

Yan Zhao

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1902511/publications.pdf>

Version: 2024-02-01

64
papers

1,186
citations

331670

21
h-index

434195

31
g-index

64
all docs

64
docs citations

64
times ranked

904
citing authors

#	ARTICLE	IF	CITATIONS
1	UWB on-body radio channel modeling using ray theory and subband FDTD method. IEEE Transactions on Microwave Theory and Techniques, 2006, 54, 1827-1835.	4.6	121
2	Full-wave finite-difference time-domain simulation of electromagnetic cloaking structures. Optics Express, 2008, 16, 6717.	3.4	112
3	Transmission of images with subwavelength resolution to distances of several wavelengths in the microwave range. Physical Review B, 2008, 77, .	3.2	101
4	Experimental demonstration of multiwire endoscopes capable of manipulating near-fields with subwavelength resolution. Applied Physics Letters, 2010, 97, .	3.3	63
5	Experimental study of the subwavelength imaging by a wire medium slab. Applied Physics Letters, 2006, 89, 262109.	3.3	60
6	A fingerprinting-based indoor localization system using intensity modulation of light emitting diodes. Microwave and Optical Technology Letters, 2012, 54, 1218-1227.	1.4	53
7	Finite-Difference Time-Domain Study of Guided Modes in Nano-Plasmonic Waveguides. IEEE Transactions on Antennas and Propagation, 2007, 55, 3070-3077.	5.1	49
8	A Radially-Dependent Dispersive Finite-Difference Time-Domain Method for the Evaluation of Electromagnetic Cloaks. IEEE Transactions on Antennas and Propagation, 2009, 57, 1432-1441.	5.1	47
9	Design of Compact Beam-Steering Antennas Using a Metasurface Formed by Uniform Square Rings. IEEE Access, 2018, 6, 9420-9429.	4.2	45
10	FDTD Characterization of UWB Indoor Radio Channel Including Frequency Dependent Antenna Directivities. IEEE Antennas and Wireless Propagation Letters, 2007, 6, 191-194.	4.0	38
11	Manipulating the loss in electromagnetic cloaks for perfect wave absorption. Optics Express, 2009, 17, 8467.	3.4	29
12	Modelling of Wave Propagation in Wire Media Using Spatially Dispersive Finite-Difference Time-Domain Method: Numerical Aspects. IEEE Transactions on Antennas and Propagation, 2007, 55, 1506-1513.	5.1	28
13	Full-wave parallel dispersive finite-difference time-domain modeling of three-dimensional electromagnetic cloaking structures. Journal of Computational Physics, 2009, 228, 7300-7312.	3.8	28
14	Enhancement of evanescent spatial harmonics inside media with extreme optical anisotropy. Optics Letters, 2009, 34, 527.	3.3	28
15	Design of a PIN Diode-Based Reconfigurable Metasurface Antenna for Beam Switching Applications. International Journal of Antennas and Propagation, 2019, 2019, 1-7.	1.2	28
16	Accurate modeling of the optical properties of left-handed media using a finite-difference time-domain method. Physical Review E, 2007, 75, 037602.	2.1	26
17	Accurate modelling of left-handed metamaterials using a finite-difference time-domain method with spatial averaging at the boundaries. Journal of Optics, 2007, 9, S468-S475.	1.5	26
18	Magnification of subwavelength field distributions using a tapered array of metallic wires with planar interfaces and an embedded dielectric phase compensator. New Journal of Physics, 2010, 12, 103045.	2.9	26

#	ARTICLE	IF	CITATIONS
19	Design of Visible Light Communication Receiver for On-Off Keying Modulation by Adaptive Minimum-Voltage Cancelation. Engineering Journal, 2013, 17, 125-130.	1.0	25
20	Spatially dispersive finite-difference time-domain analysis of sub-wavelength imaging by the wire medium slabs. Optics Express, 2006, 14, 5154.	3.4	24
21	Subwavelength internal imaging by means of a wire medium. Journal of Optics, 2009, 11, 075101.	1.5	21
22	An Efficient FDTD Algorithm Based on the Equivalence Principle for Analyzing Onbody Antenna Performance. IEEE Transactions on Antennas and Propagation, 2009, 57, 1006-1014.	5.1	20
23	Radiation properties of PIFA on electromagnetic bandgap substrates. Microwave and Optical Technology Letters, 2005, 44, 21-24.	1.4	17
24	Controlling the resonances of indefinite materials for maximizing efficiency in wireless power transfer. Microwave and Optical Technology Letters, 2014, 56, 867-875.	1.4	16
25	An LED Based Indoor Localization System Using k-Means Clustering. , 2016, , .		14
26	A Simulation Environment for Subject-Specific Radio Channel Modeling in Wireless Body Sensor Networks. , 2009, , .		11
27	Design and Implementation of Secure and Reliable Communication using Optical Wireless Communication. Frequenz, 2014, 68, .	0.9	11
28	An RFID-based indoor localization system using antenna beam scanning. , 2012, , .		10
29	A Compact Dual-Broadband Multiple-Input Multiple-Output (MIMO) Indoor Base Station Antenna for 2G/3G/LTE Systems. IEEE Access, 2019, 7, 82238-82245.	4.2	10
30	Two Novel FDTD Based UWB Indoor Propagation Models. , 0, , .		9
31	Relativistic finite-difference time-domain analysis of high-speed moving metamaterials. Scientific Reports, 2018, 8, 7686.	3.3	9
32	Statistical and deterministic modelling of radio propagation channels in WBAN at 2.45GHz. , 2006, , .		8
33	A Subject-Specificity Analysis of Radio Channels in Wireless Body Area Networks. Engineering Journal, 2011, 15, 39-48.	1.0	7
34	True Nulls-Free Magnetoinductive Waveguides Using Alternate Coupling Polarities for Batteryless Dynamic Wireless Power Transfer Applications. IEEE Transactions on Power Electronics, 2022, 37, 8835-8854.	7.9	7
35	FDTD Characterisation of UWB Indoor Radio Channel Including Frequency Dependent Antenna Directivities. , 2006, , .		6
36	A subject-specific radio propagation study in wireless body area networks. , 2009, , .		6

#	ARTICLE	IF	CITATIONS
37	Performance analysis of optical wireless communication system using pulse width modulation. , 2013, , .		6
38	Analysys of on-body antenna radiation pattern using a numerical technique based on FDTD and equivalence principle. , 2008, , .		5
39	High frequency rectifier for RF energy harvesting systems. , 2015, , .		5
40	Evanescent wave amplification and subwavelength imaging by ultrathin uniaxial $\hat{\epsilon}$ -near-zero material. AIP Advances, 2014, 4, 027115.	1.3	4
41	System demonstration for visible light communication using adaptive threshold detection for low data rate applications. , 2012, , .		3
42	Improving the efficiency of wireless power transfer systems using metamaterials. , 2013, , .		3
43	Modelling of propagation and interaction between body-mounted antennas, and the modelling of body-centric, context aware application scenarios. , 2009, , .		3
44	Experiment of a Phase-Gradient Metasurface Reflector for Millimeter Wave and 5G Applications. , 2022, , .		3
45	Spatially Dispersive Finite-Difference Time-Domain Modelling of the Wire Medium for Subwavelength Imaging. , 2007, , .		2
46	R-LABS: An RFID-based indoor localisation system using antenna beam scanning. Journal of Ambient Intelligence and Smart Environments, 2013, 5, 251-266.	1.4	2
47	Controlling the resonances of indefinite materials for maximizing efficiency in wireless power transfer. , 2014, , .		2
48	Design and implementation of class E power amplifier with parallel circuit for wireless power transfer systems. , 2017, , .		2
49	Compact Non-uniform Planar Metasurface for Efficiency Enhancement of Wireless Power Transfer. , 2019, , .		2
50	Sub-wavelength imaging by a wire medium slab: experiment. , 2007, , .		1
51	Amplification of evanescent spatial harmonics and subwavelength imaging inside of a wire medium slab. , 2007, , .		1
52	Dispersive Finite-Difference Time-Domain simulation of electromagnetic cloaking devices. , 2008, , .		1
53	Analysis of on-body propagation channel using a hybrid technique combining the equivalence principle and FDTD. , 2008, , .		1
54	Articulated Postures for Subject-Specific RF Simulation. , 2010, , .		1

#	ARTICLE	IF	CITATIONS
55	A Free-formed EBG resonator antenna at millimeter wave frequencies. , 2006, , .		0
56	A conformal dispersive FDTD method for modelling of nano-plasmonic waveguides. , 2007, , .		0
57	Accurate modelling of the optical properties of left-handed media using a finite-difference time-domain method. , 2007, , .		0
58	Experimental Study of the Subwavelength Imaging by a Wire Medium Slab. , 2007, , .		0
59	Dispersive finite-difference time-domain simulation of electromagnetic cloaking structures. , 2008, , .		0
60	Characterization of microwave absorber based on transformation electromagnetics. , 2009, , .		0
61	Parallel FDTD modeling of metallic nanolens. , 2010, , .		0
62	Investigation of image magnification properties of hyperlenses formed by a tapered array of metallic wires using a spatially dispersive finite-difference time-domain method in cylindrical coordinates. Journal of Optics (United Kingdom), 2012, 14, 035102.	2.2	0
63	Efficiency Enhancement of Wireless Power Transfer Localization using Defected Metasurface. , 2021, , .		0
64	Finite-Difference Time-Domain Modeling of Electromagnetic Cloaks. , 2010, , 115-153.		0