

Francisco Javier Ferrero Martin

List of Publications by Year in descending order

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Version: 2024-02-01

68
papers

861
citations

566801

15
h-index

610482

24
g-index

68
all docs

68
docs citations

68
times ranked

904
citing authors

#	ARTICLE	IF	CITATIONS
1	Single-stage constant-wattage high-power-factor electronic ballast with dimming capability. , 0, , .		68
2	Determination of suitable parameters for battery analysis by Electrochemical Impedance Spectroscopy. Measurement: Journal of the International Measurement Confederation, 2017, 106, 1-11.	2.5	57
3	The COMPLEX methodology for UML/MARTE Modeling and design space exploration of embedded systems. Journal of Systems Architecture, 2014, 60, 55-78.	2.5	49
4	Functionalized phosphorescent nanoparticles in (bio)chemical sensing and imaging â€“ A review. Analytica Chimica Acta, 2019, 1046, 16-31.	2.6	49
5	The COMPLEX reference framework for HW/SW co-design and power management supporting platform-based design-space exploration. Microprocessors and Microsystems, 2013, 37, 966-980.	1.8	33
6	Low-cost open-source multifunction data acquisition system for accurate measurements. Measurement: Journal of the International Measurement Confederation, 2014, 55, 265-271.	2.5	32
7	An Acoustic Resonance Band Detection Workbench for HID Lamps. IEEE Transactions on Industry Applications, 2007, 43, 1191-1198.	3.3	29
8	Screening method for early detection of mastitis in cows. Measurement: Journal of the International Measurement Confederation, 2014, 47, 855-860.	2.5	29
9	A portable IoT NIR spectroscopic system to analyze the quality of dairy farm forage. Computers and Electronics in Agriculture, 2020, 175, 105578.	3.7	26
10	Analysis and design of a high power factor, single-stage electronic ballast for high-intensity discharge lamps. IEEE Transactions on Power Electronics, 2003, 18, 558-569.	5.4	24
11	A ratiometric approach for pH optosensing with a single fluorophore indicator. Analytica Chimica Acta, 2006, 562, 197-203.	2.6	24
12	Design of a Low-Cost Optical Instrument for pH Fluorescence Measurements. IEEE Transactions on Instrumentation and Measurement, 2006, 55, 1215-1221.	2.4	24
13	A Discharge Lamp Model Based on Lamp Dynamic Conductance. IEEE Transactions on Power Electronics, 2007, 22, 727-734.	5.4	22
14	Development of a Computer Writing System Based on EOG. Sensors, 2017, 17, 1505.	2.1	22
15	A study on electrode placement in EOG systems for medical applications. , 2016, , .		21
16	Development of an EOG-based system to control a serious game. Measurement: Journal of the International Measurement Confederation, 2018, 127, 481-488.	2.5	19
17	Measurement of low oxygen concentrations by phosphorescence lifetime using optical fibers. IEEE Transactions on Instrumentation and Measurement, 1999, 48, 949-955.	2.4	18
18	High-Performance Analog Front-End (AFE) for EOG Systems. Electronics (Switzerland), 2020, 9, 970.	1.8	18

#	ARTICLE	IF	CITATIONS
19	NiMH vs NiCd Batteries under High Charging Rates. , 2006, , .		16
20	The influence of surface coating on the properties of water-soluble CdSe and CdSe/ZnS quantum dots. Journal of Nanoparticle Research, 2013, 15, 1.	0.8	16
21	Visual detection of microRNA146a by using RNA-functionalized gold nanoparticles. Mikrochimica Acta, 2020, 187, 192.	2.5	16
22	Automatic bionalyzer using an integrated amperometric biosensor for the determination of L-malic acid in wines. Talanta, 2016, 158, 6-13.	2.9	15
23	Characterization of 109Ah NiMH batteries charging with hydrogen sensing termination. Journal of Power Sources, 2007, 171, 1040-1045.	4.0	14
24	Dynamic analysis of the photoenhancement process of colloidal quantum dots with different surface modifications. Nanotechnology, 2011, 22, 385703.	1.3	14
25	Portable Fibre Optic Oxygen Sensor Based on Room-Temperature Phosphorescence Lifetime. Mikrochimica Acta, 2000, 134, 145-152.	2.5	13
26	A critical comparison between two different ratiometric techniques for optical luminescence sensing. Sensors and Actuators B: Chemical, 2009, 139, 237-244.	4.0	12
27	Postural balance analysis using force platform for K-theragame users. , 2016, , .		12
28	A Novel Handheld Fluorimeter for Rapid Detection of <i>Escherichia coli</i> in Drinking Water. IEEE Sensors Journal, 2016, 16, 5136-5144.	2.4	12
29	An Affordable Method for Evaluation of Ataxic Disorders Based on Electrooculography. Sensors, 2019, 19, 3756.	2.1	12
30	An equivalent conductance model for high intensity discharge lamps. , 0, , .		11
31	An Electronic Instrumentation Design Project for Computer Engineering Students. IEEE Transactions on Education, 2005, 48, 472-481.	2.0	11
32	Comparison Between Different Discharge Lamp Models Based on Lamp Dynamic Conductance. IEEE Transactions on Industry Applications, 2011, 47, 1983-1991.	3.3	10
33	A MDD methodology for specification of embedded systems and automatic generation of fast configurable and executable performance models. , 2012, , .		10
34	Development of a biosensor protein bullet as a fluorescent method for fast detection of <i>Escherichia coli</i> in drinking water. PLoS ONE, 2018, 13, e0184277.	1.1	10
35	Automatic measurement of fish size using stereo vision. , 2018, , .		9
36	A time domain error measure for resampled irregular data. , 0, , .		7

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37	Design of a low-cost sensor system for the determination of the number of somatic cells in milk using bioluminescence analysis. IEEE Transactions on Instrumentation and Measurement, 2002, 51, 320-325.	2.4	7
38	EOG-based system for mouse control. , 2014, , .		7
39	Low-cost system based on electro-oculography for communication of disabled people. , 2014, , .		7
40	EOG signal processing module for medical assistive systems. , 2016, , .		7
41	Optical systems for the detection and recognition of fish in rivers. , 2014, , .		6
42	Near-Infrared Sensors for Onsite and Noninvasive Quantification of Macronutrients in Breast Milk. Sensors, 2022, 22, 1311.	2.1	6
43	A low-cost open-source data acquisition system. , 2014, , .		5
44	COMPLEX: COdesign and Power Management in PLatform-Based Design Space EXploration. , 2012, , .		4
45	A Real-Time Algorithm to Detect Falls in the Elderly. , 2018, , .		3
46	Portable Instrument for Monitoring Environmental Toxins Using Immobilized Quantum Dots as the Sensing Material. Applied Sciences (Switzerland), 2020, 10, 3246.	1.3	3
47	Optoelectronic Instrumentation and Measurement Strategies for Optical Chemical (Bio)Sensing. Applied Sciences (Switzerland), 2021, 11, 7849.	1.3	3
48	Design of a Low-Cost Portable Potentiostat for Amperometric Biosensors. Conference Record - IEEE Instrumentation and Measurement Technology Conference, 2006, , .	0.0	3
49	Inorganic nanoparticles coupled to nucleic acid enzymes as analytical signal amplification tools. Analytical and Bioanalytical Chemistry, 2022, 414, 5201-5215.	1.9	3
50	An Electronic Instrumentation Course as Part of a Multidisciplinary Learning Project. , 2008, , .		2
51	Improving the analytical performance of a phosphorescent nanosensor by optimizing a ratiometric technique. Sensors and Actuators B: Chemical, 2016, 233, 574-581.	4.0	2
52	An affordable EMC pre-compliance test lab for educational purposes. IEEE Instrumentation and Measurement Magazine, 2019, 22, 57-63.	1.2	2
53	Portable IoT NIR Spectrometer for Detecting Undesirable Substances in Forages of Dairy Farms. , 2019, , .		2
54	Measurement of Polycyclic Aromatic Hydrocarbons by using Molecularly Imprinted Polymers. , 2008, , .		1

#	ARTICLE	IF	CITATIONS
55	Ratiometric Methods For Optical Fiber Instrumentation Based On Luminescence Sensors. , 2008, , .		1
56	Optical system for rapid detection of Escherichia coli in drinking water. , 2014, , .		1
57	Handheld Device for Rapid Detection of miRNA based on a Ratiometric Transmittance Scheme. , 2020, , .		1
58	Design of a Low-Cost Instrument for Pulse Oximetry. Conference Record - IEEE Instrumentation and Measurement Technology Conference, 2006, , .	0.0	1
59	Resonant Converter as a High Pressure Sodium Lamp Ballast. EPE Journal (European Power Electronics) Tj ETQq1 1 0,784314 µgBT /Over	0.7	0
60	Ultra-stabilization of temperature in APD sensors by means a HF switching regulator. , 0, , .		0
61	Characterization of photoluminescence activation of semiconductor nanoparticles for optical sensors. , 2010, , .		0
62	An optical-based instrument for halithosis detection. , 2010, , .		0
63	In-line measurement of dissolved acetone using a nanostructured optical sensor. , 2011, , .		0
64	Design of an accurate wireless data logger for vibration analysis with Android interface. Review of Scientific Instruments, 2016, 87, 125003.	0.6	0
65	Feasibility of Infrared Thermography Use for Neuromusculoskeletal Rehabilitation. , 2018, , .		0
66	Advanced Approach to Battery Impedance Measurement Using DC Current Step. , 2018, , .		0
67	A Portable Automated Bioanalyzer Based on Enzymatic Biosensors for Food Analysis. , 2020, , .		0
68	Development of Continuous Flow Analysis System Based on Amperometric Biosensors. IEEE Sensors Journal, 2022, 22, 7542-7549.	2.4	0