

Kathryn Volk

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

1,463
citations

279701

23
h-index

345118

36
g-index

51
all docs

51
docs citations

51
times ranked

1151
citing authors

#	ARTICLE	IF	CITATIONS
1	The Scattered Disk as the Source of the Jupiter Family Comets. <i>Astrophysical Journal</i> , 2008, 687, 714-725.	1.6	111
2	OSSOS. VII. 800+ Trans-Neptunian Objectsâ€™The Complete Data Release. <i>Astrophysical Journal, Supplement Series</i> , 2018, 236, 18.	3.0	108
3	THE OUTER SOLAR SYSTEM ORIGINS SURVEY. I. DESIGN AND FIRST-QUARTER DISCOVERIES. <i>Astronomical Journal</i> , 2016, 152, 70.	1.9	105
4	CONSOLIDATING AND CRUSHING EXOPLANETS: DID IT HAPPEN HERE?. <i>Astrophysical Journal Letters</i> , 2015, 806, L26.	3.0	90
5	CORRALLING A DISTANT PLANET WITH EXTREME RESONANT KUIPER BELT OBJECTS. <i>Astrophysical Journal Letters</i> , 2016, 824, L22.	3.0	72
6	All planetesimals born near the Kuiper belt formed as binaries. <i>Nature Astronomy</i> , 2017, 1, .	4.2	63
7	OSSOS. VI. Striking Biases in the Detection of Large Semimajor Axis Trans-Neptunian Objects. <i>Astronomical Journal</i> , 2017, 154, 50.	1.9	62
8	Do Centaurs preserve their source inclinations?. <i>Icarus</i> , 2013, 224, 66-73.	1.1	55
9	OSSOS IIIâ€™RESONANT TRANS-NEPTUNIAN POPULATIONS: CONSTRAINTS FROM THE FIRST QUARTER OF THE OUTER SOLAR SYSTEM ORIGINS SURVEY. <i>Astronomical Journal</i> , 2016, 152, 23.	1.9	52
10	29P/Schwassmannâ€™Wachmann 1, A Centaur in the Gateway to the Jupiter-family Comets. <i>Astrophysical Journal Letters</i> , 2019, 883, L25.	3.0	50
11	The Curiously Warped Mean Plane of the Kuiper Belt. <i>Astronomical Journal</i> , 2017, 154, 62.	1.9	45
12	Col-OSSOS: z-Band Photometry Reveals Three Distinct TNO Surface Types. <i>Astronomical Journal</i> , 2017, 154, 101.	1.9	44
13	Transneptunian Space. <i>Annual Review of Astronomy and Astrophysics</i> , 2021, 59, 203-246.	8.1	36
14	OSSOS. V. Diffusion in the Orbit of a High-perihelion Distant Solar System Object. <i>Astronomical Journal</i> , 2017, 153, 262.	1.9	34
15	INCLINATION MIXING IN THE CLASSICAL KUIPER BELT. <i>Astrophysical Journal</i> , 2011, 736, 11.	1.6	32
16	Col-OSSOS: The Colors of the Outer Solar System Origins Survey. <i>Astrophysical Journal, Supplement Series</i> , 2019, 243, 12.	3.0	31
17	Trans-Neptunian Objects Transiently Stuck in Neptuneâ€™s Mean-motion Resonances: Numerical Simulations of the Current Population. <i>Astronomical Journal</i> , 2018, 156, 33.	1.9	29
18	OSSOS. IX. Two Objects in Neptune's 9:1 Resonanceâ€™Implications for Resonance Sticking in the Scattering Population. <i>Astronomical Journal</i> , 2018, 155, 260.	1.9	29

#	ARTICLE	IF	CITATIONS
19	Neptune's 5:2 Resonance in the Kuiper Belt. <i>Astronomical Journal</i> , 2018, 156, 55.	1.9	26
20	Col-OSSOS: Color and Inclination Are Correlated throughout the Kuiper Belt. <i>Astronomical Journal</i> , 2019, 157, 94.	1.9	26
21	OSSOS XX: The Meaning of Kuiper Belt Colors. <i>Astronomical Journal</i> , 2020, 160, 46.	1.9	26
22	Not a Simple Relationship between Neptune's Migration Speed and Kuiper Belt Inclination Excitation. <i>Astronomical Journal</i> , 2019, 158, 64.	1.9	24
23	Carbon Chain Depletion of 2/Borisov. <i>Astrophysical Journal Letters</i> , 2020, 889, L38.	3.0	24
24	OSSOS Finds an Exponential Cutoff in the Size Distribution of the Cold Classical Kuiper Belt. <i>Astrophysical Journal Letters</i> , 2021, 920, L28.	3.0	22
25	The effect of orbital evolution on the Haumea (2003 EL61) collisional family. <i>Icarus</i> , 2012, 221, 106-115.	1.1	21
26	OSSOS. XIX. Testing Early Solar System Dynamical Models Using OSSOS Centaur Detections. <i>Astronomical Journal</i> , 2019, 158, 132.	1.9	19
27	OSSOS. XIV. The Plane of the Kuiper Belt. <i>Astronomical Journal</i> , 2019, 158, 49.	1.9	19
28	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, 98.	1.9	18
29	OSSOS. IV. DISCOVERY OF A DWARF PLANET CANDIDATE IN THE 9:2 RESONANCE WITH NEPTUNE. <i>Astronomical Journal</i> , 2016, 152, 212.	1.9	17
30	P/2019 LD2 (ATLAS): An Active Centaur in Imminent Transition to the Jupiter Family. <i>Astrophysical Journal Letters</i> , 2020, 904, L20.	3.0	17
31	OSSOS. XXI. Collision Probabilities in the Edgeworth-Kuiper Belt. <i>Astronomical Journal</i> , 2021, 161, 195.	1.9	16
32	Physical Characterization of the 2017 December Outburst of the Centaur 174P/Echeclus. <i>Astronomical Journal</i> , 2019, 158, 255.	1.9	14
33	OSSOS. <i>Astronomy and Astrophysics</i> , 2019, 621, A102.	2.1	11
34	OSSOS. XVIII. Constraining Migration Models with the 2:1 Resonance Using the Outer Solar System Origins Survey. <i>Astronomical Journal</i> , 2019, 158, 214.	1.9	10
35	Contemporaneous Multiwavelength and Preccovery Observations of the Active Centaur P/2019 LD2 (ATLAS). <i>Planetary Science Journal</i> , 2021, 2, 48.	1.5	10
36	Machine learning classification of Kuiper belt populations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 497, 1391-1403.	1.6	9

#	ARTICLE	IF	CITATIONS
37	OSSOS: The eccentricity and inclination distributions of the stable neptunian Trojans. <i>Icarus</i> , 2021, 361, 114391.	1.1	9
38	K2-138 g: Spitzer Spots a Sixth Planet for the Citizen Science System. <i>Astronomical Journal</i> , 2021, 161, 219.	1.9	8
39	An Extremely Temporary Co-orbital: The Dynamical State of Active Centaur 2019 LD2. <i>Research Notes of the AAS</i> , 2020, 4, 74.	0.3	8
40	Col-OSSOS: Compositional Homogeneity of Three Kuiper Belt Binaries. <i>Planetary Science Journal</i> , 2020, 1, 16.	1.5	8
41	OSSOS XXV: Large Populations and Scattering—“Sticking in the Distant Trans-Neptunian Resonances. <i>Planetary Science Journal</i> , 2022, 3, 113.	1.5	8
42	OSSOS. XII. Variability Studies of 65 Trans-Neptunian Objects Using the Hyper Suprime-Cam. <i>Astrophysical Journal, Supplement Series</i> , 2019, 244, 19.	3.0	7
43	Free Inclinations for Trans-Neptunian Objects in the Main Kuiper Belt. <i>Astrophysical Journal, Supplement Series</i> , 2022, 259, 54.	3.0	7
44	A dearth of small members in the Haumea family revealed by OSSOS. <i>Nature Astronomy</i> , 2020, 4, 89-96.	4.2	6
45	A Software Roadmap for Solar System Science with the Large Synoptic Survey Telescope. <i>Research Notes of the AAS</i> , 2019, 3, 51.	0.3	6
46	Col-OSSOS: The Distinct Color Distribution of Single and Binary Cold Classical KBOs. <i>Planetary Science Journal</i> , 2021, 2, 90.	1.5	5
47	OSSOS. XVII. An upper limit on the number of distant planetary objects in the Solar System. <i>Icarus</i> , 2021, 356, 113793.	1.1	4
48	Dust Outburst Dynamics and Hazard Assessment for Close Spacecraft—Comet Encounters. <i>Planetary Science Journal</i> , 2021, 2, 154.	1.5	3
49	OSSOS. XXIII. 2013 VZ ₇₀ and the Temporary Coorbitals of the Giant Planets. <i>Planetary Science Journal</i> , 2021, 2, 212.	1.5	3
50	Col-OSSOS: Probing Ice Line/Color Transitions within the Kuiper Belt’s Progenitor Populations. <i>Planetary Science Journal</i> , 2022, 3, 9.	1.5	3