

# Hoi-Shun Lui

## List of Publications by Year in descending order

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69  
papers

594  
citations

759233

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677142

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g-index

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all docs

69  
docs citations

69  
times ranked

443  
citing authors

#	ARTICLE	IF	CITATIONS
1	Resonance-based Radar Target Classification using the Matrix Pencil Method and the Cauchy Method. , 2021, , .		4
2	Characterization of Rectangular Plates using Complex Natural Resonance. , 2021, , .		2
3	On the matching medium for microwave stroke diagnosis. Biomedical Physics and Engineering Express, 2019, 5, 045020.	1.2	2
4	On the matching medium for microwave-based medical diagnosis. Biomedical Physics and Engineering Express, 2018, 4, 035015.	1.2	1
5	Terahertz radar cross-section characterisation using laser feedback interferometry with quantum cascade laser. Electronics Letters, 2015, 51, 1774-1776.	1.0	12
6	Direction-of-Arrival Estimation: Measurement using compact antenna arrays under the influence of mutual coupling. IEEE Antennas and Propagation Magazine, 2015, 57, 62-68.	1.4	12
7	Characterization of Radar Target Using Multiple Ultra Wideband Transient Responses. IEEE Antennas and Wireless Propagation Letters, 2015, 14, 1750-1753.	4.0	5
8	Mutual Coupling in Antenna Arrays 2013. International Journal of Antennas and Propagation, 2014, 2014, 1-2.	1.2	0
9	Late-Time Estimation for Resonance-Based Radar Target Identification. IEEE Transactions on Antennas and Propagation, 2014, 62, 5865-5871.	5.1	20
10	Ultra wideband radar target recognition using multiple transient responses. , 2014, , .		0
11	Mutual coupling compensation for direction finding using receiving mutual impedance. , 2014, , .		2
12	Terahertz inverse synthetic aperture radar imaging using self-mixing interferometry with a quantum cascade laser. Optics Letters, 2014, 39, 2629.	3.3	36
13	Radar waypoint navigator for underground mining. , 2014, , .		4
14	On the use of different polarization measurements in microwave imaging of breast cancer tumors. , 2014, , .		1
15	Late-time resonance window estimation in radar. , 2013, , .		3
16	Antenna configurations of microwave breast imaging. , 2013, , .		2
17	Direction-of-Arrival Estimation of Closely Spaced Emitters Using Compact Arrays. International Journal of Antennas and Propagation, 2013, 2013, 1-9.	1.2	4
18	On the Forward Scattering of Microwave Breast Imaging. International Journal of Biomedical Imaging, 2012, 2012, 1-15.	3.9	12

#	ARTICLE	IF	CITATIONS
19	Evolution of an UWB antenna for hyperthermia array applicator. , 2012, , .		6
20	Preliminary investigations of three-dimensional microwave tomography using different data sets. , 2012, , .		3
21	Investigation of brain tissue segmentation error and its effect on EEG source localization. , 2012, 2012, 1522-5.		3
22	Microwave imaging of near-field object using ultra-wideband synthetic aperture radar algorithm. , 2012, , .		5
23	Several new ultra-wideband antenna systems for radio telescopes and industry sensor imaging process. , 2012, , .		0
24	Joint Time-Frequency Analysis of Transient Electromagnetic Scattering from a Subsurface Target. IEEE Antennas and Propagation Magazine, 2012, 54, 109-130.	1.4	7
25	Resonance Based Target Recognition Using Ultrawideband Polarimetric Signatures. IEEE Transactions on Antennas and Propagation, 2012, 60, 3985-3988.	5.1	19
26	Mutual Coupling in Antenna Arrays 2011. International Journal of Antennas and Propagation, 2012, 1-2.	1.2	0
27	Source Modeling Using Phaseless Low-Frequency Near-Field Measurements. IEEE Transactions on Electromagnetic Compatibility, 2012, 54, 613-624.	2.2	10
28	Improved DOA Estimations Using the Receiving Mutual Impedances for Mutual Coupling Compensation: An Experimental Study. IEEE Transactions on Wireless Communications, 2011, 10, 2228-2233.	9.2	42
29	COMPARISON BETWEEN TWO PHASE-RETRIEVAL METHODS FOR ELECTROMAGNETIC SOURCE MODELING. Progress in Electromagnetics Research B, 2011, 30, 239-253.	1.0	5
30	Electromagnetic source modeling using phase retrieval methods. , 2011, , .		1
31	Characterization of radar targets based on ultra wideband polarimetric transient signatures. , 2011, , .		2
32	Improved mutual coupling compensation in compact antenna arrays. IET Microwaves, Antennas and Propagation, 2010, 4, 1506.	1.4	25
33	Mutual Coupling Compensation for Direction-of-Arrival Estimations Using the Receiving-Mutual-Impedance Method. International Journal of Antennas and Propagation, 2010, 2010, 1-7.	1.2	39
34	Mutual Coupling in Antenna Arrays. International Journal of Antennas and Propagation, 2010, 2010, 1-2.	1.2	15
35	PERFORMANCE EVALUATION OF PHASE-ANGLE GRADIENT METHOD FOR PHASE RETRIEVAL BASED ON LOW-FREQUENCY AMPLITUDE-ONLY NEAR-FIELD DATA. Progress in Electromagnetics Research B, 2010, 25, 113-130.	1.0	4
36	On the modelling of transient scattering under ultra wideband short-pulse electromagnetic excitation. , 2010, , .		1

#	ARTICLE	IF	CITATIONS
37	Effective Mutual Coupling Compensation for Direction-of-Arrival Estimations using a New, Accurate Determination Method for the Receiving Mutual Impedance. Journal of Electromagnetic Waves and Applications, 2010, 24, 271-281.	1.6	27
38	Development of patient-specific breast electromagnetic model based on clinical magnetic resonance images. , 2010, , .		0
39	A Novel, Fast, Approximate Target Detection Technique for Metallic Target Below a Frequency Dependant Lossy Halfspace. IEEE Transactions on Antennas and Propagation, 2010, 58, 1699-1710.	5.1	12
40	Experimental study of mutual coupling compensation in direction finding using a compact antenna array. , 2010, , .		2
41	Mutual coupling compensation of compact antenna array for direction-of-arrivals estimations. , 2010, , .		6
42	Effect of mutual coupling on the performance of Direction-of-arrival estimation of compact array. , 2010, , .		0
43	Experimental study of DOA estimation using a compact monopole array. , 2010, , .		0
44	An efficient algorithm for non-rigid image registration. , 2010, , .		0
45	Performance evaluation of subsurface target recognition based on ultrawideband short-pulse excitation. , 2010, , .		0
46	Subsurface Target Recognition Based on Transient Electromagnetic Scattering. IEEE Transactions on Antennas and Propagation, 2009, 57, 3398-3401.	5.1	18
47	Subsurface target recognition using an approximated method. , 2009, , .		2
48	Characteristic Polarization States in an Ultrawideband Context Based on the Singularity Expansion Method. IEEE Geoscience and Remote Sensing Letters, 2009, 6, 792-796.	3.1	9
49	A Note on the Mutual-Coupling Problems in Transmitting and Receiving Antenna Arrays. IEEE Antennas and Propagation Magazine, 2009, 51, 171-176.	1.4	106
50	Performance evaluation of phase retrieval method based on amplitude-only near-field data. , 2009, , .		2
51	Sampling Procedures for Resonance Based Radar Target Identification. IEEE Transactions on Antennas and Propagation, 2008, 56, 1487-1491.	5.1	13
52	A radar target signature based on resonance and dual polarization features. , 2008, , .		2
53	A new calculation method of the receiving mutual impedance for linear antenna array. , 2008, , .		0
54	Investigation of direction-of-arrival estimation using uniform linear arrays with different antenna separations and array apertures. , 2008, , .		1

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55	On the realization of the optimum transmission strategy in MIMO systems. , 2008, , .		0
56	Evolutions of Partial and Global Resonances in Transient Electromagnetic Scattering. IEEE Antennas and Wireless Propagation Letters, 2008, 7, 436-439.	4.0	12
57	Performance analysis on subsurface target depth detection using the E-Pulse Technique. , 2007, , .		0
58	On the analysis of electromagnetic transients from radar targets using smooth pseudo wigner-ville distribution (SPWVD). , 2007, , .		4
59	Polarization studies in the UWB radar target response using joint Time-Frequency analysis. , 2007, , .		1
60	Detection of Depth Changes of a Metallic Target Buried in a Frequency-Dependent Lossy Halfspace Using the E-Pulse Technique. IEEE Transactions on Electromagnetic Compatibility, 2007, 49, 868-875.	2.2	11
61	Time-frequency analysis of late time electromagnetic transients from radar targets. , 2007, , .		0
62	Radar Target Identification Using a "Banded" E-pulse Technique. IEEE Transactions on Antennas and Propagation, 2006, 54, 3874-3881.	5.1	31
63	Resonance behavior of a dielectric target in a half-space using the CNR (complex natural resonance) method. , 2006, , .		3
64	Resonance Based Radar Target Identification with Multiple Polarizations. , 2006, , .		6
65	Preliminary investigation of breast tumor detection using the E-Pulse technique. , 2006, , .		2
66	Detection of Small Changes in a Hip Prosthesis using the E-Pulse Technique. , 2006, , .		1
67	Hip Prosthesis Detection based on Complex Natural Resonances. , 2005, 2005, 1571-4.		0
68	Consequence of incorrect sampling procedures in resonance-based radar target identification. Electronics Letters, 2004, 40, 507.	1.0	10
69	Ultra Wideband Transient Scattering and Its Applications to Automated Target Recognition. , 0, , .		4