Francisco Javier Ferrero Martin

List of Publications by Year
in descending order

68	861	566801 15	610482 24
papers	citations	h-index	g-index

68	68	68	904
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Near-Infrared Sensors for Onsite and Noninvasive Quantification of Macronutrients in Breast Milk. Sensors, 2022, 22, 1311.	2.1	6
2	Development of Continuous Flow Analysis System Based on Amperometric Biosensors. IEEE Sensors Journal, 2022, 22, 7542-7549.	2.4	0
3	Inorganic nanoparticles coupled to nucleic acid enzymes as analytical signal amplification tools. Analytical and Bioanalytical Chemistry, 2022, 414, 5201-5215.	1.9	3
4	Optoelectronic Instrumentation and Measurement Strategies for Optical Chemical (Bio)Sensing. Applied Sciences (Switzerland), 2021, 11, 7849.	1.3	3
5	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
6	Handheld Device for Rapid Detection of miRNA based on a Ratiometric Transmittance Scheme. , 2020, , .		1
7	Portable Instrument for Monitoring Environmental Toxins Using Immobilized Quantum Dots as the Sensing Material. Applied Sciences (Switzerland), 2020, 10, 3246.	1.3	3
8	High-Performance Analog Front-End (AFE) for EOG Systems. Electronics (Switzerland), 2020, 9, 970.	1.8	18
9	A Portable Automated Bioanalyzer Based on Enzymatic Biosensors for Food Analysis. , 2020, , .		0
10	Visual detection of microRNA146a by using RNA-functionalized gold nanoparticles. Mikrochimica Acta, 2020, 187, 192.	2.5	16
11	Functionalized phosphorescent nanoparticles in (bio)chemical sensing and imaging â€“ A review. Analytica Chimica Acta, 2019, 1046, 16-31.	2.6	49
12	An affordable EMC pre-compliance test lab for educational purposes. IEEE Instrumentation and Measurement Magazine, 2019, 22, 57-63.	1.2	2
13	An Affordable Method for Evaluation of Ataxic Disorders Based on Electrooculography. Sensors, 2019, 19, 3756.	2.1	12
14	Portable IoT NIR Spectrometer for Detecting Undesirable Substances in Forages of Dairy Farms. , 2019, , .		2
15	Feasibility of Infrared Thermography Use for Neuromusculoskeletal Rehabilitation. , 2018, , .		0
16	Advanced Approach to Battery Impedance Measurement Using DC Current Step. , 2018, , .		0
17	Automatic measurement of fish size using stereo vision. , 2018, , .		9
18	A Real-Time Algorithm to Detect Falls in the Elderly. , 2018, , .		3

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19	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
20	Development of a biosensor protein bullet as a fluorescent method for fast detection of Escherichia coli in drinking water. PLoS ONE, 2018, 13, e0184277.	1.1	10
21	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
22	Development of a Computer Writing System Based on EOG. Sensors, 2017, 17, 1505.	2.1	22
23	Design of an accurate wireless data logger for vibration analysis with Android interface. Review of Scientific Instruments, 2016, 87, 125003.	0.6	0
24	Automatic bionalyzer using an integrated amperometric biosensor for the determination of L-malic acid in wines. Talanta, 2016, 158, 6-13.	2.9	15
25	EOG signal processing module for medical assistive systems. , 2016, , .		7
26	A study on electrode placement in EOG systems for medical applications. , 2016, , .		21
27	Postural balance analysis using force platform for K-theragame users. , 2016, , .		12
28	A Novel Handheld Fluorimeter for Rapid Detection of <italic>Escherichia coli</italic> in Drinking Water. IEEE Sensors Journal, 2016, 16, 5136-5144.	2.4	12
29	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
30	EOG-based system for mouse control. , 2014, , .		7
31	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
32	Optical systems for the detection and recognition of fish in rivers. , 2014, , .		6
33	Low-cost system based on electro-oculography for communication of disabled people. , 2014, , .		7
34	A low-cost open-source data acquisition system. , 2014, , .		5
35	Screening method for early detection of mastitis in cows. Measurement: Journal of the International Measurement Confederation, 2014, 47, 855-860.	2.5	29
36	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

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37	Optical system for rapid detection of Escherichia coli in drinking water. , 2014, , .		1
38	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
39	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
40	A MDD methodology for specification of embedded systems and automatic generation of fast configurable and executable performance models. , 2012, , .		10
41	COMPLEX: COdesign and Power Management in PLatform-Based Design Space EXploration. , 2012, , .		4
42	Comparison Between Different Discharge Lamp Models Based on Lamp Dynamic Conductance. IEEE Transactions on Industry Applications, 2011, 47, 1983-1991.	3.3	10
43	Dynamic analysis of the photoenhancement process of colloidal quantum dots with different surface modifications. Nanotechnology, 2011, 22, 385703.	1.3	14
44	In-line measurement of dissolved acetone using a nanoestructured optical sensor. , 2011, , .		0
45	Characterization of photoluminescence activation of semiconductor nanoparticles for optical sensors. , 2010, , .		0
46	An optical-based instrument for halithosis detection. , 2010, , .		0
47	A critical comparison between two different ratiometric techniques for optical luminescence sensing. Sensors and Actuators B: Chemical, 2009, 139, 237-244.	4.0	12
48	Measurement of Polycyclic Aromatic Hydrocarbons by using Molecularly Imprinted Polymers. , 2008, , .		1
49	Ratiometric Methods For Optical Fiber Instrumentation Based On Luminescence Sensors. , 2008, , .		1
50	An Electronic Instrumentation Course as Part of a Multidisciplinary Learning Project. , 2008, , .		2
51	A Discharge Lamp Model Based on Lamp Dynamic Conductance. IEEE Transactions on Power Electronics, 2007, 22, 727-734.	5.4	22
52	An Acoustic Resonance Band Detection Workbench for HID Lamps. IEEE Transactions on Industry Applications, 2007, 43, 1191-1198.	3.3	29
53	Characterization of 109Ah Niâ€“MH batteries charging with hydrogen sensing termination. Journal of Power Sources, 2007, 171, 1040-1045.	4.0	14
54	NiMH vs NiCd Batteries under High Charging Rates. , 2006, , .		16

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55	A ratiometric approach for pH optosensing with a single fluorophore indicator. Analytica Chimica Acta, 2006, 562, 197-203.	2.6	24
56	Design of a Low-Cost Optical Instrument for pH Fluorescence Measurements. IEEE Transactions on Instrumentation and Measurement, 2006, 55, 1215-1221.	2.4	24
57	Design of a Low-Cost Instrument for Pulse Oximetry. Conference Record - IEEE Instrumentation and Measurement Technology Conference, 2006, , .	0.0	1
58	Design of a Low-Cost Portable Potentiostat for Amperometric Biosensors. Conference Record - IEEE Instrumentation and Measurement Technology Conference, 2006, , .	0.0	3
59	An Electronic Instrumentation Design Project for Computer Engineering Students. IEEE Transactions on Education, 2005, 48, 472-481.	2.0	11
60	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
61	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
62	Resonant Converter as a High Pressure Sodium Lamp Ballast. EPE Journal (European Power Electronics) Tj ETQq0 0 0 rgBT /Overlock 10 T	0.7	0
63	Portable Fibre Optic Oxygen Sensor Based on Room-Temperature Phosphor escence Lifetime. Mikrochimica Acta, 2000, 134, 145-152.	2.5	13
64	Measurement of low oxygen concentrations by phosphorescence lifetime using optical fibers. IEEE Transactions on Instrumentation and Measurement, 1999, 48, 949-955.	2.4	18
65	Single-stage constant-wattage high-power-factor electronic ballast with dimming capability. , 0, , .		68
66	A time domain error measure for resampled irregular data. , 0, , .		7
67	An equivalent conductance model for high intensity discharge lamps. , 0, , .		11
68	Ultra-stabilization of temperature in APD sensors by means a HF switching regulator. , 0, , .		0