Robert Olejnik

List of Publications by Year
in descending order

44	342	933447	839539
papers	citations	10 h-index	18 g-index

44	44	44	555
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Polyurethane/multiwalled carbon nanotube nanowebs prepared by an electrospinning process. Journal of Applied Polymer Science, 2009, 111, 2711-2714.	2.6	96
2	Polypyrrole Nanotubes and Their Carbonized Analogs: Synthesis, Characterization, Gas Sensing Properties. Sensors, 2016, 16, 1917.	3.8	44
3	The Piezoresistive Highly Elastic Sensor Based on Carbon Nanotubes for the Detection of Breath. Polymers, 2020, 12, 713.	4.5	26
4	Multifunctional flexible and stretchable polyurethane/carbon nanotube strain sensor for human breath monitoring. Polymers for Advanced Technologies, 2019, 30, 1891-1898.	3.2	22
5	Analysis of sensing properties of thermoelectric vapor sensor made of carbon nanotubes/ethylene-octene copolymer composites. Carbon, 2016, 110, 257-266.	10.3	18
6	Poisson effect enhances compression force sensing with oxidized carbon nanotube network/polyurethane sensor. Sensors and Actuators A: Physical, 2018, 271, 76-82.	4.1	13
7	High sensitivity sensor development for Hexamethylphosphoramide by polyaniline coated polyurethane membrane using resistivity assessment technique. Measurement: Journal of the International Measurement Confederation, 2016, 89, 72-77.	5.0	11
8	Antenna of silver nanoparticles mounted on a flexible polymer substrate constructed using inkjet print technology. Japanese Journal of Applied Physics, 2016, 55, 02BB13.	1.5	11
9	Functionalized polyanilines made by nucleophilic addition reaction, applied in gas sensors field. Synthetic Metals, 2016, 215, 127-133.	3.9	11
10	Resistive Sensors for Organic Vapors Based on Nanostructured and Chemically Modified Polyanilines. IEEE Sensors Journal, 2018, 18, 6510-6516.	4.7	11
11	Accelerated Shape Forming and Recovering, Induction, and Release of Adhesiveness of Conductive Carbon Nanotube/Epoxy Composites by Joule Heating. Polymers, 2020, 12, 1030.	4.5	11
12	Pre-Strain Stimulation of Electro-Mechanical Sensitivity of Carbon Nanotube Network/Polyurethane Composites. IEEE Sensors Journal, 2016, 16, 5898-5903.	4.7	10
13	Electromechanical properties of carbon nanotube networks under compression. Measurement Science and Technology, 2011, 22, 124006.	2.6	8
14	The Multiband Fractal Antenna on Polymer Substrate Prepared by Using Inkjet Print Technology Based on Silver Nanoparticles. Advanced Materials Research, 0, 1101, 245-248.	0.3	5
15	Transparent elongation and compressive strain sensors based on aligned carbon nanowalls embedded in polyurethane. Sensors and Actuators A: Physical, 2020, 306, 111946.	4.1	5
16	Characterization of Carbon Nanotube Based Polymer Composites Through Rheology. , 2009, , .		4
17	Tuning the Molecular Sensitivity of Conductive Polymer Resistive Sensors by Chemical Functionalization. Key Engineering Materials, 2014, 605, 597-600.	0.4	4
18	Improving sensitivity of the polyurethane/CNT laminate strain sensor by controlled mechanical preload. IOP Conference Series: Materials Science and Engineering, 2016, 108, 012022.	0.6	4

#	Article	IF	Citations
19	Polyurethane-Carbon Nanotubes Composite Dual Band Antenna for Wearable Applications. Polymers, 2020, 12, 2759.	4.5	4
20	Ethylene-Octene-Copolymer with Embedded Carbon and Organic Conductive Nanostructures for Thermoelectric Applications. Polymers, 2020, 12, 1316.	4.5	4
21	Microstrip Resonant Sensor for Differentiation of Components in Vapor Mixtures. Sensors, 2021, 21, 298.	3.8	3
22	Strengthening Mechanism of Electrothermal Actuation in the Epoxy Composite with an Embedded Carbon Nanotube Nanopaper. Nanomaterials, 2021, 11, 1529.	4.1	3
23	Improved Selectivity of Oxidized Multiwall Carbon Nanotube Network for Detection of Ethanol Vapor. Key Engineering Materials, 0, 495, 83-86.	0.4	2
24	Effect of pre-strain and KMnO4 oxidation of carbon nanotubes embedded in polyurethane on strain dependent electrical resistance of the composite. Sensor Review, 2018, 38, 163-170.	1.8	2
25	Ammonia plasma-treated carbon nanotube/epoxy composites and their using in sensing applications. EXPRESS Polymer Letters, 2022, 16, 85-101.	2.1	2
26	Selectivity of Multi-wall Carbon Nanotube Network Sensoric Units to Ethanol Vapors Achieved by Carbon Nanotube Oxidation. Journal of Materials Science Research, 2011, 1, .	0.1	1
27	Sensing Element Made of Multi-Wall Carbon Nanotube Network for Organic Vapor Detection. Key Engineering Materials, 0, 495, 355-358.	0.4	1
28	Different Kinds of Carbon-Based Material for Resistive Gas Sensing. Key Engineering Materials, 2013, 543, 269-272.	0.4	1
29	Temperature Dependence of Electrical Conductivity of Multi-Walled Carbon Nanotube Networks in a Polystyrene Composite. Key Engineering Materials, 2013, 543, 356-359.	0.4	1
30	Deformation theory of an electro-conductive composite composed of entangled network of carbon nanotubes embedded in elastic polyurethane. , 2013, , .		1
31	Using graphene/styrene-isoprene-styrene copolymer composite thin film as a flexible microstrip antenna for the detection of heptane vapors. Journal of Physics: Conference Series, 2018, 987, 012022.	0.4	1
32	The sensing properties of carbon nanotube filled copolymers for VOC vapors detection. , 2020, , .		1
33	Enhanced PVDF Electrospun Nanofiber Capacitive Pressure Sensor for Wearable Electronic. , 2020, , .		1
34	Sensing Element Made of Multi-Wall Carbon Nanotube Network for Organic Vapor Detection. Key Engineering Materials, 2011, 495, 9-12.	0.4	0
35	Plasma Treatment as a Way of Increasing the Selectivity of Carbon Nanotube Networks for Organic Vapor Sensing Elements. Key Engineering Materials, 2013, 543, 410-413.	0.4	0
36	A Pressure Sensing Conductive Polymer Composite with Carbon Nanotubes for Biomechanical Applications. Key Engineering Materials, 0, 543, 43-46.	0.4	0

#	Article	IF	Citations
37	The Multifunctional Composite on the Base of Carbon Nanotubes Network and its Use as a Passive Antenna and Gas Sensing Element. Key Engineering Materials, 2014, 605, 322-325.	0.4	0
38	Effect of Crack Formation under Elongation in Carbon Nanotube Networks Embedded in Polyurethane. Key Engineering Materials, 0, 605, 231-234.	0.4	0
39	Enhanced Electromechanical Properties of Carbon Nanotube/Polyurethan Composite by KMnO₄ Oxidation. Key Engineering Materials, 0, 605, 235-238.	0.4	0
40	Sensing element for detection of polar organic vapours on the base of polyaniline-composite - Effect of substrate surface area. IOP Conference Series: Materials Science and Engineering, 2016, 108, 012006.	0.6	0
41	High elastic polyurethane/carbon nanotube composite laminate for structure health monitoring by gain shifting of antenna sensing element. IOP Conference Series: Materials Science and Engineering, 2016, 108, 012024.	0.6	0
42	Electrically-Controlled Permeation of Vapors Through Carbon Nanotube Network-Based Membranes. IEEE Nanotechnology Magazine, 2018, 17, 332-337.	2.0	0
43	Flexible polymer/multi-walled carbon nanotube composite films for thermoelectric generators. AIP Conference Proceedings, 2019, , .	0.4	0
44	Poly (vinylidene fluoride) Electrospun Non-Woven Nanofibers based Piezoelectric Nanogenerator. , 2020, , .		0