

Alanson P Sample

List of Publications by Year in descending order

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69
papers

4,533
citations

687220

13
h-index

839398

18
g-index

70
all docs

70
docs citations

70
times ranked

3385
citing authors

#	ARTICLE	IF	CITATIONS
1	Analysis, Experimental Results, and Range Adaptation of Magnetically Coupled Resonators for Wireless Power Transfer. IEEE Transactions on Industrial Electronics, 2011, 58, 544-554.	5.2	1,470
2	Design of an RFID-Based Battery-Free Programmable Sensing Platform. IEEE Transactions on Instrumentation and Measurement, 2008, 57, 2608-2615.	2.4	709
3	Experimental results with two wireless power transfer systems. , 2009, , .		177
4	Design of a Passively-Powered, Programmable Sensing Platform for UHF RFID Systems. , 2007, , .		166
5	Enabling Seamless Wireless Power Delivery in Dynamic Environments. Proceedings of the IEEE, 2013, 101, 1343-1358.	16.4	155
6	Force Jacket. , 2018, , .		114
7	IDSense. , 2015, , .		109
8	Evaluation of Wireless Resonant Power Transfer Systems With Human Electromagnetic Exposure Limits. IEEE Transactions on Electromagnetic Compatibility, 2012, , 1-10.	1.4	101
9	Three-Dimensional Charging via Multimode Resonant Cavity Enabled Wireless Power Transfer. IEEE Transactions on Power Electronics, 2015, 30, 6163-6173.	5.4	91
10	EM-Sense. , 2015, , .		85
11	PaperID. , 2016, , .		79
12	RFID: From Supply Chains to Sensor Nets. Proceedings of the IEEE, 2010, 98, 1583-1592.	16.4	72
13	Wall++. , 2018, , .		70
14	RFID sensor networks with the Intel WISP. , 2008, , .		64
15	Photovoltaic enhanced UHF RFID tag antennas for dual purpose energy harvesting. , 2011, , .		56
16	Sensor enabled wearable RFID technology for mitigating the risk of falls near beds. , 2013, , .		56
17	Resonant cavity mode enabled wireless power transfer. Applied Physics Letters, 2014, 105, .	1.5	55
18	A capacitive touch interface for passive RFID tags. , 2009, , .		49

#	ARTICLE	IF	CITATIONS
19	RapID. , 2016, , .		44
20	Quasistatic Cavity Resonance for Ubiquitous Wireless Power Transfer. PLoS ONE, 2017, 12, e0169045.	1.1	43
21	Riding the airways: Ultra-wideband ambient backscatter via commercial broadcast systems. , 2017, , .		40
22	NFC-WISP: A sensing and computationally enhanced near-field RFID platform. , 2015, , .		37
23	A wireless sensing platform utilizing ambient RF energy. , 2013, , .		35
24	ID-Match. , 2016, , .		33
25	A wireless sensing platform utilizing ambient RF energy. , 2013, , .		32
26	EM-ID: Tag-less identification of electrical devices via electromagnetic emissions. , 2016, , .		28
27	RFID Light Bulb. , 2017, 1, 1-16.		28
28	An Energy-interference-free Hardware-Software Debugger for Intermittent Energy-harvesting Systems. , 2016, , .		27
29	Room-Wide Wireless Charging and Load-Modulation Communication via Quasistatic Cavity Resonance. , 2018, 2, 1-23.		24
30	Room-scale magnetoquasistatic wireless power transfer using a cavity-based multimode resonator. Nature Electronics, 2021, 4, 689-697.	13.1	24
31	Multimode Quasistatic Cavity Resonators for Wireless Power Transfer. IEEE Antennas and Wireless Propagation Letters, 2017, 16, 2746-2749.	2.4	23
32	Optical localization of passive UHF RFID tags with integrated LEDs. , 2012, , .		21
33	Wirelessly powered bistable display tags. , 2013, , .		21
34	Towards falls prevention: A wearable wireless and battery-less sensing and automatic identification tag for real time monitoring of human movements. , 2012, 2012, 6402-5.		20
35	PrivacyMic: Utilizing Inaudible Frequencies for Privacy Preserving Daily Activity Recognition. , 2021, , .		19
36	Wireless Ambient Radio Power. , 2013, , 223-234.		19

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37	Self-localizing battery-free cameras. , 2015, , .		17
38	A wireless sensing platform utilizing ambient RF energy. , 2013, , .		16
39	Electrical power to run ventricular assist devices using the Free-range Resonant Electrical Energy Delivery system. Journal of Heart and Lung Transplantation, 2018, 37, 1467-1474.	0.3	16
40	Enabling Interactive Infrastructure with Body Channel Communication. , 2018, 1, 1-29.		15
41	EM-Comm. , 2017, 1, 1-24.		14
42	An Energy-Aware Debugger for Intermittently Powered Systems. IEEE Micro, 2017, 37, 116-125.	1.8	14
43	Toward Total Implantability Using Free-Range Resonant Electrical Energy Delivery System: Achieving Untethered Ventricular Assist Device Operation Over Large Distances. Cardiology Clinics, 2011, 29, 609-625.	0.9	12
44	Designing Groundless Body Channel Communication Systems. , 2018, , .		11
45	The Wireless Identification and Sensing Platform. , 2013, , 33-56.		11
46	IDAct: Towards Unobtrusive Recognition of User Presence and Daily Activities. , 2019, , .		10
47	WINDWare: Supporting ubiquitous computing with passive sensor enabled RFID. , 2014, , .		9
48	NFC-WISP. , 2015, , .		9
49	Electromagnetic time reversal focusing of near field waves in metamaterials. Applied Physics Letters, 2016, 109, 263901.	1.5	8
50	An Energy-interference-free Hardware-Software Debugger for Intermittent Energy-harvesting Systems. Computer Architecture News, 2016, 44, 577-589.	2.5	8
51	High-Q, over-coupled tuning for near-field RFID systems. , 2016, , .		7
52	Super Low Resolution RF Powered Accelerometers for Alerting on Hospitalized Patient Bed Exits. , 2019, , .		7
53	A wireless sensing platform utilizing ambient RF energy. , 2013, , .		6
54	IDCam: Precise Item Identification for AR Enhanced Object Interactions. , 2019, , .		6

#	ARTICLE	IF	CITATIONS
55	Medication Adherence and Liquid Level Tracking System for Healthcare Provider Feedback. Sensors, 2020, 20, 2435.	2.1	6
56	Playful Interactions with Body Channel Communication. , 2017, , .		4
57	A Portable Transmitter for Wirelessly Powering a Ventricular Assist Device Using the Free-Range Resonant Electrical Energy Delivery (FREE-D) System. , 2013, , 235-247.		4
58	Electric field coupling to short dipole receivers in cavity mode enabled wireless power transfer. , 2015, , .		3
59	3-D Wireless Charging for Indoor Electronics Using Multimode Quasistatic Cavity Resonators. , 2018, , .		3
60	Wisecr: Secure Simultaneous Code Dissemination to Many Batteryless Computational RFID Devices. IEEE Transactions on Dependable and Secure Computing, 2022, , 1-1.	3.7	2
61	Energy-interference-free system and toolchain support for energy-harvesting devices. , 2015, , .		1
62	Circuit model for resonant cavity mode enabled wireless power transfer. , 2016, , .		1
63	Powering a Ventricular Assist Device over Meter Distances Wirelessly: The Free-Range Resonant Electrical Energy Delivery (FREE-D) System. Journal of Cardiac Failure, 2011, 17, S42-S43.	0.7	0
64	A wireless sensing platform utilizing ambient RF energy. , 2013, , .		0
65	An Energy-interference-free Hardware/Software Debugger for Intermittent Energy-harvesting Systems. IEEE Micro, 2017, , 1-1.	1.8	0
66	Real-Time Capture of Holistic Tangible Interactions. , 2021, , .		0
67	Wisp. , 2008, , .		0
68	Building a toolkit for fabricating interactive objects. Xrds, 2016, 22, 38-43.	0.2	0
69	Geometry-Based Circuit Modeling of Quasi-Static Cavity Resonators for Wireless Power Transfer. IEEE Open Journal of Power Electronics, 2022, 3, 382-390.	4.0	0