

# Alice Buffi

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3048184/publications.pdf>

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 Focused Planar Microstrip Array for 2.4 GHz RFID Readers. IEEE Transactions on Antennas and Propagation, 2010, 58, 1536-1544.	5.1	184
2	Design Criteria for Near-Field-Focused Planar Arrays. IEEE Antennas and Propagation Magazine, 2012, 54, 40-50.	1.4	140
3	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
4	Near-Field-Focused Microwave Antennas: Near-field shaping and implementation. IEEE Antennas and Propagation Magazine, 2017, 59, 42-53.	1.4	133
5	A Survey on Indoor Vehicle Localization Through RFID Technology. IEEE Access, 2021, 9, 17921-17942.	4.2	97
6	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
7	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
8	Numerical Investigation of an UWB Localization Technique for Unmanned Aerial Vehicles in Outdoor Scenarios. IEEE Sensors Journal, 2017, 17, 2896-2903.	4.7	55
9	SAR-Based Indoor Localization of UHF-RFID Tags via Mobile Robot. , 2018, , .		49
10	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
11	RSSI Measurements for RFID Tag Classification in Smart Storage Systems. IEEE Transactions on Instrumentation and Measurement, 2018, 67, 894-904.	4.7	45
12	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
13	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
14	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
15	Meandered TWAs array for near-field UHF RFID applications. Electronics Letters, 2014, 50, 17-18.	1.0	40
16	Near field focused microstrip arrays for gate access control systems. Digest / IEEE Antennas and Propagation Society International Symposium, 2009, , .	0.0	38
17	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
18	Design and performance analysis of a planar antenna for near-field UHF-RFID desktop readers. , 2012, , .		32

#	ARTICLE	IF	CITATIONS
19	The SARFID Technique for Discriminating Tagged Items Moving Through a UHF-RFID Gate. IEEE Sensors Journal, 2017, 17, 2863-2870.	4.7	25
20	Technologies for Near-Field Focused Microwave Antennas. International Journal of Antennas and Propagation, 2017, 2017, 1-17.	1.2	24
21	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
22	Single-feed circularly polarised aperture-coupled square ring slot microstrip antenna. Electronics Letters, 2010, 46, 268.	1.0	20
23	Dual-polarised slot-coupled patch antenna excited by a square ring slot. IET Microwaves, Antennas and Propagation, 2011, 5, 605.	1.4	20
24	Accuracy limits of in-room localisation using RSSI. Digest / IEEE Antennas and Propagation Society International Symposium, 2009, , .	0.0	19
25	Forklift Tracking: Industry 4.0 Implementation in Large-Scale Warehouses through UWB Sensor Fusion. Applied Sciences (Switzerland), 2021, 11, 10607.	2.5	17
26	An Action Classification Method for Forklift Monitoring in Industry 4.0 Scenarios. Sensors, 2021, 21, 5183.	3.8	16
27	An RFID-based technique for train localization with passive tags. , 2017, , .		15
28	Robot Localisation Using UHF-RFID Tags: A Kalman Smoother Approach â€. Sensors, 2021, 21, 717.	3.8	15
29	A modular antenna for UHF RFID near-field desktop reader. , 2014, , .		14
30	Modular antenna for reactive and radiative near-field regions of UHF-RFID desktop readers. , 2014, , .		14
31	A Phase-Based Method for Mobile Node Localization through UHF-RFID Passive Tags. , 2019, , .		14
32	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
33	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
34	Multifunctional modular antenna for nearâ€field ultraâ€high frequency radio frequency identification readers. IET Microwaves, Antennas and Propagation, 2016, 10, 843-849.	1.4	13
35	Location and tracking of items moving on a conveyor belt and equipped with UHF-RFID tags. , 2012, , .		11
36	RFID-Based Smart Shelving Storage Systems. , 2012, , .		9

#	ARTICLE	IF	CITATIONS
37	Antennas for UHF-RFID printer-encoders. , 2015, , .		9
38	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
39	A Phase-based Method for UHF RFID Gate Access Control. , 2019, , .		9
40	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
41	Characterization of lithium-batteries for high power applications. Journal of Energy Storage, 2022, 50, 104607.	8.1	9
42	A localization technique for smart bookshelves based on UHF-RFID systems. , 2013, , .		8
43	An array of meander Travelling Wave Antennas for near-field UHF-RFID readers. , 2013, , .		8
44	Measuring UHF-RFID Tag Position via Unmanned Aerial Vehicle in Outdoor Scenario. , 2018, , .		8
45	Axial ratio analysis of single-feed circularly polarized resonant antennas. Journal of Electromagnetic Waves and Applications, 2014, 28, 716-728.	1.6	7
46	A UHF-RFID gate control system based on a Convolutional Neural Network. , 2019, , .		7
47	An RFID-based Ranging System for Worker Safety in Agricultural Working Areas. , 2021, , .		7
48	RFID-Based Localization Enables a Smart System for Worker Safety. , 2021, , .		7
49	An RFID Tracking System for Agricultural Safety. , 2021, , .		7
50	Robot Localization via Passive UHF-RFID Technology: State-of-the-Art and Challenges. , 2020, , .		7
51	A phase-based technique for discriminating tagged items moving through a UHF-RFID gate. , 2014, , .		6
52	Advanced SARFID: A localization technique for UHF RFID tags. , 2016, , .		6
53	RFID-Based Tracking for Worker Safety in Industrial Scenario. , 2021, , .		6
54	A scalable modular antenna configuration to extend the detection volume of a near-field UHF-RFID desktop reader. , 2015, , .		5

#	ARTICLE	IF	CITATIONS
55	Robot Localisation using UHF-RFID Tags for Industrial IoT Applications. , 2020, , .		5
56	A two-element modular antenna for near-field UHF RFID applications. , 2015, , .		4
57	Measurement system with leaky coaxial cables operating as distributed antennas for UHF-RFID readers. , 2017, , .		4
58	The MONITOR Project: RFID-based Robots enabling real-time inventory and localization in warehouses and retail areas. , 2021, , .		4
59	Experimental validation of phase-based localization of UHF-RFID tags moving on a conveyor belt. , 2013, , .		3
60	A 2D localization technique for UHF-RFID smart bookshelves. , 2016, , .		3
61	Near-field focused antennas: from optics to microwaves. , 2016, , .		3
62	Numerical analysis of wireless power transfer in near-field UHF-RFID systems. Wireless Power Transfer, 2018, 5, 42-53.	1.1	3
63	SAR-based Localization of UHF-RFID Tags in Smart Warehouses. , 2020, , .		3
64	An annular-slot coupling feeding technique for dual-feed circularly polarized patch arrays. , 2010, , .		2
65	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
66	Self-Locating RFID Robot for Tag Localization in Retailers. , 2021, , .		2
67	UHF-RFID SAR robotic inventory and localization: handling systems vs. multi-antenna solutions. , 2022, , .		2
68	Artificial Intelligence enhances Smart RFID Portal for retail. , 2022, , .		2
69	Performance analysis of near-field focused planar arrays. , 2010, , .		1
70	On the differential feeding technique for circularly polarized resonant antennas. , 2014, , .		1
71	A multi-antenna phase-based localization technique for moving tags. , 2016, , .		1
72	A Novel Phase-based Method for UHF-RFID Tag Localization via UAV. , 2019, , .		1

#	ARTICLE	IF	CITATIONS
73	Analysis of SoH for Lithium Battery Cells operating under Vibration Stress. , 2020, , .		1
74	Temperature Effects and Damage Detection on CFRP through Electrical Impedance Spectroscopy. , 2021, , .		1
75	Performance Assessment of a UHF-RFID Robotic Inventory System for Industry 4.0. , 2022, , .		1
76	Circularly polarized square ring slot patch antennas. , 2010, , .		0
77	An efficient technique for the analysis of unconventional periodic surfaces. , 2012, , .		0
78	Optimal antennas for RFID printer-encoders. , 2016, , .		0
79	SARFID: A phase-based localization technique for UHF RFID tags moving along arbitrary trajectories. , 2016, , .		0
80	The SARFID technique in handling systems applications. , 2017, , .		0
81	Past, Present and Future RFID Activities at the University of Pisa. , 2021, , .		0