

# Ofodike A Ezekoye

## List of Publications by Citations

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120  
papers

1,818  
citations

24  
h-index

37  
g-index

155  
ext. papers

2,155  
ext. citations

3.8  
avg, IF

5.19  
L-index

#	Paper	IF	Citations
120	Comparative pyrolysis behaviors and reaction mechanisms of hardwood and softwood. <i>Energy Conversion and Management</i> , <b>2017</b> , 132, 102-109	10.6	87
119	Thermal degradation of beech wood with thermogravimetry/Fourier transform infrared analysis. <i>Energy Conversion and Management</i> , <b>2016</b> , 120, 370-377	10.6	83
118	Kinetic and fuel property effects on forward smoldering combustion. <i>Combustion and Flame</i> , <b>2000</b> , 120, 346-358	5.3	72
117	Effects of thermal boundary conditions on flame shape and quenching in ducts. <i>Combustion and Flame</i> , <b>1998</b> , 112, 73-84	5.3	69
116	Application of the weighted-sum-of-gray-gases model for media composed of arbitrary concentrations of H <sub>2</sub> O, CO <sub>2</sub> and soot. <i>International Journal of Heat and Mass Transfer</i> , <b>2014</b> , 79, 796-806	4.9	63
115	The effect of chemical reaction kinetic parameters on the bench-scale pyrolysis of lignocellulosic biomass. <i>Fuel</i> , <b>2018</b> , 232, 147-153	7.1	61
114	Combustion and heat transfer in model two-dimensional porous burners. <i>Combustion and Flame</i> , <b>1999</b> , 116, 177-191	5.3	58
113	Inverse Boundary Design Combining Radiation and Convection Heat Transfer. <i>Journal of Heat Transfer</i> , <b>2001</b> , 123, 884-891	1.8	52
112	Inverse Design Model for Radiative Heat Transfer. <i>Journal of Heat Transfer</i> , <b>2000</b> , 122, 492-502	1.8	50
111	Explosion hazards from lithium-ion battery vent gas. <i>Journal of Power Sources</i> , <b>2020</b> , 446, 227257	8.9	50
110	Comparison of three regularized solution techniques in a three-dimensional inverse radiation problem. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , <b>2002</b> , 73, 307-316	2.1	48
109	Experimental and numerical simulation of multi-component combustion of typical charring material. <i>Combustion and Flame</i> , <b>2020</b> , 211, 417-429	5.3	48
108	Smart Manufacturing Approach for Efficient Operation of Industrial Steam-Methane Reformers. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2015</b> , 54, 4360-4370	3.9	41
107	The Application of an Inverse Formulation in the Design of Boundary Conditions for Transient Radiating Enclosures. <i>Journal of Heat Transfer</i> , <b>2002</b> , 124, 1095-1102	1.8	39
106	Polymer weld strength predictions using a thermal and polymer chain diffusion analysis. <i>Polymer Engineering and Science</i> , <b>1998</b> , 38, 976-991	2.3	38
105	Evaluation of the 1-point quadrature approximation in QMOM for combined aerosol growth laws. <i>Journal of Aerosol Science</i> , <b>2003</b> , 34, 1665-1683	4.3	38
104	Characterizing Heat Release Rates Using an Inverse Fire Modeling Technique. <i>Fire Technology</i> , <b>2012</b> , 48, 893-909	3	34

103	Characterization of Fuel Properties and Fire Spread Rates for Little Bluestem Grass. <i>Fire Technology</i> , <b>2014</b> , 50, 9-38	3	29
102	Thermoplastic Polyurethane Elastomer Nanocomposites: Morphology, Thermophysical, and Flammability Properties. <i>Journal of Nanomaterials</i> , <b>2010</b> , 2010, 1-11	3.2	28
101	Population-based models of thermoplastic degradation: Using optimization to determine model parameters. <i>Polymer Degradation and Stability</i> , <b>2009</b> , 94, 1013-1022	4.7	27
100	Development of a multi-objective optimization tool for selecting thermal insulation materials in sustainable designs. <i>Energy and Buildings</i> , <b>2015</b> , 105, 358-367	7	26
99	Kinetics and Thermophysical Properties of Polymer Nanocomposites for Solid Rocket Motor Insulation. <i>Journal of Spacecraft and Rockets</i> , <b>2009</b> , 46, 526-544	1.5	26
98	Evaluation of gas radiation heat transfer in a 2D axisymmetric geometry using the line-by-line integration and WSGG models. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , <b>2015</b> , 156, 1-11	2.1	25
97	Soot oxidation and agglomeration modeling in a microgravity diffusion flame. <i>Combustion and Flame</i> , <b>1997</b> , 110, 127-139	5.3	24
96	Treatment of size-dependent aerosol transport processes using quadrature based moment methods. <i>Journal of Aerosol Science</i> , <b>2006</b> , 37, 799-819	4.3	24
95	Flammability Studies of a Novel Class of Thermoplastic Elastomer Nanocomposites. <i>Journal of Fire Sciences</i> , <b>2010</b> , 28, 49-85	1.5	22
94	A Review of Numerical and Experimental Characterization of Thermal Protection Materials Part II: Properties Characterization <b>2007</b> ,		21
93	Simulation of acoustic agglomeration processes using a sectional algorithm. <i>Journal of Aerosol Science</i> , <b>1999</b> , 30, 1117-1138	4.3	21
92	An in-situ ablation recession sensor for carbon/carbon ablatives based on commercial ultra-miniature thermocouples. <i>Sensors and Actuators B: Chemical</i> , <b>2014</b> , 196, 46-56	8.5	20
91	Assessing the effect of molecular weight on the kinetics of backbone scission reactions in polyethylene using Reactive Molecular Dynamics. <i>Polymer</i> , <b>2011</b> , 52, 3104-3111	3.9	20
90	Mixing characteristics in strongly forced non-premixed methane jet flames. <i>Proceedings of the Combustion Institute</i> , <b>2007</b> , 31, 1617-1624	5.9	20
89	Treatment of design fire uncertainty using Quadrature Method of Moments. <i>Fire Safety Journal</i> , <b>2008</b> , 43, 127-139	3.3	20
88	Characteristics of strongly-forced turbulent jets and non-premixed jet flames. <i>Experiments in Fluids</i> , <b>2006</b> , 41, 523-542	2.5	20
87	Stability analysis for three-dimensional Rayleigh-Bénard convection with radiatively participating medium using spectral methods. <i>International Journal of Heat and Mass Transfer</i> , <b>2003</b> , 46, 1371-1383	4.9	19
86	Thermo-mechanical modeling of firebrand breakage on a fractal tree. <i>Proceedings of the Combustion Institute</i> , <b>2013</b> , 34, 2649-2656	5.9	18

85	Ventilation limited extinction of fires in ceiling vented compartments. <i>International Journal of Heat and Mass Transfer</i> , <b>2015</b> , 91, 570-583	4.9	17
84	Development of a hybrid sectional quadrature-based moment method for solving population balance equations. <i>Journal of Aerosol Science</i> , <b>2012</b> , 54, 88-102	4.3	17
83	Inverse design of thermal systems with dominant radiative transfer. <i>Advances in Heat Transfer</i> , <b>2003</b> , 36, 1-110	1.9	16
82	Voltage, and Energy Deposition Characteristics of Spark Ignition Systems <b>2005</b> ,		16
81	Quantitative Testing of Fire Scenario Hypotheses: A Bayesian Inference Approach. <i>Fire Technology</i> , <b>2015</b> , 51, 335-367	3	15
80	Development of kinetic parameters for polyurethane thermal degradation modeling featuring a bioinspired catecholic flame retardant. <i>Combustion and Flame</i> , <b>2017</b> , 177, 184-192	5.3	14
79	Uncertainty quantification of a graphite nitridation experiment using a Bayesian approach. <i>Experimental Thermal and Fluid Science</i> , <b>2011</b> , 35, 1588-1599	3	14
78	A Review of Numerical and Experimental Characterization of Thermal Protection Materials: Part III - Material Testing <b>2007</b> ,		14
77	Energy-Oriented Modeling and Optimization of a Heat Treating Furnace. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , <b>2017</b> , 139,	1.6	13
76	Mixing characteristics and emissions of strongly-forced non-premixed and partially-premixed jet flames in crossflow. <i>Combustion and Flame</i> , <b>2012</b> , 159, 707-721	5.3	13
75	Steady-State Ablation Model Coupling with Hypersonic Flow <b>2010</b> ,		13
74	Pulsed flow modulation of soot production in a laminar jet-diffusion flame. <i>Proceedings of the Combustion Institute</i> , <b>2005</b> , 30, 1485-1492	5.9	13
73	Experimental and Analytical Characterization of Firebrand Ignition of Home Insulation Materials. <i>Fire Technology</i> , <b>2019</b> , 55, 1027-1056	3	11
72	Convection, pyrolysis, and Damköhler number effects on extinction of reverse smoldering combustion. <i>Proceedings of the Combustion Institute</i> , <b>1998</b> , 27, 2873-2880		11
71	Modeling of Thermal Runaway Propagation in a Pouch Cell Stack. <i>Fire Technology</i> , <b>2020</b> , 56, 2441-2466	3	10
70	Effects of Leakage in Simulations of Positive Pressure Ventilation. <i>Fire Technology</i> , <b>2009</b> , 45, 257-286	3	10
69	Fire behavior and heat fluxes for lab-scale burning of little bluestem grass. <i>Fire Safety Journal</i> , <b>2014</b> , 67, 70-81	3.3	9
68	Heating Rate and Nanoparticle Loading Effects on Thermoplastic Polyurethane Elastomer Nanocomposite Kinetics <b>2009</b> ,		9

67	Validation of inverse boundary condition design in a thermometry test bed. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , <b>2008</b> , 109, 317-326	2.1	9
66	Boundary Condition Design to Heat a Moving Object at Uniform Transient Temperature Using Inverse Formulation. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , <b>2004</b> , 126, 619-626	3.3	9
65	Condensation of Fuel on Combustion Chamber Surfaces as a Mechanism for Increased HC Emissions from SI Engines During Cold Start <b>1997</b> ,		8
64	Gas release rates and properties from Lithium Cobalt Oxide lithium ion battery arrays. <i>Journal of Power Sources</i> , <b>2021</b> , 487, 229388	8.9	8
63	Computational Modeling and Validation of Aerosol Deposition in Ventilation Ducts. <i>Fire Technology</i> , <b>2016</b> , 52, 149-166	3	7
62	Characterization of Thermally Induced Runaway in Pouch Cells for Propagation. <i>Fire Technology</i> , <b>2020</b> , 56, 2467-2490	3	7
61	Thermoplastic Polyurethane Elastomer Nanocomposite Ablatives: Characterization and Performance <b>2011</b> ,		7
60	Heat transfer consequences of condensation during premixed flame quenching. <i>Combustion and Flame</i> , <b>1998</b> , 112, 266-269	5.3	7
59	Band-integrated infrared absorptance of low-molecular-weight paraffin hydrocarbons at high temperatures. <i>Applied Optics</i> , <b>1999</b> , 38, 2895-904	1.7	7
58	Thermal effects on polybrominated diphenyl ether mass transfer and emission from computer cases. <i>International Journal of Heat and Mass Transfer</i> , <b>2013</b> , 64, 343-351	4.9	6
57	Theoretical Range and Trajectory of a Water Jet <b>2015</b> ,		6
56	Modeling differential scanning calorimetry of thermally degrading thermoplastics. <i>Journal of Analytical and Applied Pyrolysis</i> , <b>2014</b> , 105, 241-251	6	6
55	RubberClay Nanocomposites based on Thermoplastic Elastomers <b>2011</b> , 489-521		6
54	Monte Carlo Modeling of a Light-Pipe Radiation Thermometer. <i>IEEE Transactions on Semiconductor Manufacturing</i> , <b>2007</b> , 20, 39-50	2.6	6
53	Errors Associated With Light-Pipe Radiation Thermometer Temperature Measurements. <i>IEEE Transactions on Semiconductor Manufacturing</i> , <b>2007</b> , 20, 26-38	2.6	6
52	A model for assessing ignition, flame spread, and burn hazard potential of a multilayered jacket. <i>Journal of Burn Care and Research</i> , <b>2006</b> , 27, 487-95	0.8	6
51	Effects of PPV Attack on Thermal Conditions in a Compartment Downstream of a Fire. <i>Fire Technology</i> , <b>2005</b> , 41, 193-208	3	6
50	Polystyrene Soot Agglomeration Enhancement in an Ultrasonic Acoustic Field. <i>Hazardous Waste and Hazardous Materials</i> , <b>1996</b> , 13, 121-130		6

49	libMoM : a library for stochastic simulations in engineering using statistical moments. <i>Engineering With Computers</i> , <b>2012</b> , 28, 83-94	4.5	5
48	Thermoplastic Polyurethane Elastomer Nanocomposites: Density and Hardness Correlations with Flammability Performance <b>2009</b> ,		5
47	Smoke buildup and light scattering in a cylindrical cavity above a uniform flow. <i>Journal of Aerosol Science</i> , <b>2005</b> , 36, 471-493	4.3	5
46	Conduction of Heat in Solids <b>2016</b> , 25-52		5
45	Deep-Learning Emulators of Transient Compartment Fire Simulations for Inverse Problems and Room-Scale Calorimetry. <i>Fire Technology</i> , <b>2020</b> , 1	3	5
44	Quantifying Generalized Residential Fire Risk Using Ensemble Fire Models with Survey and Physical Data. <i>Fire Technology</i> , <b>2018</b> , 54, 715-747	3	4
43	A Review of Ablation Modeling for Thermal Protection Systems <b>2006</b> ,		4
42	Change in acoustic impulse response of a room due to a fire. <i>Journal of the Acoustical Society of America</i> , <b>2020</b> , 147, EL546	2.2	4
41	Fire Smoke Transport and Opacity Reduced-Order Model (Fire-STORM): A New Computer Model for High-Rise Fire Smoke Simulations. <i>Fire Technology</i> , <b>2019</b> , 55, 981-1012	3	3
40	Thermal Characterization of Electrical Wires and Insulation Operated in Variable Frequency Mode. <i>Fire Technology</i> , <b>2015</b> , 51, 1071-1092	3	3
39	Exploration of NFIRS protected populations using geocoded fire incidents. <i>Fire Safety Journal</i> , <b>2018</b> , 95, 122-134	3.3	3
38	Why and How the Sustainable Building Community Should Embrace Fire Safety. <i>Current Sustainable/Renewable Energy Reports</i> , <b>2016</b> , 3, 121-137	2.8	3
37	A Versatile In-Situ Ablation Recession and Thermal Sensor Adaptable for Different Types of Ablatives <b>2015</b> ,		3
36	In-situ Ablation Recession Sensor Based on Ultra-Miniature Thermocouples - Part A: 0.25mm Diameter Thermocouples <b>2013</b> ,		3
35	Simulation of the evolution of particle size distributions containing coarse particulate in the atmospheric surface layer with a simple convection-diffusion-sedimentation model. <i>Atmospheric Environment</i> , <b>2009</b> , 43, 4435-4443	5.3	3
34	Characterization of Wet Batch Cleaning Process in Advanced Semiconductor Manufacturing. <i>IEEE Transactions on Semiconductor Manufacturing</i> , <b>2009</b> , 22, 399-408	2.6	3
33	Heat integration and operational optimization of an austenitization furnace using concentric-tube radiant recuperators. <i>AIChE Journal</i> , <b>2019</b> , 65, e16414	3.6	3
32	Model Considerations for Fire Scene Reconstruction Using a Bayesian Framework. <i>Fire Technology</i> , <b>2020</b> , 56, 445-467	3	3

31	Towards Fire Forensic Characteristics of Failed Cylindrical Format Lithium-Ion Cells and Batteries. <i>Fire Technology</i> , <b>2021</b> , 57, 1723-1752	3	3
30	Improving energy efficiency of an austenitization furnace by heat integration and real-time optimization <b>2018</b> ,		2
29	Statistical Analysis of Fire Department Response Times and Effects on Fire Outcomes in the United States. <i>Fire Technology</i> , <b>2019</b> , 55, 2369-2393	3	2
28	CFD Simulation of Smoke Spread Through Elevator Shafts During Fires in High Rise Buildings <b>2015</b> ,		2
27	Characterization of Mass Transfer Rates and Contamination Kinetics on Silicon Wafer Surface. <i>IEEE Transactions on Semiconductor Manufacturing</i> , <b>2013</b> , 26, 145-155	2.6	2
26	Recession Experiments and Modeling for Carbon Surface Oxidation Processes <b>2013</b> ,		2
25	Thermophysical Properties Characterization of Thermoplastic Polyurethane Elastomer Nanocomposites <b>2008</b> ,		2
24	Drawdown-Effect of Lightpipes in Silicon Wafer Surface Temperature Measurements <b>2005</b> , 193		2
23	Modeling of a Radiative RTP-Type Furnace Through an Inverse Design: Mathematical Model and Experimental Results <b>2002</b> , 237		2
22	Design of a Rapid Thermal Processing Chamber Using an Inverse Formulation <b>2002</b> ,		2
21	Brain-STORM: A deep learning model for computationally fast transient high-rise fire simulations. <i>Fire Safety Journal</i> , <b>2021</b> , 125, 103443	3.3	2
20	The effect of fire location and the reverse stack on fire smoke transport in high-rise buildings. <i>Fire Safety Journal</i> , <b>2021</b> , 126, 103446	3.3	2
19	Bayesian Inference of Fire Evolution Within a Compartment Using Heat Flux Measurements. <i>Fire Technology</i> , <b>2020</b> , 1	3	1
18	Development of an Analytical Design Tool for Monolithic Emission Control Catalysts and Application to Nano-Textured Substrate System. <i>Journal of Thermal Science and Engineering Applications</i> , <b>2014</b> , 6,	1.9	1
17	Inversion for Fire Heat Release Rate Using Transient Heat Flux Data <b>2017</b> ,		1
16	Multiphysics Coupling for Reentry Flows <b>2010</b> ,		1
15	Radiative Heat Transfer Modeling Using the CW and SLW Models in Gas Mixtures With Soot <b>2012</b> ,		1
14	Analysis of Fireground Standard Operating Guidelines/Procedures Compliance for Austin Fire Department. <i>Fire Technology</i> , <b>2008</b> , 44, 39-64	3	1

13	Strongly-Pulsed Turbulent Non-Premixed Jet Flames in Cross-Flow <b>2007</b> ,		1
12	Experimental Characterization of Thermoplastic Polyurethane Nanocomposite under Extreme Conditions <b>2007</b> ,		1
11	Insertion Error in LPRT Temperature Measurements <b>2006</b> ,		1
10	Railplug Design Optimization to Improve Large-Bore Natural Gas Engine Performance <b>2005</b> , 15		1
9	Analysis of Factors that Affect the Performance of Railplugs <b>2005</b> ,		1
8	Design of an oscillating flow apparatus for the study of low Reynolds number particle dynamics. <i>Experiments in Fluids</i> , <b>2001</b> , 30, 578-583	2.5	1
7	Thermal runaway behavior of nickel-manganese-cobalt 18650 lithium-ion cells induced by internal and external heating failures. <i>Journal of Energy Storage</i> , <b>2022</b> , 45, 103640	7.8	1
6	Low-order modeling of Lithium Cobalt Oxide Lithium ion battery arrays with various states of charge. <i>Journal of Energy Storage</i> , <b>2022</b> , 49, 104053	7.8	1
5	Inversion for Fire Heat-Release Rate Using Heat Flux Measurements. <i>Journal of Heat Transfer</i> , <b>2020</b> , 142,	1.8	1
4	Combining spatial and sociodemographic regression techniques to predict residential fire counts at the census tract level. <i>Computers, Environment and Urban Systems</i> , <b>2021</b> , 88, 101633	5.9	0
3	Chemical hood glass failure under thermal loading associated with fire. <i>Journal of Chemical Health and Safety</i> , <b>2012</b> , 19, 30-36	1.7	
2	Orthogonal function extension to enclosure theory. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , <b>2019</b> , 224, 272-278	2.1	
1	Head-related transfer function measurements in a compartment fire.. <i>Journal of the Acoustical Society of America</i> , <b>2022</b> , 151, 1730	2.2	