Pedro Faia

List of Publications by Year
in descending order

		623734	526287
41	768	14	27
papers	citations	h-index	g-index

41	41	41	883
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Humidity sensing properties of a thick-film titania prepared by a slow spinning process. Sensors and Actuators B: Chemical, 2004, 101, 183-190.	7.8	121
2	AC impedance spectroscopy: a new equivalent circuit for titania thick film humidity sensors. Sensors and Actuators B: Chemical, 2005, 107, 353-359.	7.8	90
3	Soft Bioelectronic Stickers: Selection and Evaluation of Skinâ€Interfacing Electrodes. Advanced Healthcare Materials, 2019, 8, e1900234.	7.6	77
4	TiO2:WO3 composite humidity sensors doped with ZnO and CuO investigated by impedance spectroscopy. Sensors and Actuators B: Chemical, 2014, 203, 340-348.	7.8	50
5	Settling Suspensions Flow Modelling: A Review. KONA Powder and Particle Journal, 2015, 32, 41-56.	1.7	40
6	Effect of composition on electrical response to humidity of TiO2:ZnO sensors investigated by impedance spectroscopy. Sensors and Actuators B: Chemical, 2013, 181, 720-729.	7.8	39
7	TiO2/ZnO hierarchical heteronanostructures: Synthesis, characterization and application as photocatalysts. Journal of Environmental Chemical Engineering, 2016, 4, 2820-2829.	6.7	37
8	Electrical Tomography: a review of Configurations and Applications to Particulate Processes. KONA Powder and Particle Journal, 2011, 29, 67-80.	1.7	35
9	Establishing and interpreting an electrical circuit representing a TiO2â€“WO3 series of humidity thick film sensors. Sensors and Actuators B: Chemical, 2009, 140, 128-133.	7.8	33
10	Effect of V2O5 doping on p- to n-conduction type transition of TiO2:WO3 composite humidity sensors. Sensors and Actuators B: Chemical, 2016, 222, 952-964.	7.8	30
11	Hybrid ZnO/TiO‹sub›2‹/sub›Loaded in Electrospun Polymeric Fibers as Photocatalyst. Journal of Chemistry, 2015, 2015, 1-10.	1.9	25
12	Particle Distribution Studies in Highly Concentrated Solid-liquid Flows in Pipe Using the Mixture Model. Procedia Engineering, 2015, 102, 1016-1025.	1.2	22
13	Characterization of solidâ€“liquid settling suspensions using Electrical Impedance Tomography: A comparison between numerical, experimental and visual information. Chemical Engineering Research and Design, 2016, 111, 223-242.	5.6	20
14	Imaging Particulate Two-Phase Flow in Liquid Suspensions with Electric Impedance Tomography. Particulate Science and Technology, 2012, 30, 329-342.	2.1	16
15	Response to humidity of ‹mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si6.gif" overflow="scroll"›‹mml:mrow›‹mml:mi mathvariant="bold"›T‹/mml:mi›‹mml:mi mathvariant="normal"›i‹/mml:mi›‹mml:msub›‹mml:mi mathvariant="normal"›O‹/mml:mi›‹mml:mrow›‹mml:mn›2‹/mml:mn›‹/mml:mrow›‹/mml:msub›‹mml:mo›:‹/mml:mo›‹mml:mi mathvariant="normal"›W‹/mml:mi›‹mml:msub›‹mml:mi mathvariant="normal"›O‹/mml:mi›‹mml:mrow›‹mml:mn›3‹/mml:mn›‹/mml:mrow›‹/mml:msub›‹/mml:mrow›‹/mml:math›	7.8	16
16	Application of Different Low-Reynolds k-É› Turbulence Models to Model the Flow of Concentrated Pulp Suspensions in Pipes. Procedia Engineering, 2015, 102, 1326-1335.	1.2	14
17	Humidity-sensing properties of hierarchical TiO2:ZnO composite grown on electrospun fibers. Journal of Materials Science: Materials in Electronics, 2017, 28, 16575-16583.	2.2	13
18	Electrical Tomography: A Review of Configurations, and Application to Fibre Flow Suspensions Characterisation. Applied Sciences (Switzerland), 2020, 10, 2355.	2.5	13

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19	Ultrasonic Guided Waves Scattering Effects From Defects in Adhesively Bonded Lap Joints Using Pitch and Catch and Pulse-Echo Techniques. Journal of Adhesion, 2008, 84, 421-438.	3.0	12
20	Evaluating the Performance of the Mixture Model Coupled with High and Low Reynolds Turbulence Closures in the Numerical Description of Concentrated Solid-Liquid Flows of Settling Particles. Journal of Computational Multiphase Flows, 2015, 7, 241-257.	0.8	10
21	Propagation of Ultrasonic Lamb Waves in Aluminium Adhesively Bonded LAP Joints and in Single Plates. Research in Nondestructive Evaluation, 2009, 20, 178-191.	1.1	6
22	CFD simulation of a turbulent fiber suspension flow â€“ a modified near-wall treatment. Engineering Applications of Computational Fluid Mechanics, 2015, 9, 233-246.	3.1	6
23	Zn2+-Doped TiO2:WO3 Films Prepared by Electrospinning and Sintering: Microstructural Characterization and Electrical Signature to Moisture Sensing. Ceramics, 2021, 4, 576-591.	2.6	6
24	Hierarchical architecture for multi-sensor robot cell operation. , 0, , .		5
25	Experimental Study and Computational Fluid Dynamics Modeling of Pulp Suspensions Flow in a Pipe. Journal of Fluids Engineering, Transactions of the ASME, 2017, 139, .	1.5	5
26	Development and control issues in contact and proximity sensing for a robotic system. , 0, , .		3
27	Sensor-based 3-D autonomous surface-following control. Mathematics and Computers in Simulation, 1996, 41, 429-444.	4.4	3
28	Preparation, Characterization, and Evaluation of Humidity-Dependent Electrical Properties of Undoped and Niobium Oxide-Doped TiO2Â:ÂWO3 Mixed Powders. Advances in Materials Science and Engineering, 2017, 2017, 1-9.	1.8	3
29	Humidity sensing properties of thin silicon-tin films prepared by magnetron sputtering. Sensors and Actuators B: Chemical, 2020, 321, 128554.	7.8	3
30	Tailoring thin mesoporous silicon-tin films by radio-frequency magnetron sputtering. Thin Solid Films, 2020, 704, 137989.	1.8	3
31	Electrochemical Characterization of Novel Polyantimonic-Acid-Based Proton Conductors for Low- and Intermediate-Temperature Fuel Cells. Applied Sciences (Switzerland), 2021, 11, 11877.	2.5	3
32	Investigations on Humidity Sensing Properties of Thick Films of the TiO₂:WO₃ System. Materials Science Forum, 2010, 636-637, 307-314.	0.3	2
33	MODELING SOLID-LIQUID HOMOGENEOUS TURBULENT FLOW OF NEUTRALLY BUOYANT PARTICLES USING THE MIXTURE MODEL: A STUDY OF LENGTH SCALES AND CLOSURE COEFFICIENTS. Multiphase Science and Technology, 2014, 26, 199-227.	0.5	2
34	Effect of ÂNb5+Âand In3+Â Ions on Moisture Sensitivity of Electrospun Titanium/Tungsten Oxide Nanostructures: Microstructural Characterization and Electrical Response. Processes, 2021, 9, 1336.	2.8	2
35	A comparative study of magnetic resonance imaging, electrical impedance tomography and ultrasonic doppler velocimetry for semi-dilute fibre flow suspension characterisation. International Journal of Computational Methods and Experimental Measurements, 2016, 4, 165-175.	0.2	2
36	Humidity ITO Thick Film Sensing Behaviour Investigated by Impedance Spectroscopy. Materials Science Forum, 0, 636-637, 315-324.	0.3	1

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37	On The Integration Of Robot End-Effector Sensors: Control And Modelling Issues. , 1992, , .		0
38	Porosity Influence on SnO₂ Ceramics' Sensitivity to CO. Key Engineering Materials, 2002, 230-232, 420-423.	0.4	0
39	Model of TiO₂-ZnO Composite Sensors by Impedance Spectroscopy. Materials Science Forum, 2012, 730-732, 367-372.	0.3	0
40	Integrating force, tactile and proximity sensing for a flexible robotic system through a modular design. , 1991, , 247-255.		0
41	Computational Fluid Dynamic Modelling of Fully-Suspended Slurry Flows in Horizontal Pipes with Different Solids Concentrations. KONA Powder and Particle Journal, 2023, 40, 219-235.	1.7	0