

J W Armstrong

List of Publications by Year in descending order

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71
papers

4,689
citations

136950

32
h-index

95266

68
g-index

72
all docs

72
docs citations

72
times ranked

2793
citing authors

#	ARTICLE	IF	CITATIONS
1	Electron density power spectrum in the local interstellar medium. <i>Astrophysical Journal</i> , 1995, 443, 209.	4.5	740
2	The Gravity Field and Interior Structure of Enceladus. <i>Science</i> , 2014, 344, 78-80.	12.6	339
3	Time-Delay Interferometry for Space-based Gravitational Wave Searches. <i>Astrophysical Journal</i> , 1999, 527, 814-826.	4.5	237
4	The Tides of Titan. <i>Science</i> , 2012, 337, 457-459.	12.6	237
5	LISA optimal sensitivity. <i>Physical Review D</i> , 2002, 66, .	4.7	182
6	Gravity Field, Shape, and Moment of Inertia of Titan. <i>Science</i> , 2010, 327, 1367-1369.	12.6	177
7	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
8	Density power spectrum in the local interstellar medium. <i>Nature</i> , 1981, 291, 561-564.	27.8	172
9	Cancellation of laser noise in an unequal-arm interferometer detector of gravitational radiation. <i>Physical Review D</i> , 1999, 59, .	4.7	149
10	Spacecraft Doppler tracking: Noise budget and accuracy achievable in precision radio science observations. <i>Radio Science</i> , 2005, 40, n/a-n/a.	1.6	149
11	Time-delay analysis of LISA gravitational wave data: Elimination of spacecraft motion effects. <i>Physical Review D</i> , 2000, 62, .	4.7	125
12	Time-delay interferometry for LISA. <i>Physical Review D</i> , 2002, 65, .	4.7	118
13	Solar cycle changes in the polar solar wind. <i>Nature</i> , 1980, 286, 239-241.	27.8	111
14	Analysis of three-station interplanetary scintillation. <i>Journal of Geophysical Research</i> , 1972, 77, 4602-4610.	3.3	110
15	Time delay interferometry with moving spacecraft arrays. <i>Physical Review D</i> , 2004, 69, .	4.7	101
16	Data combinations accounting for LISA spacecraft motion. <i>Physical Review D</i> , 2003, 68, .	4.7	96
17	Hyperion's sponge-like appearance. <i>Nature</i> , 2007, 448, 50-53.	27.8	90
18	Stochastic Gravitational Wave Background: Upper Limits in the 10^{-6} to 10^{-3} Hz Band. <i>Astrophysical Journal</i> , 2003, 599, 806-813.	4.5	89

#	ARTICLE	IF	CITATIONS
19	Doppler scintillation observations of interplanetary shocks within 0.3 AU. Journal of Geophysical Research, 1985, 90, 154-162.	3.3	85
20	Cassini Radio Science. Space Science Reviews, 2004, 115, 1-70.	8.1	75
21	Discriminating a gravitational wave background from instrumental noise in the LISA detector. Physical Review D, 2000, 63, .	4.7	70
22	Implementation of time-delay interferometry for LISA. Physical Review D, 2003, 67, .	4.7	70
23	Low-Frequency Gravitational Wave Searches Using Spacecraft Doppler Tracking. Living Reviews in Relativity, 2006, 9, 1.	26.7	67
24	Interplanetary phase scintillation and the search for very low frequency gravitational radiation. Astrophysical Journal, 1979, 230, 570.	4.5	64
25	Observations of tropospheric phase scintillations at 5 GHz on vertical paths. Radio Science, 1982, 17, 1579-1586.	1.6	62
26	Measurements of a solar flare-generated shock wave at 13.1 R0. Nature, 1981, 292, 608-610.	27.8	60
27	The Effect of Space and Parabolic Flight on Macrophage Hematopoiesis and Function. Experimental Cell Research, 1995, 216, 160-168.	2.6	55
28	Variation of fractional electron density fluctuations inside 40 R0 observed by Ulysses ranging measurements. Geophysical Research Letters, 1995, 22, 329-332.	4.0	54
29	The Polar Ionosphere of Venus Near the Terminator from Early Pioneer Venus Orbiter Radio Occultations. Science, 1979, 203, 765-768.	12.6	50
30	Skeletal unloading causes organ-specific changes in immune cell responses. Journal of Applied Physiology, 1993, 75, 2734-2739.	2.5	46
31	Multiple scattering calculations of rain effects. Radio Science, 1982, 17, 1425-1433.	1.6	45
32	Radio occultation measurements of turbulence in the Venus atmosphere by Pioneer Venus. Journal of Geophysical Research, 1980, 85, 8031-8038.	3.3	40
33	A search for sinusoidal gravitational radiation in the period range 30-2000 seconds. Astrophysical Journal, 1987, 318, 536.	4.5	32
34	Interplanetary scintillations of PSR 0531 + 21 at 74 MHz. Astrophysical Journal, 1978, 220, 346.	4.5	27
35	Power spectrum of small-scale density irregularities in the interstellar medium. Monthly Notices of the Royal Astronomical Society, 1981, 194, 623-638.	4.4	21
36	Sensitivities of alternate LISA configurations. Classical and Quantum Gravity, 2001, 18, 4059-4065.	4.0	20

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37	Interstellar scintillation and ultra-low-frequency gravitational wave observations. <i>Nature</i> , 1984, 307, 527-528.	27.8	19
38	Chloride conductance of apical membrane in cultured porcine thyroid cells activated by cyclic AMP. <i>Molecular and Cellular Endocrinology</i> , 1992, 88, 105-110.	3.2	17
39	The effects of rM-CSF and rIL-6 therapy on immunosuppressed antiorthostatically suspended mice. <i>Journal of Applied Physiology</i> , 1995, 78, 968-975.	2.5	17
40	Radio wave phase scintillation and precision Doppler tracking of spacecraft. <i>Radio Science</i> , 1998, 33, 1727-1738.	1.6	17
41	Time delay interferometry. <i>Classical and Quantum Gravity</i> , 2003, 20, S283-S289.	4.0	17
42	Measurements of Turbulence in the Venus Atmosphere Deduced from Pioneer Venus Multiprobe Radio Scintillations. <i>Science</i> , 1979, 205, 87-89.	12.6	16
43	Simultaneous radio scattering and white light observations of a coronal transient. <i>Nature</i> , 1982, 300, 157-159.	27.8	16
44	Pioneer 10 search for gravitational waves—no evidence for coherent radiation from Geminga. <i>Nature</i> , 1984, 308, 158-160.	27.8	16
45	Spacecraft Doppler tracking as a narrow-band detector of gravitational radiation. <i>Physical Review D</i> , 1998, 58, .	4.7	16
46	Observations of strong interplanetary scintillation at 74 megahertz. <i>Journal of Geophysical Research</i> , 1972, 77, 2739-2743.	3.3	15
47	Reducing antenna mechanical noise in precision spacecraft tracking. <i>Radio Science</i> , 2008, 43, .	1.6	14
48	Scattering by Pruppacher—Pitter raindrops at 30 GHz. <i>Radio Science</i> , 1982, 17, 757-765.	1.6	13
49	Interleukin-2 therapy reverses some immunosuppressive effects of skeletal unloading. <i>Journal of Applied Physiology</i> , 1994, 77, 584-589.	2.5	13
50	Effects of extracellular matrix proteins on macrophage differentiation, growth, and function: Comparison of liquid and agar culture systems. <i>The Journal of Experimental Zoology</i> , 1994, 269, 178-187.	1.4	13
51	Pulsar timing sensitivity to very-low-frequency gravitational waves. <i>Physical Review D</i> , 2011, 83, .	4.7	12
52	Regulation of thyroid follicular volume by bidirectional transepithelial ion transport. <i>Molecular and Cellular Endocrinology</i> , 1991, 82, R1-R5.	3.2	11
53	Discriminating a gravitational-wave background from instrumental noise using time-delay interferometry. <i>Classical and Quantum Gravity</i> , 2001, 18, 4081-4086.	4.0	10
54	Measurements on a shock wave generated by a solar flare. <i>Nature</i> , 1983, 304, 756-756.	27.8	7

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55	Improved spacecraft radio science using an on-board atomic clock: Application to gravitational wave searches. <i>Physical Review D</i> , 2009, 79, .	4.7	7
56	Upper limits for gravitational radiation from supermassive coalescing binaries. <i>Astrophysical Journal</i> , 1993, 408, 287.	4.5	7
57	Spectral broadening measurements of the ionospheres of Jupiter and Saturn. <i>Nature</i> , 1980, 287, 309-311.	27.8	6
58	Space-time localization of inner heliospheric plasma turbulence using multiple spacecraft radio links. <i>Space Weather</i> , 2009, 7, .	3.7	6
59	Class I and class II major histocompatibility molecules play a role in bone marrow-derived macrophage development. <i>Journal of Leukocyte Biology</i> , 1994, 55, 658-661.	3.3	5
60	Spacecraft Gravitational Wave Experiments. , 1989, , 153-172.		5
61	Coincidence probabilities for spacecraft gravitational wave experiments - Massive coalescing binaries. <i>Astrophysical Journal</i> , 1991, 372, 545.	4.5	5
62	Activation of sodium transport mediates regulation of thyroid follicle volume in response to hypotonic media. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 1993, 264, E644-E649.	3.5	4
63	SyZyGy: A straight interferometric spacecraft system for gravity wave observations. <i>Physical Review D</i> , 2003, 68, .	4.7	4
64	Modulator noise suppression in the LISA time-delay interferometric combinations. <i>Classical and Quantum Gravity</i> , 2008, 25, 015008.	4.0	4
65	Cassini Radio Science. , 2004, , 1-70.		4
66	The future of planetary atmospheric, surface, and interior science using radio and laser links. , 2017, , .		3
67	Gravitation and Celestial Mechanics Investigations with Galileo. , 1992, , 591-610.		2
68	Bispectral analysis of spacecraft radio scintillation*. <i>Waves in Random and Complex Media</i> , 1993, 3, 63-70.	1.5	1
69	A Prototype Radio Transient Survey Instrument for Piggyback Deep Space Network Tracking. <i>Proceedings of the IEEE</i> , 2011, 99, 889-894.	21.3	1
70	BRIGHT MICROWAVE PULSES FROM PSR B0531+21 OBSERVED WITH A PROTOTYPE TRANSIENT SURVEY RECEIVER. <i>Astronomical Journal</i> , 2014, 147, 100.	4.7	1
71	Erratum - Interplanetary Phase Scintillation and the Search for Very Low Frequency Gravitational Radiation. <i>Astrophysical Journal</i> , 1980, 240, 719.	4.5	1