

# 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 performance of BaTiO <sub>3</sub> /poly(vinylidene fluoride-trifluoroethylene) spin coated nanocomposites. <i>Composites Part B: Engineering</i> , 2015, 72, 130-136.	12.0	96
2	Degradation of all-inkjet-printed organic thin-film transistors with TIPS-pentacene under processes applied in textile manufacturing. <i>Organic Electronics</i> , 2015, 22, 12-19.	2.6	31
3	Gd <sub>2</sub> O <sub>3</sub> :Eu Nanoparticle-Based Poly(vinylidene fluoride) Composites for Indirect X-ray Detection. <i>Journal of Electronic Materials</i> , 2015, 44, 129-135.	2.2	22
4	Piezoelectric coaxial filaments produced by coextrusion of poly(vinylidene fluoride) and electrically conductive inner and outer layers. <i>Journal of Applied Polymer Science</i> , 2014, 131, .	2.6	21
5	A pilot external quality assurance study of transfusion screening for HIV, HCV and HBsAG in 12 African countries. <i>Vox Sanguinis</i> , 2014, 107, 333-342.	1.5	35
6	All-Inkjet-Printed Bottom-Gate Thin-Film Transistors Using UV Curable Dielectric for Well-Defined Source-Drain Electrodes. <i>Journal of Electronic Materials</i> , 2014, 43, 2631-2636.	2.2	33
7	Polypropylene-Carbon Nanofiber Composites as Strain-Gauge Sensor. <i>IEEE Sensors Journal</i> , 2013, 13, 2603-2609.	4.7	24
8	Piezoresistive sensors for force mapping of hip-prostheses. <i>Sensors and Actuators A: Physical</i> , 2013, 195, 133-138.	4.1	10
9	Energy harvesting performance of piezoelectric electrospun polymer fibers and polymer/ceramic composites. <i>Sensors and Actuators A: Physical</i> , 2013, 196, 55-62.	4.1	138
10	Evaluation of the main processing parameters influencing the performance of poly(vinylidene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 387 2013, 17, 861-870.	2.5	33
11	Development of inkjet printed strain sensors. <i>Smart Materials and Structures</i> , 2013, 22, 105028.	3.5	81
12	CMOS control and actuation system of piezoelectric transducers for pumping, mixing and heating microfluids in lab-on-a-chip devices. , 2013, , .		0
13	Design and Development of a Prototype Electrotherapy Device. <i>Open Biomedical Engineering Journal</i> , 2013, 7, 100-108.	0.5	0
14	Optimization of piezoelectric ultrasound emitter transducers for underwater communications. <i>Sensors and Actuators A: Physical</i> , 2012, 184, 141-148.	4.1	36
15	Enhanced proliferation of pre-osteoblastic cells by dynamic piezoelectric stimulation. <i>RSC Advances</i> , 2012, 2, 11504.	3.6	106
16	Piezoresistive effect in spin-coated polyaniline thin films. <i>Journal of Polymer Research</i> , 2012, 19, 1.	2.4	26
17	Piezoresistive polypropylene-carbon nanofiber composites as mechanical transducers. <i>Microsystem Technologies</i> , 2012, 18, 591-597.	2.0	9
18	Electromechanical performance of poly(vinylidene fluoride)/carbon nanotube composites for strain sensor applications. <i>Sensors and Actuators A: Physical</i> , 2012, 178, 10-16.	4.1	124

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19	Effect of degree of porosity on the properties of poly(vinylidene fluoride-trifluorethylene) for Li-ion battery separators. Journal of Membrane Science, 2012, 407-408, 193-201.	8.2	110
20	Bi <sub>2</sub> Te <sub>3</sub> -Sb <sub>2</sub> Te <sub>3</sub> on polymeric substrate for X-ray detectors based on the seebeck effect. Microsystem Technologies, 2012, 18, 1-8.	2.0	5
21	Review on X-ray Detectors Based on Scintillators and CMOS Technology. Recent Patents on Electrical Engineering, 2011, 4, 16-41.	0.4	15
22	Digitally-controlled array of solid-state microcoolers for use in surgery. Microsystem Technologies, 2011, 17, 1283-1291.	2.0	22
23	Piezoresistive silicon thin film sensor array for biomedical applications. Thin Solid Films, 2011, 519, 4574-4577.	1.8	30
24	Lab-on-a-Chip With <sup>12</sup> I-Poly(Vinylidene Fluoride) Based Acoustic Microagitation. IEEE Transactions on Biomedical Engineering, 2010, 57, 1184-1190.	4.2	25
25	<sup>1</sup> ±- and <sup>1</sup> ³-PVDF: Crystallization kinetics, microstructural variations and thermal behaviour. Materials Chemistry and Physics, 2010, 122, 87-92.	4.0	96
26	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
27	Stability of the electroactive response of <sup>12</sup> -poly(vinylidene fluoride) for applications in the petrochemical industry. Polymer Testing, 2010, 29, 613-615.	4.8	13
28	Pixel Readout Circuit for X-Ray Imagers. IEEE Sensors Journal, 2010, 10, 1740-1745.	4.7	9
29	Heating of samples by acoustic microagitation for improving reaction of biological fluids. , 2010, , .		3
30	Touchscreen based on acoustic pulse recognition with piezoelectric polymer sensors. , 2010, , .		8
31	Energy Harvesting From Piezoelectric Materials Fully Integrated in Footwear. IEEE Transactions on Industrial Electronics, 2010, 57, 813-819.	7.9	208
32	The piezoresistive effect in polypropylene-carbon nanofibre composites obtained by shear extrusion. Smart Materials and Structures, 2010, 19, 065013.	3.5	52
33	Design and fabrication of piezoelectric microactuators based on poly (vinylidene fluoride) films for microfluidic applications. , 2010, 2010, 903-6.		2
34	A system to manage the allocation of MSc Dissertations at University of Minho. , 2010, , .		0
35	Leak detection in water-distribution plastic pipes by spectral analysis of acoustic leak noise. , 2009, , .		2
36	Flexible x-ray detector based on the Seebeck effect. , 2009, , .		2

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37	Dilatometer for characterization of thermal expansion of ceramic samples. , 2009, , .		0
38	Piezoelectric sensor for acoustic wave detection in anisotropic systems. , 2009, , .		0
39	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
40	X-Ray Image Detector Based on Light Guides and Scintillators. IEEE Sensors Journal, 2009, 9, 1154-1159.	4.7	15
41	Sigma-delta A/D converter for CMOS image sensors. , 2009, , .		5
42	Piezoelectric micropump for lab-on-a-chip applications. , 2009, , .		2
43	On-chip array of thermoelectric Peltier microcoolers. Sensors and Actuators A: Physical, 2008, 145-146, 75-80.	4.1	24
44	Relationship between processing conditions, defects and thermal degradation of poly(vinylidene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 4	3.1	110
45	Microscopic origin of the high-strain mechanical response of poled and non-poled poly(vinylidene) Tj ETQq1 1 0.784314 rgBT /Overlock 29	3.1	29
46	Smart-Optical Detector CMOS Array for Biochemical Parameters Analysis in Physiological Fluids. IEEE Transactions on Industrial Electronics, 2008, 55, 3192-3200.	7.9	30
47	Piezoelectric &#x03B2;-PVDF polymer films as fluid acoustic microagitator. , 2008, , .		3
48	System providing discomfort monitoring for people in wheelchairs. , 2008, , .		8
49	Analysis and development of a localization system based on Radio Frequency. , 2008, , .		0
50	X-Ray CMOS detector array with scintillating light guides. , 2008, , .		0
51	Liquid Flow Sensor Based on PVDF in its Beta Phase. , 2007, , .		2
52	CMOS X-ray Image Sensor Array. , 2007, , .		5
53	Smart-Optical Detector Array in CMOS for Absorbance Measurement of Physiological Fluids. , 2007, , .		2
54	Monitoring system of discomfort in disability, bed rest people and surgical patients. , 2007, , .		4

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55	On-Chip Array of Thermoelectric Peltier Microcoolers. , 2007, , .		0
56	Flexible X-Ray Detector Based on the Seebeck Effect. , 2007, , .		0
57	Fabrication of flexible thermoelectric microcoolers using planar thin-film technologies. Journal of Micromechanics and Microengineering, 2007, 17, S168-S173.	2.6	77
58	Smart-Pixel Array for Imaging Sensors. , 2007, , .		1
59	3 Axis Capacitive Tactile Sensor and Readout Electronics. , 2006, , .		18
60	A Tunable Fabry-Perot Optical Filter for Application in Biochemical Analysis of Human's Fluids. , 2006, , .		4
61	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
62	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
63	Scheduling Algorithms to support QoS and Service Integration in Sensor and Actuator Networks. , 2006, , .		3
64	A System Architecture for Low Bit Rate Traffic Aggregation in Control Applications. , 2006, , .		0
65	SU-8 microfluidic mixer for use in lab-on-a-chip devices for biological fluids analyses. , 2006, , .		1
66	3 Axis Capacitive Tactile Sensor. , 2005, , .		7
67	CMOS X-rays detector array based on scintillating light guides. Sensors and Actuators A: Physical, 2004, 110, 119-123.	4.1	22
68	Comparison between bulk micromachined and CMOS X-ray detectors. Sensors and Actuators A: Physical, 2004, 115, 215-220.	4.1	4
69	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
70	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
71	<title>Customized CMOS wavefront sensor</title>. , 2002, 4493, 88.		2
72	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

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73	Smart load cells: an industrial application. Sensors and Actuators A: Physical, 2000, 85, 262-266.	4.1	4
74	CMOS x-ray image sensor with pixel level A/D conversion. , 0, , .		0