Lazaros Tzounis

List of Publications by Year
in descending order

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Version: 2024-02-01

82 papers	3,932 citations	87723 38 h-index	128067 60 g-index
82 all docs	82 docs citations	82 times ranked	3410 citing authors

#	Article	IF	Citations
1	Comparative study of Ni, Co, Cu supported on Î³-alumina catalysts for hydrogen production via the glycerol steam reforming reaction. Fuel Processing Technology, 2016, 152, 156-175.	3.7	184
2	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.	2.1	167
3	An in depth investigation of deactivation through carbon formation during the biogas dry reforming reaction for Ni supported on modified with CeO2 and La2O3 zirconia catalysts. International Journal of Hydrogen Energy, 2018, 43, 18955-18976.	3.8	165
4	Syngas production via the biogas dry reforming reaction over Ni supported on zirconia modified with CeO 2 or La 2 O 3 catalysts. International Journal of Hydrogen Energy, 2017, 42, 13724-13740.	3.8	160
5	Ni supported on CaO-MgO-Al2O3 as a highly selective and stable catalyst for H2 production via the glycerol steam reforming reaction. International Journal of Hydrogen Energy, 2019, 44, 256-273.	3.8	138
6	The interphase microstructure and electrical properties of glass fibers covalently and non-covalently bonded with multiwall carbon nanotubes. Carbon, 2014, 73, 310-324.	5.4	131
7	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
8	Investigating the correlation between deactivation and the carbon deposited on the surface of Ni/Al2O3 and Ni/La2O3-Al2O3 catalysts during the biogas reforming reaction. Applied Surface Science, 2019, 474, 42-56.	3.1	128
9	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.	1.8	102
10	Hydrogen production via the glycerol steam reforming reaction over nickel supported on alumina and lanthana-alumina catalysts. International Journal of Hydrogen Energy, 2017, 42, 13039-13060.	3.8	100
11	Influence of the MWCNT surface functionalization on the thermoelectric properties of melt-mixed polycarbonate composites. Composites Science and Technology, 2014, 101, 133-138.	3.8	94
12	On the Strain Rate Sensitivity of Fused Filament Fabrication (FFF) Processed PLA, ABS, PETG, PA6, and PP Thermoplastic Polymers. Polymers, 2020, 12, 2924.	2.0	91
13	Controlled growth of Ag nanoparticles decorated onto the surface of SiO₂ spheres: a nanohybrid system with combined SERS and catalytic properties. RSC Advances, 2014, 4, 17846-17855.	1.7	85
14	Ni/Y2O3â€“ZrO2 catalyst for hydrogen production through the glycerol steam reforming reaction. International Journal of Hydrogen Energy, 2020, 45, 10442-10460.	3.8	85
15	Glycerol Steam Reforming for Hydrogen Production over Nickel Supported on Alumina, Zirconia and Silica Catalysts. Topics in Catalysis, 2017, 60, 1226-1250.	1.3	79
16	Transistor in a tube: A route to three-dimensional bioelectronics. Science Advances, 2018, 4, eaat4253.	4.7	78
17	P- and n-type thermoelectric cement composites with CVD grown p- and n-doped carbon nanotubes: Demonstration of a structural thermoelectric generator. Energy and Buildings, 2019, 191, 151-163.	3.1	77
18	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. Composites Communications, 2017, 3, 33-37.	3.3	74

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19	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.	3.0	73
20	The Relationship between Reaction Temperature and Carbon Deposition on Nickel Catalysts Based on Al2O3, ZrO2 or SiO2 Supports during the Biogas Dry Reforming Reaction. Catalysts, 2019, 9, 676.	1.6	72
21	Influence of a cyclic butylene terephthalate oligomer on the processability and thermoelectric properties of polycarbonate/MWCNT nanocomposites. Polymer, 2014, 55, 5381-5388.	1.8	68
22	Sustainable Additive Manufacturing: Mechanical Response of Polyamide 12 over Multiple Recycling Processes. Materials, 2021, 14, 466.	1.3	64
23	Temperature-Controlled Catalysis by Coreâ€“Shellâ€“Satellite AuAg@pNIPAM@Ag Hybrid Microgels: A Highly Efficient Catalytic Thermoresponsive Nanoreactor. ACS Applied Materials & Interfaces, 2019, 11, 29360-29372.	4.0	63
24	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.	1.5	61
25	3D Printed Thermoelectric Polyurethane/Multiwalled Carbon Nanotube Nanocomposites: A Novel Approach towards the Fabrication of Flexible and Stretchable Organic Thermoelectrics. Materials, 2020, 13, 2879.	1.3	59
26	All-aromatic SWCNT-Polyetherimide nanocomposites for thermal energy harvesting applications. Composites Science and Technology, 2018, 156, 158-165.	3.8	55
27	Sustainable Additive Manufacturing: Mechanical Response of Polypropylene over Multiple Recycling Processes. Sustainability, 2021, 13, 159.	1.6	51
28	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.	1.8	50
29	Oxygen-plasma-modified biomimetic nanofibrous scaffolds for enhanced compatibility of cardiovascular implants. Beilstein Journal of Nanotechnology, 2015, 6, 254-262.	1.5	49
30	High-Power All-Carbon Fully Printed and Wearable SWCNT-Based Organic Thermoelectric Generator. ACS Applied Materials & Interfaces, 2021, 13, 11151-11165.	4.0	49
31	Thermoset Magnetic Materials Based on Poly(ionic liquid)s Block Copolymers. Macromolecules, 2013, 46, 1860-1867.	2.2	48
32	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.	1.7	47
33	Mechanical Properties of 3D-Printed Acrylonitrileâ€“Butadieneâ€“Styrene TiO2 and ATO Nanocomposites. Polymers, 2020, 12, 1589.	2.0	46
34	Effect of Various Surface Treatments on the Performance of Jute Fibers Filled Natural Rubber (NR) Composites. Polymers, 2020, 12, 369.	2.0	46
35	Î²-nucleated propyleneâ€“ethylene random copolymer filled with multi-walled carbon nanotubes: Mechanical, thermal and rheological properties. Polymer, 2014, 55, 3758-3769.	1.8	45
36	Highly conductive ultra-sensitive SWCNT-coated glass fiber reinforcements for laminate composites structural health monitoring. Composites Part B: Engineering, 2019, 169, 37-44.	5.9	43

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37	Enhanced Mechanical, Thermal and Antimicrobial Properties of Additively Manufactured Polylactic Acid with Optimized Nano Silica Content. Nanomaterials, 2021, 11, 1012.	1.9	43
38	Additive manufacturing of multifunctional polylactic acid (PLA)â€"multiwalled carbon nanotubes (MWCNTs) nanocomposites. Nanocomposites, 2021, 7, 184-199.	2.2	40
39	Optimization of the Filler Concentration on Fused Filament Fabrication 3D Printed Polypropylene with Titanium Dioxide Nanocomposites. Materials, 2021, 14, 3076.	1.3	37
40	Electrochemical modification of carbon fiber yarns in cementitious pore solution for an enhanced interaction towards concrete matrices. Applied Surface Science, 2019, 487, 52-58.	3.1	34
41	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.	1.9	34
42	Fused Filament Fabrication 3D printed polypropylene/ alumina nanocomposites: Effect of filler loading on the mechanical reinforcement. Polymer Testing, 2022, 109, 107545.	2.3	34
43	A carbon fiber thermoelectric generator integrated as a lamina within an 8-ply laminate epoxy composite: Efficient thermal energy harvesting by advanced structural materials. Applied Energy, 2019, 253, 113512.	5.1	33
44	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.	0.9	31
45	Sustainable Additive Manufacturing: Mechanical Response of Polyethylene Terephthalate Glycol over Multiple Recycling Processes. Materials, 2021, 14, 1162.	1.3	31
46	Optimal synergy between micro and nano scale: Hierarchical all carbon composite fibers for enhanced stiffness, interfacial shear strength and Raman strain sensing. Composites Science and Technology, 2018, 165, 240-249.	3.8	28
47	The Effect of WO3 Modification of ZrO2 Support on the Ni-Catalyzed Dry Reforming of Biogas Reaction for Syngas Production. Frontiers in Environmental Science, 2017, 5, .	1.5	26
48	Multi-functional polyamide 12 (PA12)/ multiwall carbon nanotube 3D printed nanocomposites with enhanced mechanical and electrical properties. Advanced Composite Materials, 2022, 31, 630-654.	1.0	24
49	Shear alignment of a poly(styrene-butadiene-styrene) triblock copolymer/MWCNT nanocomposite. Polymer, 2017, 131, 1-9.	1.8	23
50	On the Mechanical Response of Silicon Dioxide Nanofiller Concentration on Fused Filament Fabrication 3D Printed Isotactic Polypropylene Nanocomposites. Polymers, 2021, 13, 2029.	2.0	23
51	Printed Single-Wall Carbon Nanotube-Based Joule Heating Devices Integrated as Functional Laminae in Advanced Composites. ACS Applied Materials & Interfaces, 2021, 13, 39880-39893.	4.0	23
52	Molecular Orientation and Ultrafast Charge Transfer Dynamics Studies on the P3HT:PCBM Blend. Journal of Physical Chemistry C, 2016, 120, 25078-25082.	1.5	22
53	High-performance cement/SWCNT thermoelectric nanocomposites and a structural thermoelectric generator device towards large-scale thermal energy harvesting. Journal of Materials Chemistry C, 2021, 9, 14421-14438.	2.7	21
54	Fiber yarns/CNT hierarchical structures as thermoelectric generators. Materials Today: Proceedings, 2017, 4, 7070-7075.	0.9	20

#	Article	IF	Citations
55	Production of hierarchical all graphitic structures: A systematic study. Journal of Colloid and Interface Science, 2017, 487, 444-457.	5.0	20
56	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.	1.8	19
57	Three-dimensional printing as an educational tool in colorectal surgery. Frontiers in Bioscience - Elite, 2019, 11, 29-37.	0.9	19
58	Effect of Active Metal Supported on SiO2 for Selective Hydrogen Production from the Glycerol Steam Reforming Reaction. BioResources, 2016, 11, .	0.5	18
59	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.	1.5	18
60	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. Journal of Carbon Research, 2021, 7, 38.	1.4	18
61	Surface, interface and electronic properties of F8:F8BT polymeric thin films used for organic lightâ€emitting diode applications. Polymer International, 2018, 67, 691-699.	1.6	17
62	The Role of Synergies of MWCNTs and Carbon Black in the Enhancement of the Electrical and Mechanical Response of Modified Epoxy Resins. Applied Sciences (Switzerland), 2019, 9, 3757.	1.3	17
63	Fused Filament Fabrication Three-Dimensional Printing Multi-Functional of Polylactic Acid/Carbon Black Nanocomposites. Journal of Carbon Research, 2021, 7, 52.	1.4	17
64	Mechanical reinforcement course of 3D printed polypropyleneâ€“antimony doped Tin Oxide nanocomposites versus filler loading. Advanced Composite Materials, 2022, 31, 235-256.	1.0	17
65	Thermal energy harvesting for large-scale applications using MWCNT-grafted glass fibers and polycarbonate-MWCNT nanocomposites. AIP Conference Proceedings, 2015, , .	0.3	16
66	A high performance flexible and robust printed thermoelectric generator based on hybridized Te nanowires with PEDOT:PSS. Applied Energy, 2021, 294, 117004.	5.1	16
67	Enhancement of P3HT:PCBM Photovoltaic Shells Efficiency Incorporating Core-shell Au@Ag Plasmonic Nanoparticles1. Materials Today: Proceedings, 2016, 3, 832-839.	0.9	15
68	Fe 3 O 4 @SiO 2 core shell particles as platforms for the decoration of Ag nanoparticles. Materials Today: Proceedings, 2017, 4, 7076-7082.	0.9	15
69	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.	1.3	13
70	Thermoelectric Energy Harvesting from Single-Walled Carbon Nanotube Alkali-Activated Nanocomposites Produced from Industrial Waste Materials. Nanomaterials, 2021, 11, 1095.	1.9	13
71	Gravure Printed Organic Photovoltaic Modules Onto Flexible Substrates Consisting of a P3HT:PCBM Photoactive Blend1. Materials Today: Proceedings, 2016, 3, 746-757.	0.9	11
72	Decoration of SiO2 and Fe3O4 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.	1.9	11

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73	Advanced Glass Fiber Polymer Composite Laminate Operating as a Thermoelectric Generator: A Structural Device for Micropower Generation and Potential Large-Scale Thermal Energy Harvesting. ACS Applied Materials & Interfaces, 2021, 13, 24138-24153.	4.0	11
74	Epoxy/Glass Fiber Nanostructured p- and n-Type Thermoelectric Enabled Model Composite Interphases. Applied Sciences (Switzerland), 2020, 10, 5352.	1.3	10
75	Improvement of Inverted OPV Performance by Enhancement of ZnO Layer Properties as an Electron Transfer Layer1. Materials Today: Proceedings, 2016, 3, 758-771.	0.9	8
76	Synthesis and Processing of Thermoelectric Nanomaterials, Nanocomposites, and Devices. , 2019, , 295-336.		8
77	Prediction of the Seebeck coefficient of thermoelectric unidirectional fibre-reinforced composites. Composites Part B: Engineering, 2021, 223, 109111.	5.9	7
78	An Approach toward the Realization of a Through-Thickness Glass Fiber/Epoxy Thermoelectric Generator. Materials, 2021, 14, 2173.	1.3	5
79	Carbon fiber/epoxy composite laminates as through-thickness thermoelectric generators. Composites Science and Technology, 2022, 220, 109291.	3.8	5
80	Organic Thermoelectrics and Thermoelectric Generators (TEGs). , 0, , .		4
81	Modelling the in-plane thermoelectric properties of fibre-reinforced multi-directional laminates. Composites Science and Technology, 2021, 218, 109130.	3.8	1
82	3D printing and nanotechnology. , 2022, , 7-26.		0