

Almudena Rivadeneyra

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1501161/publications.pdf>

Version: 2024-02-01

101
papers

2,095
citations

218677

26
h-index

265206

42
g-index

101
all docs

101
docs citations

101
times ranked

2660
citing authors

#	ARTICLE	IF	CITATIONS
1	Properties of silver chloride and carbon screen printed patterns on different textiles. <i>Textile Research Journal</i> , 2022, 92, 2711-2718.	2.2	1
2	Selectivity of Relative Humidity Using a CP Based on S-Block Metal Ions. <i>Sensors</i> , 2022, 22, 1664.	3.8	0
3	Reconfigurable Electronic Platforms: A Top-Down Approach to Learn about Design and Integration of Electronic Systems. <i>Micromachines</i> , 2022, 13, 442.	2.9	0
4	Paper and Salt: Biodegradable NaCl-Based Humidity Sensors for Sustainable Electronics. <i>Frontiers in Electronics</i> , 2022, 3, .	3.2	4
5	Portable electronic system for fast detection of bacteria lactase fermentation in water samples. <i>Sensors and Actuators A: Physical</i> , 2022, 338, 113486.	4.1	1
6	Laser-Induced Graphene Electrodes Modified with a Molecularly Imprinted Polymer for Detection of Tetracycline in Milk and Meat. <i>Sensors</i> , 2022, 22, 269.	3.8	11
7	Laser-Induced Graphene, Fused Filament Fabrication, and Aerosol Jet Printing for Realizing Conductive Elements of UHF RFID Antennas. <i>IEEE Journal of Radio Frequency Identification</i> , 2022, 6, 601-609.	2.3	11
8	Dual-Band Store-and-Use System for RF Energy Harvesting With Off-the-Shelf DC/DC Converters. <i>IEEE Internet of Things Journal</i> , 2021, 8, 3678-3688.	8.7	4
9	Fabrication of low cost and low impact RH and temperature sensors for the internet of environmental-friendly things. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2021, 267, 115081.	3.5	7
10	Cellulose nanofibers as substrate for flexible and biodegradable moisture sensors. <i>Composites Science and Technology</i> , 2021, 208, 108738.	7.8	44
11	Facile manufacturing of sub-mm thick CNT-based RC filters. <i>Materials Letters</i> , 2021, 297, 129939.	2.6	4
12	Optimization of a Handwriting Method by an Automated Ink Pen for Cost-Effective and Sustainable Sensors. <i>Chemosensors</i> , 2021, 9, 264.	3.6	1
13	Laser-Fabricated Antennas for RFID Applications. , 2021, , .		6
14	Readout Portable System For Wireless Chipless Biosensing. , 2021, , .		1
15	Printed and Flexible Microheaters Based on Carbon Nanotubes. <i>Nanomaterials</i> , 2020, 10, 1879.	4.1	8
16	Rational design of an unusual 2D-MOF based on Cu(μ_2 -4-hydroxypyrimidine-5-carbonitrile) and 4-hydroxypyrimidine-5-carbonitrile as linker with conductive capabilities: a theoretical approach based on high-pressure XRD. <i>Chemical Communications</i> , 2020, 56, 9473-9476.	4.1	6
17	Cost-Effective Printed Electrodes Based on Emerging Materials Applied to Biosignal Acquisition. <i>IEEE Access</i> , 2020, 8, 127789-127800.	4.2	12
18	Temperature sensing by Laser Reduced Graphene Oxide at different Laser Power Levels. , 2020, , .		1

#	ARTICLE	IF	CITATIONS
19	Carbon Dots as Sensing Layer for Printed Humidity and Temperature Sensors. <i>Nanomaterials</i> , 2020, 10, 2446.	4.1	10
20	Optimization of Cost-Effective and Reproducible Flexible Humidity Sensors Based on Metal-Organic Frameworks. <i>Sensors</i> , 2020, 20, 6981.	3.8	3
21	treNch: Ultra-Low Power Wireless Communication Protocol for IoT and Energy Harvesting. <i>Sensors</i> , 2020, 20, 6156.	3.8	12
22	Screen Printed Security-Button for Radio Frequency Identification Tags. <i>IEEE Access</i> , 2020, 8, 49224-49228.	4.2	3
23	Fabrication and Characterization of Humidity Sensors Based on Graphene Oxide/PEDOT:PSS Composites on a Flexible Substrate. <i>Micromachines</i> , 2020, 11, 148.	2.9	34
24	Recent Advances in Printed Capacitive Sensors. <i>Micromachines</i> , 2020, 11, 367.	2.9	35
25	Laser-fabricated flexible nanographene-based sensor for pH detection in saliva. , 2020, , .		0
26	Next Generation Antennas Based on Screen-Printed and Transparent Silver Nanowire Films. <i>Advanced Optical Materials</i> , 2019, 7, 1900995.	7.3	33
27	An Optimized Measurement Algorithm for Gas Sensors Based on Carbon Nanotubes: Optimizing Sensor Performance and Hardware Resources. <i>IEEE Internet of Things Journal</i> , 2019, 6, 9140-9146.	8.7	1
28	Fully 3D-Printed RFID Tags based on Printable Metallic Filament: Performance Comparison with other Fabrication Techniques. , 2019, , .		15
29	Fully Transparent Gas Sensor Based on Carbon Nanotubes. <i>Sensors</i> , 2019, 19, 4591.	3.8	7
30	Inexpensive Graphene Oxide Heaters Lithographed by Laser. <i>Nanomaterials</i> , 2019, 9, 1184.	4.1	16
31	Screen-Printed Chipless Wireless Temperature Sensor. <i>IEEE Sensors Journal</i> , 2019, 19, 12011-12015.	4.7	19
32	Inexpensive and flexible nanographene-based electrodes for ubiquitous electrocardiogram monitoring. <i>Npj Flexible Electronics</i> , 2019, 3, .	10.7	35
33	Cost-Effective PEDOT:PSS Temperature Sensors Inkjetted on a Bendable Substrate by a Consumer Printer. <i>Polymers</i> , 2019, 11, 824.	4.5	21
34	Shear-Force Sensors on Flexible Substrates Using Inkjet Printing. <i>Journal of Sensors</i> , 2019, 2019, 1-11.	1.1	8
35	A Facile and Efficient Protocol for Preparing Residual-Free Single-Walled Carbon Nanotube Films for Stable Sensing Applications. <i>Nanomaterials</i> , 2019, 9, 471.	4.1	21
36	Design, fabrication and characterization of capacitive humidity sensors based on emerging flexible technologies. <i>Sensors and Actuators B: Chemical</i> , 2019, 287, 459-467.	7.8	46

#	ARTICLE	IF	CITATIONS
37	Cost-Effective Techniques for Sensors Technology. Journal of Sensors, 2019, 2019, 1-2.	1.1	1
38	Acoustic characterization of laser-induced graphene film thermoacoustic loudspeakers. , 2019, , .		4
39	Flexible Carbon Nanotube Sensors with Screen Printed and Interdigitated Electrodes. , 2019, , .		1
40	Low-Cost Gas Sensing: Dynamic Self-Compensation of Humidity in CNT-Based Devices. ACS Sensors, 2019, 4, 3141-3146.	7.8	22
41	Functionalized and oxidized silicon nanosheets: Customized design for enhanced sensitivity towards relative humidity. Sensors and Actuators B: Chemical, 2019, 283, 451-457.	7.8	7
42	Time stability of carbon nanotube gas sensors. Measurement: Journal of the International Measurement Confederation, 2019, 136, 323-325.	5.0	13
43	Light and Pressure Sensors Based on PVDF With Sprayed and Transparent Electrodes for Self-Powered Wireless Sensor Nodes. IEEE Sensors Journal, 2019, 19, 1114-1126.	4.7	19
44	Flexible and robust laser-induced graphene heaters photothermally scribed on bare polyimide substrates. Carbon, 2019, 144, 116-126.	10.3	144
45	Towards low-power electronics: self-recovering and flexible gas sensors. Journal of Materials Chemistry A, 2018, 6, 7107-7113.	10.3	23
46	Design guidelines of laser reduced graphene oxide conformal thermistor for IoT applications. Sensors and Actuators A: Physical, 2018, 274, 148-154.	4.1	35
47	Asymmetric enhanced surface interdigitated electrode capacitor with two out-of-plane electrodes. Sensors and Actuators B: Chemical, 2018, 254, 588-596.	7.8	13
48	Surface Engineering of Two-Dimensional Hydrogenated Silicon Nanosheets for Tailored Applications. Journal of Physics: Conference Series, 2018, 1092, 012080.	0.4	0
49	Over-Stretching Tolerant Conductors on Rubber Films by Inkjet-Printing Silver Nanoparticles for Wearables. Polymers, 2018, 10, 1413.	4.5	19
50	Low-Cost Bio-Impedance Analysis System for the Evaluation of Fruit Ripeness. , 2018, , .		14
51	Scalable Deposition of Nanomaterial-Based Temperature Sensors for Transparent and Pervasive Electronics. Journal of Sensors, 2018, 2018, 1-9.	1.1	4
52	A Potassium Metal-Organic Framework based on Perylene-3,4,9,10-tetracarboxylate as Sensing Layer for Humidity Actuators. Scientific Reports, 2018, 8, 14414.	3.3	27
53	In-Depth Study of Laser Diode Ablation of Kapton Polyimide for Flexible Conductive Substrates. Nanomaterials, 2018, 8, 517.	4.1	53
54	On the sintering of solution-based silver nanoparticle thin-films for sprayed and flexible antennas. Nanotechnology, 2018, 29, 485701.	2.6	9

#	ARTICLE	IF	CITATIONS
55	Wireless Chipless System for Humidity Sensing. <i>Sensors</i> , 2018, 18, 2275.	3.8	20
56	Reconfigurable electronics: Addressing the uncontrolled increase of waste electrical and electronic equipment. <i>Resources, Conservation and Recycling</i> , 2018, 138, 47-48.	10.8	10
57	Compact readout system for chipless passive LC tags and its application for humidity monitoring. <i>Sensors and Actuators A: Physical</i> , 2018, 280, 287-294.	4.1	15
58	A Handwriting Method for Low-Cost Gas Sensors. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 34683-34689.	8.0	15
59	Biominalisation of carbonate and sulphate by the halophilic bacterium <i>Halomonas maura</i> at different manganese concentrations. <i>Extremophiles</i> , 2017, 21, 1049-1056.	2.3	14
60	Characterization of an Interdigitated Capacitive Structure With Branches for Relative Humidity Sensing. , 2017, 1, 1-4.		5
61	16S rRNA gene-based characterization of bacteria potentially associated with phosphate and carbonate precipitation from a granular autotrophic nitrogen removal bioreactor. <i>Applied Microbiology and Biotechnology</i> , 2017, 101, 817-829.	3.6	14
62	Comparison of Fabrication Techniques for Flexible UHF RFID Tag Antennas [Wireless Corner]. <i>IEEE Antennas and Propagation Magazine</i> , 2017, 59, 159-168.	1.4	18
63	Transparent thermocouples based on spray-coated nanocomposites. , 2017, , .		5
64	Design, simulation and fabrication strategies for printed out-of-plane thermoelectric devices. , 2017, , .		0
65	Fully Printed Flexible Single-Chip RFID Tag with Light Detection Capabilities. <i>Sensors</i> , 2017, 17, 534.	3.8	42
66	Read Range Enhancement of a Sensing RFID Tag by Photovoltaic Panel. <i>Journal of Sensors</i> , 2017, 2017, 1-7.	1.1	3
67	Integration of a Thin Film PDMS-Based Capacitive Sensor for Tactile Sensing in an Electronic Skin. <i>Journal of Sensors</i> , 2016, 2016, 1-7.	1.1	33
68	Hybrid printed device for simultaneous vapours sensing. <i>IEEE Sensors Journal</i> , 2016, , 1-1.	4.7	3
69	Optimization of process parameters for inkjet printing of CNT random networks on flexible substrates. , 2016, , .		2
70	Flexible NH3 sensor based on spray deposition and inkjet printing. , 2016, , .		6
71	Printed electrodes structures as capacitive humidity sensors: A comparison. <i>Sensors and Actuators A: Physical</i> , 2016, 244, 56-65.	4.1	68
72	Fabrication, characterization and modeling of flexible electronic components based on CNT networks. , 2016, , .		0

#	ARTICLE	IF	CITATIONS
73	Tunable MEMS piezoelectric energy harvesting device. <i>Microsystem Technologies</i> , 2016, 22, 823-830.	2.0	22
74	Inkjet printing and photonic sintering of silver and copper oxide nanoparticles for ultra-low-cost conductive patterns. <i>Journal of Materials Chemistry C</i> , 2016, 4, 3546-3554.	5.5	102
75	Development of a printed sensor for volatile organic compound detection at 1/4g/L-level. <i>Sensors and Actuators B: Chemical</i> , 2016, 230, 115-122.	7.8	3
76	The influence of Salt Concentration on the Precipitation of Magnesium Calcite and Calcium Dolomite by <i>Halomonas Anticariensis</i> . <i>Expert Opinion on Environmental Biology</i> , 2016, 5, .	0.2	6
77	Improved manufacturing process for printed cantilevers by using water removable sacrificial substrate. <i>Sensors and Actuators A: Physical</i> , 2015, 235, 171-181.	4.1	16
78	Bioprecipitation of Calcium Carbonate Crystals by Bacteria Isolated from Saline Environments Grown in Culture Media Amended with Seawater and Real Brine. <i>BioMed Research International</i> , 2015, 2015, 1-12.	1.9	46
79	Passive UHF RFID Tag with Multiple Sensing Capabilities. <i>Sensors</i> , 2015, 15, 26769-26782.	3.8	57
80	Cantilever Fabrication by a Printing and Bonding Process. <i>Journal of Microelectromechanical Systems</i> , 2015, 24, 880-886.	2.5	3
81	A printed capacitive-resistive double sensor for toluene and moisture sensing. <i>Sensors and Actuators B: Chemical</i> , 2015, 210, 542-549.	7.8	35
82	Comparative study of printed capacitive sensors. , 2015, , .		2
83	Isolation and metagenomic characterization of bacteria associated with calcium carbonate and struvite precipitation in a pure moving bed biofilm reactor-membrane bioreactor. <i>Biofouling</i> , 2015, 31, 333-348.	2.2	22
84	HF RFID Tag as Humidity Sensor: Two Different Approaches. <i>IEEE Sensors Journal</i> , 2015, 15, 5726-5733.	4.7	45
85	Precipitation of Phosphate Minerals by Microorganisms Isolated from a Fixed-Biofilm Reactor Used for the Treatment of Domestic Wastewater. <i>International Journal of Environmental Research and Public Health</i> , 2014, 11, 3689-3704.	2.6	20
86	Feasibility Study of a Simple and Low-Cost Device for Monitoring Trihalomethanes Presence in Water Supply Systems Based on Statistical Models. <i>Water (Switzerland)</i> , 2014, 6, 3590-3602.	2.7	3
87	Printed single-chip UHF passive radio frequency identification tags with sensing capability. <i>Sensors and Actuators A: Physical</i> , 2014, 220, 281-289.	4.1	33
88	Microbial community dynamics in a submerged fixed bed bioreactor during biological treatment of saline urban wastewater. <i>Ecological Engineering</i> , 2014, 71, 126-132.	3.6	55
89	Design and Development of Sensing RFID Tags on Flexible Foil Compatible With EPC Gen 2. <i>IEEE Sensors Journal</i> , 2014, 14, 4361-4371.	4.7	44
90	Design and characterization of a low thermal drift capacitive humidity sensor by inkjet-printing. <i>Sensors and Actuators B: Chemical</i> , 2014, 195, 123-131.	7.8	118

#	ARTICLE	IF	CITATIONS
91	Properties and Printability of Inkjet and Screen-Printed Silver Patterns for RFID Antennas. Journal of Electronic Materials, 2014, 43, 604-617.	2.2	117
92	A novel electrode structure compared with interdigitated electrodes as capacitive sensor. Sensors and Actuators B: Chemical, 2014, 204, 552-560.	7.8	68
93	Carbonate Precipitation of Bacterial Strains Isolated from Sediments and Seawater: Formation Mechanisms. Geomicrobiology Journal, 2013, 30, 840-850.	2.0	30
94	Precipitation of carbonates by bacteria isolated from wastewater samples collected in a conventional wastewater treatment plant. International Journal of Environmental Science and Technology, 2013, 10, 141-150.	3.5	26
95	Screen Printed Flexible Radiofrequency Identification Tag for Oxygen Monitoring. Analytical Chemistry, 2013, 85, 11098-11105.	6.5	76
96	Frequency response of variants of a cantilever beam. , 2012, , .		6
97	Geometrical analysis of a MEMS microphone. , 2012, , .		0
98	Design and Characterization of Ink-Jet and Screen Printed HF RFID Antennas. , 2012, , .		7
99	Context-Awareness in a Service Oriented e-Health Platform. Lecture Notes in Computer Science, 2011, , 172-179.	1.3	1
100	Technological Integration in Printed Electronics. , 0, , .		9
101	Screen-printed capacitive pressure sensors with high sensitivity and accuracy on flexible substrates. Flexible and Printed Electronics, 0, , .	2.7	1