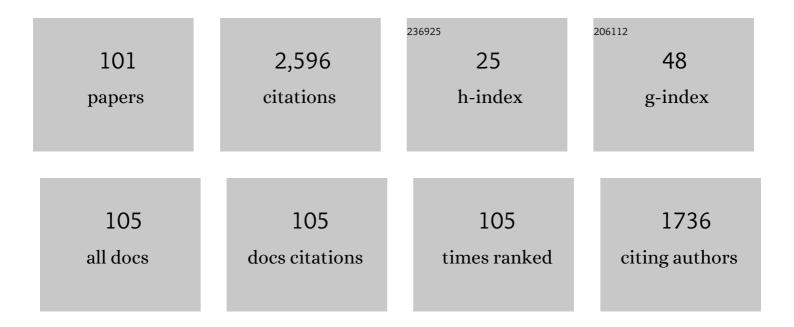
## Paul A Bernhardt

List of Publications by Year in descending order

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DALIL A REDNHADDT

#	Article	IF	CITATIONS
1	Satellite Observations of Strong Plasma Wave Emissions With Frequency Shifts Induced by an Engine Burn From the Cygnus Spacecraft. Radio Science, 2021, 56, e2020RS007143.	1.6	3
2	Strong Amplification of ELF/VLF Signals in Space Using Neutral Gas Injections From a Satellite Rocket Engine. Radio Science, 2021, 56, e2020RS007207.	1.6	6
3	Application of Directed Relational Graph to Air Plasma Chemistry During Plasma Relaxation. IEEE Transactions on Plasma Science, 2021, 49, 1732-1738.	1.3	1
4	The Whistler Traveling Wave Parametric Amplifier Driven by an Ion-Ring Beam Distribution from a Neutral Gas Injection in Space Plasmas. IEEE Transactions on Plasma Science, 2021, 49, 1983-1996.	1.3	4
5	Geomagnetic field impacts on second harmonic generation during high power radio wave-ionosphere interaction. Physics of Plasmas, 2021, 28, 062901.	1.9	3
6	Plasma Cavity Formation During Ionospheric Heating atÂArecibo. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027715.	2.4	4
7	Strong Amplification of ELF/VLF Signals in Space Using Neutral Gas Injection from a Satellite Rocket Engine. , 2020, , .		0
8	Properties of the Stimulated Electromagnetic Emissions During the Inclined Highâ€Frequency Pumping of the Ionosphere Near the Fourth Electron Gyroharmonic at the Highâ€Frequency Active Auroral Research Program Facility. Geophysical Research Letters, 2019, 46, 5653-5661.	4.0	0
9	NSEE Yielding Electron Temperature Measurements at the Arecibo Observatory. Journal of Geophysical Research: Space Physics, 2019, 124, 3699-3708.	2.4	9
10	lonospheric Non-linear Effects Observed During Very-Long-Distance HF Propagation. Frontiers in Astronomy and Space Sciences, 2019, 6, .	2.8	6
11	Pump Power Effects on Second Harmonic Stimulated Electromagnetic Emissions During Ionosphere Heating. Journal of Geophysical Research: Space Physics, 2019, 124, 9739-9754.	2.4	3
12	Initial results of stimulated radiation measurements during the HAARP campaign of September 2017. Radiation Effects and Defects in Solids, 2018, 173, 66-72.	1.2	2
13	Spatiotemporal Characteristics of HFâ€Induced Ionospheric Turbulence Revealed by Diagnostic Stimulated Electromagnetic Emission and Test Radio Waves at HAARP. Radio Science, 2018, 53, 1506-1520.	1.6	5
14	Asymmetry in Stimulated Emission Polarization and Irregularity Evolution During Ionospheric Electron Gyroharmonic Heating. Geophysical Research Letters, 2018, 45, 9363-9371.	4.0	9
15	Artificial Ionospheric GPS Phase Scintillation Excited During Highâ€Power Radiowave Modulation of the Ionosphere. Radio Science, 2018, 53, 775-789.	1.6	3
16	First Observations of Narrowband Stimulated Electromagnetic Emissions at the Pump Frequency Second Harmonic During lonosphere Interaction Experiments. Geophysical Research Letters, 2018, 45, 8690-8697.	4.0	12
17	Artificial ionospheric modification: The Metal Oxide Space Cloud experiment. Radio Science, 2017, 52, 539-558.	1.6	23
18	A physicsâ€based model for the ionization of samarium by the MOSC chemical releases in the upper atmosphere. Radio Science, 2017, 52, 559-577.	1.6	27

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19	Microwave Driven Plasma Ball Generator For Illumination And Rf Applications. , 2017, , .		О
20	Exploring HFâ€induced ionospheric turbulence by Doppler sounding and stimulated electromagnetic emissions at the High Frequency Active Auroral Research Program heating facility. Radio Science, 2016, 51, 1118-1130.	1.6	13
21	Large ionospheric disturbances produced by the HAARP HF facility. Radio Science, 2016, 51, 1081-1093.	1.6	19
22	Studies of the ionospheric turbulence excited by the fourth gyroharmonic at HAARP. Journal of Geophysical Research: Space Physics, 2015, 120, 6646-6660.	2.4	12
23	A coupled ionosphereâ€raytrace model for highâ€power HF heating. Geophysical Research Letters, 2015, 42, 9650-9656.	4.0	5
24	Stimulated Brillouin scattering during electron gyro-harmonic heating at EISCAT. Annales Geophysicae, 2015, 33, 983-990.	1.6	20
25	Visible Plasma Clouds With an Externally Excited Spherical Porous Cavity Resonator. IEEE Transactions on Plasma Science, 2015, 43, 1911-1918.	1.3	3
26	The CERTO Beacon on CASSIOPE/e-POP and Experiments Using High-Power HF lonospheric Heaters. Space Science Reviews, 2015, 189, 107-122.	8.1	12
27	"Twisted Beam―SEE Observations of Ionospheric Heating from HAARP. Earth, Moon and Planets, 2015, 116, 55-66.	0.6	5
28	Impact of active geomagnetic conditions on stimulated radiation during ionospheric second electron gyroharmonic heating. Journal of Geophysical Research: Space Physics, 2014, 119, 548-565.	2.4	9
29	lon gyroharmonic structures in stimulated radiation during second electron gyroharmonic heating: 2. Simulations. Journal of Geophysical Research: Space Physics, 2014, 119, 462-478.	2.4	17
30	Heaterâ€induced ionization inferred from spectrometric airglow measurements. Journal of Geophysical Research: Space Physics, 2014, 119, 2038-2045.	2.4	8
31	Predictions of HF system performance for propagation through disturbed ionospheres measured using low-Earth-orbit satellite radio beacon tomography. Radio Science, 2014, 49, 506-517.	1.6	7
32	Generation and detection of super small striations by <i>F</i> region HF heating. Journal of Geophysical Research: Space Physics, 2014, 119, 6000-6011.	2.4	21
33	Radioâ€ŧomographic images of postmidnight equatorial plasma depletions. Geophysical Research Letters, 2014, 41, 13-19.	4.0	12
34	Electron gyroharmonic effects on ionospheric stimulated Brillouin scatter. Geophysical Research Letters, 2014, 41, 5710-5716.	4.0	17
35	Investigation of Stimulated Electromagnetic Emission SEE during second electron gyro-harmonic heating. , 2013, , .		0
36	Satellite-based measurements of radio phase scintillation using CITRIS, DORIS and CERTO. , 2013, , .		0

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37	Artificial Ionospheric Layers during Pump Frequency Stepping Near the 4th Gyroharmonic at HAARP. Physical Review Letters, 2013, 110, 065002.	7.8	39
38	New Systems for Space Based Monitoring of Ionospheric Irregularities and Radio Wave Scintillations. Geophysical Monograph Series, 2013, , 431-440.	0.1	7
39	lon gyroâ€harmonic structuring in the stimulated radiation spectrum and optical emissions during electron gyroâ€harmonic heating. Journal of Geophysical Research: Space Physics, 2013, 118, 1270-1287.	2.4	29
40	lon gyroharmonic structures in stimulated radiation during second electron gyroharmonic heating: 1. Theory. Journal of Geophysical Research: Space Physics, 2013, 118, 502-514.	2.4	26
41	Investigation of ionospheric stimulated Brillouin scatter generated at pump frequencies near electron gyroharmonics. Radio Science, 2013, 48, 685-697.	1.6	28
42	Stimulated Brillouin scatter and stimulated ion Bernstein scatter during electron gyroharmonic heating experiments. Radio Science, 2013, 48, 607-616.	1.6	28
43	First observations of minority ion (H <sup>+</sup> ) structuring in stimulated radiation during second electron gyroharmonic heating experiments. Geophysical Research Letters, 2013, 40, 1479-1483.	4.0	15
44	On ion gyro-harmonic structuring in the stimulated electromagnetic emission spectrum during second electron gyro-harmonic heating. Annales Geophysicae, 2012, 30, 1587-1594.	1.6	14
45	Electric field glow discharge inside externally excited porous spherical cavity resonators. , 2012, , .		0
46	Modeling Arecibo conjugate heating effects with SAMI2. Geophysical Research Letters, 2012, 39, .	4.0	10
47	Ground and Space-Based Measurement of Rocket Engine Burns in the Ionosphere. IEEE Transactions on Plasma Science, 2012, 40, 1267-1286.	1.3	58
48	A mediumâ€scale traveling ionospheric disturbance observed from the ground and from space. Radio Science, 2011, 46, .	1.6	14
49	Using TEC and radio scintillation data from the CITRIS radio beacon receiver to study low and midlatitude ionospheric irregularities. Radio Science, 2011, 46, .	1.6	6
50	Electron and ion Bernstein waves excited in the ionosphere by high power EM waves at the second harmonic of the electron cyclotron frequency. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	39
51	HF Stimulated Electromagnetic Emissions and radar observations of ionospheric heating from HAARP. , 2011, , .		Ο
52	Optical Emissions Observed During the Charged Aerosol Release Experiment (CARE I) in the Ionosphere. IEEE Transactions on Plasma Science, 2011, 39, 2774-2775.	1.3	20
53	The tandem instrumented CubeSats experiment (TICE) in low earth orbit for continuous occultation observations of the ionosphere. , 2011, , .		1
54	25 Years of ionospheric modification with Space Shuttle OMS burns. , 2011, , .		0

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55	Resonant properties of conducting polyhedral spheres with polygon mesh surfaces. , 2011, , .		Ο
56	Low-latitude ionospheric scintillations and total electron content obtained with the CITRIS instrument on STPSat1 using radio transmissions from DORIS ground beacons. Advances in Space Research, 2010, 45, 1535-1540.	2.6	5
57	Effect of an Altitude-Dependent Background Atmosphere on Shuttle Plumes. Journal of Spacecraft and Rockets, 2010, 47, 700-704.	1.9	14
58	Stimulated Brillouin Scatter in a Magnetized Ionospheric Plasma. Physical Review Letters, 2010, 104, 165004.	7.8	55
59	Selfâ€consistent modeling of equatorial dawn density depletions with SAMI3. Geophysical Research Letters, 2010, 37, .	4.0	29
60	A new technique for absolute total electron content determination using the CITRIS instrument on STPSat1 and the CERTO beacons on COSMIC. Radio Science, 2010, 45, n/a-n/a.	1.6	6
61	Determination of the electron temperature in the modified ionosphere over HAARP using the HF pumped Stimulated Brillouin Scatter (SBS) emission lines. Annales Geophysicae, 2009, 27, 4409-4427.	1.6	50
62	Collisional/resonance absorption in cold/warm magnetized plasmas of the Fâ€region highâ€latitude ionosphere. Geophysical Research Letters, 2009, 36, .	4.0	0
63	Comparisons of equatorial irregularities measurements from C/NOFS: TEC using CERTO and CITRIS with in-situ plasma density. Geophysical Research Letters, 2009, 36, .	4.0	7
64	The COSMIC/FORMOSAT-3 Mission: Early Results. Bulletin of the American Meteorological Society, 2008, 89, 313-334.	3.3	783
65	Design and applications of a versatile HF radar calibration target in low Earth orbit. Radio Science, 2008, 43, .	1.6	10
66	Fast Ion Beams and Plasma Instabilities Excited by the Space Shuttle Orbital Maneuvering Subsystem (OMS) Engines. , 2007, , .		0
67	Coordinated Observations of High Power Interactions with the High Latitude Ionosphere. , 2007, , .		0
68	CARE: Rocket Experiments for Investigation of the Radar Scatter Proerties of a Dusty Plasma. , 2007, , .		0
69	Quasi-analytic models for density bubbles and plasma clouds in the equatorial ionosphere: Closed form solutions for electric fields and potentials. Journal of Geophysical Research, 2007, 112, n/a-n/a.	3.3	8
70	Quasiâ€enalytic models for density bubbles and plasma clouds in the equatorial ionosphere: 2. A simple Lagrangian transport model. Journal of Geophysical Research, 2007, 112, .	3.3	7
71	New observations of artificial aurora associated with TMA releases. Geophysical Research Letters, 2006, 33, .	4.0	1
72	Persistent enhancement of the HF pump-induced plasma line measured with a UHF diagnostic radar at HAARP. Journal of Geophysical Research, 2006, 111, .	3.3	16

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73	New satellite-based systems for ionospheric tomography and scintillation region imaging. Radio Science, 2006, 41, .	1.6	64
74	Simultaneous inversion of total electron content and UV radiance data to produceFregion electron densities. Radio Science, 2006, 41, n/a-n/a.	1.6	1
75	Ionospheric applications of the scintillation and tomography receiver in space (CITRIS) mission when used with the DORIS radio beacon network. Journal of Geodesy, 2006, 80, 473-485.	3.6	25
76	Eye on the Ionosphere. GPS Solutions, 2005, 9, 174-177.	4.3	4
77	Radio tomographic imaging of sporadic- <i>E</i> layers during SEEK-2. Annales Geophysicae, 2005, 23, 2357-2368.	1.6	22
78	Artificial disturbances of the ionosphere over the Millstone Hill Incoherent Scatter Radar from dedicated burns of the space shuttle orbital maneuver subsystem engines. Journal of Geophysical Research, 2005, 110, .	3.3	18
79	Incoherent scatter measurements of ring-ion beam distributions produced by space shuttle exhaust injections into the ionosphere. Journal of Geophysical Research, 2004, 109, .	3.3	22
80	Linear mode conversion in inhomogeneous magnetized plasmas during ionospheric modification by HF radio waves. Journal of Geophysical Research, 2003, 108, .	3.3	19
81	Using radio-induced aurora to measure the horizontal structure of ion layers in the lower thermosphere. Journal of Geophysical Research, 2003, 108, SIA 1-1-SIA 1-11.	3.3	15
82	Tomographic studies of aeronomic phenomena using radio and UV techniques. Journal of Atmospheric and Solar-Terrestrial Physics, 2002, 64, 1573-1580.	1.6	25
83	Incoherent scatter from space shuttle and rocket engine plumes in the ionosphere. Journal of Geophysical Research, 1998, 103, 2239-2251.	3.3	30
84	Two-dimensional mapping of the plasma density in the upper atmosphere with computerized ionospheric tomography (CIT). Physics of Plasmas, 1998, 5, 2010-2021.	1.9	54
85	Frequency-Shifted Signature of the HF Pump in the Ionospheric Focused Heating Experiment. Geophysical Research Letters, 1997, 24, 635-638.	4.0	3
86	Lightning driven EMP in the upper atmosphere. Geophysical Research Letters, 1995, 22, 361-364.	4.0	64
87	Evidence of HF-driven wave interactions in the ionospheric focused heating experiment. Geophysical Research Letters, 1995, 22, 3251-3254.	4.0	5
88	COMMUNICATIONS USING CHAOTIC FREQUENCY MODULATION. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 1994, 04, 427-440.	1.7	16
89	Small-scale plasma irregularities produced during electron attachment chemical releases. Geophysical Research Letters, 1994, 21, 605-608.	4.0	15
90	Coupling of the relaxation and resonant elements in the autonomous chaotic relaxation oscillator (ACRO). Chaos, 1992, 2, 183-199.	2.5	11

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91	Preliminary study of the CRRES magnetospheric barium releases. Journal of Geophysical Research, 1992, 97, 11-24.	3.3	115
92	â€~Skidding' of the CRRES Gâ€9 barium release. Geophysical Research Letters, 1992, 19, 1085-1088.	4.0	23
93	Probing the magnetosphere using chemical releases from the Combined Release and Radiation Effects Satellite. Physics of Fluids B, 1992, 4, 2249-2256.	1.7	63
94	Excitation of artificial airglow by high power radio waves from the "SURA―Ionospheric Heating Facility. Geophysical Research Letters, 1991, 18, 1477-1480.	4.0	49
95	Heaterâ€induced cavities as optical tracers of plasma drifts. Journal of Geophysical Research, 1989, 94, 7003-7010.	3.3	33
96	Artificial Airglow Excited by High-Power Radio Waves. Science, 1988, 242, 1022-1027.	12.6	84
97	A critical comparison of ionospheric depletion chemicals. Journal of Geophysical Research, 1987, 92, 4617-4628.	3.3	80
98	Highâ€altitude gas releases: transition from collisionless flow to diffusive flow in a nonuniform atmosphere. Journal of Geophysical Research, 1979, 84, 4341-4354.	3.3	46
99	Protonospheric-ionospheric modeling of VLF ducts. Journal of Geophysical Research, 1977, 82, 5222-5230.	3.3	58
100	Radiation Belt Electron Acceleration Driven by Very‣owâ€Frequency Transmitter Waves in Nearâ€Earth Space. Geophysical Research Letters, 0, , .	4.0	2
101	Active Precipitation of Radiation Belt Electrons using Rocket Exhaust Driven Amplification (REDA) of Manâ€Made Whistlers. Journal of Geophysical Research: Space Physics, 0, , .	2.4	5