

John J Kavelaars

List of Publications by Year in Descending Order

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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.

127 papers	4,348 citations	40 h-index	62 g-index
128 ext. papers	4,817 ext. citations	7.4 avg, IF	5.11 L-index

#	Paper	IF	Citations
127	Col-OSSOS: Probing Ice Line/Color Transitions within the Kuiper Belt's Progenitor Populations. <i>Planetary Science Journal</i> , 2022 , 3, 9	2.9	
126	Orbits and Occultation Opportunities of 15 TNOs Observed by New Horizons. <i>Planetary Science Journal</i> , 2022 , 3, 23	2.9	1
125	FOSSIL. II. The Rotation Periods of Small-sized Hilda Asteroids. <i>Astrophysical Journal, Supplement Series</i> , 2022 , 259, 7	8	1
124	Anomalous Flux in the Cosmic Optical Background Detected with New Horizons Observations. <i>Astrophysical Journal Letters</i> , 2022 , 927, L8	7.9	1
123	Report on Three Stellar Occultations by the Excited Kuiper Belt Object 2002 MS4.. <i>Research Notes of the AAS</i> , 2022 , 6, 59	0.8	
122	Navigation and Orbit Estimation for New Horizons' Arrokoth Flyby: Overview, Results and Lessons Learned. <i>Space Science Reviews</i> , 2022 , 218, 1	7.5	
121	2018 August 15 stellar occultation by minor planet (134340) Pluto. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022 , 511, 5550-5559	4.3	
120	The Diverse Shapes of Dwarf Planet and Large KBO Phase Curves Observed from New Horizons. <i>Planetary Science Journal</i> , 2022 , 3, 95	2.9	0
119	A Predicted Dearth of Majority Hypervolatile Ices in Oort Cloud Comets. <i>Planetary Science Journal</i> , 2022 , 3, 112	2.9	1
118	OSSOS XXV: Large Populations and Scattering Sticking in the Distant Trans-Neptunian Resonances. <i>Planetary Science Journal</i> , 2022 , 3, 113	2.9	0
117	OSSOS. XXIII. 2013 VZ70 and the Temporary Coorbitals of the Giant Planets. <i>Planetary Science Journal</i> , 2021 , 2, 212	2.9	1
116	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
115	OSSOS. XXI. Collision Probabilities in the Edgeworth-Kuiper Belt. <i>Astronomical Journal</i> , 2021 , 161, 195	4.9	6
114	On the origin & thermal stability of Arrokoth's and Pluto's ices. <i>Icarus</i> , 2021 , 356, 114072	3.8	15
113	Persephone: A Pluto-system Orbiter and Kuiper Belt Explorer. <i>Planetary Science Journal</i> , 2021 , 2, 75	2.9	4
112	An Astronomical Image Content-based Recommendation System Using Combined Deep Learning Models in a Fully Unsupervised Mode. <i>Astronomical Journal</i> , 2021 , 161, 227	4.9	2
111	Col-OSSOS: The Distinct Color Distribution of Single and Binary Cold Classical KBOs. <i>Planetary Science Journal</i> , 2021 , 2, 90	2.9	1

110	OSSOS: The eccentricity and inclination distributions of the stable neptunian Trojans. <i>Icarus</i> , 2021 , 361, 114391	3.8	3
109	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
108	The Sizes and Albedos of Centaurs 2014 YY49 and 2013 NL24 from Stellar Occultation Measurements by RECON. <i>Planetary Science Journal</i> , 2021 , 2, 22	2.9	1
107	The TAOS II Survey: Real-time Detection and Characterization of Occultation Events. <i>Publications of the Astronomical Society of the Pacific</i> , 2021 , 133, 034503	5	1
106	FOSSIL. I. The Spin Rate Limit of Jupiter Trojans. <i>Planetary Science Journal</i> , 2021 , 2, 191	2.9	1
105	New Horizons Observations of the Cosmic Optical Background. <i>Astrophysical Journal</i> , 2021 , 906, 77	4.7	10
104	Assessment of Astronomical Images Using Combined Machine-learning Models. <i>Astronomical Journal</i> , 2020 , 159, 170	4.9	3
103	Size and Shape Constraints of (486958) Arrokoth from Stellar Occultations. <i>Astronomical Journal</i> , 2020 , 159, 130	4.9	17
102	Color, composition, and thermal environment of Kuiper Belt object (486958) Arrokoth. <i>Science</i> , 2020 , 367,	33.3	35
101	The geology and geophysics of Kuiper Belt object (486958) Arrokoth. <i>Science</i> , 2020 , 367,	33.3	43
100	The solar nebula origin of (486958) Arrokoth, a primordial contact binary in the Kuiper Belt. <i>Science</i> , 2020 , 367,	33.3	40
99	A Single-chord Stellar Occultation by the Extreme Trans-Neptunian Object (541132) Leleʻionua. <i>Astronomical Journal</i> , 2020 , 159, 230	4.9	4
98	OSSOS XX: The Meaning of Kuiper Belt Colors. <i>Astronomical Journal</i> , 2020 , 160, 46	4.9	12
97	Col-OSSOS: Compositional Homogeneity of Three Kuiper Belt Binaries. <i>Planetary Science Journal</i> , 2020 , 1, 16	2.9	6
96	Stellar Occultation by the Resonant Trans-Neptunian Object (523764) 2014 WC510 Reveals a Close Binary TNO. <i>Planetary Science Journal</i> , 2020 , 1, 48	2.9	4
95	Perspectives on the distribution of orbits of distant Trans-Neptunian objects 2020 , 61-77		8
94	A dearth of small members in the Haumea family revealed by OSSOS. <i>Nature Astronomy</i> , 2020 , 4, 89-96	12.1	3
93	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

92	Initial results from the New Horizons exploration of 2014 MU, a small Kuiper Belt object. <i>Science</i> , 2019 , 364,	33.3	80
91	Col-OSSOS: Color and Inclination Are Correlated throughout the Kuiper Belt. <i>Astronomical Journal</i> , 2019 , 157, 94	4.9	18
90	Occultations by Small Non-spherical Trans-Neptunian Objects. I. A New Event Simulator for TAOS II. <i>Publications of the Astronomical Society of the Pacific</i> , 2019 , 131, 064401	5	2
89	Impact craters on Pluto and Charon indicate a deficit of small Kuiper belt objects. <i>Science</i> , 2019 , 363, 955-959	33.3	77
88	Crater Density Predictions for New Horizons Flyby Target 2014 MU69. <i>Astrophysical Journal Letters</i> , 2019 , 872, L5	7.9	19
87	Col-OSSOS: The Colors of the Outer Solar System Origins Survey. <i>Astrophysical Journal, Supplement Series</i> , 2019 , 243, 12	8	22
86	OSSOS. XIX. Testing Early Solar System Dynamical Models Using OSSOS Centaur Detections. <i>Astronomical Journal</i> , 2019 , 158, 132	4.9	11
85	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
84	OSSOS. XIV. The Plane of the Kuiper Belt. <i>Astronomical Journal</i> , 2019 , 158, 49	4.9	7
83	Phase Curves from the Kuiper Belt: Photometric Properties of Distant Kuiper Belt Objects Observed by New Horizons. <i>Astronomical Journal</i> , 2019 , 158, 123	4.9	10
82	OSSOS. XIII. Fossilized Resonant Dropouts Tentatively Confirm Neptune's Migration Was Grainy and Slow. <i>Astronomical Journal</i> , 2019 , 157, 253	4.9	12
81	The color and binarity of (486958) 2014 MU69 and other long-range New Horizons Kuiper Belt targets. <i>Icarus</i> , 2019 , 334, 22-29	3.8	8
80	OSSOS. <i>Astronomy and Astrophysics</i> , 2019 , 621, A102	5.1	7
79	OSSOS. X. How to Use a Survey Simulator: Statistical Testing of Dynamical Models Against the Real Kuiper Belt. <i>Frontiers in Astronomy and Space Sciences</i> , 2018 , 5,	3.8	31
78	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
77	OSSOS. VII. 800+ Trans-Neptunian Objects—The Complete Data Release. <i>Astrophysical Journal, Supplement Series</i> , 2018 , 236, 18	8	71
76	High-precision Orbit Fitting and Uncertainty Analysis of (486958) 2014 MU69. <i>Astronomical Journal</i> , 2018 , 156, 20	4.9	34
75	OSSOS. VIII. The Transition between Two Size Distribution Slopes in the Scattering Disk. <i>Astronomical Journal</i> , 2018 , 155, 197	4.9	38

74	CONSEQUENCES OF A DISTANT MASSIVE PLANET ON THE LARGE SEMIMAJOR AXIS TRANS-NEPTUNIAN OBJECTS. <i>Astronomical Journal</i> , 2017 , 153, 63	4.9	44
73	The Structure of the Distant Kuiper Belt in a Nice Model Scenario. <i>Astronomical Journal</i> , 2017 , 153, 127	4.9	29
72	The Canada-Brance Ecliptic Plane Survey (CFEPS) High-latitude Component. <i>Astronomical Journal</i> , 2017 , 153, 236	4.9	38
71	OSSOS. V. Diffusion in the Orbit of a High-perihelion Distant Solar System Object. <i>Astronomical Journal</i> , 2017 , 153, 262	4.9	30
70	All planetesimals born near the Kuiper belt formed as binaries. <i>Nature Astronomy</i> , 2017 , 1,	12.1	47
69	OBSERVATIONAL SIGNATURES OF A MASSIVE DISTANT PLANET ON THE SCATTERING DISK. <i>Astronomical Journal</i> , 2017 , 153, 33	4.9	24
68	OSSOS. VI. Striking Biases in the Detection of Large Semimajor Axis Trans-Neptunian Objects. <i>Astronomical Journal</i> , 2017 , 154, 50	4.9	45
67	Col-OSSOS: Colors of the Interstellar Planetesimal 11/Dumumua. <i>Astrophysical Journal Letters</i> , 2017 , 851, L38	7.9	75
66	Col-OSSOS:z-Band Photometry Reveals Three Distinct TNO Surface Types. <i>Astronomical Journal</i> , 2017 , 154, 101	4.9	37
65	SONS: The JCMT legacy survey of debris discs in the submillimetre. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017 , 470, 3606-3663	4.3	83
64	The Trans-Neptunian Automated Occultation Survey (TAOS II). <i>Proceedings of the International Astronomical Union</i> , 2017 , 14, 193-196	0.1	
63	A CAREFULLY CHARACTERIZED AND TRACKED TRANS-NEPTUNIAN SURVEY: THE SIZE DISTRIBUTION OF THE PLUTINOS AND THE NUMBER OF NEPTUNIAN TROJANS. <i>Astronomical Journal</i> , 2016 , 152, 111	4.9	47
62	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
61	OSSOS. II. A SHARP TRANSITION IN THE ABSOLUTE MAGNITUDE DISTRIBUTION OF THE KUIPER BELT'S SCATTERING POPULATION. <i>Astronomical Journal</i> , 2016 , 151, 31	4.9	37
60	Insights into Planet Formation from Debris Disks: I. The Solar System as an Archetype for Planetesimal Evolution. <i>Space Sciences Series of ISSI</i> , 2016 , 255-272	0.1	
59	TRIPPy: TRAILED IMAGE PHOTOMETRY IN PYTHON. <i>Astronomical Journal</i> , 2016 , 151, 158	4.9	21
58	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
57	Insights into Planet Formation from Debris Disks: I. The Solar System as an Archetype for Planetesimal Evolution. <i>Space Science Reviews</i> , 2016 , 205, 213-230	7.5	27

56	THE OUTER SOLAR SYSTEM ORIGINS SURVEY. I. DESIGN AND FIRST-QUARTER DISCOVERIES. <i>Astronomical Journal</i> , 2016 , 152, 70	4.9	84
55	Solar System Object Image Search: A precovery search engine. <i>Proceedings of the International Astronomical Union</i> , 2015 , 10, 270-273	0.1	
54	THE 5:1 NEPTUNE RESONANCE AS PROBED BY CFEPs: DYNAMICS AND POPULATION. <i>Astronomical Journal</i> , 2015 , 149, 202	4.9	26
53	Alignment in star-debris disc systems seen by Herschel. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2014 , 438, L31-L35	4.3	60
52	THE NEXT GENERATION VIRGO CLUSTER SURVEY. XV. THE PHOTOMETRIC REDSHIFT ESTIMATION FOR BACKGROUND SOURCES. <i>Astrophysical Journal</i> , 2014 , 797, 102	4.7	25
51	Kuiper Belt Occultation Predictions. <i>Publications of the Astronomical Society of the Pacific</i> , 2013 , 125, 1000-1014	5	5
50	ON A POSSIBLE SIZE/COLOR RELATIONSHIP IN THE KUIPER BELT. <i>Astronomical Journal</i> , 2013 , 146, 75	4.9	2
49	2011 HM102: DISCOVERY OF A HIGH-INCLINATION L5 NEPTUNE TROJAN IN THE SEARCH FOR A POST-PLUTO NEW HORIZONS TARGET. <i>Astronomical Journal</i> , 2013 , 145, 96	4.9	20
48	Resolved debris discs around A stars in the Herschel DEBRIS survey. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013 , 428, 1263-1280	4.3	132
47	A Uranian Trojan and the frequency of temporary giant-planet co-orbitals. <i>Science</i> , 2013 , 341, 994-7	33.3	52
46	DISCOVERY OF A NEW MEMBER OF THE INNER OORT CLOUD FROM THE NEXT GENERATION VIRGO CLUSTER SURVEY. <i>Astrophysical Journal Letters</i> , 2013 , 775, L8	7.9	19
45	LIMITS ON QUAOAR'S ATMOSPHERE. <i>Astrophysical Journal Letters</i> , 2013 , 774, L18	7.9	8
44	A POSSIBLE DIVOT IN THE SIZE DISTRIBUTION OF THE KUIPER BELT'S SCATTERING OBJECTS. <i>Astrophysical Journal Letters</i> , 2013 , 764, L2	7.9	46
43	THE DEBRIS DISK AROUND 10 DORADUS RESOLVED WITH HERSCHEL. <i>Astrophysical Journal</i> , 2013 , 762, 52	4.7	16
42	Locating the Dust in A Star Debris Discs. <i>Proceedings of the International Astronomical Union</i> , 2013 , 8, 330-331	0.1	
41	Herschel imaging of 61 Vir: implications for the prevalence of debris in low-mass planetary systems. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012 , 424, 1206-1223	4.3	94
40	SSOS: A Moving-Object Image Search Tool for Asteroid Precovery. <i>Publications of the Astronomical Society of the Pacific</i> , 2012 , 124, 579-585	5	55
39	COLLISIONAL EVOLUTION OF ULTRA-WIDE TRANS-NEPTUNIAN BINARIES. <i>Astrophysical Journal</i> , 2012 , 744, 139	4.7	46

38	THE RESONANT TRANS-NEPTUNIAN POPULATIONS. <i>Astronomical Journal</i> , 2012 , 144, 23	4.9	105
37	THE NEXT GENERATION VIRGO CLUSTER SURVEY (NGVS). I. INTRODUCTION TO THE SURVEY. <i>Astrophysical Journal, Supplement Series</i> , 2012 , 200, 4	8	261
36	Introduction to the CFHT Legacy Survey final release (CFHTLS T0007) 2012 ,		21
35	A DEBRIS disk around the planet hosting M-star GJ581 spatially resolved withHerschel. <i>Astronomy and Astrophysics</i> , 2012 , 548, A86	5.1	60
34	ON THE FORMATION LOCATION OF URANUS AND NEPTUNE AS CONSTRAINED BY DYNAMICAL AND CHEMICAL MODELS OF COMETS. <i>Astrophysical Journal Letters</i> , 2011 , 734, L30	7.9	37
33	CHARACTERIZATION OF SEVEN ULTRA-WIDE TRANS-NEPTUNIAN BINARIES. <i>Astrophysical Journal</i> , 2011 , 743, 1	4.7	67
32	THE CANADA-FRANCE ECLIPTIC PLANE SURVEYBULL DATA RELEASE: THE ORBITAL STRUCTURE OF THE KUIPER BELT. <i>Astronomical Journal</i> , 2011 , 142, 131	4.9	171
31	A new analysis of the short-duration, hard-spectrum GRB 051103, a possible extragalactic soft gamma repeater giant flare. <i>Monthly Notices of the Royal Astronomical Society</i> , 2010 , 403, 342-352	4.3	37
30	DESTRUCTION OF BINARY MINOR PLANETS DURING NEPTUNE SCATTERING. <i>Astrophysical Journal Letters</i> , 2010 , 722, L204-L208	7.9	85
29	SYSTEMATIC BIASES IN THE OBSERVED DISTRIBUTION OF KUIPER BELT OBJECT ORBITS. <i>Astronomical Journal</i> , 2010 , 139, 2249-2257	4.9	14
28	Pencil-Beam Surveys for Trans-Neptunian Objects: Novel Methods for Optimization and Characterization. <i>Publications of the Astronomical Society of the Pacific</i> , 2010 , 122, 549-559	5	16
27	On the Detection of Two New Trans-Neptunian Binaries from the CFEPS Kuiper Belt Survey. <i>Publications of the Astronomical Society of the Pacific</i> , 2010 , 122, 1030-1034	5	10
26	Pencil-beam surveys for trans-neptunian objects: Limits on distant populations. <i>Icarus</i> , 2010 , 209, 766-770	3.8	4
25	KUIPER BELT OBJECT OCCULTATIONS: EXPECTED RATES, FALSE POSITIVES, AND SURVEY DESIGN. <i>Astronomical Journal</i> , 2009 , 137, 4270-4281	4.9	14
24	THE GLOBULAR CLUSTER SYSTEMS IN THE COMA ELLIPTICALS. IV: WFPC2 PHOTOMETRY FOR FIVE GIANT ELLIPTICALS ,. <i>Astronomical Journal</i> , 2009 , 137, 3314-3328	4.9	46
23	THE CANADA-FRANCE ECLIPTIC PLANE SURVEYB3 DATA RELEASE: THE ORBITAL STRUCTURE OF THE KUIPER BELT. <i>Astronomical Journal</i> , 2009 , 137, 4917-4935	4.9	71
22	On the asteroid belt's orbital and size distribution. <i>Icarus</i> , 2009 , 202, 104-118	3.8	71
21	THE SIZE DISTRIBUTION OF KUIPER BELT OBJECTS FORD? 10 km. <i>Astronomical Journal</i> , 2009 , 137, 72-82	4.9	94

20	The extreme Kuiper Belt binary 2001 QW322. <i>Science</i> , 2008 , 322, 432-4	33.3	37
19	A SEARCH FOR SUB-km KUIPER BELT OBJECTS WITH THE METHOD OF SERENDIPITOUS STELLAR OCCULTATIONS. <i>Astronomical Journal</i> , 2008 , 135, 1039-1049	4.9	35
18	A derivation of the luminosity function of the Kuiper belt from a broken power-law size distribution. <i>Icarus</i> , 2008 , 198, 452-458	3.8	28
17	The Kuiper belt luminosity function from mR=21 to 26. <i>Icarus</i> , 2008 , 195, 827-843	3.8	75
16	The CFEPS Kuiper Belt Survey: Strategy and presurvey results. <i>Icarus</i> , 2006 , 185, 508-522	3.8	40
15	Globular Cluster Systems in Brightest Cluster Galaxies: Bimodal Metallicity Distributions and the Nature of the High-Luminosity Clusters. <i>Astrophysical Journal</i> , 2006 , 636, 90-114	4.7	174
14	Discovery of a Low-Eccentricity, High-Inclination Kuiper Belt Object at 58 AU. <i>Astrophysical Journal</i> , 2006 , 640, L83-L86	4.7	18
13	Exploration of the Kuiper Belt by High-Precision Photometric Stellar Occultations: First Results. <i>Astronomical Journal</i> , 2006 , 132, 819-822	4.9	43
12	The Kuiper Belt luminosity function from mR = 22 to 25. <i>Monthly Notices of the Royal Astronomical Society</i> , 2006 , 365, 429-438	4.3	49
11	Discovery of five irregular moons of Neptune. <i>Nature</i> , 2004 , 430, 865-7	50.4	69
10	A rotational light curve for the Kuiper belt object 1997 CV29. <i>Icarus</i> , 2004 , 167, 220-224	3.8	5
9	The discovery of faint irregular satellites of Uranus. <i>Icarus</i> , 2004 , 169, 474-481	3.8	33
8	The Short Rotation Period of Nereid. <i>Astrophysical Journal</i> , 2003 , 591, L71-L74	4.7	21
7	The Structure of the Kuiper Belt: Size Distribution and Radial Extent. <i>Astronomical Journal</i> , 2001 , 122, 1051-1066	4.9	173
6	Discovery of 12 satellites of Saturn exhibiting orbital clustering. <i>Nature</i> , 2001 , 412, 163-6	50.4	89
5	The Globular Cluster Systems in the Coma Ellipticals. I. The Luminosity Function in NGC 4874 and Implications for Hubble's Constant. <i>Astrophysical Journal</i> , 2000 , 533, 125-136	4.7	30
4	The Globular Cluster Systems in the Coma Ellipticals. II. Metallicity Distribution and Radial Structure in NGC 4874 and Implications for Galaxy Formation. <i>Astrophysical Journal</i> , 2000 , 533, 137-148	4.7	26
3	Discovery of two distant irregular moons of Uranus. <i>Nature</i> , 1998 , 392, 897-899	50.4	62

2	Pencil-Beam Surveys for Faint Trans-Neptunian Objects. <i>Astronomical Journal</i> , 1998 , 116, 2042-2054	4.9	91
1	Kinematics and metallicities of globular clusters in M104. <i>Monthly Notices of the Royal Astronomical Society</i> , 1997 , 284, 376-384	4.3	25