Cynthia M Furse

List of Publications by Year
in descending order

194	4,161	186265 28	138484 58
papers	citations	h-index	g-index

199	199	199	1975
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Quantifying the Environmental Sensitivity of SSTDR Signals for Monitoring PV Strings. IEEE Journal of Photovoltaics, 2022, 12, 381-387.	2.5	2
2	Anomaly Detection of Disconnects Using SSTDR and Variational Autoencoders. IEEE Sensors Journal, 2022, 22, 3484-3492.	4.7	4
3	Next-Generation Healthcare: Enabling Technologies for Emerging Bioelectromagnetics Applications. IEEE Open Journal of Antennas and Propagation, 2022, 3, 363-390.	3.7	24
4	Fault Diagnosis for Electrical Systems and Power Networks: A Review. IEEE Sensors Journal, 2021, 21, 888-906.	4.7	110
5	Spread Spectrum Time Domain Reflectometry With Lumped Elements on Asymmetric Transmission Lines. IEEE Sensors Journal, 2021, 21, 921-929.	4.7	16
6	Electrical impedance myography: A critical review and outlook. Clinical Neurophysiology, 2021, 132, 338-344.	1.5	30
7	Bioelectromagnetic Uncertainty Analysis Using Geometrically Stochastic FDFD Method. IEEE Transactions on Antennas and Propagation, 2021, 69, 2433-2436.	5.1	3
8	Finding Faults in PV Systems: Supervised and Unsupervised Dictionary Learning With SSTDR. IEEE Sensors Journal, 2021, 21, 4855-4865.	4.7	15
9	Detection and Localization of Damaged Photovoltaic Cells and Modules Using Spread Spectrum Time Domain Reflectometry. IEEE Journal of Photovoltaics, 2021, 11, 195-201.	2.5	11
10	Spread Spectrum Time Domain Reflectometry and Steepest Descent Inversion Spread Spectrum Time Domain Reflectometry and Steepest Descent Inversion. Applied Computational Electromagnetics Society Journal, 2021, 36, 190-198.	0.4	4
11	Quantifying the Window of Uncertainty for SSTDR Measurements of a Photovoltaic System. IEEE Sensors Journal, 2021, 21, 9890-9899.	4.7	5
12	Spread Spectrum Techniques for Measurement of Dielectric Aging on Low Voltage Cables for Nuclear Power Plants. IEEE Transactions on Dielectrics and Electrical Insulation, 2021, 28, 1028-1033.	2.9	4
13	Detection and Localization of Disconnections in a Large-Scale String of Photovoltaics Using SSTDR. IEEE Journal of Photovoltaics, 2021, 11, 1097-1104.	2.5	7
14	Signals Passing Through Asymmetric Faults in Transmission Lines. IEEE Sensors Journal, 2021, 21, 16134-16140.	4.7	2
15	A SSTDR Methodology, Implementations, and Challenges. Sensors, 2021, 21, 5268.	3.8	12
16	Thermally tunable hydrogel crosslinking mediated by temperature sensitive liposome. Biomedical Materials (Bristol), 2021, 16, 065026.	3.3	2
17	Special Issue on Embedded Sensors for Fault Diagnosis in Electrical Wiring Interconnection Systems, Power Grids, Structural Cables, Pipelines, and Electrical Machines. IEEE Sensors Journal, 2021, 21, 886-887.	4.7	5
18	Measurements on a Thermally-Crosslinked Biopolymer for Future Implantable Antennas. , 2021, , .		0

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19	Towards a Spread Spectrum VNA. , 2021, , .		2
20	Should SAR Guidelines Include Variability?. , 2021, , .		1
21	Miniaturization of Implantable Antenna and Discussion of Concentration of Fields. , 2021, , .		1
22	University of Utah Hybrid-Flexible Education. , 2021, , .		1
23	Detection and Localization of Disconnections in PV Strings Using Spread-Spectrum Time-Domain Reflectometry. IEEE Journal of Photovoltaics, 2020, 10, 236-242.	2.5	19
24	Measurement of Capacitance Using Spread Spectrum Time Domain Reflectometry (SSTDR) and Dictionary Matching. IEEE Sensors Journal, 2020, 20, 10102-10109.	4.7	11
25	How to Be a Great Advocate for Women in Engineering [Women in Engineering]. IEEE Antennas and Propagation Magazine, 2020, 62, 98-103.	1.4	3
26	Biostable conductive nanocomposite for implantable subdermal antenna. APL Materials, 2020, 8, .	5.1	9
27	A Model for SSTDR Signal Propagation Through Photovoltaic Strings. IEEE Journal of Photovoltaics, 2020, 10, 1846-1852.	2.5	3
28	REFLECTOMETRY ON ASYMMETRIC TRANSMISSION LINE SYSTEMS. Progress in Electromagnetics Research M, 2020, 89, 121-130.	0.9	5
29	Design of an Interstitial Microwave Applicator for 3D Printing in the Body. IEEE Journal of Electromagnetics, RF and Microwaves in Medicine and Biology, 2020, 4, 260-264.	3.4	5
30	An Overview of Spread Spectrum Time Domain Reflectometry Responses to Photovoltaic Faults. IEEE Journal of Photovoltaics, 2020, 10, 844-851.	2.5	25
31	A Busy Professor's Guide to Sanely Flipping Your Classroom: Bringing active learning to your teaching practice. IEEE Antennas and Propagation Magazine, 2020, 62, 31-42.	1.4	6
32	Field Focusing for Implanted Medical Devices. IEEE Journal of Electromagnetics, RF and Microwaves in Medicine and Biology, 2020, 4, 273-278.	3.4	1
33	Adaptation of a Microwave Ablation System for Wireless Medical Applications. , 2020, , .		1
34	Estimating the Variance of SAR in a 3D Human Head Model Using Stochastic FDTD. , 2020, , .		2
35	Postprocessing for Improved Accuracy and Resolution of Spread Spectrum Time-Domain Reflectometry. , 2019, 3, 1-4.		19
36	Spread spectrum time-domain reflectometry for detecting and locating capacitive impedances. AIP Conference Proceedings, 2019, , .	0.4	5

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37	Geometrically Stochastic Finite Difference Time Domain Method. , 2019, , .		0
38	Ham Radio and the Pony Express: Providing Communication in Remote Areas. IEEE Antennas and Propagation Magazine, 2019, 61, 12-19.	1.4	1
39	Geometrically Stochastic FDTD Method for Uncertainty Quantification of EM Fields and SAR in Biological Tissues. IEEE Transactions on Antennas and Propagation, 2019, 67, 7466-7475.	5.1	20
40	Entrepreneurship: Getting Your Research Off the Bench and Out Into the Real World [Young Professionals]. IEEE Antennas and Propagation Magazine, 2019, 61, 139-142.	1.4	1
41	Comparison of Passive 2-D and 3-D Ring Arrays for Medical Telemetry Focusing. IEEE Antennas and Wireless Propagation Letters, 2019, 18, 1189-1193.	4.0	7
42	A Layered Pork Model for Subdermal Antenna Tests at 433 MHz. IEEE Journal of Electromagnetics, RF and Microwaves in Medicine and Biology, 2019, 3, 171-176.	3.4	11
43	Spread Spectrum Time Domain Reflectometry (SSTDR) and Dictionary Matching to Measure Capacitance for PV cells. , 2019, , .		3
44	FAST TRANSIENT SIMULATIONS FOR MULTI-SEGMENT TRANSMISSION LINES WITH A GRAPHICAL MODEL. Progress in Electromagnetics Research, 2019, 165, 67-82.	4.4	5
45	Applicability of SSTDR Analysis of Complex Loads. , 2019, , .		4
46	Design of an Interstitial Microwave Applicator for 3D Printing Antennas in the Body. , 2019, , .		2
47	Signal Propagation Through Piecewise Transmission Lines for Interpretation of Reflectometry in Photovoltaic Systems. IEEE Journal of Photovoltaics, 2019, 9, 506-512.	2.5	14
48	Effect of conductivity on subdermal antennas. Microwave and Optical Technology Letters, 2018, 60, 1154-1160.	1.4	9
49	Bioelectromagnetic Dosimetry: Simulating Electromagnetic Fields in the Human Body. , 2018, , 351-368.		0
50	Field Focusing with Novel Implantable Lens Designs using 3D Printing. , 2018, , .		3
51	A Biological Testbed for Implanted Antennas Using Layered Porcine Tissue. , 2018, , .		3
52	Fault Detection In PV Strings Using SSTDR. , 2018, , .		6
53	Spread Spectrum Time Domain Reflectometry for Complex Impedances: Application to PV Arrays. , 2018, , .		13
54	A Comparison of Solid, Mesh, and Segmented Strip Dipoles in a Subdermal Environment. IEEE Journal of Electromagnetics, RF and Microwaves in Medicine and Biology, 2018, 2, 218-225.	3.4	2

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55	Electromagnetics Education: Past, Present, and Future Directions. , 2018, , 655-675.		0
56	Connector impedance and frequency modes in aerospace wiring systems. Microwave and Optical Technology Letters, 2017, 59, 89-93.	1.4	0
57	A Ka-band (26 GHz) circularly polarized 2Ã—2 microstrip patch sub-array with compact feed. , 2017, , .		3
58	Effect of Material Properties on a Subdermal UHF RFID Antenna. IEEE Journal of Radio Frequency Identification, 2017, 1, 260-266.	2.3	17
59	A comparison of solid, mesh, and segmented broad dipoles in biological environments. , 2017, , .		2
60	Ripple analysis: Identify and quantify reflective interference through ISI decomposition. , 2016, , .		1
61	Biocompatible, implantable UHF RFID antenna made from conductive ink. , 2016, , .		10
62	Statistical variation of wire parameters within complex aerospace networks. Microwave and Optical Technology Letters, 2016, 58, 2082-2084.	1.4	1
63	An implantable antenna designed for ease of manufacturing. Microwave and Optical Technology Letters, 2016, 58, 619-623.	1.4	1
64	Opening up collaboration and partnership possibilities. Digital Library Perspectives, 2016, 32, 103-116.	1.1	7
65	Co-flipped teaching: Experiences sharing the flipped class. , 2015, , .		7
66	A 3-D Stochastic FDTD Model of Electromagnetic Wave Propagation in Magnetized Ionosphere Plasma. IEEE Transactions on Antennas and Propagation, 2015, 63, 304-313.	5.1	53
67	Learning to teach in the flipped classroom. , 2014, , .		8
68	Scaling the response of nanocrescent antennas into the ultraviolet. , 2014, , .		0
69	Outreach and Identity Development: New Perspectives on College Student Persistence. The Journal of College Student Retention: Researchory and Practice, 2014, 16, 165-185.	1.5	9
70	A history & future of implantable antennas. , 2014, , .		5
71	A tutorial on Stochastic FDTD. , 2014, , .		0
72	Analysis of electromagnetic field variability in magnetized ionosphere plasma using the stochastic FDTD method. , 2014, , .		3

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73	Scaling the Response of Nanocrescent Antennas into the Ultraviolet. ACS Photonics, 2014, 1, 496-506.	6.6	21
74	Advanced Forward Methods for Complex Wire Fault Modeling. IEEE Sensors Journal, 2013, 13, 1172-1179.	4.7	16
75	Gender Differences in Expressed Interests in Engineering-Related Fields ACT 30-Year Data Analysis Identified Trends and Suggested Avenues to Reverse Trends. Journal of Career Assessment, 2013, 21, 599-613.	2.5	21
76	Gender disparity in engineering: Results and analysis from school counselors survey and national vignette. , 2013, , .		2
77	A busy professor's guide to sanely flipping your classroom. , 2013, , .		7
78	Manufacturing considerations for implantable antennas. , 2013, , .		4
79	Gender disparity in engineering: Results and analysis from school counselors survey and national vignette. , 2012, , .		2
80	Challenges with Optically Transparent Patch Antennas. IEEE Antennas and Propagation Magazine, 2012, 54, 10-16.	1.4	83
81	Stochastic FDTD for Analysis of Statistical Variation in Electromagnetic Fields. IEEE Transactions on Antennas and Propagation, 2012, 60, 3343-3350.	5.1	88
82	Novel inverse methods for wire fault detection and diagnosis. , 2011, , .		2
83	A study on the efficiency of transparent patch antennas designed from conductive oxide films. , 2011, , .		42
84	A comparative study on two types of transparent patch antennas. , 2011, , .		54
85	A stochastic FDTD method for statistically varying biological tissues. , 2011, , .		6
86	Lecture-Free Engineering Education. IEEE Antennas and Propagation Magazine, 2011, 53, 176-179.	1.4	11
87	Measurement and modeling of multiuser multiantenna system in aircraft in the presence of electromagnetic noise and interference. Microwave and Optical Technology Letters, 2011, 53, 1137-1144.	1.4	3
88	Leaky fields from damaged shields. , 2011, , .		0
89	Measurement and Modeling of Multiantenna Systems in Small Aircraft. Journal of Aerospace Computing, Information, and Communication, 2011, 8, 170-182.	0.8	0
90	Women in engineering: Statistical analysis of ACT data and proposed procedure to reverse trend. , 2011, , .		3

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91	Antenna optimization for vehicular environments. , 2011, , .		2
92	Reflectometry for Structural Health Monitoring. Lecture Notes in Electrical Engineering, 2011, , 159-185.	0.4	8
93	Measurement and modeling of interference for multiple antenna system. Microwave and Optical Technology Letters, 2010, 52, 2031-2037.	1.4	0
94	Challenges with optically transparent patch antennas for small satellites. , 2010, , .		14
95	Measurement and modeling of noise and interference in aircraft system. , 2010, , .		0
96	Inexpensive fabric antenna for off-body wireless sensor communication. , 2010, , .		9
97	Calculating Grounding-Electrode Impedance Using Fall-of-Potential and Impedance Methods. IEEE Antennas and Propagation Magazine, 2010, 52, 151-154.	1.4	8
98	2.5 GHz microwave thermal ablation for performing thermosensitive polymer-chemotherapy for cancer. , 2010, , .		0
99	Passive feed methods for meshed antennas. , 2010, , .		6
100	Measured Multi-User MIMO Capacity in Aircraft. IEEE Antennas and Propagation Magazine, 2010, 52, 179-184.	1.4	10
101	Work in progress - outreach and retention in the University of Utah Engineering programs. , 2009, , .		1
102	Enabling wireless communication in aircraft using multiple antenna system. , 2009, , .		2
103	3D ray-tracing for intra-vehicle environments. , 2009, , .		0
104	Capacitance and Inductance Sensor Circuits for Detecting the Lengths of Open- and Short-Circuited Wires. IEEE Transactions on Instrumentation and Measurement, 2009, 58, 2495-2502.	4.7	27
105	Filterbank Multicarrier Reflectometry for Cognitive Live Wire Testing. IEEE Sensors Journal, 2009, 9, 1831-1837.	4.7	12
106	Biomedical telemetry: Today's opportunities and challenges. , 2009, , .		17
107	Feasibility of Reflectometry for Nondestructive Evaluation of Prestressed Concrete Anchors. IEEE Sensors Journal, 2009, 9, 1322-1329.	4.7	39
108	Dr. Furse's Lazy Professor's Guide to Teaching. IEEE Antennas and Propagation Magazine, 2009, 51, 174-175.	1.4	0

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109	Cynthia Furse to Receive the Hewlett-Packard Harriett B. Rigas Award [Report of Awards and Fellow Committee]. IEEE Antennas and Propagation Magazine, 2009, 51, 170-170.	1.4	0
110	MIMO capacity dependence on realistic crossâ€polarization and branch power ratios. Microwave and Optical Technology Letters, 2008, 50, 1384-1388.	1.4	1
111	Work in progress - Utah’s engineering initiative. , 2008, , .		0
112	The MIMO transmission equation. , 2008, , .		6
113	System level analysis of noise and interference analysis for a MIMO system. , 2008, , .		2
114	Predicted MIMO performance in intra-vehicle channels. , 2008, , .		2
115	What is the IEEE AP-S Education Committee Doing for You? [Education Column]. IEEE Antennas and Propagation Magazine, 2007, 49, 172-173.	1.4	0
116	Recovering handset MIMO capacity with polarization-agile antennas. , 2007, , .		0
117	Improving communication skills through project-based learning. , 2007, , .		4
118	Recent Advances in BioMedical Telemetry. , 2007, , .		3
119	Recovering Handset Diversity and MIMO Capacity With Polarization-Agile Antennas. IEEE Transactions on Antennas and Propagation, 2007, 55, 3333-3340.	5.1	18
120	Low-Power STDR CMOS Sensor for Locating Faults in Aging Aircraft Wiring. IEEE Sensors Journal, 2007, 7, 43-50.	4.7	65
121	Resolving A Paradox in the Teaching of Faraday's Law - [Education Column]. IEEE Antennas and Propagation Magazine, 2007, 49, 192-200.	1.4	9
122	Optimization of a buried microstrip antenna for simultaneous communication and sensing of soil moisture. IEEE Transactions on Antennas and Propagation, 2006, 54, 797-800.	5.1	24
123	The invisible fray: a critical analysis of the use of reflectometry for fray location. IEEE Sensors Journal, 2006, 6, 697-706.	4.7	121
124	Noncontact Probes for Wire FaultLocation With Reflectometry. IEEE Sensors Journal, 2006, 6, 1716-1721.	4.7	56
125	Broadband and Multiband Antenna Design Using the Genetic Algorithm to Create Amorphous Shapes Using Ellipses. IEEE Transactions on Antennas and Propagation, 2006, 54, 2776-2782.	5.1	40
126	Multicarrier reflectometry. IEEE Sensors Journal, 2006, 6, 812-818.	4.7	48

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127	IEEE Antennas and Propagation Society Undergraduate/Graduate Research Awards for 2006-7. IEEE Antennas and Propagation Magazine, 2006, 48, 152-152.	1.4	0
128	Education column - Spring 2006 IEEE AP-S graduate and undergraduate research award recipients. IEEE Antennas and Propagation Magazine, 2006, 48, 140-141.	1.4	0
129	Un-Dilberting the Engineer. IEEE Antennas and Propagation Magazine, 2006, 48, 139-140.	1.4	0
130	A Simple Radio Telescope Operating at Ku Band for Educational Purposes. IEEE Antennas and Propagation Magazine, 2006, 48, 144-152.	1.4	4
131	A critical comparison of reflectometry methods for location of wiring faults. Smart Structures and Systems, 2006, 2, 25-46.	1.9	179
132	13 crazy, notorious things to do in an EM class. IEEE Antennas and Propagation Magazine, 2005, 47, 133-134.	1.4	2
133	Application of Phase Detection Frequency Domain Reflectometry for Locating Faults in an F-18 Flight Control Harness. IEEE Transactions on Electromagnetic Compatibility, 2005, 47, 327-334.	2.2	65
134	Noise-Domain Reflectometry for Locating Wiring Faults. IEEE Transactions on Electromagnetic Compatibility, 2005, 47, 97-104.	2.2	68
135	Spread spectrum sensors for critical fault location on live wire networks. Structural Control and Health Monitoring, 2005, 12, 257-267.	4.0	50
136	Mixed-signal reflectometer for location of faults on aging wiring. IEEE Sensors Journal, 2005, 5, 1479-1482.	4.7	48
137	Analysis of spread spectrum time domain reflectometry for wire fault location. IEEE Sensors Journal, 2005, 5, 1469-1478.	4.7	271
138	Feasibility of spread spectrum sensors for location of arcs on live wires. IEEE Sensors Journal, 2005, 5, 1445-1450.	4.7	96
139	Education column. IEEE Antennas and Propagation Magazine, 2005, 47, 116-116.	1.4	0
140	What is the difference between a mountain goat and a vector?. IEEE Antennas and Propagation Magazine, 2005, 47, 167-168.	1.4	0
141	Integration of signals/systems and electromagnetics courses through the design of a communication system for a cardiac pacemaker. IEEE Antennas and Propagation Magazine, 2005, 47, 117-119.	1.4	4
142	Templates for teaching. IEEE Antennas and Propagation Magazine, 2005, 47, 111-111.	1.4	0
143	Trepidation-free teamwork teaching. IEEE Antennas and Propagation Magazine, 2005, 47, 161-163.	1.4	0
144	The impedance of a short dipole antenna in a magnetized plasma via a finite difference time domain model. IEEE Transactions on Antennas and Propagation, 2005, 53, 2711-2718.	5.1	30

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145	A robust detector for multicarrier spread spectrum transmission over partially jammed channels. IEEE Transactions on Signal Processing, 2005, 53, 1038-1044.	5.3	18
146	Miniaturized biocompatible microstrip antenna using genetic algorithm. IEEE Transactions on Antennas and Propagation, 2005, 53, 1939-1945.	5.1	115
147	Laboratory Project in Wireless FSK Receiver Design. IEEE Transactions on Education, 2004, 47, 18-25.	2.4	18
148	Take a stand: speaking about RF safety [Education Column]. IEEE Antennas and Propagation Magazine, 2004, 46, 146-150.	1.4	1
149	Design of Implantable Microstrip Antenna for Communication With Medical Implants. IEEE Transactions on Microwave Theory and Techniques, 2004, 52, 1944-1951.	4.6	392
150	Frequency-domain reflectometery for on-board testing of aging aircraft wiring. IEEE Transactions on Electromagnetic Compatibility, 2003, 45, 306-315.	2.2	193
151	Teaching and learning combined (TLC). IEEE Antennas and Propagation Magazine, 2003, 45, 166-167.	1.4	5
152	An inexpensive distance measuring system for navigation of robotic vehicles. Microwave and Optical Technology Letters, 2002, 33, 84-87.	1.4	14
153	FDTD modeling and validation of EM survey tools. Microwave and Optical Technology Letters, 2002, 34, 427-429.	1.4	6
154	On the equivalent circuit of a receiving antenna. IEEE Antennas and Propagation Magazine, 2002, 44, 164-165.	1.4	37
155	Crossâ€borehole delineation of a conductive ore deposit in a resistive hostâ€"experimental design. Geophysics, 2001, 66, 824-835.	2.6	9
156	Application and optimization of the perfectly matched layer boundary condition for geophysical simulations. Microwave and Optical Technology Letters, 2000, 25, 253-255.	1.4	7
157	An implantable antenna for communication with implantable medical devices. , 2000, , .		9
158	Faster than Fourier: ultra-efficient time-to-frequency-domain conversions for FDTD simulations. IEEE Antennas and Propagation Magazine, 2000, 42, 24-34.	1.4	41
159	Prof. James R. Wait and mining production technology-an appreciation. IEEE Transactions on Antennas and Propagation, 2000, 48, 1438-1441.	5.1	6
160	The problem and treatment of DC offsets in FDTD simulations. IEEE Transactions on Antennas and Propagation, 2000, 48, 1198-1201.	5.1	23
161	Computations of SAR distributions for two anatomically based models of the human head using CAD files of commercial telephones and the parallelized FDTD code. IEEE Transactions on Antennas and Propagation, 1998, 46, 829-833.	5.1	86
162	Comparison of FDTD computed and measured radiation patterns of commercial mobile telephones in presence of the human head. IEEE Transactions on Antennas and Propagation, 1998, 46, 943-944.	5.1	25

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163	Power deposition in the head and neck of an anatomically based human body model for plane wave exposures. Physics in Medicine and Biology, 1998, 43, 2361-2378.	3.0	46
164	Calculation of electric fields and currents induced in a millimeterâ€resolution human model at 60 Hz using the FDTD method. Bioelectromagnetics, 1998, 19, 293-299.	1.6	6
165	Currents induced in the human body for exposure to ultrawideband electromagnetic pulses. IEEE Transactions on Electromagnetic Compatibility, 1997, 39, 174-180.	2.2	29
166	Use of PML boundary conditions for wireless telephone simulations. Microwave and Optical Technology Letters, 1997, 15, 95-98.	1.4	2
167	Validation of the finite-difference time-domain method for near-field bioelectromagnetic simulations. Microwave and Optical Technology Letters, 1997, 16, 341-345.	1.4	11
168	Electromagnetic absorption in the human head and neck for mobile telephones at 835 and 1900 MHz. IEEE Transactions on Microwave Theory and Techniques, 1996, 44, 1884-1897.	4.6	422
169	A memory efficient method of calculating specific absorption rate in CW FDTD simulations. IEEE Transactions on Biomedical Engineering, 1996, 43, 558-560.	4.2	3
170	Why the DFT is faster than the FFT for FDTD time-to-frequency domain conversions. , 1995, 5, 326-328.		41
171	The use of the frequency-dependent finite-difference time-domain method for induced current and SAR calculations for a heterogeneous model of the human body. IEEE Transactions on Electromagnetic Compatibility, 1994, 36, 128-133.	2.2	39
172	A simple convolution procedure for calculating currents induced in the human body for exposure to electromagnetic pulses. IEEE Transactions on Microwave Theory and Techniques, 1994, 42, 1172-1175.	4.6	17
173	Improvements to the finite-difference time-domain method for calculating the radar cross section of a perfectly conducting target. IEEE Transactions on Microwave Theory and Techniques, 1990, 38, 919-927.	4.6	65
174	Evaluation and optimization of the electromagnetic performance of interstitial antennas for hyperthermia. International Journal of Radiation Oncology Biology Physics, 1990, 18, 895-902.	0.8	11
175	Three-dimensional electromagnetic power deposition in tumors using interstitial antenna arrays. IEEE Transactions on Biomedical Engineering, 1989, 36, 977-986.	4.2	29
176	Optimization and design of conductivity profiles for the PML boundary condition and its application to bioelectromagnetic problems. , 0, , .		1
177	Making a world of difference recruitment of undergraduate students at USU. , 0, , .		0
178	An inexpensive distance measuring system for location of robotic vehicles. , 0, , .		7
179	Hands-on electromagnetics: microstrip circuit and antenna design laboratories at USU. , 0, , .		4
180	Microstrip antennas for dielectric property measurement. , 0, , .		6

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181	Applications of microsystems and signal processing for wiring integrity monitoring. , 0, , .		3
182	Integrated dual band GSM microstrip monopole using GA and FDTD. , 0, , .		1
183	Intermittent Fault Location on Live Electrical Wiring Systems. SAE International Journal of Aerospace, 0, 1, 1101-1106.	4.0	8
184	Basic Introduction to Bioelectromagnetics. , 0, , .		42
185	Basic Introduction to Bioelectromagnetics. , 0, , .		14
186	Board 45: Teach-Flipped: A Faculty Development MOOC on How to Teach Flipped. , 0, , .		0
187	Bottlenecks and Muddiest Points in a Freshman Circuits Course. , 0, , .		2
188	Gender Differences In Expressed And Measured Interests In Engineering Related Fields Over A 30 Year Span. , 0, , .		0
189	Challenges In Curriculum Adaptation Across Institutions Of Higher Education: International And National Student Transfer. , 0, , .		0
190	Integrated System Level Design In Electrical Engineering. , 0, , .		2
191	Lab Report Writing (And Teaching!) Made Easy. , 0, , .		1
192	Lessons Learned Developing an Engaging Engineering Summer Camp. , 0, , .		1
193	University Partnership with High School Teachers to Increase Student Awareness of Engineering. , 0, , .		0
194	Student-centered and Teacher-friendly Formative Assessment in Engineering. , 0, , .		0