

Daniel D Stancil

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

137
papers

2,903
citations

25
h-index

50
g-index

157
ext. papers

3,360
ext. citations

2.9
avg, IF

4.92
L-index

#	Paper	IF	Citations
137	Propagation Characteristics and Excitation of Dipolar Spin Waves 2021 , 111-140		
136	Improved wireless power transfer efficiency with non-perfect lenses. <i>Applied Physics Letters</i> , 2019 , 114, 143903	3.4	6
135	Channel Propagation Measurement and Modeling for Vehicular In-Cabin Wi-Fi Networks. <i>IEEE Transactions on Antennas and Propagation</i> , 2016 , 64, 5424-5435	4.9	3
134	. <i>IEEE Antennas and Propagation Magazine</i> , 2014 , 56, 160-173	1.7	29
133	The remote educational antenna laboratory: making it easier to add projects to antenna courses [education column]. <i>IEEE Antennas and Propagation Magazine</i> , 2014 , 56, 211-220	1.7	0
132	A Roadside Scattering Model for the Vehicle-to-Vehicle Communication Channel. <i>IEEE Journal on Selected Areas in Communications</i> , 2013 , 31, 449-459	14.2	24
131	Magneto-Quasistatic Tracking of an American Football: A Goal-Line Measurement [Measurements Corner]. <i>IEEE Antennas and Propagation Magazine</i> , 2013 , 55, 138-146	1.7	5
130	Performance of the 802.11p Physical Layer in Vehicle-to-Vehicle Environments. <i>IEEE Transactions on Vehicular Technology</i> , 2012 , 61, 3-14	6.8	118
129	Experimental study on the effects of groups of people on magnetoquasistatic positioning accuracy 2012 ,		6
128	Wireless orientation sensing using magnetoquasistatic fields and complex image theory 2012 ,		4
127	ACTIVE NEGATIVE INDUCTOR BASED ON MAGNETIC FLUX. <i>Progress in Electromagnetics Research C</i> , 2012 , 32, 259-269	0.9	
126	Error Reduction in Magnetoquasistatic Positioning Using Orthogonal Emitter Measurements. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2012 , 11, 1462-1465	3.8	5
125	DEMONSTRATION OF COMMUNICATION USING NEUTRINOS. <i>Modern Physics Letters A</i> , 2012 , 27, 12500773		26
124	Electro-Optical Scanners. <i>Optical Science and Engineering</i> , 2011 , 593-636		
123	. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2011 , 47, 140-154	3.7	15
122	Experimental Demonstration of Complex Image Theory and Application to Position Measurement. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2011 , 10, 282-285	3.8	24
121	A Shoe-Embedded RF Sensor for Motion Detection. <i>IEEE Microwave and Wireless Components Letters</i> , 2011 , 21, 169-171	2.6	15

120	Higher order loop corrections for short range magnetoquasistatic position tracking 2011,		6
119	Estimating the number of modes in multimode waveguide propagation environment 2011,		1
118	Dynamic channel equalization for IEEE 802.11p waveforms in the vehicle-to-vehicle channel 2010,		25
117	Experience with a wireless network testbed based on signal propagation emulation 2010,		8
116	A Low-Power Shoe-Embedded Radar for Aiding Pedestrian Inertial Navigation. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2010 , 58, 2521-2528	4.1	22
115	Long Range Passive UHF RFID System Using HVAC Ducts. <i>Proceedings of the IEEE</i> , 2010 , 98, 1629-1635	14.3	10
114	Beyond Audio and Video: Using Claytronics to Enable Pario. <i>AI Magazine</i> , 2009 , 30, 29	6.1	11
113	FPGA-Based Channel Simulator for a Wireless Network Emulator 2009,		17
112	A compact positioning and velocity RF sensor for improved inertial navigation 2009,		2
111	Magnetic Resonant Coupling As a Potential Means for Wireless Power Transfer to Multiple Small Receivers. <i>IEEE Transactions on Power Electronics</i> , 2009 , 24, 1819-1825	7.2	575
110	Magnetic Susceptibilities 2009 , 67-110		
109	Propagation Characteristics and Excitation of Dipolar Spin Waves 2009 , 169-202		
108	Novel Applications 2009 , 309-332		39
107	A new geometrical channel model for vehicle-to-vehicle communications. <i>Digest / IEEE Antennas and Propagation Society International Symposium</i> , 2009 ,		1
106	Eigenfrequencies of a Truncated Conical Resonator via the Classical and Wentzel-Kramers-Brillouin Methods. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2008 , 56, 1909-1916	4.1	7
105	A Measurement Study of Time-Scaled 802.11a Waveforms Over The Mobile-to-Mobile Vehicular Channel at 5.9 GHz 2008 , 46, 84-91		52
104	Multi-Path Propagation Measurements for Vehicular Networks at 5.9 GHz 2008,		25
103	Highway and rural propagation channel modeling for vehicle-to-vehicle communications at 5.9 GHz 2008,		13

102	Doppler component analysis of the suburban vehicle-to-vehicle DSRC propagation channel at 5.9 GHz 2008 ,		7
101	Doppler Spread and Coherence Time of Rural and Highway Vehicle-to-Vehicle Channels at 5.9 GHz 2008 ,		28
100	Properties and Applications of the Suburban Vehicle-to-Vehicle Propagation Channel at 5.9 GHz 2007 ,		2
99	Long distance signaling using axionlike particles. <i>Physical Review D</i> , 2007 , 76,	4.9	14
98	Mobile Vehicle-to-Vehicle Narrow-Band Channel Measurement and Characterization of the 5.9 GHz Dedicated Short Range Communication (DSRC) Frequency Band. <i>IEEE Journal on Selected Areas in Communications</i> , 2007 , 25, 1501-1516	14.2	486
97	A fully mobile, GPS enabled, vehicle-to-vehicle measurement platform for characterization of the 5.9 GHz DSRC channel 2007 ,		7
96	Efficient Simulation of Mobile-To-Mobile Rayleigh Fading using Gaussian Quadrature. <i>IEEE Vehicular Technology Conference</i> , 2007 ,	0.1	2
95	Antenna Array Detection in Highly Cluttered Environment Using Time Reversal Method. <i>IEEE MTT-S International Microwave Symposium Digest IEEE MTT-S International Microwave Symposium</i> , 2007 ,		3
94	Synthetic Aperture Radar Ghost Image Cancellation Using Broadband Time Reversal Averaging Techniques. <i>IEEE MTT-S International Microwave Symposium Digest IEEE MTT-S International Microwave Symposium</i> , 2007 ,		2
93	Unsafe at Any Airspeed?. <i>IEEE Spectrum</i> , 2006 , 43, 44-49	1.7	32
92	Observation of an inverse Doppler shift from left-handed dipolar spin waves. <i>Physical Review B</i> , 2006 , 74,	3.3	25
91	Mechanism for domain expansion in MAMMOS. <i>IEEE Transactions on Magnetics</i> , 2005 , 41, 2860-2862	2	
90	On the capacity limits of HVAC duct channel for high-speed Internet access. <i>IEEE Transactions on Communications</i> , 2005 , 53, 335-342	6.9	6
89	Multipath-enabled super-resolution for rf and microwave communication using phase-conjugate arrays. <i>Physical Review Letters</i> , 2004 , 93, 243904	7.4	82
88	Thermal Williams-Comstock model for predicting transition lengths in a heat-assisted magnetic recording system. <i>IEEE Transactions on Magnetics</i> , 2004 , 40, 137-147	2	31
87	A simple path-loss prediction model for HVAC systems. <i>IEEE Transactions on Vehicular Technology</i> , 2004 , 53, 1203-1214	6.8	5
86	Theoretical limit to domain position detection magnetic amplifying magneto-optical system. <i>IEEE Transactions on Magnetics</i> , 2004 , 40, 105-111	2	1
85	Experimental Effects of Laser Power on the Writability and Pulse Width in a Heat Assisted Longitudinal Recording System. <i>Japanese Journal of Applied Physics</i> , 2003 , 42, 989-994	1.4	3

84	Refraction Theory for Planar Waveguides: Modeling of a Mode Index Integrated Solid Immersion Lens. <i>Japanese Journal of Applied Physics</i> , 2003 , 42, 740-749	1.4	4
83	A study of near-field aperture geometry effects on very small aperture lasers (VSAL) 2003 ,		2
82	A novel mode content analysis technique for antennas in multimode waveguides. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2003 , 51, 2402-2408	4.1	8
81	Impulse response of the HVAC duct as a communication channel. <i>IEEE Transactions on Communications</i> , 2003 , 51, 1736-1742	6.9	12
80	Imaging of optical field confinement in ridge waveguides fabricated on very-small-aperture laser. <i>Applied Physics Letters</i> , 2003 , 83, 3245-3247	3.4	58
79	Ridge waveguide as a near-field optical source. <i>Applied Physics Letters</i> , 2003 , 83, 4474-4476	3.4	40
78	Aperture shape effect on the performance of very small aperture lasers. <i>Journal of Applied Physics</i> , 2003 , 93, 5871-5875	2.5	9
77	Mark shapes in hybrid recording. <i>Applied Physics Letters</i> , 2002 , 80, 1835-1837	3.4	4
76	Experimental investigation of domain expansion speeds in MAMMOS. <i>IEEE Transactions on Magnetics</i> , 2002 , 38, 2099-2101	2	2
75	An Integrated Read/Write Head for Hybrid Recording. <i>Japanese Journal of Applied Physics</i> , 2002 , 41, 1821-1824	1.4	24
74	Fabrication of Very Small Aperture Laser (VSAL) from a Commercial Edge Emitting Laser. <i>Japanese Journal of Applied Physics</i> , 2001 , 40, 1794-1795	1.4	17
73	Numerical simulation of dynamic thermomagnetic switching and the optical signal in magnetic superresolution readout 2000 , 4090, 82		
72	Near-field hybrid recording with a mode index waveguide lens 2000 , 4090, 66		8
71	Information dimension analysis of chaotic forward volume spin waves in a yttrium-iron-garnet thin film. <i>Journal of Applied Physics</i> , 2000 , 87, 5091-5093	2.5	1
70	High Bandwidth Electro-optic Scanner for Optical Data Storage. <i>Japanese Journal of Applied Physics</i> , 2000 , 39, 883-887	1.4	1
69	Optical field study of near-field optical recording with a solid immersion lens. <i>Applied Optics</i> , 2000 , 39, 324-32	1.7	20
68	Ferroelectric domain kinetics in congruent LiTaO3. <i>Integrated Ferroelectrics</i> , 1999 , 27, 137-146	0.8	
67	Nonlinear microwave-magnetic resonator operated as a bistable device. <i>Journal of Applied Physics</i> , 1999 , 85, 4859-4861	2.5	15

66	Mobility of 180° domain walls in congruent LiTaO ₃ measured using real-time electro-optic imaging microscopy. <i>Journal of Applied Physics</i> , 1999 , 86, 1638-1646	2.5	26
65	Integration of electro-optic lenses and scanners on ferroelectric LiTaO ₃ . <i>Integrated Ferroelectrics</i> , 1999 , 25, 31-36	0.8	2
64	Shape-optimized electrooptic beam scanners: experiment. <i>IEEE Photonics Technology Letters</i> , 1999 , 11, 66-68	2.2	18
63	Integrated electro-optic lens/scanner in a LiTaO ₃ single crystal. <i>Applied Optics</i> , 1999 , 38, 1186-90	1.7	49
62	Shape-optimized electrooptic beam scanners: analysis, design, and simulation. <i>Journal of Lightwave Technology</i> , 1999 , 17, 108-114	4	27
61	Integrated optical device with second-harmonic generator, electrooptic lens, and electrooptic scanner in LiTaO ₃ . <i>Journal of Lightwave Technology</i> , 1999 , 17, 462-465	4	29
60	Fabrication and characterization of high-speed integrated electro-optic lens and scanner devices 1999 ,		4
59	Electro-optic scanner for optical disk fine tracking system 1999 ,		2
58	Auto-oscillation thresholds at the main resonance in ferrimagnetic films. <i>Physical Review B</i> , 1998 , 57, 11483-11491	3.3	6
57	Ferroelectrics as a versatile solid state platform for integrated optics. <i>Integrated Ferroelectrics</i> , 1998 , 22, 465-471	0.8	4
56	Electrooptic lens stacks on LiTaO ₃ by domain inversion. <i>Journal of Lightwave Technology</i> , 1997 , 15, 1716-1719	4	18
55	Quadratic power corrections to the dynamic magnetization using the transverse magnetostatic wave-optical interaction. <i>Journal of Applied Physics</i> , 1997 , 81, 2730-2735	2.5	1
54	Wideband optical modulation via the magneto-optic interaction in a bismuth-lutetium-iron garnet film. <i>Applied Physics Letters</i> , 1997 , 71, 151-153	3.4	15
53	Electrooptic wafer beam deflector in LiTaO ₃ . <i>IEEE Photonics Technology Letters</i> , 1996 , 8, 1486-1488.2		17
52	Integrated quasi-phase-matched second-harmonic generator and electrooptic scanner on LiTaO ₃ single crystals. <i>IEEE Photonics Technology Letters</i> , 1996 , 8, 1704-1706	2.2	33
51	Measurement of magnetostatic wave profiles using the interaction with transverse optical guided waves. <i>IEEE Transactions on Magnetics</i> , 1996 , 32, 5188-5192	2	15
50	Kronig-Penney model for periodically segmented waveguides. <i>Applied Optics</i> , 1996 , 35, 4767-71	1.7	9
49	Variations in auto-oscillation frequency at the main resonance in rectangular yttrium-iron garnet films. <i>Journal of Applied Physics</i> , 1996 , 79, 5374	2.5	8

48	Variations in the magneto-optic coupling coefficient in a bismuth-lutetium-iron-garnet film. <i>IEEE Transactions on Magnetics</i> , 1996 , 32, 4174-4176	2	8
47	Electro-optic beam scanner in KTiOPO4. <i>Applied Physics Letters</i> , 1996 , 69, 3134-3136	3.4	21
46	Large electro-optic modulation effect observed in ion-exchanged KTiOPO4 waveguides. <i>Journal of Applied Physics</i> , 1996 , 80, 3662-3667	2.5	1
45	Interactions Between Optical Guided Modes and Nonlinear Magnetostatic Waves 1996 , 467-485		1
44	Bismuth substituted iron garnet thin films deposited on silicon by laser ablation. <i>Journal of Applied Physics</i> , 1995 , 77, 2128-2132	2.5	11
43	. <i>Journal of Lightwave Technology</i> , 1995 , 13, 2049-2052	4	17
42	Oxygen pressure dependence of laser deposited barium ferrite films on LLC(111). <i>IEEE Transactions on Magnetics</i> , 1995 , 31, 3826-3828	2	4
41	COLLINEAR INTERACTION OF OPTICAL GUIDED MODES WITH MICROWAVE SPIN WAVES IN MAGNETIC FILMS 1995 , 357-393		1
40	Orientation dependence of dipole gaps in the magnetostatic wave spectrum of Bi-substituted iron garnets. <i>Journal of Applied Physics</i> , 1994 , 75, 6066-6068	2.5	2
39	The effect of in situ laser annealing on laser ablation deposited garnet films. <i>Materials Letters</i> , 1994 , 21, 365-369	3.3	
38	. <i>IEEE Transactions on Magnetics</i> , 1994 , 30, 4530-4532	2	1
37	Design, fabrication, switching, and optical characteristics of new magneto-optic spatial light modulator. <i>Journal of Applied Physics</i> , 1994 , 76, 1910-1919	2.5	33
36	. <i>Journal of Lightwave Technology</i> , 1994 , 12, 1401-1404	4	36
35	Waveguide optical scanner with increased deflection sensitivity for optical data storage 1994 ,		2
34	Microwave and Optical Magnetics 1994 , 457-518		
33	Theory of Magnetostatic Waves 1993 ,		151
32	Improvement of FMR linewidth in Bi-substituted lutetium iron garnet thin films for the MSW-optical-mode interaction. <i>Journal of Applied Physics</i> , 1993 , 73, 6460-6462	2.5	6
31	Propagation Characteristics and Excitation of Magnetostatic Waves 1993 , 119-153		1

30	Optical fibers for magneto-optical recording 1991 , 1499, 276		4
29	. <i>IEEE Journal of Quantum Electronics</i> , 1991 , 27, 61-70	2	38
28	. <i>IEEE Transactions on Magnetics</i> , 1991 , 27, 5486-5488	2	
27	Effect of sodium doping of rare-earth iron garnet films on magnetic and magneto-optic properties. <i>Journal of Applied Physics</i> , 1991 , 70, 6289-6291	2.5	5
26	Effective Interaction Lengths In The Collinear Magnetostatic Wave - Optical Interaction 1990 , 1177, 365		2
25	Linear motion sensor using the Doppler effect with magnetostatic waves. <i>Journal of Applied Physics</i> , 1990 , 67, 511-514	2.5	2
24	An optical frequency shifter using magnetostatic waves. <i>Journal of Applied Physics</i> , 1990 , 67, 508-510	2.5	21
23	Evidence for acoustic-wave coupling in the magnetostatic-wave-optical interaction. <i>Journal of Applied Physics</i> , 1990 , 67, 4790-4792	2.5	1
22	Thin-film permanent magnet requirements for magnetic devices in MMIC. <i>Microwave and Optical Technology Letters</i> , 1989 , 2, 81-85	1.2	6
21	. <i>IEEE Transactions on Magnetics</i> , 1989 , 25, 3494-3496	2	10
20	. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 1989 , 37, 851-859	4.1	1
19	. <i>IEEE Transactions on Magnetics</i> , 1988 , 24, 2805-2807	2	3
18	Hysteresis model for polycrystalline high-Tc superconductors. <i>Journal of Applied Physics</i> , 1988 , 64, 5899-5901		19
17	Low-field structure in the magnetization of polycrystalline YBa ₂ Cu ₃ O _{7-x} and ErBa ₂ Cu ₃ O _{7-x} . <i>Applied Physics Letters</i> , 1988 , 53, 240-242	3.4	15
16	Magnetostatic wave ring resonator exhibiting a single resonance. <i>Journal of Applied Physics</i> , 1987 , 61, 4127-4129	2.5	2
15	Magnetostatic backward waves in low dose ion implanted YIG films. <i>IEEE Transactions on Magnetics</i> , 1986 , 22, 859-861	2	3
14	Phenomenological propagation loss theory for magnetostatic waves in thin ferrite films. <i>Journal of Applied Physics</i> , 1986 , 59, 218-224	2.5	38
13	Magnetostatic Surface-Wave Propagation in Ferrite Thin Films with Arbitrary Variations of the Magnetization Through the Film Thickness. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 1985 , 33, 484-491	4.1	11

12	Magnetostatic Volume Modes of Ferrite Thin Films with Magnetization Inhomogeneities through the Film Thickness. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 1985 , 33, 1089-1096	4.1	10
11	Suppression of magnetostatic backward volume wave end reflections via field gradients. <i>Journal of Applied Physics</i> , 1985 , 57, 3718-3720	2.5	3
10	Magnetostatic wave propagation losses in thorium-substituted YIG. <i>Journal of Applied Physics</i> , 1985 , 57, 3724-3726	2.5	6
9	Comparison of magnetostatic surface wave propagation characteristics at 77 and 299 K. <i>Journal of Applied Physics</i> , 1985 , 58, 4449-4451	2.5	2
8	A magnetostatic wave model for domain-wall collective excitations. <i>Journal of Applied Physics</i> , 1984 , 56, 1775-1779	2.5	5
7	A new microwave ring resonator using guided magnetostatic surface waves. <i>Journal of Applied Physics</i> , 1984 , 55, 2521-2523	2.5	12
6	Guiding magnetostatic surface waves with nonuniform in-plane fields. <i>Journal of Applied Physics</i> , 1983 , 54, 1613-1618	2.5	14
5	Variational formulation of magnetostatic wave dispersion relations. <i>IEEE Transactions on Magnetics</i> , 1983 , 19, 1865-1867	2	7
4	Magnetostatic wave precursors in thin ferrite films. <i>Journal of Applied Physics</i> , 1982 , 53, 2658-2660	2.5	8
3	Magnetostatic waves in nonuniform bias fields including exchange effects. <i>IEEE Transactions on Magnetics</i> , 1980 , 16, 1153-1155	2	4
2	Magnetostatic surface modes in a thin film with nonuniform in-plane fields. <i>IEEE Transactions on Magnetics</i> , 1980 , 16, 1156-1158	2	5
1	Communication Systems for Car-2-X Networks45-81		4