> , 2019 , 158,	4.9	13
27	OSSOS XX: The Meaning of Kuiper Belt Colors. <i>Astronomical Journal</i> , 2020 , 160, 46	4.9	12
26	OSSOS. XIX. Testing Early Solar System Dynamical Models Using OSSOS Centaur Detections. <i>Astronomical Journal</i> , 2019 , 158, 132	4.9	11
25	Dynamical instabilities in systems of multiple short-period planets are likely driven by secular chaos: a case study of Kepler-102. <i>Astronomical Journal</i> , 2020 , 160,	4.9	11
24	Physical Characterization of the 2017 December Outburst of the Centaur 174P/Echeclus. <i>Astronomical Journal</i> , 2019 , 158, 255	4.9	10
23	P/2019 LD2 (ATLAS): An Active Centaur in Imminent Transition to the Jupiter Family. <i>Astrophysical Journal Letters</i> , 2020 , 904, L20	7.9	8
22	OSSOS. XIV. The Plane of the Kuiper Belt. <i>Astronomical Journal</i> , 2019 , 158, 49	4.9	7
21	OSSOS. <i>Astronomy and Astrophysics</i> , 2019 , 621, A102	5.1	7
20	Col-OSSOS: Compositional Homogeneity of Three Kuiper Belt Binaries. <i>Planetary Science Journal</i> , 2020 , 1, 16	2.9	6
19	OSSOS. XXI. Collision Probabilities in the Edgeworth-Kuiper Belt. <i>Astronomical Journal</i> , 2021 , 161, 195	4.9	6
18	OSSOS. XVIII. Constraining Migration Models with the 2:1 Resonance Using the Outer Solar System Origins Survey. <i>Astronomical Journal</i> , 2019 , 158, 214	4.9	5
17	A Software Roadmap for Solar System Science with the Large Synoptic Survey Telescope. <i>Research Notes of the AAS</i> , 2019 , 3, 51	0.8	5
16	An Extremely Temporary Co-orbital: The Dynamical State of Active Centaur 2019 LD2. <i>Research Notes of the AAS</i> , 2020 , 4, 74	0.8	5

15	Machine Learning Classification of Kuiper Belt Populations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020 , 497, 1391-1403	4.3	4
14	K2-138 g: Spitzer Spots a Sixth Planet for the Citizen Science System. <i>Astronomical Journal</i> , 2021 , 161, 219	4.9	4
13	Transneptunian Space. <i>Annual Review of Astronomy and Astrophysics</i> , 2021 , 59, 203-246	31.7	4
12	OSSOS. XII. Variability Studies of 65 Trans-Neptunian Objects Using the Hyper Suprime-Cam. <i>Astrophysical Journal, Supplement Series</i> , 2019 , 244, 19	8	3
11	OSSOS Finds an Exponential Cutoff in the Size Distribution of the Cold Classical Kuiper Belt. <i>Astrophysical Journal Letters</i> , 2021 , 920, L28	7.9	3
10	Contemporaneous Multiwavelength and Preccovery Observations of the Active Centaur P/2019 LD2 (ATLAS). <i>Planetary Science Journal</i> , 2021 , 2, 48	2.9	3
9	OSSOS: The eccentricity and inclination distributions of the stable neptunian Trojans. <i>Icarus</i> , 2021 , 361, 114391	3.8	3
8	A dearth of small members in the Haumea family revealed by OSSOS. <i>Nature Astronomy</i> , 2020 , 4, 89-96	12.1	3
7	OSSOS. XVII. An upper limit on the number of distant planetary objects in the Solar System. <i>Icarus</i> , 2021 , 356, 113793	3.8	2
6	OSSOS. XXIII. 2013 VZ70 and the Temporary Coorbitals of the Giant Planets. <i>Planetary Science Journal</i> , 2021 , 2, 212	2.9	1
5	Col-OSSOS: The Distinct Color Distribution of Single and Binary Cold Classical KBOs. <i>Planetary Science Journal</i> , 2021 , 2, 90	2.9	1
4	Dust Outburst Dynamics and Hazard Assessment for Close Spacecraft-Comet Encounters. <i>Planetary Science Journal</i> , 2021 , 2, 154	2.9	1
3	Free Inclinations for Trans-Neptunian Objects in the Main Kuiper Belt. <i>Astrophysical Journal, Supplement Series</i> , 2022 , 259, 54	8	0
2	OSSOS XXV: Large Populations and Scattering-Sticking in the Distant Trans-Neptunian Resonances. <i>Planetary Science Journal</i> , 2022 , 3, 113	2.9	0
1	Col-OSSOS: Probing Ice Line/Color Transitions within the Kuiper Belt's Progenitor Populations. <i>Planetary Science Journal</i> , 2022 , 3, 9	2.9	0