Wesley C Fraser

List of Publications by Year
in descending order

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46 papers	1,903 citations	279798 23 h-index	265206 42 g-index
53 all docs	53 docs citations	53 times ranked	1229 citing authors

#	Article	IF	Citations
1	THE ABSOLUTE MAGNITUDE DISTRIBUTION OF KUIPER BELT OBJECTS. Astrophysical Journal, 2014, 782, 100.	4.5	202
2	RETENTION OF A PRIMORDIAL COLD CLASSICAL KUIPER BELT IN AN INSTABILITY-DRIVEN MODEL OF SOLAR SYSTEM FORMATION. Astrophysical Journal, 2011, 738, 13.	4.5	123
3	Spectroscopy and thermal modelling of the first interstellar object 1I/2017 U1 â€˜Oumuamua. Nature Astronomy, 2018, 2, 133-137.	10.1	113
4	OSSOS. VII. 800+ Trans-Neptunian Objectsâ€”The Complete Data Release. Astrophysical Journal, Supplement Series, 2018, 236, 18.	7.7	108
5	THE OUTER SOLAR SYSTEM ORIGINS SURVEY. I. DESIGN AND FIRST-QUARTER DISCOVERIES. Astronomical Journal, 2016, 152, 70.	4.7	105
6	THE SIZE DISTRIBUTION OF KUIPER BELT OBJECTS FORDâ‰³ 10 km. Astronomical Journal, 2009, 137, 72-82.	4.7	104
7	THE HUBBLE WIDE FIELD CAMERA 3 TEST OF SURFACES IN THE OUTER SOLAR SYSTEM: THE COMPOSITIONAL CLASSES OF THE KUIPER BELT. Astrophysical Journal, 2012, 749, 33.	4.5	97
8	Col-OSSOS: Colors of the Interstellar Planetesimal 1I/â€˜Oumuamua. Astrophysical Journal Letters, 2017, 851, L38.	8.3	96
9	The Kuiper belt luminosity function from <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:msub><mml:mi>m</mml:mi><mml:mi>R</mml:mi></mml:msub><mml:mo>=</mml:mo><mml:mn>21</mml:mn><mml:mm to 26. Icarus, 2008, 195, 827-843.	2.5	82
10	DISCOVERY OF A NEW RETROGRADE TRANS-NEPTUNIAN OBJECT: HINT OF A COMMON ORBITAL PLANE FOR LOW SEMIMAJOR AXIS, HIGH-INCLINATION TNOs AND CENTAURS. Astrophysical Journal Letters, 2016, 827, L24.	8.3	70
11	The luminosity function of the hot and cold Kuiper belt populations. Icarus, 2010, 210, 944-955.	2.5	66
12	All planetesimals born near the Kuiper belt formed as binaries. Nature Astronomy, 2017, 1, .	10.1	63
13	A HYPOTHESIS FOR THE COLOR DIVERSITY OF THE KUIPER BELT. Astrophysical Journal Letters, 2011, 739, L60.	8.3	61
14	The tumbling rotational state of 1I/â€˜Oumuamua. Nature Astronomy, 2018, 2, 383-386.	10.1	59
15	OSSOS. VIII. The Transition between Two Size Distribution Slopes in the Scattering Disk. Astronomical Journal, 2018, 155, 197.	4.7	54
16	WATER ICE IN THE KUIPER BELT. Astronomical Journal, 2012, 143, 146.	4.7	47
17	Col-OSSOS: z-Band Photometry Reveals Three Distinct TNO Surface Types. Astronomical Journal, 2017, 154, 101.	4.7	44
18	THE SURFACE COMPOSITION OF LARGE KUIPER BELT OBJECT 2007 OR10. Astrophysical Journal Letters, 2011, 738, L26.	8.3	39

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19	OSSOS. V. Diffusion in the Orbit of a High-perihelion Distant Solar System Object. Astronomical Journal, 2017, 153, 262.	4.7	34
20	Col-OSSOS: The Colors of the Outer Solar System Origins Survey. Astrophysical Journal, Supplement Series, 2019, 243, 12.	7.7	31
21	TRIPPy: TRAILED IMAGE PHOTOMETRY IN PYTHON. Astronomical Journal, 2016, 151, 158.	4.7	30
22	Col-OSSOS: Color and Inclination Are Correlated throughout the Kuiper Belt. Astronomical Journal, 2019, 157, 94.	4.7	26
23	Size and Shape Constraints of (486958) Arrokoth from Stellar Occultations. Astronomical Journal, 2020, 159, 130.	4.7	25
24	THEHUBBLEWIDE FIELD CAMERA 3 TEST OF SURFACES IN THE OUTER SOLAR SYSTEM: SPECTRAL VARIATION ON KUIPER BELT OBJECTS. Astrophysical Journal, 2015, 804, 31.	4.5	22
25	THE SMALL NUMBERS OF LARGE KUIPER BELT OBJECTS. Astronomical Journal, 2014, 147, 2.	4.7	19
26	OSSOS. IV. DISCOVERY OF A DWARF PLANET CANDIDATE IN THE 9:2 RESONANCE WITH NEPTUNE. Astronomical Journal, 2016, 152, 212.	4.7	17
27	A Dwarf Planet Class Object in the 21:5 Resonance with Neptune. Astrophysical Journal Letters, 2018, 855, L6.	8.3	17
28	2004 EW₉₅: A Phyllosilicate-bearing Carbonaceous Asteroid in the Kuiper Belt. Astrophysical Journal Letters, 2018, 855, L26.	8.3	15
29	A laboratory study of water ice erosion by low-energy ions. Monthly Notices of the Royal Astronomical Society, 2016, 462, 3361-3367.	4.4	12
30	174P/Echeclus and Its Blue Coma Observed Post-outburst. Astronomical Journal, 2019, 157, 88.	4.7	12
31	Investigating gravitational collapse of a pebble cloud to form transneptunian binaries. Astronomy and Astrophysics, 2020, 643, A55.	5.1	12
32	Physical Characterization of TNOs with the James Webb Space Telescope. Publications of the Astronomical Society of the Pacific, 2016, 128, 018010.	3.1	11
33	THE PAN-STARRS 1 DISCOVERIES OF FIVE NEW NEPTUNE TROJANS. Astronomical Journal, 2016, 152, 147.	4.7	11
34	OSSOS. Astronomy and Astrophysics, 2019, 621, A102.	5.1	11
35	FOSSIL. I. The Spin Rate Limit of Jupiter Trojans. Planetary Science Journal, 2021, 2, 191.	3.6	11
36	ATLAS probe: Breakthrough science of galaxy evolution, cosmology, Milky Way, and the Solar System. Publications of the Astronomical Society of Australia, 2019, 36, .	3.4	10

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37	Phoebe: A Surface Dominated by Water. Astronomical Journal, 2018, 156, 23.	4.7	8
38	Col-OSSOS: Compositional Homogeneity of Three Kuiper Belt Binaries. Planetary Science Journal, 2020, 1, 16.	3.6	8
39	A Software Roadmap for Solar System Science with the Large Synoptic Survey Telescope. Research Notes of the AAS, 2019, 3, 51.	0.7	6
40	Col-OSSOS: The Distinct Color Distribution of Single and Binary Cold Classical KBOs. Planetary Science Journal, 2021, 2, 90.	3.6	5
41	Dynamical Implantation of Blue Binaries in the Cold Classical Kuiper Belt. Astronomical Journal, 2022, 163, 137.	4.7	5
42	The Reflectance of Cold Classical Trans-Neptunian Objects in the Nearest Infrared. Planetary Science Journal, 2021, 2, 57.	3.6	3
43	Col-OSSOS: Probing Ice Line/Color Transitions within the Kuiper Beltâ€™s Progenitor Populations. Planetary Science Journal, 2022, 3, 9.	3.6	3
44	Orbits and Occultation Opportunities of 15 TNOs Observed by New Horizons. Planetary Science Journal, 2022, 3, 23.	3.6	3
45	FOSSIL. II. The Rotation Periods of Small-sized Hilda Asteroids. Astrophysical Journal, Supplement Series, 2022, 259, 7.	7.7	3
46	Near-UV Reddening Observed in the Reflectance Spectrum of High-inclination Centaur 2012 DR₃₀. Planetary Science Journal, 2021, 2, 239.	3.6	0