# William J Plant

List of Publications by Year
in descending order

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|---|---|---|---|
| 52 papers | 2,349 citations | 257101 24 h-index | 264894 42 g-index |
| 52 all docs | 52 docs citations | 52 times ranked | 1096 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | A relationship between wind stress and wave slope. Journal of Geophysical Research, 1982, 87, 1961-1967. | 3.3 | 441 |
| 2 | A twoâ€scale model of short windâ€generated waves and scatterometry. Journal of Geophysical Research, 1986, 91, 10735-10749. | 3.3 | 201 |
| 3 | measuring stream discharge by non-contact methods: A Proof-of-Concept Experiment. Geophysical Research Letters, 2000, 27, 553-556. | 1.5 | 159 |
| 4 | Evidence of Bragg scattering in microwave Doppler spectra of sea return. Journal of Geophysical Research, 1990, 95, 16299-16310. | 3.3 | 149 |
| 5 | A model for microwave Doppler sea return at high incidence angles: Bragg scattering from bound, tilted waves. Journal of Geophysical Research, 1997, 102, 21131-21146. | 3.3 | 123 |
| 6 | A stochastic, multiscale model of microwave backscatter from the ocean. Journal of Geophysical Research, 2002, 107, 3-1. | 3.3 | 118 |
| 7 | Bragg Scattering of Electromagnetic Waves from the Air/Sea Interface. , 1990, , 41-108. | | 98 |
| 8 | Hydrodynamic modulation of short wind-wave spectra by long waves and its measurement using microwave backscatter. Journal of Geophysical Research, 1994, 99, 9767. | 3.3 | 85 |
| 9 | Microwave sea return at moderate to high incidence angles. Waves in Random and Complex Media, 2003, 13, 339-354. | 1.5 | 71 |
| 10 | Surface effect of rain on microwave backscatter from the ocean: Measurements and modeling. Journal of Geophysical Research, 2006, 111, . | 3.3 | 61 |
| 11 | The Modulation Transfer Function: Concept and Applications. , 1989, , 155-172. | | 59 |
| 12 | Effects of rain on Ku-band backscatter from the ocean. Journal of Geophysical Research, 2003, 108, . | 3.3 | 57 |
| 13 | The dependence of microwave backscatter from the sea on illuminated area: Correlation times and lengths. Journal of Geophysical Research, 1994, 99, 9705. | 3.3 | 54 |
| 14 | Bound waves and Bragg scattering in a wind-wave tank. Journal of Geophysical Research, 1999, 104, 3243-3263. | 3.3 | 52 |
| 15 | Wave shadowing and modulation of microwave backscatter from the ocean. Journal of Geophysical Research, 2012, 117, . | 3.3 | 43 |
| 16 | Optical and Microwave Detection of Wave Breaking in the Surf Zone. IEEE Transactions on Geoscience and Remote Sensing, 2011, 49, 1879-1893. | 2.7 | 39 |
| 17 | An analysis of the effects of swell and surface roughness spectra on microwave backscatter from the ocean. Journal of Geophysical Research, 2010, 115, . | 3.3 | 38 |
| 18 | A new interpretation of sea-surface slope probability density functions. Journal of Geophysical Research, 2003, 108, . | 3.3 | 37 |

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|---|---|---|---|
| 19 | Measurements of the Marine Boundary Layer from an Airship. Journal of Atmospheric and Oceanic Technology, 1998, 15, 1433-1458. | 0.5 | 31 |
| 20 | A threshold for windâ€wave growth. Journal of Geophysical Research, 2009, 114, . | 3.3 | 31 |
| 21 | Effects of wind variability on scatterometry at low wind speeds. Journal of Geophysical Research, 2000, 105, 16899-16910. | 3.3 | 30 |
| 22 | Simultaneous acoustic and microwave backscattering from the sea surface. Journal of the Acoustical Society of America, 1997, 101, 2583-2595. | 0.5 | 28 |
| 23 | Modulation of short wind waves by long waves. Journal of Geophysical Research, 2010, 115, . | 3.3 | 26 |
| 24 | Origins of features in wave numberâ€frequency spectra of spaceâ€time images of the ocean. Journal of Geophysical Research, 2012, 117, . | 3.3 | 26 |
| 25 | Microwave and acoustic scattering from parasitic capillary waves. Journal of Geophysical Research, 1999, 104, 25853-25866. | 3.3 | 25 |
| 26 | Normalized radar cross section of the sea for backscatter: 1. Mean levels. Journal of Geophysical Research, 2010, 115, . | 3.3 | 24 |
| 27 | Whitecaps in deep water. Geophysical Research Letters, 2012, 39, . | 1.5 | 24 |
| 28 | Simultaneous Measurement of Ocean Winds and Waves with an Airborne Coherent Real Aperture Radar. Journal of Atmospheric and Oceanic Technology, 2005, 22, 832-846. | 0.5 | 22 |
| 29 | Bound and free surface waves in a large wind-wave tank. Journal of Geophysical Research, 2004, 109, . | 3.3 | 21 |
| 30 | Remotely sensed river surface features compared with modeling and in situ measurements. Journal of Geophysical Research, 2009, 114, . | 3.3 | 21 |
| 31 | Streamflow Properties from Time Series of Surface Velocity and Stage. Journal of Hydraulic Engineering, 2005, 131, 657-664. | 0.7 | 20 |
| 32 | The Ocean Wave Height Variance Spectrum: Wavenumber Peak versus Frequency Peak. Journal of Physical Oceanography, 2009, 39, 2382-2383. | 0.7 | 19 |
| 33 | Frontogenesis and Frontal Progression of a Trapping-Generated Estuarine Convergence Front and Its Influence on Mixing and Stratification. Estuaries and Coasts, 2012, 35, 665-681. | 1.0 | 18 |
| 34 | Microwave backscattering from surf zone waves. Journal of Geophysical Research: Oceans, 2014, 119, 3098-3120. | 1.0 | 18 |
| 35 | A joint active/passive physical model of sea surface microwave signatures. Journal of Geophysical Research: Oceans, 2017, 122, 3219-3239. | 1.0 | 17 |
| 36 | Normalized radar cross section of the sea for backscatter: 2. Modulation by internal waves. Journal of Geophysical Research, 2010, 115, . | 3.3 | 15 |

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|---|---|---|---|
| 37 | The variability of high-frequency acoustic backscatter from the region near the sea surface. Journal of the Acoustical Society of America, 1997, 101, 2596-2602. | 0.5 | 11 |
| 38 | Characteristics of Internal Waves in the South China Sea Observed by a Shipboard Coherent Radar. IEEE Journal of Oceanic Engineering, 2011, 36, 441-446. | 2.1 | 9 |
| 39 | Short wind waves on the ocean: Wavenumberâ€frequency spectra. Journal of Geophysical Research: Oceans, 2015, 120, 2147-2158. | 1.0 | 6 |
| 40 | Comparison of Scatterometer and Radiometer Wind Vector Measurements. Journal of Atmospheric and Oceanic Technology, 2002, 19, 100-113. | 0.5 | 4 |
| 41 | On the sub-grid-scale variability of oceanic winds and the accuracy of numerical weather prediction models as deduced from QuikSCAT backscatter distributions. Journal of Geophysical Research, 2007, 112, . | 3.3 | 3 |
| 42 | Relating Microwave Modulation to Microbreaking Observed in Infrared Imagery. IEEE Geoscience and Remote Sensing Letters, 2008, 5, 364-367. | 1.4 | 3 |
| 43 | River Current Measurement Using Coherent Microwave Radar: Toward Gaging Unstable Streams. , 2008, , . | | 3 |
| 44 | Short wind waves on the ocean: Longâ€wave and windâ€speed dependences. Journal of Geophysical Research: Oceans, 2015, 120, 6436-6444. | 1.0 | 3 |
| 45 | Directional Surface Wave Spectra from Point Measurements of Height and Slope. Journal of Atmospheric and Oceanic Technology, 2020, 37, 67-83. | 0.5 | 2 |
| 46 | X-band backscatter from the ocean at low-grazing angles. , 2007, , . | | 1 |
| 47 | Measuring and Modeling the NRCS of the Sea for Backscatter. , 2008, , . | | 1 |
| 48 | Swell influence on ocean surface roughness and radar scattering from the ocean surface. , 2009, , . | | 1 |
| 49 | SURF ZONE WAVE BREAKING IDENTIFICATION USING MARINE RADAR. , 2009, , . | | 1 |
| 50 | Characteristics of internal waves in the South China Sea Observed by a shipboard coherent radar. , 2010, , . | | 0 |
| 51 | Dual-polarized, coherent microwave backscatter from rough water surfaces at low grazing angles. , 2010, , . | | 0 |
| 52 | Whitecaps in deep water. , 2012, , . | | 0 |