Shyh-Kang Jeng

List of Publications by Year
in descending order

105	2,465	361413	254184
papers	citations	20	43
		h-index	g-index

105	105	105	2075
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	EEG-Based Emotion Recognition in Music Listening. IEEE Transactions on Biomedical Engineering, 2010, 57, 1798-1806.	4.2	753
2	Planar miniature tapered-slot-fed annular slot antennas for ultrawide-band radios. IEEE Transactions on Antennas and Propagation, 2005, 53, 1194-1202.	5.1	187
3	An SBR/image approach for radio wave propagation in indoor environments with metallic furniture. IEEE Transactions on Antennas and Propagation, 1997, 45, 98-106.	5.1	133
4	SBR image approach for radio wave propagation in tunnels with and without traffic. IEEE Transactions on Vehicular Technology, 1996, 45, 570-578.	6.3	126
5	EEG-based emotion recognition in music listening: A comparison of schemes for multiclass support vector machine. , 2009, , .		101
6	Compact Switched-Beam Antenna Employing a Four-Element Slot Antenna Array for Digital Home Applications. IEEE Transactions on Antennas and Propagation, 2008, 56, 2929-2936.	5.1	93
7	A printed dipole antenna with tapered slot feed for ultrawide-band applications. IEEE Transactions on Antennas and Propagation, 2005, 53, 3833-3836.	5.1	78
8	Design of Matching Circuits for Microstrip Triplexers Based on Stepped-Impedance Resonators. IEEE Transactions on Microwave Theory and Techniques, 2006, 54, 4185-4192.	4.6	72
9	Compact microstrip dual-band bandpass filters design using genetic-algorithm techniques. IEEE Transactions on Microwave Theory and Techniques, 2006, 54, 160-168.	4.6	68
10	Support vector machine for EEG signal classification during listening to emotional music. , 2008, , .		57
11	Scattering from a cavity-backed slit in a ground plant-TE case. IEEE Transactions on Antennas and Propagation, 1990, 38, 1523-1529.	5.1	48
12	Near-field scattering by physical theory of diffraction and shooting and bouncing rays. IEEE Transactions on Antennas and Propagation, 1998, 46, 551-558.	5.1	45
13	Center Frequency and Bandwidth Controllable Microstrip Bandpass Filter Design Using Loop-Shaped Dual-Mode Resonator. IEEE Transactions on Microwave Theory and Techniques, 2013, 61, 3590-3600.	4.6	45
14	Modeling the Affective Content of Music with a Gaussian Mixture Model. IEEE Transactions on Affective Computing, 2015, 6, 56-68.	8.3	41
15	Emotion-Based Music Visualization Using Photos. , 2008, , 358-368.		35
16	A Reconfigurable Bandpass Filter Based on a Varactor-Perturbed, T-Shaped Dual-Mode Resonator. IEEE Microwave and Wireless Components Letters, 2014, 24, 297-299.	3.2	34
17	On variational electromagnetics: Theory and application. IEEE Transactions on Antennas and Propagation, 1984, 32, 902-907.	0.8	33
18	An Analytical Expression for 3-D Dyadic FDTD-Compatible Green's Function in Infinite Free Space via z-Transform and Partial Difference Operators. IEEE Transactions on Antennas and Propagation, 2011, 59, 1347-1355.	5.1	30

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19	A microstrip three-port and four-channel multiplexer for WLAN and UWB coexistence. IEEE Transactions on Microwave Theory and Techniques, 2005, 53, 3244-3250.	4.6	26
20	Multilayer perceptron for EEG signal classification during listening to emotional music. , 2007, , .		25
21	Scattering from a cavity-backed slit in a ground plane-TM case. IEEE Transactions on Antennas and Propagation, 1991, 39, 661-663.	5.1	23
22	K-band MMIC active band-pass filters. IEEE Microwave and Wireless Components Letters, 2005, 15, 19-21.	3.2	23
23	Frequency-dependent characteristics of open microstrip lines with finite strip thickness. IEEE Transactions on Microwave Theory and Techniques, 1989, 37, 793-795.	4.6	22
24	Reflection and transmission characteristics of lossy periodic composite structures. IEEE Transactions on Antennas and Propagation, 1996, 44, 580-587.	5.1	22
25	Reconfigurable Bandpass Filter With Separately Relocatable Passband Edge. IEEE Microwave and Wireless Components Letters, 2012, 22, 559-561.	3.2	21
26	Probabilistic Estimation of a Novel Music Emotion Model. , 2008, , 487-497.		18
27	Reflection and transmission characteristics of single-layer periodic composite structures for TE case. IEEE Transactions on Antennas and Propagation, 1997, 45, 1065-1070.	5.1	16
28	A novel propagation modeling for microcellular communications in urban environments. IEEE Transactions on Vehicular Technology, 1997, 46, 1021-1026.	6.3	15
29	Augmented 3-D Keyframe Extraction for Surveillance Videos. IEEE Transactions on Circuits and Systems for Video Technology, 2010, 20, 1395-1408.	8.3	15
30	Quantitative spectral/spatial analysis of phased array coil in magnetic resonance imaging based on method of moment. IEEE Transactions on Medical Imaging, 1999, 18, 1129-1137.	8.9	13
31	Variational finite element solution of electromagnetic wave propagation in a one-dimensional inhomogeneous anisotropic medium. Journal of Applied Physics, 1984, 55, 630-636.	2.5	12
32	A compact RCS formula for a dihedral corner reflector at arbitrary aspect angles. IEEE Transactions on Antennas and Propagation, 1998, 46, 1112-1113.	5.1	12
33	Quantitative analysis of magnetic resonance radio-frequency coils based on method of moments. IEEE Transactions on Magnetics, 1999, 35, 2118-2127.	2.1	12
34	A Minimum Arclength Method for Removing Spikes in Empirical Mode Decomposition. IEEE Access, 2019, 7, 13284-13294.	4.2	12
35	Slot Antennas With an Extended Ground for Multiple-Antenna Systems in Compact Wireless Devices. IEEE Antennas and Wireless Propagation Letters, 2009, 8, 19-22.	4.0	11
36	Augmented keyframe. Journal of Visual Communication and Image Representation, 2010, 21, 682-692.	2.8	11

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37	Speaker verification using kernel-based binary classifiers with binary operation derived features. , 2014, , .		11
38	Mining location-based social networks for criminal activity prediction. , 2015, , .		11
39	Alignment of Lyrics With Accompanied Singing Audio Based on Acoustic-Phonetic Vowel Likelihood Modeling. IEEE/ACM Transactions on Audio Speech and Language Processing, 2016, 24, 1998-2008.	5.8	9
40	A deterministic method for generating a scattering-center model to reconstruct the RCS pattern of complex radar targets. IEEE Transactions on Electromagnetic Compatibility, 1997, 39, 315-323.	2.2	8
41	Subspace-Based Representation and Learning for Phonotactic Spoken Language Recognition. IEEE/ACM Transactions on Audio Speech and Language Processing, 2020, 28, 3065-3079.	5.8	8
42	Discrete-time electromagnetic theory. , 0, , .		7
43	A compact pattern reconfigurable antenna design for handheld wireless devices. , 2007, , .		7
44	Playing with tagging: A real-time tagging music player. , 2012, , .		7
45	Discriminative autoencoders for speaker verification. , 2017, , .		7
46	Weakly-Supervised Visual Instrument-Playing Action Detection in Videos. IEEE Transactions on Multimedia, 2019, 21, 887-901.	7.2	7
47	An improved occlusion handling for appearance-based tracking. , 2011, , .		6
48	Multi-timbre chord classification using wavelet transform and self-organized map neural networks. , 0, , .		5
49	Coplanar waveguide-fed dual exponentially tapered slot antennas for ultra-wideband applications. , 2004, , .		5
50	Design of an ultra-wideband waveform shaping network using an analog microwave differentiator array fed by a Gaussian pulse signal. , 2006, , .		5
51	Beam Configuration and Client Association for Access Points with Switched Beam Antennas. IEEE Transactions on Mobile Computing, 2016, 15, 2179-2192.	5.8	5
52	Generation of point scatterer models using PTD/SBR technique. , 0, , .		4
53	An automatic transcription system with octave detection. , 2002, , .		4
54	A novel compact ultra-wideband printed dipole antenna with tapered slot feed. , 0, , .		4

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55	An Acoustic-Phonetic Model of F0 Likelihood for Vocal Melody Extraction. IEEE/ACM Transactions on Audio Speech and Language Processing, 2015, 23, 1457-1468.	5.8	4
56	End-to-End Key-Player-Based Group Activity Recognition Network Applied to Basketball Offensive Tactic Identification in Limited Data Scenarios. IEEE Access, 2021, 9, 104395-104404.	4.2	4
57	Time domain electromagnetic field computation with a semi-discrete scheme as an alternative to implicit FDTD methods. , 0, , .		3
58	Propagation of Waves through Magnetoplasrna Slab Within a Parallel-Plate Guide. IEEE Transactions on Microwave Theory and Techniques, 1986, 34, 32-37.	4.6	3
59	Combination of PO/SBR and the finite element method for scattering from a large PEC target with a small cavity. , 0, , .		3
60	A compact tapered-slot-feed annular slot antenna for ultra-wideband applications. , 2004, , .		3
61	Interactive content presentation based on expressed emotion and physiological feedback. , 2008, , .		3
62	A Study of Comfort Measuring System Using Taxi Trajectories. , 2011, , .		3
63	Action recognition using instance-specific and class-consistent cues. , 2012, , .		3
64	Human body pose recognition from a single-view depth camera. , 2012, , .		3
65	Waves obliquely incident upon a stratified anisotropic slab: A variational reaction approach. Radio Science, 1986, 21, 681-688.	1.6	2
66	Thin-film boundary conditions. Microwave and Optical Technology Letters, 1992, 5, 682-685.	1.4	2
67	EM analysis of a conducting scatterer in optic dielectric waveguide. Journal of Lightwave Technology, 1998, 16, 1107-1112.	4.6	2
68	Staircase approximation for transients of multisection dispersive transmission lines with nonlinear loads. , 0, , .		2
69	A multilevel subgridding scheme for two-dimensional finite-difference time-domain method. , 0, , .		2
70	An RFID Antenna design for multi-layered printed circuit board applications. , 2007, , .		2
71	An analytical expression for 2-D FDTD-compatible Green's function in infinite free space via z-transform and partial difference operators. , 2010, , .		2
72	A social network evolution model based on seniority. Social Network Analysis and Mining, 2012, 2, 107-119.	2.8	2

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73	Subspace-based phonotactic language recognition using multivariate dynamic linear models. , 2013, , .		2
74	Near-field scattering by physical theory of diffraction and shooting and bouncing rays. , 0, , .		1
75	Design of a Legendre-Polynomial-Based Orthogonal Pulse Generator for Ultra-Wideband Communications. , 0, , .		1
76	A Semi-discrete Scheme for Computing Two-Dimensional Electromagnetic Field in Time Domain. , 2006, , .		1
77	A miniature, planar, and switched-beam smart antenna employing a four- element slot antenna array for Digital Home applications. , 2007, , .		1
78	Window Design for SISO and MIMO OFDM Systems. , 2009, , .		1
79	Automatic Transcription for Music with Two Timbres from Monaural Sound Source. , 2010, , .		1
80	A single-feed switchable wide-band circular polarization E-shaped patch antenna. , 2013, , .		1
81	Development of A Small-Scale Office Grid Computing System For Electromagnetic Optimization Designs. , 0, , .		0
82	Application of variational electromagnetics to problems of wave propagation in an anisotropic stratified slab. , 0, , .		0
83	Radiation from an open parallel-plate waveguide with a matching zone. , 1990, , .		0
84	All SBR/image approach to indoor radio propagation modeling. , 0, , .		0
85	A propagation modeling for microcellular communications in urban environments with vehicles and trees. , 0, , .		0
86	Time-dispersion simulation for microcellular systems in urban environments. , 0, , .		0
87	Minimum and maximum time-localized complex-valued wavelets for scattering problems. , 0, , .		0
88	Correction to "Quantitative analysis of magnetic resonance radio-frequency coils based on method of moment". IEEE Transactions on Magnetics, 2000, 36, 410-410.	2.1	0
89	Transient analysis of dispersive transmission lines with nonlinear loads using staircase approximation. , 0, , .		0
90	Staircase-approximation time-domain method for transient analysis of lossy nonuniform transmission lines using ABCD matrices. , 0, , .		0

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91	A staircase-approximation time-domain matrix integral equation approach to the computation of one-dimensional transient propagation through an inhomogeneous slab. , 0, , .		0
92	A discrete-time solution to wave propagation in time-varying media. , 2004, , .		0
93	A tapered-slot-feed loop antenna for ultra-wideband applications. , 0, , .		0
94	Design of a multifunctional and cost-effective wideband planar antenna array system for multiple wireless applications. , 2006, , .		0
95	Inductance Extraction for General Interconnect Structures. , 0, , .		0
96	An analytic expression for 1-D reflections from boundaries of Yee/Semi-discrete, Yee/ADI, and Yee/CN meshes in free space. , 2007, , .		0
97	A fingerprint matching algorithm based on alignment using LPD and GCD minutia descriptors. , 2007, , .		0
98	Virtual Conduction System with Multi-Resolution Wall Display. , 2007, , .		0
99	Compact pattern reconfigurable antenna array based on L-Shaped Slots and PIN diodes for adaptive MIMO systems. , 2008, , .		0
100	Digital spectral domain analysis of the errors in one-dimensional Yee/semi-discrete and Yee/ADI hybrid griddings. , 2008, , .		0
101	An analytical solution to Yee's FDTD partial difference equations for a one-dimensional cavity problem via z-transform. Digest / IEEE Antennas and Propagation Society International Symposium, 2009, , .	0.0	0
102	A novel substrate-embedded defected ground structure for differential-mode filter applications. , 2012, , .		0
103	An analytical expression for FDTD solution to the problem of TM oblique incidence on a dielectric thin film. , 2012, , .		0
104	An automatic transcription system with octave detection. , 2002, , .		0
105	A periodic surface integral formulation for single-layer composite structures (TE case). , 0, , .		0