

# Richard Woo

## List of Publications by Year in descending order

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70  
papers

1,687  
citations

257450

24  
h-index

302126

39  
g-index

70  
all docs

70  
docs citations

70  
times ranked

880  
citing authors

#	ARTICLE	IF	CITATIONS
1	Spacecraft radio scattering observations of the power spectrum of electron density fluctuations in the solar wind. <i>Journal of Geophysical Research</i> , 1979, 84, 7288-7296.	3.3	176
2	The Depiction of Coronal Structure in White-Light Images. <i>Solar Physics</i> , 2006, 236, 263-272.	2.5	107
3	Doppler scintillation observations of interplanetary shocks within 0.3 AU. <i>Journal of Geophysical Research</i> , 1985, 90, 154-162.	3.3	85
4	Heliospheric plasma sheet and coronal streamers. <i>Geophysical Research Letters</i> , 1997, 24, 1655-1658.	4.0	67
5	Radio science investigations with Mars Observer. <i>Journal of Geophysical Research</i> , 1992, 97, 7759-7779.	3.3	61
6	Measurements of a solar flare-generated shock wave at 13.1 R <sub>0</sub> . <i>Nature</i> , 1981, 292, 608-610.	27.8	60
7	Eddy diffusion coefficient for the atmosphere of Venus from radio scintillation measurements. <i>Nature</i> , 1981, 289, 383-384.	27.8	55
8	Extension of coronal structure into interplanetary space. <i>Geophysical Research Letters</i> , 1997, 24, 1159-1162.	4.0	55
9	Variation of fractional electron density fluctuations inside 40 R <sub>0</sub> observed by Ulysses ranging measurements. <i>Geophysical Research Letters</i> , 1995, 22, 329-332.	4.0	54
10	Multipacting Discharges between Coaxial Electrodes. <i>Journal of Applied Physics</i> , 1968, 39, 1528-1533.	2.5	52
11	Kilometre-scale structures in the Sun's corona. <i>Nature</i> , 1996, 379, 321-322.	27.8	47
12	Source regions of the slow solar wind. <i>Geophysical Research Letters</i> , 1997, 24, 2535-2538.	4.0	47
13	Finest Filamentary Structures of the Corona in the Slow and Fast Solar Wind. <i>Astrophysical Journal</i> , 1997, 474, L139-L142.	4.5	47
14	Role of Closed Magnetic Fields in Solar Wind Flow. <i>Astrophysical Journal</i> , 2004, 612, 1171-1174.	4.5	42
15	Radio occultation measurements of turbulence in the Venus atmosphere by Pioneer Venus. <i>Journal of Geophysical Research</i> , 1980, 85, 8031-8038.	3.3	40
16	Observations of Small-Scale Turbulence in the Atmosphere of Venus by Mariner 5. <i>Journals of the Atmospheric Sciences</i> , 1974, 31, 1698-1706.	1.7	34
17	Observations of Turbulence in the Atmosphere of Venus using Mariner 10 Radio Occultation Measurements. <i>Journals of the Atmospheric Sciences</i> , 1975, 32, 1084-1090.	1.7	33
18	Imprint of the Sun on the Solar Wind. <i>Astrophysical Journal</i> , 1999, 510, L69-L72.	4.5	31

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19	Small-scale turbulence in the atmosphere of Venus. <i>Icarus</i> , 1982, 52, 335-345.	2.5	29
20	Large-scale solar-wind structure near the Sun detected by Doppler scintillation. <i>Nature</i> , 1993, 366, 543-545.	27.8	27
21	Fine-Scale Filamentary Structure in Coronal Streamers. <i>Astrophysical Journal</i> , 1995, 449, .	4.5	27
22	A synoptic study of Doppler scintillation transients in the solar wind. <i>Journal of Geophysical Research</i> , 1988, 93, 3919-3926.	3.3	26
23	Comparison of Doppler scintillation and in situ spacecraft plasma measurements of interplanetary disturbances. <i>Journal of Geophysical Research</i> , 1991, 96, 21227-21244.	3.3	26
24	On the Predominance of the Radial Component of the Magnetic Field in the Solar Corona. <i>Astrophysical Journal</i> , 2001, 558, 852-858.	4.5	26
25	Radial evolution of density structure in the solar corona. <i>Geophysical Research Letters</i> , 1999, 26, 1793-1796.	4.0	24
26	On the Detection of the Signature of Silicon Nanoparticle Dust Grains in Coronal Holes. <i>Astrophysical Journal</i> , 2003, 592, L87-L90.	4.5	23
27	Evidence for the reversal of magnetic field polarity in coronal streamers. <i>Geophysical Research Letters</i> , 1997, 24, 97-100.	4.0	22
28	Detection of Low-Latitude Plumes in the Outer Corona by [ITAL]Ulysses[/ITAL] Radio Ranging Measurements. <i>Astrophysical Journal</i> , 1996, 464, L95-L98.	4.5	22
29	Radio scintillations during occultations by turbulent planetary atmospheres. <i>Radio Science</i> , 1980, 15, 695-703.	1.6	21
30	A Similarity Principle for Multipacting Discharges. <i>Journal of Applied Physics</i> , 1967, 38, 5240-5244.	2.5	17
31	Latitudinal variation of speed and mass flux in the acceleration region of the solar wind inferred from spectral broadening measurements. <i>Geophysical Research Letters</i> , 1994, 21, 85-88.	4.0	17
32	Doppler scintillation measurements of the heliospheric current sheet and coronal streamers close to the Sun. <i>Space Science Reviews</i> , 1995, 72, 223-228.	8.1	17
33	Solar wind speed structure in the inner corona at 3-12 Ro. <i>Geophysical Research Letters</i> , 1995, 22, 1393-1396.	4.0	17
34	Simultaneous radio scattering and white light observations of a coronal transient. <i>Nature</i> , 1982, 300, 157-159.	27.8	16
35	Connecting the Sun and the Solar Wind: Comparison of the Latitudinal Profiles of Coronal and [ITAL]Ulysses[/ITAL] Measurements of the Fast Wind. <i>Astrophysical Journal</i> , 2001, 549, L253-L256.	4.5	16
36	Relating White-Light Coronal Images to Magnetic Fields and Plasma Flow. <i>Solar Physics</i> , 2005, 231, 71-85.	2.5	16

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37	Extension of the Polar Coronal Hole Boundary into Interplanetary space. <i>Astrophysical Journal</i> , 1999, 513, 961-968.	4.5	16
38	Remote sensing of the turbulence characteristics of a planetary atmosphere by radio occultation of a space probe. <i>Radio Science</i> , 1973, 8, 103-108.	1.6	15
39	Origin and Acceleration of the Slow Solar Wind. <i>Astrophysical Journal</i> , 2005, 629, L129-L132.	4.5	14
40	Measurements of the magnetic field orientation in the Jovian ionosphere deduced from Pioneer 10 and 11 scintillation observations. <i>Journal of Geophysical Research</i> , 1978, 83, 5245-5255.	3.3	13
41	Solar cycle variation of interplanetary disturbances observed as Doppler scintillation transients. <i>Journal of Geophysical Research</i> , 1993, 98, 18999-19004.	3.3	13
42	Connecting the Sun and the solar wind: Source regions of the fast wind observed in interplanetary space. <i>Journal of Geophysical Research</i> , 2000, 105, 12667-12674.	3.3	13
43	Ultra-fine-Scale Filamentary Structures in the Outer Corona and the Solar Magnetic Field. <i>Astrophysical Journal</i> , 2006, 639, L95-L98.	4.5	12
44	Measurements of electron density irregularities in the ionosphere of Jupiter by Pioneer 10. <i>Journal of Geophysical Research</i> , 1976, 81, 3417-3422.	3.3	9
45	Solar wind interaction with the ionosphere of Venus inferred from radio scintillation measurements. <i>Journal of Geophysical Research</i> , 1989, 94, 1473-1478.	3.3	9
46	Mass flux in the ecliptic plane and near the Sun deduced from Doppler scintillation. <i>Geophysical Research Letters</i> , 1994, 21, 1101-1104.	4.0	8
47	Structure in the solar corona from radio scintillation measurements. <i>Astrophysics and Space Science</i> , 1996, 243, 97-104.	1.4	8
48	Measuring solar wind velocity with spacecraft phase scintillations. <i>Nature</i> , 1977, 266, 514-514.	27.8	7
49	Measurements on a shock wave generated by a solar flare. <i>Nature</i> , 1983, 304, 756-756.	27.8	7
50	Spectral broadening measurements of the ionospheres of Jupiter and Saturn. <i>Nature</i> , 1980, 287, 309-311.	27.8	6
51	Filamentary Structures of Coronal White-Light Images. <i>Solar Physics</i> , 2007, 241, 251-261.	2.5	6
52	Space-time localization of inner heliospheric plasma turbulence using multiple spacecraft radio links. <i>Space Weather</i> , 2009, 7, .	3.7	6
53	Observed Associations between the Solar Interior, Corona, and Solar Wind. <i>Astrophysical Journal</i> , 2000, 538, L171-L174.	4.5	6
54	Revealing the True Solar Corona. <i>American Scientist</i> , 2010, 98, 212.	0.1	6

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55	1985 [ITAL]Voyager 2[/ITAL] Radio Ranging Measurements of Coronal Density: Asymmetry in the Radial Profiles Explained. <i>Astrophysical Journal</i> , 1996, 458, .	4.5	5
56	Solar Eclipse Images and the Solar Wind. <i>Astrophysical Journal</i> , 2008, 678, L149-L152.	4.5	4
57	Naked eye observation of the 2017 total solar eclipse: a more complete understanding of the white-light corona. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 485, 4122-4127.	4.4	4
58	Space weather and deep space communications. <i>Space Weather</i> , 2007, 5, .	3.7	3
59	Coronal Streamers Revealed during Solar Eclipses: Seeing is not Believing, and Pictures Can Lie. <i>I-Perception</i> , 2011, 2, 565-568.	1.4	3
60	Comment on: "Polar plumes and fine-scale coronal structures - On the interpretation of coronal radio sounding data" by Pätzold and Bird. <i>Geophysical Research Letters</i> , 1998, 25, 1849-1850.	4.0	2
61	Associating the Solar Wind Measured by Ulysses with its Source at the sun. <i>Space Science Reviews</i> , 2001, 97, 81-85.	8.1	2
62	The solar wind and the Sun-Earth link. <i>Astronomy and Geophysics</i> , 2004, 45, 4.38-4.43.	0.2	2
63	Perception of Solar Eclipses Captured by Art Explains How Imaging Misrepresented the Source of the Solar Wind. <i>I-Perception</i> , 2015, 6, 204166951561371.	1.4	2
64	Reply to: "The Pioneer 6 Faraday rotation transients-On the interpretation of coronal Faraday rotation data" by Pätzold and Bird. <i>Geophysical Research Letters</i> , 1998, 25, 2109-2110.	4.0	1
65	Ubiquitous Open Magnetic Field Lines in the Inner Corona. <i>AIP Conference Proceedings</i> , 2003, , .	0.4	1
66	Mass Ejections Observed in Radio Propagation Measurements Through the Solar Corona. <i>Geophysical Monograph Series</i> , 0, , 235-244.	0.1	1
67	Doppler Scintillation Measurements of the Heliospheric Current Sheet and Coronal Streamers Close to the Sun. , 1995, , 223-228.		1
68	Structure in the Solar Corona from Radio Scintillation Measurements. <i>International Astronomical Union Colloquium</i> , 1996, 154, 97-104.	0.1	0
69	Origin of the Solar Wind and Open Coronal Magnetic Structures. <i>Symposium - International Astronomical Union</i> , 2004, 219, 587-598.	0.1	0
70	Associating the Solar Wind Measured by Ulysses with Its Source at the Sun. , 2001, , 81-85.		0