

# Alice Buffi

## List of Publications by Year in descending order

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Version: 2024-02-01

81  
papers

1,774  
citations

361413

20  
h-index

377865

34  
g-index

81  
all docs

81  
docs citations

81  
times ranked

1006  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Synthetic Aperture UHF RFID Localization Method by Phase Unwrapping and Hyperbolic Intersection. IEEE Transactions on Automation Science and Engineering, 2022, 19, 933-945.	5.2	24
2	An IoT-Aware Smart System Exploiting the Electromagnetic Behavior of UHF-RFID Tags to Improve Worker Safety in Outdoor Environments. Electronics (Switzerland), 2022, 11, 717.	3.1	14
3	A UHF-RFID Multi-Antenna Sensor Fusion Enables Item and Robot Localization. IEEE Journal of Radio Frequency Identification, 2022, 6, 456-466.	2.3	14
4	Characterization of lithium-batteries for high power applications. Journal of Energy Storage, 2022, 50, 104607.	8.1	9
5	Performance Assessment of a UHF-RFID Robotic Inventory System for Industry 4.0. , 2022, , .		1
6	UHF-RFID SAR robotic inventory and localization: handling systems vs. multi-antenna solutions. , 2022, , .		2
7	Artificial Intelligence enhances Smart RFID Portal for retail. , 2022, , .		2
8	Robot-Based Indoor Positioning of UHF-RFID Tags: The SAR Method With Multiple Trajectories. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-15.	4.7	59
9	Sensor-Fusion and Tracking Method for Indoor Vehicles With Low-Density UHF-RFID Tags. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-14.	4.7	41
10	Self-Locating RFID Robot for Tag Localization in Retail. , 2021, , .		2
11	Capacity Fade and Aging Effect on Lithium Battery Cells: A Real Case Vibration Test With UAV. IEEE Journal on Miniaturization for Air and Space Systems, 2021, 2, 76-83.	2.7	9
12	Temperature Effects and Damage Detection on CFRP through Electrical Impedance Spectroscopy. , 2021, , .		1
13	An Action Classification Method for Forklift Monitoring in Industry 4.0 Scenarios. Sensors, 2021, 21, 5183.	3.8	16
14	Robot Localisation Using UHF-RFID Tags: A Kalman Smoother Approach. Sensors, 2021, 21, 717.	3.8	15
15	A Survey on Indoor Vehicle Localization Through RFID Technology. IEEE Access, 2021, 9, 17921-17942.	4.2	97
16	An RFID-based Ranging System for Worker Safety in Agricultural Working Areas. , 2021, , .		7
17	RFID-Based Localization Enables a Smart System for Worker Safety. , 2021, , .		7
18	An RFID Tracking System for Agricultural Safety. , 2021, , .		7

#	ARTICLE	IF	CITATIONS
19	Past, Present and Future RFID Activities at the University of Pisa. , 2021, , .		0
20	Forklift Tracking: Industry 4.0 Implementation in Large-Scale Warehouses through UWB Sensor Fusion. Applied Sciences (Switzerland), 2021, 11, 10607.	2.5	17
21	The MONITOR Project: RFID-based Robots enabling real-time inventory and localization in warehouses and retail areas. , 2021, , .		4
22	RFID-Based Tracking for Worker Safety in Industrial Scenario. , 2021, , .		6
23	Ranging-Free UHF-RFID Robot Positioning Through Phase Measurements of Passive Tags. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 2408-2418.	4.7	48
24	Analysis of SoH for Lithium Battery Cells operating under Vibration Stress. , 2020, , .		1
25	Robot Localisation using UHF-RFID Tags for Industrial IoT Applications. , 2020, , .		5
26	Particle Swarm Optimization in SAR-Based Method Enabling Real-Time 3D Positioning of UHF-RFID Tags. IEEE Journal of Radio Frequency Identification, 2020, 4, 300-313.	2.3	45
27	SAR-based Localization of UHF-RFID Tags in Smart Warehouses. , 2020, , .		3
28	Robot Localization via Passive UHF-RFID Technology: State-of-the-Art and Challenges. , 2020, , .		7
29	A SAR-Based Measurement Method for Passive-Tag Positioning With a Flying UHF-RFID Reader. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 845-853.	4.7	73
30	A UHF-RFID Gate Control System Based on a Recurrent Neural Network. IEEE Antennas and Wireless Propagation Letters, 2019, 18, 2330-2334.	4.0	9
31	A Novel Phase-based Method for UHF-RFID Tag Localization via UAV. , 2019, , .		1
32	A UHF-RFID gate control system based on a Convolutional Neural Network. , 2019, , .		7
33	A Phase-based Method for UHF RFID Gate Access Control. , 2019, , .		9
34	A Phase-Based Method for Mobile Node Localization through UHF-RFID Passive Tags. , 2019, , .		14
35	RSSI Measurements for RFID Tag Classification in Smart Storage Systems. IEEE Transactions on Instrumentation and Measurement, 2018, 67, 894-904.	4.7	45
36	Numerical analysis of wireless power transfer in near-field UHF-RFID systems. Wireless Power Transfer, 2018, 5, 42-53.	1.1	3

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37	Measuring UHF-RFID Tag Position via Unmanned Aerial Vehicle in Outdoor Scenario. , 2018, , .		8
38	SAR-Based Indoor Localization of UHF-RFID Tags via Mobile Robot. , 2018, , .		49
39	Near-Field-Focused Microwave Antennas: Near-field shaping and implementation. IEEE Antennas and Propagation Magazine, 2017, 59, 42-53.	1.4	133
40	The SARFID Technique for Discriminating Tagged Items Moving Through a UHF-RFID Gate. IEEE Sensors Journal, 2017, 17, 2863-2870.	4.7	25
41	Numerical Investigation of an UWB Localization Technique for Unmanned Aerial Vehicles in Outdoor Scenarios. IEEE Sensors Journal, 2017, 17, 2896-2903.	4.7	55
42	Experimental Validation of a SAR-Based RFID Localization Technique Exploiting an Automated Handling System. IEEE Antennas and Wireless Propagation Letters, 2017, , 1-1.	4.0	38
43	Dome-Shaped Ellipsoidal Reflector Antenna for UHF-RFID Readers With Confined Near-Field Detection Region. IEEE Antennas and Wireless Propagation Letters, 2017, 16, 2505-2508.	4.0	2
44	The SARFID technique in handling systems applications. , 2017, , .		0
45	An RFID-based technique for train localization with passive tags. , 2017, , .		15
46	Measurement system with leaky coaxial cables operating as distributed antennas for UHF-RFID readers. , 2017, , .		4
47	Technologies for Near-Field Focused Microwave Antennas. International Journal of Antennas and Propagation, 2017, 2017, 1-17.	1.2	24
48	A multi-antenna phase-based localization technique for moving tags. , 2016, , .		1
49	A 2D localization technique for UHF-RFID smart bookshelves. , 2016, , .		3
50	Optimal antennas for RFID printer-encoders. , 2016, , .		0
51	Multifunctional modular antenna for near-field ultra-high frequency radio frequency identification readers. IET Microwaves, Antennas and Propagation, 2016, 10, 843-849.	1.4	13
52	Advanced SARFID: A localization technique for UHF RFID tags. , 2016, , .		6
53	SARFID: A phase-based localization technique for UHF RFID tags moving along arbitrary trajectories. , 2016, , .		0
54	Near-field focused antennas: from optics to microwaves. , 2016, , .		3

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55	A two-element modular antenna for near-field UHF RFID applications. , 2015, , .		4
56	Antennas for UHF-RFID printer-encoders. , 2015, , .		9
57	A scalable modular antenna configuration to extend the detection volume of a near-field UHF-RFID desktop reader. , 2015, , .		5
58	A Phase-Based Technique for Localization of UHF-RFID Tags Moving on a Conveyor Belt: Performance Analysis and Test-Case Measurements. IEEE Sensors Journal, 2015, 15, 387-396.	4.7	133
59	A modular antenna for UHF RFID near-field desktop reader. , 2014, , .		14
60	Modular antenna for reactive and radiative near-field regions of UHF-RFID desktop readers. , 2014, , .		14
61	A phase-based technique for discriminating tagged items moving through a UHF-RFID gate. , 2014, , .		6
62	On the differential feeding technique for circularly polarized resonant antennas. , 2014, , .		1
63	Meandered TWAs array for near-field UHF RFID applications. Electronics Letters, 2014, 50, 17-18.	1.0	40
64	Axial ratio analysis of single-feed circularly polarized resonant antennas. Journal of Electromagnetic Waves and Applications, 2014, 28, 716-728.	1.6	7
65	A localization technique for smart bookshelves based on UHF-RFID systems. , 2013, , .		8
66	Experimental validation of phase-based localization of UHF-RFID tags moving on a conveyor belt. , 2013, , .		3
67	An array of meander Travelling Wave Antennas for near-field UHF-RFID readers. , 2013, , .		8
68	RFID-Based Smart Shelving Storage Systems. , 2012, , .		9
69	Design and performance analysis of a planar antenna for near-field UHF-RFID desktop readers. , 2012, , .		32
70	An efficient technique for the analysis of unconventional periodic surfaces. , 2012, , .		0
71	Location and tracking of items moving on a conveyor belt and equipped with UHF-RFID tags. , 2012, , .		11
72	Design Criteria for Near-Field-Focused Planar Arrays. IEEE Antennas and Propagation Magazine, 2012, 54, 40-50.	1.4	140

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73	Dual-polarised slot-coupled patch antenna excited by a square ring slot. IET Microwaves, Antennas and Propagation, 2011, 5, 605.	1.4	20
74	An annular-slot coupling feeding technique for dual-feed circularly polarized patch arrays. , 2010, , .		2
75	Circularly polarized square ring slot patch antennas. , 2010, , .		0
76	Performance analysis of near-field focused planar arrays. , 2010, , .		1
77	Single-feed circularly polarised aperture-coupled square ring slot microstrip antenna. Electronics Letters, 2010, 46, 268.	1.0	20
78	A Focused Planar Microstrip Array for 2.4 GHz RFID Readers. IEEE Transactions on Antennas and Propagation, 2010, 58, 1536-1544.	5.1	184
79	A Novel Dual-Feed Slot-Coupling Feeding Technique for Circularly Polarized Patch Arrays. IEEE Antennas and Wireless Propagation Letters, 2010, 9, 183-186.	4.0	43
80	Near field focused microstrip arrays for gate access control systems. Digest / IEEE Antennas and Propagation Society International Symposium, 2009, , .	0.0	38
81	Accuracy limits of in-room localisation using RSSI. Digest / IEEE Antennas and Propagation Society International Symposium, 2009, , .	0.0	19