

Olusegun Ilegbusi

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Effect of composition on sensing properties of SnO ₂ +In ₂ O ₃ mixed nanostructured films. Sensors and Actuators B: Chemical, 2012, 169, 32-38.	7.8	55
2	The mechanisms of sensory phenomena in binary metal-oxide nanocomposites. Sensors and Actuators B: Chemical, 2017, 240, 613-624.	7.8	49
3	Conductivity and sensing properties of In ₂ O ₃ +ZnO mixed nanostructured films: Effect of composition and temperature. Sensors and Actuators B: Chemical, 2013, 187, 514-521.	7.8	41
4	Effect of composition and temperature on conductive and sensing properties of CeO ₂ +In ₂ O ₃ nanocomposite films. Sensors and Actuators B: Chemical, 2015, 209, 562-569.	7.8	35
5	Effect of interaction between components of In ₂ O ₃ -CeO ₂ and SnO ₂ -CeO ₂ nanocomposites on structure and sensing properties. Sensors and Actuators B: Chemical, 2019, 279, 22-30.	7.8	30
6	Structure and gas-sensing properties of SnO ₂ -In ₂ O ₃ nanocomposites synthesized by impregnation method. Sensors and Actuators B: Chemical, 2020, 320, 128406.	7.8	21
7	Chemical modification of impregnated SnO ₂ -In ₂ O ₃ nanocomposites due to interaction of sensor components. Journal of Alloys and Compounds, 2021, 883, 160817.	5.5	16
8	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
9	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
10	Biocompatibility and Conductometric Property of Sol-Gel Derived ZnO/PVP Nanocomposite Biosensor Film. Journal of Bionic Engineering, 2010, 7, S30-S35.	5.0	13
11	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
12	A Biomechanical Model of Human Lung Deformation Utilizing Patient-Specific Elastic Property. Journal of Cancer Therapy, 2016, 07, 402-415.	0.4	10
13	Modeling Airflow Using Subject-Specific 4DCT-Based Deformable Volumetric Lung Models. International Journal of Biomedical Imaging, 2012, 2012, 1-10.	3.9	9
14	Modeling of aerosol spray characteristics for synthesis of sensor thin film from solution. Applied Mathematical Modelling, 2013, 37, 6389-6399.	4.2	9
15	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
16	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
17	Effect of gravity on subject-specific human lung deformation. Mathematical and Computer Modelling of Dynamical Systems, 2018, 24, 87-101.	2.2	6
18	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

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19	Computational Modelling of Cough Function and Airway Penetrant Behavior in Patients with Disorders of Laryngeal Function. <i>Laryngoscope Investigative Otolaryngology</i> , 2017, 2, 23-29.	1.5	4
20	Absorption of Ultrashort Electromagnetic Pulses by ITO Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2017, 121, 28581-28586.	3.1	4
21	Experimental Study of Thermal and Flame Front Characteristics in Combustion Synthesis of Porous Ni-Ti Intermetallic Material. <i>Journal of Materials Engineering and Performance</i> , 2012, 21, 1193-1198.	2.5	3
22	Characterization of Metal Oxide Sensor Thin Films Deposited by Spray Pyrolysis. , 2013, , .		3
23	Analytic Intermodel Consistent Modeling of Volumetric Human Lung Dynamics. <i>Journal of Biomechanical Engineering</i> , 2015, 137, 101005.	1.3	3
24	Peculiarities of molecule photodissociation under influence of ultrashort electromagnetic pulses: Nonlinear dependence of probability on pulse duration. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2019, 371, 76-80.	3.9	3
25	Modelling evaporation and chemical reaction in a multi-component droplet from spray pyrolysis synthesis of mixed metal-oxide nanocomposite films. <i>International Journal of Mathematical Modelling and Numerical Optimisation</i> , 2015, 6, 141.	0.2	2
26	Mathematical modelling of tongue deformation during swallow in patients with head and neck cancer. <i>Mathematical and Computer Modelling of Dynamical Systems</i> , 2016, 22, 569-583.	2.2	2
27	Dynamics of cough and particulate behaviour in the human airway. <i>Mathematical and Computer Modelling of Dynamical Systems</i> , 2021, 27, 222-245.	2.2	2
28	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). <i>Sensors and Actuators B: Chemical</i> , 2020, 302, 126986.	7.8	1
29	A computational model of upper airway respiratory function with muscular coupling. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2022, 25, 675-687.	1.6	1
30	Effect of Composition and Morphology on Sensor Properties of Aerosol Deposited Nanostructured ZnO+In₂O₃ Films. <i>Materials Sciences and Applications</i> , 2015, 06, 220-227.	0.4	1
31	Synthesis and Characterisation Of Sol-gel Derived Nanostructured Composite of ZnO/PVP Thin Films. <i>Surface Engineering</i> , 2004, 20, 373-378.	2.2	0
32	Computational fluid dynamics modeling of airflow inside lungs using heterogenous anisotropic lung tissue elastic properties. <i>Studies in Health Technology and Informatics</i> , 2012, 173, 205-11.	0.3	0