

# J W Armstrong

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/11597150/publications.pdf>

Version: 2024-02-01

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	The future of planetary atmospheric, surface, and interior science using radio and laser links. , 2017, , .		3
2	The Gravity Field and Interior Structure of Enceladus. Science, 2014, 344, 78-80.	12.6	339
3	BRIGHT MICROWAVE PULSES FROM PSR B0531+21 OBSERVED WITH A PROTOTYPE TRANSIENT SURVEY RECEIVER. Astronomical Journal, 2014, 147, 100.	4.7	1
4	The Tides of Titan. Science, 2012, 337, 457-459.	12.6	237
5	Pulsar timing sensitivity to very-low-frequency gravitational waves. Physical Review D, 2011, 83, .	4.7	12
6	A Prototype Radio Transient Survey Instrument for Piggyback Deep Space Network Tracking. Proceedings of the IEEE, 2011, 99, 889-894.	21.3	1
7	Gravity Field, Shape, and Moment of Inertia of Titan. Science, 2010, 327, 1367-1369.	12.6	177
8	Space-time localization of inner heliospheric plasma turbulence using multiple spacecraft radio links. Space Weather, 2009, 7, .	3.7	6
9	Improved spacecraft radio science using an on-board atomic clock: Application to gravitational wave searches. Physical Review D, 2009, 79, .	4.7	7
10	Reducing antenna mechanical noise in precision spacecraft tracking. Radio Science, 2008, 43, .	1.6	14
11	Modulator noise suppression in the LISA time-delay interferometric combinations. Classical and Quantum Gravity, 2008, 25, 015008.	4.0	4
12	Hyperion's sponge-like appearance. Nature, 2007, 448, 50-53.	27.8	90
13	Low-Frequency Gravitational Wave Searches Using Spacecraft Doppler Tracking. Living Reviews in Relativity, 2006, 9, 1.	26.7	67
14	Spacecraft Doppler tracking: Noise budget and accuracy achievable in precision radio science observations. Radio Science, 2005, 40, n/a-n/a.	1.6	149
15	Time delay interferometry with moving spacecraft arrays. Physical Review D, 2004, 69, .	4.7	101
16	Cassini Radio Science. Space Science Reviews, 2004, 115, 1-70.	8.1	75
17	Cassini Radio Science. , 2004, , 1-70.		4
18	SyZyGy: A straight interferometric spacecraft system for gravity wave observations. Physical Review D, 2003, 68, .	4.7	4

#	ARTICLE	IF	CITATIONS
19	Implementation of time-delay interferometry for LISA. <i>Physical Review D</i> , 2003, 67, .	4.7	70
20	Data combinations accounting for LISA spacecraft motion. <i>Physical Review D</i> , 2003, 68, .	4.7	96
21	Time delay interferometry. <i>Classical and Quantum Gravity</i> , 2003, 20, S283-S289.	4.0	17
22	Stochastic Gravitational Wave Background: Upper Limits in the 10 <sup>-6</sup> to 10 <sup>-3</sup> Hz Band. <i>Astrophysical Journal</i> , 2003, 599, 806-813.	4.5	89
23	LISA optimal sensitivity. <i>Physical Review D</i> , 2002, 66, .	4.7	182
24	Time-delay interferometry for LISA. <i>Physical Review D</i> , 2002, 65, .	4.7	118
25	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
26	Sensitivities of alternate LISA configurations. <i>Classical and Quantum Gravity</i> , 2001, 18, 4059-4065.	4.0	20
27	Discriminating a gravitational wave background from instrumental noise in the LISA detector. <i>Physical Review D</i> , 2000, 63, .	4.7	70
28	Time-delay analysis of LISA gravitational wave data: Elimination of spacecraft motion effects. <i>Physical Review D</i> , 2000, 62, .	4.7	125
29	Cancellation of laser noise in an unequal-arm interferometer detector of gravitational radiation. <i>Physical Review D</i> , 1999, 59, .	4.7	149
30	Time-Delay Interferometry for Space-Based Gravitational Wave Searches. <i>Astrophysical Journal</i> , 1999, 527, 814-826.	4.5	237
31	Radio wave phase scintillation and precision Doppler tracking of spacecraft. <i>Radio Science</i> , 1998, 33, 1727-1738.	1.6	17
32	Spacecraft Doppler tracking as a narrow-band detector of gravitational radiation. <i>Physical Review D</i> , 1998, 58, .	4.7	16
33	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
34	The Effect of Space and Parabolic Flight on Macrophage Hematopoiesis and Function. <i>Experimental Cell Research</i> , 1995, 216, 160-168.	2.6	55
35	Variation of fractional electron density fluctuations inside 40 R observed by Ulysses ranging measurements. <i>Geophysical Research Letters</i> , 1995, 22, 329-332.	4.0	54
36	Electron density power spectrum in the local interstellar medium. <i>Astrophysical Journal</i> , 1995, 443, 209.	4.5	740

#	ARTICLE	IF	CITATIONS
37	Interleukin-2 therapy reverses some immunosuppressive effects of skeletal unloading. <i>Journal of Applied Physiology</i> , 1994, 77, 584-589.	2.5	13
38	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
39	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
40	Bispectral analysis of spacecraft radio scintillation*. <i>Waves in Random and Complex Media</i> , 1993, 3, 63-70.	1.5	1
41	Skeletal unloading causes organ-specific changes in immune cell responses. <i>Journal of Applied Physiology</i> , 1993, 75, 2734-2739.	2.5	46
42	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
43	Upper limits for gravitational radiation from supermassive coalescing binaries. <i>Astrophysical Journal</i> , 1993, 408, 287.	4.5	7
44	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
45	Gravitation and Celestial Mechanics Investigations with Galileo. , 1992, , 591-610.		2
46	Regulation of thyroid follicular volume by bidirectional transepithelial ion transport. <i>Molecular and Cellular Endocrinology</i> , 1991, 82, R1-R5.	3.2	11
47	Coincidence probabilities for spacecraft gravitational wave experiments - Massive coalescing binaries. <i>Astrophysical Journal</i> , 1991, 372, 545.	4.5	5
48	Spacecraft Gravitational Wave Experiments. , 1989, , 153-172.		5
49	A search for sinusoidal gravitational radiation in the period range 30-2000 seconds. <i>Astrophysical Journal</i> , 1987, 318, 536.	4.5	32
50	Doppler scintillation observations of interplanetary shocks within 0.3 AU. <i>Journal of Geophysical Research</i> , 1985, 90, 154-162.	3.3	85
51	Interstellar scintillation and ultra-low-frequency gravitational wave observations. <i>Nature</i> , 1984, 307, 527-528.	27.8	19
52	Pioneer 10 search for gravitational waves—no evidence for coherent radiation from Geminga. <i>Nature</i> , 1984, 308, 158-160.	27.8	16
53	Measurements on a shock wave generated by a solar flare. <i>Nature</i> , 1983, 304, 756-756.	27.8	7
54	Scattering by Pruppacher-Pitter raindrops at 30 GHz. <i>Radio Science</i> , 1982, 17, 757-765.	1.6	13

#	ARTICLE	IF	CITATIONS
55	Multiple scattering calculations of rain effects. <i>Radio Science</i> , 1982, 17, 1425-1433.	1.6	45
56	Observations of tropospheric phase scintillations at 5 GHz on vertical paths. <i>Radio Science</i> , 1982, 17, 1579-1586.	1.6	62
57	Simultaneous radio scattering and white light observations of a coronal transient. <i>Nature</i> , 1982, 300, 157-159.	27.8	16
58	Density power spectrum in the local interstellar medium. <i>Nature</i> , 1981, 291, 561-564.	27.8	172
59	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
60	Power spectrum of small-scale density irregularities in the interstellar medium. <i>Monthly Notices of the Royal Astronomical Society</i> , 1981, 194, 623-638.	4.4	21
61	Solar cycle changes in the polar solar wind. <i>Nature</i> , 1980, 286, 239-241.	27.8	111
62	Spectral broadening measurements of the ionospheres of Jupiter and Saturn. <i>Nature</i> , 1980, 287, 309-311.	27.8	6
63	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
64	Erratum - Interplanetary Phase Scintillation and the Search for Very Low Frequency Gravitational Radiation. <i>Astrophysical Journal</i> , 1980, 240, 719.	4.5	1
65	The Polar Ionosphere of Venus Near the Terminator from Early Pioneer Venus Orbiter Radio Occultations. <i>Science</i> , 1979, 203, 765-768.	12.6	50
66	Measurements of Turbulence in the Venus Atmosphere Deduced from Pioneer Venus Multiprobe Radio Scintillations. <i>Science</i> , 1979, 205, 87-89.	12.6	16
67	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
68	Interplanetary phase scintillation and the search for very low frequency gravitational radiation. <i>Astrophysical Journal</i> , 1979, 230, 570.	4.5	64
69	Interplanetary scintillations of PSR 0531 + 21 at 74 MHz. <i>Astrophysical Journal</i> , 1978, 220, 346.	4.5	27
70	Observations of strong interplanetary scintillation at 74 megahertz. <i>Journal of Geophysical Research</i> , 1972, 77, 2739-2743.	3.3	15
71	Analysis of three-station interplanetary scintillation. <i>Journal of Geophysical Research</i> , 1972, 77, 4602-4610.	3.3	110