

Lazaros Tzounis

List of Publications by Year in descending order

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Version: 2024-02-01

82
papers

3,932
citations

87888

38
h-index

128289

60
g-index

82
all docs

82
docs citations

82
times ranked

3410
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanical reinforcement course of 3D printed polypropylene-antimony doped Tin Oxide nanocomposites versus filler loading. <i>Advanced Composite Materials</i> , 2022, 31, 235-256.	1.9	17
2	3D printing and nanotechnology. , 2022, , 7-26.		0
3	Carbon fiber/epoxy composite laminates as through-thickness thermoelectric generators. <i>Composites Science and Technology</i> , 2022, 220, 109291.	7.8	5
4	Fused Filament Fabrication 3D printed polypropylene/ alumina nanocomposites: Effect of filler loading on the mechanical reinforcement. <i>Polymer Testing</i> , 2022, 109, 107545.	4.8	34
5	Multi-functional polyamide 12 (PA12)/ multiwall carbon nanotube 3D printed nanocomposites with enhanced mechanical and electrical properties. <i>Advanced Composite Materials</i> , 2022, 31, 630-654.	1.9	24
6	High-performance cement/SWCNT thermoelectric nanocomposites and a structural thermoelectric generator device towards large-scale thermal energy harvesting. <i>Journal of Materials Chemistry C</i> , 2021, 9, 14421-14438.	5.5	21
7	Sustainable Additive Manufacturing: Mechanical Response of Polyethylene Terephthalate Glycol over Multiple Recycling Processes. <i>Materials</i> , 2021, 14, 1162.	2.9	31
8	High-Power All-Carbon Fully Printed and Wearable SWCNT-Based Organic Thermoelectric Generator. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 11151-11165.	8.0	49
9	Enhanced Mechanical, Thermal and Antimicrobial Properties of Additively Manufactured Polylactic Acid with Optimized Nano Silica Content. <i>Nanomaterials</i> , 2021, 11, 1012.	4.1	43
10	Thermoelectric Energy Harvesting from Single-Walled Carbon Nanotube Alkali-Activated Nanocomposites Produced from Industrial Waste Materials. <i>Nanomaterials</i> , 2021, 11, 1095.	4.1	13
11	An Approach toward the Realization of a Through-Thickness Glass Fiber/Epoxy Thermoelectric Generator. <i>Materials</i> , 2021, 14, 2173.	2.9	5
12	Polyamide 12/Multiwalled Carbon Nanotube and Carbon Black Nanocomposites Manufactured by 3D Printing Fused Filament Fabrication: A Comparison of the Electrical, Thermoelectric, and Mechanical Properties. <i>Journal of Carbon Research</i> , 2021, 7, 38.	2.7	18
13	Advanced Glass Fiber Polymer Composite Laminate Operating as a Thermoelectric Generator: A Structural Device for Micropower Generation and Potential Large-Scale Thermal Energy Harvesting. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 24138-24153.	8.0	11
14	Optimization of the Filler Concentration on Fused Filament Fabrication 3D Printed Polypropylene with Titanium Dioxide Nanocomposites. <i>Materials</i> , 2021, 14, 3076.	2.9	37
15	On the Mechanical Response of Silicon Dioxide Nanofiller Concentration on Fused Filament Fabrication 3D Printed Isotactic Polypropylene Nanocomposites. <i>Polymers</i> , 2021, 13, 2029.	4.5	23
16	A high performance flexible and robust printed thermoelectric generator based on hybridized Te nanowires with PEDOT:PSS. <i>Applied Energy</i> , 2021, 294, 117004.	10.1	16
17	Fused Filament Fabrication Three-Dimensional Printing Multi-Functional of Polylactic Acid/Carbon Black Nanocomposites. <i>Journal of Carbon Research</i> , 2021, 7, 52.	2.7	17
18	Printed Single-Wall Carbon Nanotube-Based Joule Heating Devices Integrated as Functional Laminae in Advanced Composites. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 39880-39893.	8.0	23

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19	Prediction of the Seebeck coefficient of thermoelectric unidirectional fibre-reinforced composites. Composites Part B: Engineering, 2021, 223, 109111.	12.0	7
20	Sustainable Additive Manufacturing: Mechanical Response of Polyamide 12 over Multiple Recycling Processes. Materials, 2021, 14, 466.	2.9	64
21	Sustainable Additive Manufacturing: Mechanical Response of Polypropylene over Multiple Recycling Processes. Sustainability, 2021, 13, 159.	3.2	51
22	Modelling the in-plane thermoelectric properties of fibre-reinforced multi-directional laminates. Composites Science and Technology, 2021, 218, 109130.	7.8	1
23	Additive manufacturing of multifunctional polylactic acid (PLA)–multiwalled carbon nanotubes (MWCNTs) nanocomposites. Nanocomposites, 2021, 7, 184-199.	4.2	40
24	Ni/Y ₂ O ₃ –ZrO ₂ catalyst for hydrogen production through the glycerol steam reforming reaction. International Journal of Hydrogen Energy, 2020, 45, 10442-10460.	7.1	85
25	Three-Dimensional Printed Antimicrobial Objects of Polylactic Acid (PLA)-Silver Nanoparticle Nanocomposite Filaments Produced by an In-Situ Reduction Reactive Melt Mixing Process. Biomimetics, 2020, 5, 42.	3.3	61
26	3D Printed Thermoelectric Polyurethane/Multiwalled Carbon Nanotube Nanocomposites: A Novel Approach towards the Fabrication of Flexible and Stretchable Organic Thermoelectrics. Materials, 2020, 13, 2879.	2.9	59
27	Mechanical Properties of 3D-Printed Acrylonitrile–Butadiene–Styrene TiO ₂ and ATO Nanocomposites. Polymers, 2020, 12, 1589.	4.5	46
28	Epoxy/Glass Fiber Nanostructured p- and n-Type Thermoelectric Enabled Model Composite Interphases. Applied Sciences (Switzerland), 2020, 10, 5352.	2.5	10
29	Decoration of SiO ₂ and Fe ₃ O ₄ Nanoparticles onto the Surface of MWCNT-Grafted Glass Fibers: A Simple Approach for the Creation of Binary Nanoparticle Hierarchical and Multifunctional Composite Interphases. Nanomaterials, 2020, 10, 2500.	4.1	11
30	On the Strain Rate Sensitivity of Fused Filament Fabrication (FFF) Processed PLA, ABS, PETG, PA6, and PP Thermoplastic Polymers. Polymers, 2020, 12, 2924.	4.5	91
31	Three-Dimensional Printed Polylactic Acid (PLA) Surgical Retractors with Sonochemically Immobilized Silver Nanoparticles: The Next Generation of Low-Cost Antimicrobial Surgery Equipment. Nanomaterials, 2020, 10, 985.	4.1	34
32	Three-Dimensional (3D) Conductive Network of CNT-Modified Short Jute Fiber-Reinforced Natural Rubber: Hierarchical CNT-Enabled Thermoelectric and Electrically Conductive Composite Interfaces. Materials, 2020, 13, 2668.	2.9	13
33	Effect of Various Surface Treatments on the Performance of Jute Fibers Filled Natural Rubber (NR) Composites. Polymers, 2020, 12, 369.	4.5	46
34	Electrical Joule heating of cementitious nanocomposites filled with multi-walled carbon nanotubes: role of filler concentration, water content, and cement age. Smart Materials and Structures, 2020, 29, 125019.	3.5	19
35	Investigating the correlation between deactivation and the carbon deposited on the surface of Ni/Al ₂ O ₃ and Ni/La ₂ O ₃ -Al ₂ O ₃ catalysts during the biogas reforming reaction. Applied Surface Science, 2019, 474, 42-56.	6.1	128
36	The Relationship between Reaction Temperature and Carbon Deposition on Nickel Catalysts Based on Al ₂ O ₃ , ZrO ₂ or SiO ₂ Supports during the Biogas Dry Reforming Reaction. Catalysts, 2019, 9, 676.	3.5	72

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37	A carbon fiber thermoelectric generator integrated as a lamina within an 8-ply laminate epoxy composite: Efficient thermal energy harvesting by advanced structural materials. <i>Applied Energy</i> , 2019, 253, 113512.	10.1	33
38	Temperature-Controlled Catalysis by Coreâ€œShellâ€œSatellite AuAg@pNIPAM@Ag Hybrid Microgels: A Highly Efficient Catalytic Thermoresponsive Nanoreactor. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 29360-29372.	8.0	63
39	The Role of Synergies of MWCNTs and Carbon Black in the Enhancement of the Electrical and Mechanical Response of Modified Epoxy Resins. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 3757.	2.5	17
40	Synthesis and Processing of Thermoelectric Nanomaterials, Nanocomposites, and Devices. , 2019, , 295-336.		8
41	Electrochemical modification of carbon fiber yarns in cementitious pore solution for an enhanced interaction towards concrete matrices. <i>Applied Surface Science</i> , 2019, 487, 52-58.	6.1	34
42	P- and n-type thermoelectric cement composites with CVD grown p- and n-doped carbon nanotubes: Demonstration of a structural thermoelectric generator. <i>Energy and Buildings</i> , 2019, 191, 151-163.	6.7	77
43	Highly conductive ultra-sensitive SWCNT-coated glass fiber reinforcements for laminate composites structural health monitoring. <i>Composites Part B: Engineering</i> , 2019, 169, 37-44.	12.0	43
44	Ni supported on CaO-MgO-Al ₂ O ₃ as a highly selective and stable catalyst for H ₂ production via the glycerol steam reforming reaction. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 256-273.	7.1	138
45	Three-dimensional printing as an educational tool in colorectal surgery. <i>Frontiers in Bioscience - Elite</i> , 2019, 11, 29-37.	1.8	19
46	Surface, interface and electronic properties of F8:F8BT polymeric thin films used for organic lightâ€œemitting diode applications. <i>Polymer International</i> , 2018, 67, 691-699.	3.1	17
47	All-aromatic SWCNT-Polyetherimide nanocomposites for thermal energy harvesting applications. <i>Composites Science and Technology</i> , 2018, 156, 158-165.	7.8	55
48	Transistor in a tube: A route to three-dimensional bioelectronics. <i>Science Advances</i> , 2018, 4, eaat4253.	10.3	78
49	An in depth investigation of deactivation through carbon formation during the biogas dry reforming reaction for Ni supported on modified with CeO ₂ and La ₂ O ₃ zirconia catalysts. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 18955-18976.	7.1	165
50	Optimal synergy between micro and nano scale: Hierarchical all carbon composite fibers for enhanced stiffness, interfacial shear strength and Raman strain sensing. <i>Composites Science and Technology</i> , 2018, 165, 240-249.	7.8	28
51	Carbon nanotubes grown on carbon fiber yarns by a low temperature CVD method: A significant enhancement of the interfacial adhesion between carbon fiber/epoxy matrix hierarchical composites. <i>Composites Communications</i> , 2017, 3, 33-37.	6.3	74
52	Hydrogen production via the glycerol steam reforming reaction over nickel supported on alumina and lanthana-alumina catalysts. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 13039-13060.	7.1	100
53	Glycerol Steam Reforming for Hydrogen Production over Nickel Supported on Alumina, Zirconia and Silica Catalysts. <i>Topics in Catalysis</i> , 2017, 60, 1226-1250.	2.8	79
54	Syngas production via the biogas dry reforming reaction over Ni supported on zirconia modified with CeO ₂ or La ₂ O ₃ catalysts. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 13724-13740.	7.1	160

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55	Shear alignment of a poly(styrene-butadiene-styrene) triblock copolymer/MWCNT nanocomposite. Polymer, 2017, 131, 1-9.	3.8	23
56	Fiber yarns/CNT hierarchical structures as thermoelectric generators. Materials Today: Proceedings, 2017, 4, 7070-7075.	1.8	20
57	Perovskite solar cells from small scale spin coating process towards roll-to-roll printing: Optical and Morphological studies. Materials Today: Proceedings, 2017, 4, 5082-5089.	1.8	31
58	Fe ₃ O ₄ @SiO ₂ core shell particles as platforms for the decoration of Ag nanoparticles. Materials Today: Proceedings, 2017, 4, 7076-7082.	1.8	15
59	Production of hierarchical all graphitic structures: A systematic study. Journal of Colloid and Interface Science, 2017, 487, 444-457.	9.4	20
60	The Effect of WO ₃ Modification of ZrO ₂ Support on the Ni-Catalyzed Dry Reforming of Biogas Reaction for Syngas Production. Frontiers in Environmental Science, 2017, 5, .	3.3	26
61	Halloysite Nanotubes Noncovalently Functionalised with SDS Anionic Surfactant and PS-b-P4VP Block Copolymer for Their Effective Dispersion in Polystyrene as UV-Blocking Nanocomposite Films. Journal of Nanomaterials, 2017, 2017, 1-11.	2.7	18
62	Effect of Active Metal Supported on SiO ₂ for Selective Hydrogen Production from the Glycerol Steam Reforming Reaction. BioResources, 2016, 11, .	1.0	18
63	Comparative study of Ni, Co, Cu supported on γ -alumina catalysts for hydrogen production via the glycerol steam reforming reaction. Fuel Processing Technology, 2016, 152, 156-175.	7.2	184
64	Enhancement of P3HT:PCBM Photovoltaic Shells Efficiency Incorporating Core-shell Au@Ag Plasmonic Nanoparticles1. Materials Today: Proceedings, 2016, 3, 832-839.	1.8	15
65	Gravure Printed Organic Photovoltaic Modules Onto Flexible Substrates Consisting of a P3HT:PCBM Photoactive Blend1. Materials Today: Proceedings, 2016, 3, 746-757.	1.8	11
66	Molecular Orientation and Ultrafast Charge Transfer Dynamics Studies on the P3HT:PCBM Blend. Journal of Physical Chemistry C, 2016, 120, 25078-25082.	3.1	22
67	CNT-grafted glass fibers as a smart tool for epoxy cure monitoring, UV-sensing and thermal energy harvesting in model composites. RSC Advances, 2016, 6, 55514-55525.	3.6	47
68	Improvement of Inverted OPV Performance by Enhancement of ZnO Layer Properties as an Electron Transfer Layer1. Materials Today: Proceedings, 2016, 3, 758-771.	1.8	8
69	Syngas production via the biogas dry reforming reaction over nickel supported on modified with CeO ₂ and/or La ₂ O ₃ alumina catalysts. Journal of Natural Gas Science and Engineering, 2016, 31, 164-183.	4.4	167
70	Fully gravure printed organic photovoltaic modules: A straightforward process with a high potential for large scale production. Solar Energy Materials and Solar Cells, 2016, 144, 724-731.	6.2	73
71	Thermal energy harvesting for large-scale applications using MWCNT-grafted glass fibers and polycarbonate-MWCNT nanocomposites. AIP Conference Proceedings, 2015, , .	0.4	16
72	Oxygen-plasma-modified biomimetic nanofibrous scaffolds for enhanced compatibility of cardiovascular implants. Beilstein Journal of Nanotechnology, 2015, 6, 254-262.	2.8	49

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73	The interphase microstructure and electrical properties of glass fibers covalently and non-covalently bonded with multiwall carbon nanotubes. Carbon, 2014, 73, 310-324.	10.3	131
74	High performance natural rubber composites with a hierarchical reinforcement structure of carbon nanotube modified natural fibers. Materials & Design, 2014, 58, 1-11.	5.1	129
75	Controlled growth of Ag nanoparticles decorated onto the surface of SiO ₂ spheres: a nanohybrid system with combined SERS and catalytic properties. RSC Advances, 2014, 4, 17846-17855.	3.6	85
76	Influence of the MWCNT surface functionalization on the thermoelectric properties of melt-mixed polycarbonate composites. Composites Science and Technology, 2014, 101, 133-138.	7.8	94
77	Influence of a cyclic butylene terephthalate oligomer on the processability and thermoelectric properties of polycarbonate/MWCNT nanocomposites. Polymer, 2014, 55, 5381-5388.	3.8	68
78	Î ² -nucleated propylene-ethylene random copolymer filled with multi-walled carbon nanotubes: Mechanical, thermal and rheological properties. Polymer, 2014, 55, 3758-3769.	3.8	45
79	Thermoset Magnetic Materials Based on Poly(ionic liquid)s Block Copolymers. Macromolecules, 2013, 46, 1860-1867.	4.8	48
80	Influence of the viscosity ratio in PC/SAN blends filled with MWCNTs on the morphological, electrical, and melt rheological properties. Polymer, 2013, 54, 6801-6808.	3.8	102
81	Selective localization of multi-wall carbon nanotubes in homopolymer blends and a diblock copolymer. Rheological orientation studies of the final nanocomposites. Polymer, 2012, 53, 4438-4447.	3.8	50
82	Organic Thermoelectrics and Thermoelectric Generators (TEGs). , 0, , .		4