Okenwa Oi Okoli

List of Publications by Year
in descending order

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79 papers	2,163 citations	331670 21 h-index	233421 45 g-index
82 all docs	82 docs citations	82 times ranked	2414 citing authors

#	Article	IF	Citations
1	Inorganic cesium lead mixed halide based perovskite solar materials modified with functional silver iodide. Scientific Reports, 2022, 12, 7794.	3.3	9
2	A Review on the Out-of-Autoclave Process for Composite Manufacturing. Journal of Composites Science, 2022, 6, 172.	3.0	22
3	Embedded Perovskite-Mechanoluminescent Sensor for Applications in Composite Materials. Lecture Notes in Civil Engineering, 2021, , 603-611.	0.4	2
4	Enhanced Photoresponse of Inorganic Cesium Lead Halide Perovskite for Ultrasensitive Photodetector. Lecture Notes in Civil Engineering, 2021, , 622-631.	0.4	0
5	Enhanced Inorganic CsPbIBr₂ Perovskite Film for a Sensitive and Rapid Response Self-Powered Photodetector. Journal of Physical Chemistry C, 2020, 124, 20643-20653.	3.1	32
6	Performance Analysis of Embedded Mechanoluminescence-Perovskite Self-Powered Pressure Sensor for Structural Health Monitoring. Journal of Composites Science, 2020, 4, 190.	3.0	8
7	Synergistic effect of the anti-solvent bath method and improved annealing conditions for high-quality triple cation perovskite thin films. RSC Advances, 2020, 10, 18139-18146.	3.6	14
8	Fully Integrated Mechanoluminescent Devices with Nanometer-Thick Perovskite Film as Self-Powered Flexible Sensor for Dynamic Pressure Sensing. ACS Applied Nano Materials, 2020, 3, 6749-6756.	5.0	25
9	Fabrication of rapid response self-powered photodetector using solution-processed triple cation lead-halide perovskite. Engineering Research Express, 2020, 2, 015043.	1.6	16
10	Evaluation of the inter-particle interference of cellulose and lignin in lignocellulosic materials. International Journal of Biological Macromolecules, 2020, 147, 762-767.	7.5	19
11	Real-time damage monitoring in trailing edge bondlines of wind turbine blades with triboluminescent sensors. Structural Health Monitoring, 2019, 18, 1129-1140.	7.5	9
12	Conductive glass free carbon nanotube micro yarn based perovskite solar cells. Applied Surface Science, 2019, 478, 327-333.	6.1	29
13	The fabrication of mechanoluminescent composites manufactured via the displaced foam dispersion technique. Plastics, Rubber and Composites, 2019, 48, 191-200.	2.0	2
14	Nonparasitic behavior of embedded triboluminescent sensor in multifunctional composites. Composites Part A: Applied Science and Manufacturing, 2019, 116, 114-125.	7.6	11
15	Towards optimization of the osmotic drying process of alumina-gelatin objects: Regression analysis and verification. Ceramics International, 2019, 45, 5223-5230.	4.8	3
16	Enhanced fabrication process for in situ triboluminescent optical fiber sensor for multifunctional composites. Measurement: Journal of the International Measurement Confederation, 2018, 121, 240-248.	5.0	5
17	A review of perovskite solar cells with a focus on wire-shaped devices. Renewable Energy Focus, 2018, 25, 17-23.	4.5	9
18	Designing and implementation of triboluminescent materials for real-time load monitoring. Materials and Design, 2018, 153, 86-93.	7.0	18

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19	A study on the fabrication of plasticized polystyrene-carbon nanotube nanocomposites for foaming. Journal of Cellular Plastics, 2018, 54, 445-462.	2.4	3
20	Ultraviolet priming of triboluminescence. Journal of Luminescence, 2018, 194, 803-805.	3.1	3
21	Development of friction-induced triboluminescent sensor for load monitoring. Journal of Intelligent Material Systems and Structures, 2018, 29, 883-895.	2.5	13
22	Flexible Wireâ€Shaped Perovskite Photodetector via Joule Heating for Improved Crystallization and Performance. Advanced Materials Interfaces, 2018, 5, 1800082.	3.7	14
23	Three-dimensional carbon nanotube yarn based solid state solar cells with multiple sensitizers exhibit high energy conversion efficiency. Solar Energy, 2018, 171, 16-22.	6.1	9
24	Nanostructured functional materials for advanced three-dimensional (3D) solar cells. Solar Energy Materials and Solar Cells, 2017, 167, 121-132.	6.2	19
25	Damage mitigation techniques in wind turbine blades: A review. Wind Engineering, 2017, 41, 185-210.	1.9	56
26	Influence of osmotic drying with an aqueous poly(ethylene glycol) liquid desiccant on alumina objects gelcast with gelatin. Ceramics International, 2017, 43, 16443-16450.	4.8	5
27	Mechanical Characterization of EuD4TEAâ€and ZnS:Mnâ€Enhanced Composites. Crystal Research and Technology, 2017, 52, 1700088.	1.3	5
28	Synthesis conditions of europium tetrakis dibenzoylmethide triethylammonium crystals. Crystal Research and Technology, 2016, 51, 160-166.	1.3	5
29	Synthesis and characterization of polystyrene carbon nanotube nanocomposite for utilization in the displaced foam dispersion methodology. Composites Part B: Engineering, 2016, 98, 484-495.	12.0	5
30	Measurement of impact force for triboluminescent-enhanced composites by modified impulse method. Journal of Reinforced Plastics and Composites, 2016, 35, 915-923.	3.1	3
31	Progress towards self-healing polymers for composite structural applications. Polymer, 2016, 83, 260-282.	3.8	122
32	In Pursuit of Bio-inspired Triboluminescent Multifunctional Composites. Conference Proceedings of the Society for Experimental Mechanics, 2016, , 55-65.	0.5	3
33	Buckypaper-Cored Novel Photovoltaic Sensors for In-Situ Structural Health Monitoring of Composite Materials Using Hybrid Quantum Dots. Conference Proceedings of the Society for Experimental Mechanics, 2016, , 73-79.	0.5	1
34	Fabrication of silicon nanowire on freestanding multiwalled carbon nanotubes by chemical vapor deposition. Materials Letters, 2015, 159, 353-356.	2.6	5
35	Characterization of triboluminescent enhanced discontinuous glassâ€“fiber composite beams for micro-damage detection and fracture assessment. Journal of Luminescence, 2015, 163, 1-7.	3.1	8
36	Micromechanics predictions for two-phased nanocomposites and three-phased multiscale composites: A review. Journal of Reinforced Plastics and Composites, 2015, 34, 605-623.	3.1	12

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37	A high efficiency 3D photovoltaic microwire with carbon nanotubes (CNT)-quantum dot (QD) hybrid interface. Physica Status Solidi - Rapid Research Letters, 2014, 8, 898-903.	2.4	35
38	Back Cover: A high efficiency 3D photovoltaic microwire with carbon nanotubes (CNT)-quantum dot (QD) hybrid interface (Phys. Status Solidi RRL 8/2014). Physica Status Solidi - Rapid Research Letters, 2014, 8, n/a-n/a.	2.4	0
39	Getting light through cementitious composites with in situ triboluminescent damage sensor. Structural Health Monitoring, 2014, 13, 177-189.	7.5	30
40	Effect of 2-D regular channels and their configurations on properties of ceramic preforms. Ceramics International, 2014, 40, 203-209.	4.8	0
41	Real time failure detection in unreinforced cementitious composites with triboluminescent sensor. Journal of Luminescence, 2014, 147, 235-241.	3.1	29
42	3D Wireâ€Shaped Dyeâ€Sensitized Solar Cells in Solid State Using Carbon Nanotube Yarns with Hybrid Photovoltaic Structure. Advanced Materials Interfaces, 2014, 1, 1400075.	3.7	41
43	Processing and properties of advanced porous ceramics: An application based review. Ceramics International, 2014, 40, 15351-15370.	4.8	415
44	Carbon nanotubes (CNTs) enrich the solar cells. Solar Energy, 2013, 96, 239-252.	6.1	69
45	Tailoring the photocatalytic reaction rate of a nanostructured TiO2 matrix using additional gas phase oxygen. International Nano Letters, 2013, 3, 1.	5.0	17
46	Self-aligned carbon nanotubes yarns (CNY) with efficient optoelectronic interface for microyarn shaped 3D photovoltaic cells. Solar Energy Materials and Solar Cells, 2013, 115, 166-171.	6.2	19
47	Manufacturing process improvement and mechanical modelling of multiwalled carbon nanotube/epoxy composites. Plastics, Rubber and Composites, 2013, 42, 210-218.	2.0	5
48	Predicting mechanical properties of multiscale composites. Plastics, Rubber and Composites, 2013, 42, 349-360.	2.0	1
49	Tailoring the efficiency of 3D wire-shaped photovoltaic cells (WPVCs) by functionalization of solid-liquid interfacial properties. Physica Status Solidi (A) Applications and Materials Science, 2013, 210, 2535-2541.	1.8	4
50	Development of a triboluminescence-based sensor system for concrete structures. Structural Health Monitoring, 2012, 11, 139-147.	7.5	34
51	Optimising lamp positions in UV curing of composite components manufactured using RIDFT process. Plastics, Rubber and Composites, 2012, 41, 247-255.	2.0	1
52	Solid-State Dye Sensitized Optoelectronic Carbon Nanotube-Wires: An Energy Harvesting Damage Sensor With Nanotechnology Approach. , 2012, , .		3
53	A review of multiscale composite manufacturing and challenges. Journal of Reinforced Plastics and Composites, 2012, 31, 1687-1711.	3.1	50
54	Ceramic Preforms with 2D Regular Channels for Fabrication of Metal/Ceramicâ€Reinforced Composites. International Journal of Applied Ceramic Technology, 2012, 9, 421-430.	2.1	9

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55	Effects of ZnS:Mn concentrated vinyl ester matrices under flexural loading on the triboluminescent yield. Journal of Luminescence, 2012, 132, 1714-1719.	3.1	24
56	Progress in triboluminescence-based smart optical sensor system. Journal of Luminescence, 2011, 131, 1407-1418.	3.1	147
57	Mimicking the human nervous system with a triboluminescence sensory receptor for the structural health monitoring of composite structures. Proceedings of SPIE, 2011, , .	0.8	8
58	Enabling damage detection: manufacturing composite laminates doped with dispersed triboluminescent materials. Journal of Reinforced Plastics and Composites, 2011, 30, 1869-1876.	3.1	25
59	Characterisation and modelling of CNTâ€“epoxy and CNTâ€“fibreâ€“epoxy composites. Plastics, Rubber and Composites, 2011, 40, 481-490.	2.0	10
60	Experimental Evaluation of Co-Infusion as a Viable Method for In-Mold Coating of Composite Components. Journal of Reinforced Plastics and Composites, 2009, 28, 1975-1986.	3.1	4
61	Processing, characterization, and modeling of carbon nanotube-reinforced multiscale composites. Composites Science and Technology, 2009, 69, 335-342.	7.8	317
62	Determination of effects of production parameters on the viability of polycarbonate films for achieving in-mold decoration in resin infused composite components. Composites Part A: Applied Science and Manufacturing, 2009, 40, 368-375.	7.6	10
63	Fracture Toughness Enhancement for Alumina Systems: A Review. International Journal of Applied Ceramic Technology, 2008, 5, 313-323.	2.1	92
64	In-mold Coating of Composites Manufactured by the Resin Infusion between Double Flexible Tooling Process by Means of Co-infusion. Journal of Reinforced Plastics and Composites, 2006, 25, 543-551.	3.1	6
65	Preliminary assessment of the ultra violet curing of composites manufactured by the resin infusion between double flexible tooling process. Polymer Composites, 2006, 27, 417-424.	4.6	5
66	In-mold Coating of Composites Manufactured by Resin Infusion between Double Flexible Tooling Process. Journal of Reinforced Plastics and Composites, 2005, 24, 725-733.	3.1	7
67	Resin Infusion Between Double Flexible Tooling: Evaluation of Process Parameters. Journal of Reinforced Plastics and Composites, 2004, 23, 1767-1778.	3.1	13
68	Resin infusion between double flexible tooling: prototype development. Composites Part A: Applied Science and Manufacturing, 2003, 34, 803-811.	7.6	20
69	Development of the Double RIFT Diaphragm Forming Process. Journal of Reinforced Plastics and Composites, 2002, 21, 1629-1635.	3.1	8
70	An Attempt at Predicting Failure in a Random Glass/Epoxy Composite Laminate. Journal of Reinforced Plastics and Composites, 2002, 21, 1003-1012.	3.1	7
71	Failure in composite laminates: overview of an attempt at prediction. Composites Part A: Applied Science and Manufacturing, 2002, 33, 315-321.	7.6	19
72	An Approach for Obtaining the Young's Modulus in Woven Glass/Epoxy Reinforced Composites. Journal of Reinforced Plastics and Composites, 2001, 20, 1358-1368.	3.1	1

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73	The effects of strain rate and failure modes on the failure energy of fibre reinforced composites. Composite Structures, 2001, 54, 299-303.	5.8	66
74	Aspects of the Tensile Response of Random Continuous Glass/Epoxy Composites. , 2001, , 253-258.		1
75	The effect of strain rate and fibre content on the Poissonâ€™s ratio of glass/epoxy composites. Composite Structures, 2000, 48, 157-161.	5.8	69
76	Development of a Semi-Empirical Method for Obtaining the Dynamic Young's Modulus in Random Continuous Reinforced Glass/Epoxy Composites. Journal of Reinforced Plastics and Composites, 2000, 19, 292-300.	3.1	1
77	Aspects of the Tensile Response of Random Continuous Glass/Epoxy Composites. Journal of Reinforced Plastics and Composites, 1999, 18, 606-613.	3.1	12
78	Screening Failure Detection of Structural Composite Systems: Embedded Triboluminescent Structronic Wires. , 0, , .		2
79	Advances of Bio-inspired In-situ Triboluminescent Optical Fiber Sensor for Damage and Load Monitoring in Multifunctional Composite. , 0, , .		2