

Fabian N Murrieta-Rico

List of Publications by Year in descending order

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48
papers

406
citations

933447

10
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839539

18
g-index

48
all docs

48
docs citations

48
times ranked

227
citing authors

#	ARTICLE	IF	CITATIONS
1	Aluminum distribution in mordenite-zeolite framework: A new outlook based on density functional theory calculations. <i>Journal of Solid State Chemistry</i> , 2022, 306, 122725.	2.9	7
2	Basic Aspects in the Application of QCMs as Sensors: A Tutorial. <i>IEEE Sensors Journal</i> , 2022, 22, 10163-10172.	4.7	6
3	Full-State Control of Rotary Pendulum Using LQR Controller. <i>Advances in IT Standards and Standardization Research Series</i> , 2022, , 75-117.	0.2	0
4	Facile Zinc Oxide Nanoparticle Green Synthesis Using <i>Citrus reticulata</i> Extract for Use in Optoelectronic Sensors. <i>IEEE Sensors Journal</i> , 2021, 21, 11275-11282.	4.7	12
5	Frequency Shifts Estimation for Sensors Based on Optoelectronic Oscillators. <i>IEEE Sensors Journal</i> , 2021, 21, 11283-11290.	4.7	6
6	Applications of Quartz Crystal Microbalances Modified With Metal Organic Frameworks. <i>Advances in Chemical and Materials Engineering Book Series</i> , 2021, , 56-73.	0.3	2
7	Advances in Laser Scanners. <i>Advances in Computational Intelligence and Robotics Book Series</i> , 2021, , 37-70.	0.4	0
8	Optoelectronic Devices Fusion in Machine Vision Applications. <i>Advances in Computational Intelligence and Robotics Book Series</i> , 2021, , 1-36.	0.4	0
9	QCM modified with FAU zeolite nanostructures for analysis of temperature induced adsorbed mass changes. <i>Measurement: Journal of the International Measurement Confederation</i> , 2021, 172, 108935.	5.0	9
10	Prospects for Further Development of Face Masks to Minimize Pandemics Functionalization of Textile Materials with Biocide Inorganic Nanoparticles: A Review. <i>IEEE Latin America Transactions</i> , 2021, 19, 1010-1023.	1.6	6
11	The effect of chemical composition on the properties of LTA zeolite: A theoretical study. <i>Computational Materials Science</i> , 2021, 196, 110557.	3.0	14
12	Evaluation of naturally synthesized ZnO for sensing applications using EIS. <i>Materials Today: Proceedings</i> , 2021, 47, 1676-1681.	1.8	4
13	Zeolites with quantum dots as functional materials: current trends and perspectives for optical devices. , 2021, , .		1
14	Phase effect in frequency measurements of a quartz crystal using the pulse coincidence principle. , 2020, , .		2
15	Local Structures of Two-Dimensional Zeolitesâ€”Mordenite and ZSM-5â€”Probed by Multinuclear NMR. <i>Molecules</i> , 2020, 25, 4678.	3.8	10
16	Evaluation of electrochemical properties of zinc oxide based semiconductor nanoparticles biosynthesized with <i>Mentha spicata</i> for optoelectronic applications. <i>Materials Letters</i> , 2020, 275, 128101.	2.6	12
17	Stereoscopic Vision Systems in Machine Vision, Models, and Applications. , 2020, , 241-265.		4
18	Application of the Principle of Rational Approximations for Measuring Dynamic Frequency Values Generated by an IMU. <i>Advances in Computational Intelligence and Robotics Book Series</i> , 2020, , 26-51.	0.4	3

#	ARTICLE	IF	CITATIONS
19	Digital Control Theory Application and Signal Processing in a Laser Scanning System Applied for Mobile Robotics. Advances in Computational Intelligence and Robotics Book Series, 2020, , 215-265.	0.4	1
20	Analysis of Spatial Localization Trough Frequency Counting for Accelerometers Embedded in INS. , 2019, , .		0
21	Theoretical study of the effect of isomorphous substitution by Al^{3+} and/or Fe^{3+} cations to tetrahedral positions in the framework of a zeolite with erionite topology. Journal of Materials Science, 2019, 54, 13190-13199.	3.7	5
22	Defining the Final Angular Position of DC Motor shaft using a Trapezoidal Trajectory Profile. , 2019, , .		5
23	Effect of phase in fast frequency measurements for sensors embedded in robotic systems. International Journal of Advanced Robotic Systems, 2019, 16, 172988141986972.	2.1	7
24	Experimental analysis of measurement process for a QCM using the pulse coincidence method. , 2019, , .		3
25	Zeolite-Based Optical Detectors. Advances in Computational Intelligence and Robotics Book Series, 2019, , 1-16.	0.4	1
26	Reduction of Angular Position Error of a Machine Vision System Using the Digital Controller LM629. , 2018, , .		2
27	Application of Fast Frequency Shift Measurement Method for INS in Navigation of Drones. , 2018, , .		8
28	Two-Parameter Pressure and Temperature Measuring Transducer Based on a Voltage-Controlled MEMS-Elements. , 2018, , .		0
29	Constraints definition and application optimization based on geometric analysis of the frequency measurement method by pulse coincidence. Measurement: Journal of the International Measurement Confederation, 2018, 126, 184-193.	5.0	13
30	Optimization of pulse width for frequency measurement by the method of rational approximations principle. Measurement: Journal of the International Measurement Confederation, 2018, 125, 463-470.	5.0	14
31	A New Approach to Measurement of Frequency Shifts Using the Principle of Rational Approximations. Metrology and Measurement Systems, 2017, 24, 45-56.	1.4	10
32	Exact laser beam positioning for measurement of vegetation vitality. Industrial Robot, 2017, 44, 532-541.	2.1	46
33	High resolution measurement of physical variables change for INS. , 2016, , .		3
34	Online SHM Optical Scanning Data Exchange. , 2016, , .		2
35	Resolution improvement of accelerometers measurement for drones in agricultural applications. , 2016, , .		11
36	Pulse width influence in fast frequency measurements using rational approximations. Measurement: Journal of the International Measurement Confederation, 2016, 86, 67-78.	5.0	26

#	ARTICLE	IF	CITATIONS
37	Mobile robot vision system using continuous laser scanning for industrial application. Industrial Robot, 2016, 43, 360-369.	2.1	62
38	High resolution measurement of water levels in optical components. , 2016, , .		1
39	Frequency Domain Sensors and Frequency Measurement Techniques. Applied Mechanics and Materials, 2015, 756, 575-584.	0.2	12
40	Instability measurement in time-frequency references used on autonomous navigation systems. , 2015, , .		3
41	Outlier mining of a vision sensing database for SVM regression improvement. , 2015, , .		1
42	Rational approximations principle for frequency shifts measurement in frequency domain sensors. , 2015, , .		5
43	Continuous 3D scanning mode using servomotors instead of stepping motors in dynamic laser triangulation. , 2015, , .		19
44	Mathematical Modelling of molecular adsorption in zeolite coated frequency domain sensors. IFAC-PapersOnLine, 2015, 48, 41-46.	0.9	22
45	Accuracy improvement of vision system for mobile robot navigation by finding the energetic center of laser signal. , 2014, , .		2
46	Acceleration measurement improvement by application of novel frequency measurement technique for FDS based INS. , 2014, , .		9
47	Non-intrusive Tracking of Patients with Dementia Using a Wireless Sensor Network. , 2013, , .		10
48	Frequency domain automotive sensors: Resolution improvement by novel principle of rational approximation. , 2010, , .		5