

# Jose G Rocha

## List of Publications by Year in descending order

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74  
papers

1,987  
citations

279798

23  
h-index

265206

42  
g-index

74  
all docs

74  
docs citations

74  
times ranked

2469  
citing authors

#	ARTICLE	IF	CITATIONS
1	Energy Harvesting From Piezoelectric Materials Fully Integrated in Footwear. IEEE Transactions on Industrial Electronics, 2010, 57, 813-819.	7.9	208
2	Energy harvesting performance of piezoelectric electrospun polymer fibers and polymer/ceramic composites. Sensors and Actuators A: Physical, 2013, 196, 55-62.	4.1	138
3	The effect of fibre concentration on the $\hat{1}\pm$ to $\hat{1}^2$ -phase transformation, degree of crystallinity and electrical properties of vapour grown carbon nanofibre/poly(vinylidene fluoride) composites. Carbon, 2009, 47, 2590-2599.	10.3	124
4	Electromechanical performance of poly(vinylidene fluoride)/carbon nanotube composites for strain sensor applications. Sensors and Actuators A: Physical, 2012, 178, 10-16.	4.1	124
5	Relationship between processing conditions, defects and thermal degradation of poly(vinylidene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T	3.1	110
6	Effect of degree of porosity on the properties of poly(vinylidene fluoride-trifluoroethylene) for Li-ion battery separators. Journal of Membrane Science, 2012, 407-408, 193-201.	8.2	110
7	Enhanced proliferation of pre-osteoblastic cells by dynamic piezoelectric stimulation. RSC Advances, 2012, 2, 11504.	3.6	106
8	$\hat{1}\pm$ - and $\hat{1}^3$ -PVDF: Crystallization kinetics, microstructural variations and thermal behaviour. Materials Chemistry and Physics, 2010, 122, 87-92.	4.0	96
9	Energy harvesting performance of BaTiO <sub>3</sub> /poly(vinylidene fluoride-trifluoroethylene) spin coated nanocomposites. Composites Part B: Engineering, 2015, 72, 130-136.	12.0	96
10	Development of inkjet printed strain sensors. Smart Materials and Structures, 2013, 22, 105028.	3.5	81
11	Fabrication of flexible thermoelectric microcoolers using planar thin-film technologies. Journal of Micromechanics and Microengineering, 2007, 17, S168-S173.	2.6	77
12	The piezoresistive effect in polypropylene-carbon nanofibre composites obtained by shear extrusion. Smart Materials and Structures, 2010, 19, 065013.	3.5	52
13	Optimization of piezoelectric ultrasound emitter transducers for underwater communications. Sensors and Actuators A: Physical, 2012, 184, 141-148.	4.1	36
14	A pilot external quality assurance study of transfusion screening for HIV, HCV and HBsAG in 12 African countries. Vox Sanguinis, 2014, 107, 333-342.	1.5	35
15	Evaluation of the main processing parameters influencing the performance of poly(vinylidene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T 2013, 17, 861-870.	2.5	33
16	All-Inkjet-Printed Bottom-Gate Thin-Film Transistors Using UV Curable Dielectric for Well-Defined Source-Drain Electrodes. Journal of Electronic Materials, 2014, 43, 2631-2636.	2.2	33
17	Degradation of all-inkjet-printed organic thin-film transistors with TIPS-pentacene under processes applied in textile manufacturing. Organic Electronics, 2015, 22, 12-19.	2.6	31
18	Smart-Optical Detector CMOS Array for Biochemical Parameters Analysis in Physiological Fluids. IEEE Transactions on Industrial Electronics, 2008, 55, 3192-3200.	7.9	30

#	ARTICLE	IF	CITATIONS
19	Piezoresistive silicon thin film sensor array for biomedical applications. Thin Solid Films, 2011, 519, 4574-4577.	1.8	30
20	Microscopic origin of the high-strain mechanical response of poled and non-poled poly(vinylidene fluoride) based piezoelectric thin films. Journal of Applied Polymer Science, 2010, 115, 2900-2910.	3.1	29
21	Piezoresistive effect in spin-coated polyaniline thin films. Journal of Polymer Research, 2012, 19, 1.	2.4	26
22	Lab-on-a-Chip With $\text{P(Vinylidene Fluoride)}$ Based Acoustic Microagitation. IEEE Transactions on Biomedical Engineering, 2010, 57, 1184-1190.	4.2	25
23	On-chip array of thermoelectric Peltier microcoolers. Sensors and Actuators A: Physical, 2008, 145-146, 75-80.	4.1	24
24	Polypropylene-Carbon Nanofiber Composites as Strain-Gauge Sensor. IEEE Sensors Journal, 2013, 13, 2603-2609.	4.7	24
25	CMOS X-rays detector array based on scintillating light guides. Sensors and Actuators A: Physical, 2004, 110, 119-123.	4.1	22
26	Digitally-controlled array of solid-state microcoolers for use in surgery. Microsystem Technologies, 2011, 17, 1283-1291.	2.0	22
27	Gd $2\text{O}_3$ :Eu Nanoparticle-Based Poly(vinylidene fluoride) Composites for Indirect X-ray Detection. Journal of Electronic Materials, 2015, 44, 129-135.	2.2	22
28	Piezoelectric coaxial filaments produced by coextrusion of poly(vinylidene fluoride) and electrically conductive inner and outer layers. Journal of Applied Polymer Science, 2014, 131, .	2.6	21
29	3 Axis Capacitive Tactile Sensor and Readout Electronics. , 2006, , .		18
30	A high-performance scintillator-silicon-well X-ray microdetector based on DRIE techniques. Sensors and Actuators A: Physical, 2001, 92, 203-207.	4.1	15
31	X-Ray Image Detector Based on Light Guides and Scintillators. IEEE Sensors Journal, 2009, 9, 1154-1159.	4.7	15
32	Review on X-ray Detectors Based on Scintillators and CMOS Technology. Recent Patents on Electrical Engineering, 2011, 4, 16-41.	0.4	15
33	Effect of deposition conditions and dielectric plasma treatments on the electrical properties of microcrystalline silicon TFTs. Thin Solid Films, 2003, 427, 67-70.	1.8	13
34	Stability of the electroactive response of $\text{P(Vinylidene fluoride)}$ for applications in the petrochemical industry. Polymer Testing, 2010, 29, 613-615.	4.8	13
35	X-ray detector based on a bulk micromachined photodiode combined with a scintillating crystal. Journal of Micromechanics and Microengineering, 2003, 13, S45-S50.	2.6	12
36	Comparative finite element analyses of piezoelectric ceramics and polymers at high frequency for underwater wireless communications. Procedia Engineering, 2010, 5, 99-102.	1.2	12

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37	Piezoresistive sensors for force mapping of hip-prostheses. Sensors and Actuators A: Physical, 2013, 195, 133-138.	4.1	10
38	Pixel Readout Circuit for X-Ray Imagers. IEEE Sensors Journal, 2010, 10, 1740-1745.	4.7	9
39	Piezoresistive polypropylene-carbon nanofiber composites as mechanical transducers. Microsystem Technologies, 2012, 18, 591-597.	2.0	9
40	System providing discomfort monitoring for people in wheelchairs. , 2008, , .		8
41	Touchscreen based on acoustic pulse recognition with piezoelectric polymer sensors. , 2010, , .		8
42	3 Axis Capacitive Tactile Sensor. , 2005, , .		7
43	CMOS X-ray Image Sensor Array. , 2007, , .		5
44	Sigma-delta A/D converter for CMOS image sensors. , 2009, , .		5
45	Bi2Te3-Sb2Te3 on polymeric substrate for X-ray detectors based on the seebeck effect. Microsystem Technologies, 2012, 18, 1-8.	2.0	5
46	Smart load cells: an industrial application. Sensors and Actuators A: Physical, 2000, 85, 262-266.	4.1	4
47	Comparison between bulk micromachined and CMOS X-ray detectors. Sensors and Actuators A: Physical, 2004, 115, 215-220.	4.1	4
48	A Tunable Fabry-Perot Optical Filter for Application in Biochemical Analysis of Human's Fluids. , 2006, , .		4
49	Monitoring system of discomfort in disability, bed rest people and surgical patients. , 2007, , .		4
50	Scheduling Algorithms to support QoS and Service Integration in Sensor and Actuator Networks. , 2006, , .		3
51	Piezoelectric &#x03B2;-PVDF polymer films as fluid acoustic microagitator. , 2008, , .		3
52	Heating of samples by acoustic microagitation for improving reaction of biological fluids. , 2010, , .		3
53	<title>Customized CMOS wavefront sensor</title>. , 2002, 4493, 88.		2
54	Liquid Flow Sensor Based on PVDF in its Beta Phase. , 2007, , .		2

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55	Smart-Optical Detector Array in CMOS for Absorbance Measurement of Physiological Fluids. , 2007, , .		2
56	Leak detection in water-distribution plastic pipes by spectral analysis of acoustic leak noise. , 2009, , .		2
57	Flexible x-ray detector based on the Seebeck effect. , 2009, , .		2
58	Piezoelectric micropump for lab-on-a-chip applications. , 2009, , .		2
59	Design and fabrication of piezoelectric microactuators based on poly (vinylidene fluoride) films for microfluidic applications. , 2010, 2010, 903-6.		2
60	Optical coupling between scintillators and standard CMOS detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2006, 556, 281-286.	1.6	1
61	Control of the Deposition Ratio of Bi <sub>2</sub> Te <sub>3</sub> and Sb <sub>2</sub> Te <sub>3</sub> in a Vacuum Evaporator for fabrication of Peltier Elements. , 2006, , .		1
62	SU-8 microfluidic mixer for use in lab-on-a-chip devices for biological fluids analyses. , 2006, , .		1
63	Smart-Pixel Array for Imaging Sensors. , 2007, , .		1
64	CMOS x-ray image sensor with pixel level A/D conversion. , 0, , .		0
65	A System Architecture for Low Bit Rate Traffic Aggregation in Control Applications. , 2006, , .		0
66	On-Chip Array of Thermoelectric Peltier Microcoolers. , 2007, , .		0
67	Flexible X-Ray Detector Based on the Seebeck Effect. , 2007, , .		0
68	Analysis and development of a localization system based on Radio Frequency. , 2008, , .		0
69	X-Ray CMOS detector array with scintillating light guides. , 2008, , .		0
70	Dilatometer for characterization of thermal expansion of ceramic samples. , 2009, , .		0
71	Piezoelectric sensor for acoustic wave detection in anisotropic systems. , 2009, , .		0
72	A system to manage the allocation of MSc Dissertations at University of Minho. , 2010, , .		0

#	ARTICLE	IF	CITATIONS
73	CMOS control and actuation system of piezoelectric transducers for pumping, mixing and heating microfluids in lab-on-a-chip devices. , 2013, , .		0
74	Design and Development of a Prototype Electrotherapy Device. Open Biomedical Engineering Journal, 2013, 7, 100-108.	0.5	0