Olusegun Ilegbusi

List of Publications by Year in descending order

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933447 794594 32 382 10 19 citations g-index h-index papers 32 32 32 346 docs citations times ranked citing authors all docs

#	Article	IF	Citations
1	A computational model of upper airway respiratory function with muscular coupling. Computer Methods in Biomechanics and Biomedical Engineering, 2022, 25, 675-687.	1.6	1
2	Segmentation and Pore Structure Estimation in SEM Images of Tissue Engineering Scaffolds Using Genetic Algorithm. Annals of Biomedical Engineering, 2021, 49, 1033-1045.	2.5	6
3	Dynamics of cough and particulate behaviour in the human airway. Mathematical and Computer Modelling of Dynamical Systems, 2021, 27, 222-245.	2.2	2
4	Chemical modification of impregnated SnO2-In2O3 nanocomposites due to interaction of sensor components. Journal of Alloys and Compounds, 2021, 883, 160817.	5.5	16
5	Comments on the article "Calculation of the electric potential and surface oxygen ion density for planar and spherical metal oxide grains by numerical solution of the Poisson equation coupled with Boltzmann and Fermi-Dirac statistics―(Sensors and Actuators B: Chemical, 293 (2019) 31–40). Sensors and Actuators B: Chemical, 2020, 302, 126986.	7.8	1
6	Effect of Mold Geometry on Pore Size in Freeze-Cast Chitosan-Alginate Scaffolds for Tissue Engineering. Annals of Biomedical Engineering, 2020, 48, 1090-1102.	2.5	15
7	Structure and gas-sensing properties of SnO2-ln2O3 nanocomposites synthesized by impregnation method. Sensors and Actuators B: Chemical, 2020, 320, 128406.	7.8	21
8	Modeling of sensor properties for reducing gases and charge distribution in nanostructured oxides: A comparison of theory with experimental data. Sensors and Actuators B: Chemical, 2019, 287, 218-224.	7.8	14
9	Peculiarities of molecule photodissociation under influence of ultrashort electromagnetic pulses: Nonlinear dependence of probability on pulse duration. Journal of Photochemistry and Photobiology A: Chemistry, 2019, 371, 76-80.	3.9	3
10	Effect of interaction between components of In2O3-CeO2 and SnO2-CeO2 nanocomposites on structure and sensing properties. Sensors and Actuators B: Chemical, 2019, 279, 22-30.	7.8	30
11	Effect of gravity on subject-specific human lung deformation. Mathematical and Computer Modelling of Dynamical Systems, 2018, 24, 87-101.	2.2	6
12	Computational Modelling of Cough Function and Airway Penetrant Behavior in Patients with Disorders of Laryngeal Function. Laryngoscope Investigative Otolaryngology, 2017, 2, 23-29.	1.5	4
13	The mechanisms of sensory phenomena in binary metal-oxide nanocomposites. Sensors and Actuators B: Chemical, 2017, 240, 613-624.	7.8	49
14	Absorption of Ultrashort Electromagnetic Pulses by ITO Nanoparticles. Journal of Physical Chemistry C, 2017, 121, 28581-28586.	3.1	4
15	Mathematical modelling of tongue deformation during swallow in patients with head and neck cancer. Mathematical and Computer Modelling of Dynamical Systems, 2016, 22, 569-583.	2.2	2
16	A Biomechanical Model of Human Lung Deformation Utilizing Patient-Specific Elastic Property. Journal of Cancer Therapy, 2016, 07, 402-415.	0.4	10
17	Modelling evaporation and chemical reaction in a multi-component droplet from spray pyrolysis synthesis of mixed metal-oxide nanocomposite films. International Journal of Mathematical Modelling and Numerical Optimisation, 2015, 6, 141.	0.2	2
18	Analytic Intermodel Consistent Modeling of Volumetric Human Lung Dynamics. Journal of Biomechanical Engineering, 2015, 137, 101005.	1.3	3

#	Article	IF	CITATIONS
19	Effect of composition and temperature on conductive and sensing properties of CeO2+ln2O3 nanocomposite films. Sensors and Actuators B: Chemical, 2015, 209, 562-569.	7.8	35
20	Effect of Composition and Morphology on Sensor Properties of Aerosol Deposited Nanostructured ZnO+ln ₂ O ₃ Films. Materials Sciences and Applications, 2015, 06, 220-227.	0.4	1
21	Patient-specific model of lung deformation using spatially dependent constitutive parameters. Mathematical and Computer Modelling of Dynamical Systems, 2014, 20, 546-556.	2.2	8
22	Synthesis and Conductometric Property of Sol-Gel-Derived ZnO/PVP Nano Hybrid Films. Journal of Materials Engineering and Performance, 2013, 22, 911-915.	2.5	10
23	Modeling of aerosol spray characteristics for synthesis of sensor thin film from solution. Applied Mathematical Modelling, 2013, 37, 6389-6399.	4.2	9
24	Conductivity and sensing properties of In2O3+ZnO mixed nanostructured films: Effect of composition and temperature. Sensors and Actuators B: Chemical, 2013, 187, 514-521.	7.8	41
25	Characterization of Metal Oxide Sensor Thin Films Deposited by Spray Pyrolysis. , 2013, , .		3
26	Modeling Airflow Using Subject-Specific 4DCT-Based Deformable Volumetric Lung Models. International Journal of Biomedical Imaging, 2012, 2012, 1-10.	3.9	9
27	Effect of composition on sensing properties of SnO2+In2O3 mixed nanostructured films. Sensors and Actuators B: Chemical, 2012, 169, 32-38.	7.8	55
28	Experimental Study of Thermal and Flame Front Characteristics in Combustion Synthesis of Porous Ni-Ti Intermetallic Material. Journal of Materials Engineering and Performance, 2012, 21, 1193-1198.	2.5	3
29	Modeling Reaction Front Propagation and Porosity in Pressure-Assisted Combustion Synthesis of Porous NiTi Intermetallics. Journal of Materials Engineering and Performance, 2012, 21, 298-307.	2.5	6
30	Computational fluid dynamics modeling of airflow inside lungs using heterogenous anisotropic lung tissue elastic properties. Studies in Health Technology and Informatics, 2012, 173, 205-11.	0.3	0
31	Biocompatibility and Conductometric Property of Sol-Gel Derived ZnO/PVP Nanocomposite Biosensor Film. Journal of Bionic Engineering, 2010, 7, S30-S35.	5.0	13
32	Synthesis and Characterisation Of Sol–gel Derived Nanostructured Composite of ZnO/PVP Thin Films. Surface Engineering, 2004, 20, 373-378.	2.2	0