Alanson P Sample

List of Publications by Year
in descending order

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		686830	839053
69	4,533	13	18
papers	citations	h-index	g-index

70	70	70	3385
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Wisecr: Secure Simultaneous Code Dissemination to Many Batteryless Computational RFID Devices. IEEE Transactions on Dependable and Secure Computing, 2022, , 1-1.	3.7	2
2	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
3	Real-Time Capture of Holistic Tangible Interactions. , 2021, , .		0
4	PrivacyMic: Utilizing Inaudible Frequencies for Privacy Preserving Daily Activity Recognition. , 2021, , .		19
5	Room-scale magnetoquasistatic wireless power transfer using a cavity-based multimode resonator. Nature Electronics, 2021, 4, 689-697.	13.1	24
6	Medication Adherence and Liquid Level Tracking System for Healthcare Provider Feedback. Sensors, 2020, 20, 2435.	2.1	6
7	Super Low Resolution RF Powered Accelerometers for Alerting on Hospitalized Patient Bed Exits. , 2019, , .		7
8	IDCam: Precise Item Identification for AR Enhanced Object Interactions. , 2019, , .		6
9	IDAct: Towards Unobtrusive Recognition of User Presence and Daily Activities. , 2019, , .		10
10	Wall++. , 2018, , .		70
11	Enabling Interactive Infrastructure with Body Channel Communication. , 2018, 1, 1-29.		15
12	3-D Wireless Charging for Indoor Electronics Using Multimode Quasistatic Cavity Resonators. , 2018, , .		3
13	Room-Wide Wireless Charging and Load-Modulation Communication via Quasistatic Cavity Resonance. , 2018, 2, 1-23.		24
14	Designing Groundless Body Channel Communication Systems. , 2018, , .		11
15	Force Jacket. , 2018, , .		114
16	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
17	Multimode Quasistatic Cavity Resonators for Wireless Power Transfer. IEEE Antennas and Wireless Propagation Letters, 2017, 16, 2746-2749.	2.4	23
18	EM-Comm. , 2017, 1, 1-24.		14

#	Article	IF	Citations
19	An Energy-Aware Debugger for Intermittently Powered Systems. IEEE Micro, 2017, 37, 116-125.	1.8	14
20	An Energy-interference-free Hardware/Software Debugger for Intermittent Energy-harvesting Systems. IEEE Micro, 2017, , 1-1.	1.8	0
21	RFID Light Bulb. , 2017, 1, 1-16.		28
22	Playful Interactions with Body Channel Communication. , 2017, , .		4
23	Riding the airways: Ultra-wideband ambient backscatter via commercial broadcast systems. , 2017, , .		40
24	Quasistatic Cavity Resonance for Ubiquitous Wireless Power Transfer. PLoS ONE, 2017, 12, e0169045.	1.1	43
25	EM-ID: Tag-less identification of electrical devices via electromagnetic emissions. , 2016, , .		28
26	High-Q, over-coupled tuning for near-field RFID systems. , 2016, , .		7
27	Electromagnetic time reversal focusing of near field waves in metamaterials. Applied Physics Letters, 2016, 109, 263901.	1.5	8
28	Circuit model for resonant cavity mode enabled wireless power transfer. , 2016, , .		1
29	PaperID. , 2016, , .		79
30	ID-Match. , 2016, , .		33
31	RapID. , 2016, , .		44
32	An Energy-interference-free Hardware-Software Debugger for Intermittent Energy-harvesting Systems. , 2016, , .		27
33	An Energy-interference-free Hardware-Software Debugger for Intermittent Energy-harvesting Systems. Computer Architecture News, 2016, 44, 577-589.	2.5	8
34	Building a toolkit for fabricating interactive objects. Xrds, 2016, 22, 38-43.	0.2	0
35	Self-localizing battery-free cameras. , 2015, , .		17
36	NFC-WISP: A sensing and computationally enhanced near-field RFID platform. , 2015, , .		37

#	Article	IF	Citations
37	Three-Dimensional Charging via Multimode Resonant Cavity Enabled Wireless Power Transfer. IEEE Transactions on Power Electronics, 2015, 30, 6163-6173.	5.4	91
38	Electric field coupling to short dipole receivers in cavity mode enabled wireless power transfer. , 2015, , .		3
39	Energy-interference-free system and toolchain support for energy-harvesting devices. , 2015, , .		1
40	NFC-WISP. , 2015, , .		9
41	IDSense. , 2015, , .		109
42	EM-Sense. , 2015, , .		85
43	Resonant cavity mode enabled wireless power transfer. Applied Physics Letters, 2014, 105, .	1.5	55
44	WINDWare: Supporting ubiquitous computing with passive sensor enabled RFID. , 2014, , .		9
45	A wireless sensing platform utilizing ambient RF energy. , 2013, , .		0
46	A wireless sensing platform utilizing ambient RF energy. , 2013, , .		32
47	A wireless sensing platform utilizing ambient RF energy. , 2013, , .		6
48	Sensor enabled wearable RFID technology for mitigating the risk of falls near beds. , 2013, , .		56
49	A wireless sensing platform utilizing ambient RF energy. , 2013, , .		35
50	Enabling Seamless Wireless Power Delivery in Dynamic Environments. Proceedings of the IEEE, 2013, 101, 1343-1358.	16.4	155
51	A wireless sensing platform utilizing ambient RF energy. , 2013, , .		16
52	Wirelessly powered bistable display tags. , 2013, , .		21
53	Wireless Ambient Radio Power. , 2013, , 223-234.		19
54	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

#	Article	IF	Citations
55	The Wireless Identification and Sensing Platform. , 2013, , 33-56.		11
56	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
57	Optical localization of passive UHF RFID tags with integrated LEDs. , 2012, , .		21
58	Evaluation of Wireless Resonant Power Transfer Systems With Human Electromagnetic Exposure Limits. IEEE Transactions on Electromagnetic Compatibility, 2012, , 1-10.	1.4	101
59	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
60	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
61	Photovoltaic enhanced UHF RFID tag antennas for dual purpose energy harvesting. , 2011, , .		56
62	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
63	RFID: From Supply Chains to Sensor Nets. Proceedings of the IEEE, 2010, 98, 1583-1592.	16.4	72
64	Experimental results with two wireless power transfer systems. , 2009, , .		177
65	A capacitive touch interface for passive RFID tags. , 2009, , .		49
66	Design of an RFID-Based Battery-Free Programmable Sensing Platform. IEEE Transactions on Instrumentation and Measurement, 2008, 57, 2608-2615.	2.4	709
67	RFID sensor networks with the Intel WISP. , 2008, , .		64
68	Wisp. , 2008, , .		0
69	Design of a Passively-Powered, Programmable Sensing Platform for UHF RFID Systems. , 2007, , .		166