Daniel D Stancil

List of Publications by Citations

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	Magnetic Resonant Coupling As a Potential Means for Wireless Power Transfer to Multiple Small Receivers. *IEEE Transactions on Power Electronics*, **2009**, 24, 1819-1825	7.2	575
136	Mobile Vehicle-to-Vehicle Narrow-Band Channel Measurement and Characterization of the 5.9 GHz Dedicated Short Range Communication (DSRC) Frequency Band. *IEEE Journal on Selected Areas in Communications*, **2007**, 25, 1501-1516	14.2	486
135	Theory of Magnetostatic Waves **1993**,		151
134	Performance of the 802.11p Physical Layer in Vehicle-to-Vehicle Environments. *IEEE Transactions on Vehicular Technology*, **2012**, 61, 3-14	6.8	118
133	Multipath-enabled super-resolution for rf and microwave communication using phase-conjugate arrays. *Physical Review Letters*, **2004**, 93, 243904	7.4	82
132	Imaging of optical field confinement in ridge waveguides fabricated on very-small-aperture laser. *Applied Physics Letters*, **2003**, 83, 3245-3247	3.4	58
131	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
130	Integrated electro-optic lens/scanner in a LiTaO3 single crystal. *Applied Optics*, **1999**, 38, 1186-90	1.7	49
129	Ridge waveguide as a near-field optical source. *Applied Physics Letters*, **2003**, 83, 4474-4476	3.4	40
128	Novel Applications **2009**, 309-332		39
127	. *IEEE Journal of Quantum Electronics*, **1991**, 27, 61-70	2	38
126	Phenomenological propagation loss theory for magnetostatic waves in thin ferrite films. *Journal of Applied Physics*, **1986**, 59, 218-224	2.5	38
125	. *Journal of Lightwave Technology*, **1994**, 12, 1401-1404	4	36
124	Integrated quasi-phase-matched second-harmonic generator and electrooptic scanner on LiTaO3 single crystals. *IEEE Photonics Technology Letters*, **1996**, 8, 1704-1706	2.2	33
123	Design, fabrication, switching, and optical characteristics of new magneto-optic spatial light modulator. *Journal of Applied Physics*, **1994**, 76, 1910-1919	2.5	33
122	Unsafe at Any Airspeed?. *IEEE Spectrum*, **2006**, 43, 44-49	1.7	32
121	Thermal Williams-Comstock model for predicting transition lengths in a heat-assisted magnetic recording system. *IEEE Transactions on Magnetics*, **2004**, 40, 137-147	2	31

120	. *IEEE Antennas and Propagation Magazine*, **2014**, 56, 160-173	1.7	29
119	Integrated optical device with second-harmonic generator, electrooptic lens, and electrooptic scanner in LiTaO/sub 3/. *Journal of Lightwave Technology*, **1999**, 17, 462-465	4	29
118	Doppler Spread and Coherence Time of Rural and Highway Vehicle-to-Vehicle Channels at 5.9 GHz **2008**,		28
117	Shape-optimized electrooptic beam scanners: analysis, design, and simulation. *Journal of Lightwave Technology*, **1999**, 17, 108-114	4	27
116	DEMONSTRATION OF COMMUNICATION USING NEUTRINOS. *Modern Physics Letters A*, **2012**, 27, 1250077	1.3	26
115	Mobility of 180° domain walls in congruent LiTaO3 measured using real-time electro-optic imaging microscopy. *Journal of Applied Physics*, **1999**, 86, 1638-1646	2.5	26
114	Dynamic channel equalization for IEEE 802.11p waveforms in the vehicle-to-vehicle channel **2010**,		25
113	Multi-Path Propagation Measurements for Vehicular Networks at 5.9 GHz **2008**,		25
112	Observation of an inverse Doppler shift from left-handed dipolar spin waves. *Physical Review B*, **2006**, 74,	3.3	25
111	A Roadside Scattering Model for the Vehicle-to-Vehicle Communication Channel. *IEEE Journal on Selected Areas in Communications*, **2013**, 31, 449-459	14.2	24
110	Experimental Demonstration of Complex Image Theory and Application to Position Measurement. *IEEE Antennas and Wireless Propagation Letters*, **2011**, 10, 282-285	3.8	24
109	An Integrated Read/Write Head for Hybrid Recording. *Japanese Journal of Applied Physics*, **2002**, 41, 1821-1824	1.4	24
108	A Low-Power Shoe-Embedded Radar for Aiding Pedestrian Inertial Navigation. *IEEE Transactions on Microwave Theory and Techniques*, **2010**, 58, 2521-2528	4.1	22
107	Electro-optic beam scanner in KTiOPO4. *Applied Physics Letters*, **1996**, 69, 3134-3136	3.4	21
106	An optical frequency shifter using magnetostatic waves. *Journal of Applied Physics*, **1990**, 67, 508-510	2.5	21
105	Optical field study of near-field optical recording with a solid immersion lens. *Applied Optics*, **2000**, 39, 324-32	1.7	20
104	Hysteresis model for polycrystalline high-Tc superconductors. *Journal of Applied Physics*, **1988**, 64, 5899-5901	2.5	19
103	Electrooptic lens stacks on LiTaO/sub 3/ by domain inversion. *Journal of Lightwave Technology*, **1997**, 15, 1716-1719	4	18

102	Shape-optimized electrooptic beam scanners: experiment. *IEEE Photonics Technology Letters*, **1999**, 11, 66-68	2.2	18
101	FPGA-Based Channel Simulator for a Wireless Network Emulator **2009**,		17
100	Fabrication of Very Small Aperture Laser (VSAL) from a Commercial Edge Emitting Laser. *Japanese Journal of Applied Physics*, **2001**, 40, 1794-1795	1.4	17
99	. *Journal of Lightwave Technology*, **1995**, 13, 2049-2052	4	17
98	Electrooptic wafer beam deflector in LiTaO/sub 3/. *IEEE Photonics Technology Letters*, **1996**, 8, 1486-1488	2.2	17
97	. *IEEE Transactions on Aerospace and Electronic Systems*, **2011**, 47, 140-154	3.7	15
96	A Shoe-Embedded RF Sensor for Motion Detection. *IEEE Microwave and Wireless Components Letters*, **2011**, 21, 169-171	2.6	15
95	Wideband optical modulation via the magneto□optic interaction in a bismuth-lutetium-iron garnet film. *Applied Physics Letters*, **1997**, 71, 151-153	3.4	15
94	Nonlinear microwave-magnetic resonator operated as a bistable device. *Journal of Applied Physics*, **1999**, 85, 4859-4861	2.5	15
93	Measurement of magnetostatic wave profiles using the interaction with transverse optical guided waves. *IEEE Transactions on Magnetics*, **1996**, 32, 5188-5192	2	15
92	Low-field structure in the magnetization of polycrystalline YBa2Cu3O7□ and ErBa2Cu3O7□. *Applied Physics Letters*, **1988**, 53, 240-242	3.4	15
91	Long distance signaling using axionlike particles. *Physical Review D*, **2007**, 76,	4.9	14
90	Guiding magnetostatic surface waves with nonuniform in-plane fields. *Journal of Applied Physics*, **1983**, 54, 1613-1618	2.5	14
89	Highway and rural propagation channel modeling for vehicle-to-vehicle communications at 5.9 GHz **2008**,		13
88	Impulse response of the HVAC duct as a communication channel. *IEEE Transactions on Communications*, **2003**, 51, 1736-1742	6.9	12
87	A new microwave ring resonator using guided magnetostatic surface waves. *Journal of Applied Physics*, **1984**, 55, 2521-2523	2.5	12
86	Beyond Audio and Video: Using Claytronics to Enable Pario. *AI Magazine*, **2009**, 30, 29	6.1	11
85	Bismuth substituted iron garnet thin films deposited on silicon by laser ablation. *Journal of Applied Physics*, **1995**, 77, 2128-2132	2.5	11

84	Magnetostatic Surface-Wave Propagation in Ferrite Thin Films with Arbitrary Variations of the Magnetization Through the Film Thickness. *IEEE Transactions on Microwave Theory and Techniques*, **1985**, 33, 484-491	4.1	11
83	Long Range Passive UHF RFID System Using HVAC Ducts. *Proceedings of the IEEE*, **2010**, 98, 1629-1635	14.3	10
82	. *IEEE Transactions on Magnetics*, **1989**, 25, 3494-3496	2	10
81	Magnetostatic Volume Modes of Ferrite Thin Films with Magnetization Inhomogeneities through the Film Thickness. *IEEE Transactions on Microwave Theory and Techniques*, **1985**, 33, 1089-1096	4.1	10
80	Aperture shape effect on the performance of very small aperture lasers. *Journal of Applied Physics*, **2003**, 93, 5871-5875	2.5	9
79	Kronig-Penney model for periodically segmented waveguides. *Applied Optics*, **1996**, 35, 4767-71	1.7	9
78	Experience with a wireless network testbed based on signal propagation emulation **2010**,		8
77	A novel mode content analysis technique for antennas in multimode waveguides. *IEEE Transactions on Microwave Theory and Techniques*, **2003**, 51, 2402-2408	4.1	8
76	Near-field hybrid recording with a mode index waveguide lens **2000**, 4090, 66		8
75	Variations in auto-oscillation frequency at the main resonance in rectangular yttrium–iron–garnet films. *Journal of Applied Physics*, **1996**, 79, 5374	2.5	8
74	Variations in the magneto-optic coupling coefficient in a bismuth-lutetium-iron-garnet film. *IEEE Transactions on Magnetics*, **1996**, 32, 4174-4176	2	8
73	Magnetostatic wave precursors in thin ferrite films. *Journal of Applied Physics*, **1982**, 53, 2658-2660	2.5	8
72	Eigenfrequencies of a Truncated Conical Resonator via the Classical and Wentzel–Kramers–Brillouin Methods. *IEEE Transactions on Microwave Theory and Techniques*, **2008**, 56, 1909-1916	4.1	7
71	Doppler component analysis of the suburban vehicle-to-vehicle DSRC propagation channel at 5.9 GHz **2008**,		7
70	A fully mobile, GPS enabled, vehicle-to-vehicle measurement platform for characterization of the 5.9 GHz DSRC channel **2007**,		7
69	Variational formulation of magnetostatic wave dispersion relations. *IEEE Transactions on Magnetics*, **1983**, 19, 1865-1867	2	7
68	Improved wireless power transfer efficiency with non-perfect lenses. *Applied Physics Letters*, **2019**, 114, 143903	3.4	6
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66	Higher order loop corrections for short range magnetoquasistatic position tracking **2011**,		6
65	On the capacity limits of HVAC duct channel for high-speed Internet access. *IEEE Transactions on Communications*, **2005**, 53, 335-342	6.9	6
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63	Improvement of FMR linewidth in Bi-substituted lutetium iron garnet thin films for the MSW-optical-mode interaction. *Journal of Applied Physics*, **1993**, 73, 6460-6462	2.5	6
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59	Error Reduction in Magnetoquasistatic Positioning Using Orthogonal Emitter Measurements. *IEEE Antennas and Wireless Propagation Letters*, **2012**, 11, 1462-1465	3.8	5
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57	Effect of sodium doping of rare-earth iron garnet films on magnetic and magneto-optic properties. *Journal of Applied Physics*, **1991**, 70, 6289-6291	2.5	5
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55	Magnetostatic surface modes in a thin film with nonuniform in-plane fields. *IEEE Transactions on Magnetics*, **1980**, 16, 1156-1158	2	5
54	Wireless orientation sensing using magnetoquasistatic fields and complex image theory **2012**,		4
53	Refraction Theory for Planar Waveguides: Modeling of a Mode Index Integrated Solid Immersion Lens. *Japanese Journal of Applied Physics*, **2003**, 42, 740-749	1.4	4
52	Mark shapes in hybrid recording. *Applied Physics Letters*, **2002**, 80, 1835-1837	3.4	4
51	Ferroelectrics as a versatile solid state platform for integrated optics. *Integrated Ferroelectrics*, **1998**, 22, 465-471	0.8	4
50	Fabrication and characterization of high-speed integrated electro-optic lens and scanner devices **1999**,		4
49	Oxygen pressure dependence of laser deposited barium ferrite films on LLC(111). *IEEE Transactions on Magnetics*, **1995**, 31, 3826-3828	2	4

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47	Magnetostatic waves in nonuniform bias fields including exchange effects. *IEEE Transactions on Magnetics*, **1980**, 16, 1153-1155	2	4
46	Communication Systems for Car-2-X Networks45-81		4
45	Antenna Array Detection in Highly Cluttered Environment Using Time Reversal Method. *IEEE MTT-S International Microwave Symposium Digest IEEE MTT-S International Microwave Symposium*, **2007**,		3
44	Experimental Effects of Laser Power on the Writability and Pulse Width in a Heat Assisted Longitudinal Recording System. *Japanese Journal of Applied Physics*, **2003**, 42, 989-994	1.4	3
43	Magnetostatic backward waves in low dose ion implanted YIG films. *IEEE Transactions on Magnetics*, **1986**, 22, 859-861	2	3
42	. *IEEE Transactions on Magnetics*, **1988**, 24, 2805-2807	2	3
41	Suppression of magnetostatic backward volume wave end reflections via field gradients. *Journal of Applied Physics*, **1985**, 57, 3718-3720	2.5	3
40	Channel Propagation Measurement and Modeling for Vehicular In-Cabin Wi-Fi Networks. *IEEE Transactions on Antennas and Propagation*, **2016**, 64, 5424-5435	4.9	3
39	A compact positioning and velocity RF sensor for improved inertial navigation **2009**,		2
38	Properties and Applications of the Suburban Vehicle-to-Vehicle Propagation Channel at 5.9 GHz **2007**,		2
37	Efficient Simulation of Mobile-To-Mobile Rayleigh Fading using Gaussian Quadrature. *IEEE Vehicular Technology Conference*, **2007**,	0.1	2
36	Synthetic Aperture Radar Ghost Image Cancellation Using Broadband Time Reversal Averaging Techniques. *IEEE MTT-S International Microwave Symposium Digest IEEE MTT-S International Microwave Symposium*, **2007**,		2
35	A study of near-field aperture geometry effects on very small aperture lasers (VSAL) **2003**,		2
34	Experimental investigation of domain expansion speeds in MAMMOS. *IEEE Transactions on Magnetics*, **2002**, 38, 2099-2101	2	2
33	Integration of electro-optic lenses and scanners on ferroelectric LiTaO3. *Integrated Ferroelectrics*, **1999**, 25, 31-36	0.8	2
32	Electro-optic scanner for optical disk fine tracking system **1999**,		2
31	Orientation dependence of dipole gaps in the magnetostatic wave spectrum of Bi-substituted iron garnets. *Journal of Applied Physics*, **1994**, 75, 6066-6068	2.5	2

30	Waveguide optical scanner with increased deflection sensitivity for optical data storage **1994**,		2
29	Effective Interaction Lengths In The Collinear Magnetostatic Wave - Optical Interaction **1990**, 1177, 365		2
28	Linear motion sensor using the Doppler effect with magnetostatic waves. *Journal of Applied Physics* , **1990**, 67, 511-514	2.5	2
27	Magnetostatic wave ring resonator exhibiting a single resonance. *Journal of Applied Physics*, **1987**, 61, 4127-4129	2.5	2
26	Comparison of magnetostatic surface wave propagation characteristics at 77 and 299 K. *Journal of Applied Physics*, **1985**, 58, 4449-4451	2.5	2
25	Estimating the number of modes in multimode waveguide propagation environment **2011**,		1
24	A new geometrical channel model for vehicle-to-vehicle communications. *Digest / IEEE Antennas and Propagation Society International Symposium*, **2009**,		1
23	Quadratic power corrections to the dynamic magnetization using the transverse magnetostatic wave-optical interaction. *Journal of Applied Physics*, **1997**, 81, 2730-2735	2.5	1
22	Theoretical limit to domain position detection magnetic amplifying magnetooptical system. *IEEE Transactions on Magnetics*, **2004**, 40, 105-111	2	1
21	Information dimension analysis of chaotic forward volume spin waves in a yttrium–iron–garnet thin film. *Journal of Applied Physics*, **2000**, 87, 5091-5093	2.5	1
20	High Bandwidth Electro-optic Scanner for Optical Data Storage. *Japanese Journal of Applied Physics*, **2000**, 39, 883-887	1.4	1
19	Large electro-optic modulation effect observed in ion-exchanged KTiOPO4 waveguides. *Journal of Applied Physics*, **1996**, 80, 3662-3667	2.5	1
18	. *IEEE Transactions on Magnetics*, **1994**, 30, 4530-4532	2	1
17	. *IEEE Transactions on Microwave Theory and Techniques*, **1989**, 37, 851-859	4.1	1
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15	COLLINEAR INTERACTION OF OPTICAL GUIDED MODES WITH MICROWAVE SPIN WAVES IN MAGNETIC FILMS **1995**, 357-393		1
14	Interactions Between Optical Guided Modes and Nonlinear Magnetostatic Waves **1996**, 467-485		1
13	Propagation Characteristics and Excitation of Magnetostatic Waves **1993**, 119-153		1

12	The remote educational antenna laboratory: making it easier to add projects to antenna courses [education column]. *IEEE Antennas and Propagation Magazine*, **2014**, 56, 211-220	1.7	0
11	ACTIVE NEGATIVE INDUCTOR BASED ON MAGNETIC FLUX. *Progress in Electromagnetics Research C*, **2012**, 32, 259-269	0.9	
10	Electro-Optical Scanners. *Optical Science and Engineering*, **2011**, 593-636		
9	Magnetic Susceptibilities **2009**, 67-110		
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7	Mechanism for domain expansion in MAMMOS. *IEEE Transactions on Magnetics*, **2005**, 41, 2860-2862	2	
6	Numerical simulation of dynamic thermomagnetic switching and the optical signal in magnetic superresolution readout **2000**, 4090, 82		
5	Ferroelectric domain kinetics in congruent LiTaO3. *Integrated Ferroelectrics*, **1999**, 27, 137-146	0.8	
4	The effect of in situ laser annealing on laser ablation deposited garnet films. *Materials Letters*, **1994**, 21, 365-369	3.3	
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