

Geza Toth

List of Publications by Year in descending order

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Version: 2024-02-01

58
papers

2,654
citations

218677

26
h-index

182427

51
g-index

59
all docs

59
docs citations

59
times ranked

4220
citing authors

#	ARTICLE	IF	CITATIONS
1	Inkjet Printing of Electrically Conductive Patterns of Carbon Nanotubes. <i>Small</i> , 2006, 2, 1021-1025.	10.0	479
2	Chip cooling with integrated carbon nanotube microfin architectures. <i>Applied Physics Letters</i> , 2007, 90, 123105.	3.3	222
3	Nitrogen-Doped Anatase Nanofibers Decorated with Noble Metal Nanoparticles for Photocatalytic Production of Hydrogen. <i>ACS Nano</i> , 2011, 5, 5025-5030.	14.6	137
4	Enhanced photocatalytic activity of TiO ₂ nanofibers and their flexible composite films: Decomposition of organic dyes and efficient H ₂ generation from ethanol-water mixtures. <i>Nano Research</i> , 2011, 4, 360-369.	10.4	109
5	WS ₂ and MoS ₂ thin film gas sensors with high response to NH ₃ in air at low temperature. <i>Nanotechnology</i> , 2019, 30, 405501.	2.6	106
6	Inkjet printing of transparent and conductive patterns of single-walled carbon nanotubes and PEDOT-PSS composites. <i>Physica Status Solidi (B): Basic Research</i> , 2007, 244, 4336-4340.	1.5	104
7	Thermal oxidation of porous silicon: Study on structure. <i>Applied Physics Letters</i> , 2005, 86, 041501.	3.3	94
8	Gas sensors based on anodic tungsten oxide. <i>Sensors and Actuators B: Chemical</i> , 2011, 153, 293-300.	7.8	90
9	Electrical Transport and Field-Effect Transistors Using Inkjet-Printed SWCNT Films Having Different Functional Side Groups. <i>ACS Nano</i> , 2010, 4, 3318-3324.	14.6	79
10	Carbon Nanotube-Based Electrical Brush Contacts. <i>Advanced Materials</i> , 2009, 21, 2054-2058.	21.0	73
11	Three-Dimensional Carbon Nanotube Scaffolds as Particulate Filters and Catalyst Support Membranes. <i>ACS Nano</i> , 2010, 4, 2003-2008.	14.6	72
12	Novel, smart and RFID assisted critical temperature indicator for supply chain monitoring. <i>Journal of Food Engineering</i> , 2017, 193, 20-28.	5.2	69
13	Evaluation of physicochemical/microbial properties and life cycle assessment (LCA) of PLA-based nanocomposite active packaging. <i>LWT - Food Science and Technology</i> , 2017, 75, 305-315.	5.2	69
14	Inkjet-printed gas sensors: metal decorated WO ₃ nanoparticles and their gas sensing properties. <i>Journal of Materials Chemistry</i> , 2012, 22, 17878.	6.7	66
15	Magnetic-Field Induced Efficient Alignment of Carbon Nanotubes in Aqueous Solutions. <i>Chemistry of Materials</i> , 2007, 19, 787-791.	6.7	61
16	Synthesis of tungsten carbide and tungsten disulfide on vertically aligned multi-walled carbon nanotube forests and their application as non-Pt electrocatalysts for the hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2015, 3, 14609-14616.	10.3	60
17	Nitric oxide gas sensors with functionalized carbon nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , 2007, 244, 4298-4302.	1.5	56
18	Carbon nanotube (CNT) forest grown on diamond-like carbon (DLC) thin films significantly improves electrochemical sensitivity and selectivity towards dopamine. <i>Sensors and Actuators B: Chemical</i> , 2015, 211, 177-186.	7.8	52

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19	CNT-based catalysts for H ₂ production by ethanol reforming. International Journal of Hydrogen Energy, 2010, 35, 12588-12595.	7.1	43
20	Towards one-pot synthesis of menthols from citral: Modifying Supported Ionic Liquid Catalysts (SILCAs) with Lewis and Brønsted acids. Journal of Catalysis, 2009, 263, 209-219.	6.2	42
21	Controlled Ohmic and nonlinear electrical transport in inkjet-printed single-wall carbon nanotube films. Physical Review B, 2008, 77, .	3.2	40
22	Trifluoroacetylazobenzene for optical and electrochemical detection of amines. Journal of Materials Chemistry A, 2015, 3, 4687-4694.	10.3	38
23	Photo-Kelvin probe force microscopy for photocatalytic performance characterization of single filament of TiO ₂ nanofiber photocatalysts. Journal of Materials Chemistry A, 2013, 1, 5715.	10.3	37
24	On-chip integrated vertically aligned carbon nanotube based super- and pseudocapacitors. Scientific Reports, 2017, 7, 16594.	3.3	30
25	Moderate anisotropy in the electrical conductivity of bulk MWCNT/epoxy composites. Carbon, 2010, 48, 1918-1925.	10.3	29
26	Controlled CCVD Synthesis of Robust Multiwalled Carbon Nanotube Films. Journal of Physical Chemistry C, 2008, 112, 6723-6728.	3.1	28
27	Low-temperature growth of multi-walled carbon nanotubes by thermal CVD. Physica Status Solidi (B): Basic Research, 2011, 248, 2500-2503.	1.5	24
28	Industrially benign super-compressible piezoresistive carbon foams with predefined wetting properties: from environmental to electrical applications. Scientific Reports, 2014, 4, 6933.	3.3	24
29	Inkjet printed resistive and chemical-FET carbon nanotube gas sensors. Physica Status Solidi (B): Basic Research, 2008, 245, 2335-2338.	1.5	23
30	Comparison of dye solar cell counter electrodes based on different carbon nanostructures. Thin Solid Films, 2011, 519, 8125-8134.	1.8	23
31	A novel WS ₂ nanowire-nanoflake hybrid material synthesized from WO ₃ nanowires in sulfur vapor. Scientific Reports, 2016, 6, 25610.	3.3	21
32	Fabrication and characterization of single-walled carbon nanotube fiber for electronics applications. Carbon, 2012, 50, 5521-5524.	10.3	19
33	Synthesis and Photocatalytic Performance of Titanium Dioxide Nanofibers and the Fabrication of Flexible Composite Films from Nanofibers. Journal of Nanoscience and Nanotechnology, 2012, 12, 1421-1424.	0.9	19
34	Laser soldering of flip-chips. Optics and Lasers in Engineering, 2006, 44, 112-121.	3.8	18
35	Low-Temperature Growth of Carbon Nanotubes on Bi- and Tri-metallic Catalyst Templates. Topics in Catalysis, 2013, 56, 522-526.	2.8	16
36	Room temperature chemical deposition of palladium nanoparticles in anodic aluminium oxide templates. Nanotechnology, 2006, 17, 1459-1463.	2.6	15

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37	Thin micropatterned multi-walled carbon nanotube films for electrodes. <i>Chemical Physics Letters</i> , 2013, 583, 87-91.	2.6	15
38	Portable cyber-physical system for indoor and outdoor gas sensing. <i>Sensors and Actuators B: Chemical</i> , 2017, 252, 983-990.	7.8	15
39	Novel Printed Nanostructured Gas Sensors. <i>Procedia Engineering</i> , 2011, 25, 896-899.	1.2	14
40	Suppressing tool chatter with novel multi-layered nanostructures of carbon based composite coatings. <i>Journal of Materials Processing Technology</i> , 2015, 223, 292-298.	6.3	14
41	Thermal diffusivity of aligned multi-walled carbon nanotubes measured by the flash method. <i>Physica Status Solidi (B): Basic Research</i> , 2011, 248, 2508-2511.	1.5	12
42	Sharp burnout failure observed in high current-carrying double-walled carbon nanotube fibers. <i>Nanotechnology</i> , 2012, 23, 015703.	2.6	11
43	Photocatalytic activity of nitrogen-doped TiO ₂ -based nanowires: a photo-assisted Kelvin probe force microscopy study. <i>Journal of Nanoparticle Research</i> , 2014, 16, 1.	1.9	11
44	INCREASING CHEMICAL SELECTIVITY OF CARBON NANOTUBE-BASED SENSORS BY FLUCTUATION-ENHANCED SENSING. <i>Fluctuation and Noise Letters</i> , 2010, 09, 277-287.	1.5	10
45	Solder transfer of carbon nanotube microfin coolers to ceramic chips. <i>Applied Thermal Engineering</i> , 2014, 65, 539-543.	6.0	8
46	The Effect of Al Buffer Layer on the Catalytic Synthesis of Carbon Nanotube Forests. <i>Topics in Catalysis</i> , 2015, 58, 1112-1118.	2.8	8
47	High photoresponse of individual WS ₂ nanowire-nanoflake hybrid materials. <i>Applied Physics Letters</i> , 2018, 112, .	3.3	7
48	Drift effect of fluctuation enhanced gas sensing on carbon nanotube sensors. <i>Physica Status Solidi (B): Basic Research</i> , 2008, 245, 2343-2346.	1.5	6
49	Carbon nanotube based sensors and fluctuation enhanced sensing. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2010, 7, 1217-1221.	0.8	6
50	Electrical transport through single-wall carbon nanotube-anodic aluminum oxide-aluminum heterostructures. <i>Nanotechnology</i> , 2010, 21, 035707.	2.6	6
51	Electrocatalytic Properties of Carbon Nanotubes Decorated with Copper and Bimetallic CuPd Nanoparticles. <i>Topics in Catalysis</i> , 2015, 58, 1119-1126.	2.8	6
52	Nanoparticle Dispersions. , 2013, , 729-776.		5
53	Origin and FEM-assisted evaluation of residual stress in thermally oxidized porous silicon. <i>Computational Materials Science</i> , 2005, 34, 123-128.	3.0	4
54	High dynamic stiffness mechanical structures with nanostructured composite coatings deposited by high power impulse magnetron sputtering. <i>Carbon</i> , 2016, 98, 24-33.	10.3	4

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55	Laser-Induced Gold Deposition on p+-Si from Liquid Precursors: A Study on the Reduction of Gold Ions through Competing Dember and Seebeck Effects. Journal of Physical Chemistry B, 2005, 109, 6925-6928.	2.6	2
56	Facile synthesis of nanostructured carbon materials over RANEY [®] nickel catalyst films printed on Al ₂ O ₃ and SiO ₂ substrates. Journal of Materials Chemistry C, 2015, 3, 1823-1829.	5.5	2
57	Gas Sensing and Thermal Transport Through Carbon-Nanotube-Based Nanodevices. Challenges and Advances in Computational Chemistry and Physics, 2014, , 99-136.	0.6	1
58	Thermal management of micro hotspots in electric components with carbon nanotubes. International Journal of Nanotechnology, 2013, 10, 57.	0.2	0