

# Maria Omastova

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7281388/publications.pdf>

Version: 2024-02-01

188  
papers

6,788  
citations

61857

43  
h-index

74018

75  
g-index

192  
all docs

192  
docs citations

192  
times ranked

8123  
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis and structural study of polypyrroles prepared in the presence of surfactants. <i>Synthetic Metals</i> , 2003, 138, 447-455.	2.1	567
2	Polyaniline and polypyrrole: A comparative study of the preparation. <i>European Polymer Journal</i> , 2007, 43, 2331-2341.	2.6	369
3	Study of polypyrrole aging by XPS, FTIR and conductivity measurements. <i>Polymer Degradation and Stability</i> , 2015, 120, 392-401.	2.7	230
4	Aqueous phase hydrogenation of furfural to furfuryl alcohol over Pd/Cu catalysts. <i>Applied Catalysis A: General</i> , 2015, 502, 78-85.	2.2	212
5	Polyaniline and polypyrrole prepared in the presence of surfactants: a comparative conductivity study. <i>Polymer</i> , 2003, 44, 1353-1358.	1.8	199
6	Synthesis and characterization of polythiophenes prepared in the presence of surfactants. <i>Synthetic Metals</i> , 2007, 157, 23-29.	2.1	166
7	Layered double hydroxides as the next generation inorganic anion exchangers: Synthetic methods versus applicability. <i>Advances in Colloid and Interface Science</i> , 2017, 245, 62-80.	7.0	165
8	Electrical/dielectric properties and conduction mechanism in melt processed polyamide/multi-walled carbon nanotubes composites. <i>Polymer</i> , 2009, 50, 5103-5111.	1.8	142
9	A comparative study on the electrical and mechanical behaviour of multi-walled carbon nanotube composites prepared by diluting a masterbatch with various types of polypropylenes. <i>Journal of Applied Polymer Science</i> , 2009, 113, 2536-2551.	1.3	141
10	Strain sensing in polymer/carbon nanotube composites by electrical resistance measurement. <i>Composites Part B: Engineering</i> , 2015, 68, 162-169.	5.9	128
11	Structure-property relationships in polyamide 6/multi-walled carbon nanotubes nanocomposites. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2009, 47, 764-774.	2.4	113
12	Effect of polymerization conditions on the properties of polypyrrole prepared in the presence of sodium bis(2-ethylhexyl) sulfosuccinate. <i>Synthetic Metals</i> , 2004, 143, 153-161.	2.1	108
13	Nanocarbon based ionic actuators—a review. <i>Smart Materials and Structures</i> , 2013, 22, 104022.	1.8	108
14	Electrical properties and stability of polypyrrole containing conducting polymer composites. <i>Synthetic Metals</i> , 1996, 81, 49-57.	2.1	105
15	Synthesis and interfacial properties of montmorillonite/polypyrrole nanocomposites. <i>Polymer</i> , 2006, 47, 569-576.	1.8	99
16	Synthesis and characterization of red mud/polyaniline composites: Electrical properties and thermal stability. <i>European Polymer Journal</i> , 2007, 43, 2471-2480.	2.6	96
17	Surface Characterization of Polyaniline-Coated Polystyrene Latexes. <i>Langmuir</i> , 1998, 14, 5032-5038.	1.6	89
18	Applications versus properties of Mg/Al layered double hydroxides provided by their syntheses methods: Alkoxide and alkoxide-free sol-gel syntheses and hydrothermal precipitation. <i>Chemical Engineering Journal</i> , 2013, 234, 284-299.	6.6	87

#	ARTICLE	IF	CITATIONS
19	Polypyrrole coating of inorganic and organic materials by chemical oxidative polymerisation. <i>Chemical Papers</i> , 2012, 66, .	1.0	82
20	Ultrasensitive Impedimetric Lectin Biosensors with Efficient Antifouling Properties Applied in Glycoprofiling of Human Serum Samples. <i>Analytical Chemistry</i> , 2013, 85, 7324-7332.	3.2	80
21	Effect of aspect ratio on thermal conductivity of high density polyethylene/multi-walled carbon nanotubes nanocomposites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2016, 82, 208-213.	3.8	79
22	Chemical preparation and characterization of conductive poly(methyl methacrylate)/polypyrrole composites. <i>Polymer</i> , 1998, 39, 6559-6566.	1.8	78
23	Relation between electrical and mechanical properties of conducting polymer composites. <i>Journal of Applied Polymer Science</i> , 2001, 82, 1903-1906.	1.3	75
24	Montmorillonite/polypyrrole nanocomposites. The effect of organic modification of clay on the chemical and electrical properties. <i>Materials Science and Engineering C</i> , 2006, 26, 306-313.	3.8	75
25	Electrical properties of carbon black-filled polymer composites. <i>Macromolecular Symposia</i> , 2001, 170, 249-256.	0.4	73
26	Tactile device based on opto-mechanical actuation of liquid crystal elastomers. <i>Sensors and Actuators A: Physical</i> , 2014, 208, 104-112.	2.0	72
27	Electrical and mechanical properties of expanded graphite/high density polyethylene nanocomposites. <i>Composites Part B: Engineering</i> , 2013, 53, 226-233.	5.9	64
28	Polythiophene/SiO <sub>2</sub> nanocomposites prepared in the presence of surfactants and their application to glucose biosensing. <i>Synthetic Metals</i> , 2009, 159, 2022-2028.	2.1	60
29	Electromagnetic absorption efficiency of polypropylene/montmorillonite/polypyrrole nanocomposites. <i>Materials &amp; Design</i> , 2011, 32, 2006-2011.	5.1	60
30	Thermal decomposition of polyolefin/carbon black composites. <i>Journal of Analytical and Applied Pyrolysis</i> , 2005, 74, 204-214.	2.6	58
31	Electrical and mechanical properties of conducting polymer composites. <i>Synthetic Metals</i> , 1999, 102, 1251-1252.	2.1	56
32	Polyaniline-coated cellulose fibers decorated with silver nanoparticles. <i>Chemical Papers</i> , 2008, 62, .	1.0	54
33	Thin polyaniline and polyaniline/carbon nanocomposite films for gas sensing. <i>Thin Solid Films</i> , 2011, 519, 4123-4127.	0.8	54
34	Synthesis, Electrical Properties and Stability of Polypyrrole-Containing Conducting Polymer Composites. <i>Polymer International</i> , 1997, 43, 109-116.	1.6	53
35	Preparation and characterization of electrically conductive polypropylene/polypyrrole composites. <i>European Polymer Journal</i> , 1996, 32, 681-689.	2.6	52
36	One-step UV-induced modification of cellulose fabrics by polypyrrole/silver nanocomposite films. <i>Journal of Colloid and Interface Science</i> , 2013, 393, 130-137.	5.0	49

#	ARTICLE	IF	CITATIONS
37	Reliable determination of the few-layer graphene oxide thickness using Raman spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2016, 47, 391-394.	1.2	49
38	Surface Modification of Cellulose Nanocrystals with Succinic Anhydride. <i>Polymers</i> , 2019, 11, 866.	2.0	48
39	Effect of Surfactants and Manufacturing Methods on the Electrical and Thermal Conductivity of Carbon Nanotube/Silicone Composites. <i>Molecules</i> , 2012, 17, 13157-13174.	1.7	46
40	Thermal ageing of conducting polymeric composites. <i>Polymer Degradation and Stability</i> , 2003, 82, 251-256.	2.7	45
41	Surface properties and conductivity of bis(2-ethylhexyl) sulfosuccinate-containing polypyrrole. <i>Applied Surface Science</i> , 2005, 249, 303-314.	3.1	44
42	Synthesis of poly(3,4-ethylenedioxythiophene)/titanium dioxide nanocomposites in the presence of surfactants and their properties. <i>Synthetic Metals</i> , 2012, 162, 1451-1458.	2.1	44
43	Polypyrrole/silver composites prepared by single-step synthesis. <i>Synthetic Metals</i> , 2013, 166, 57-62.	2.1	44
44	Electrochemical performance of composites made of rGO with Zn-MOF and PANI as electrodes for supercapacitors. <i>Electrochimica Acta</i> , 2021, 367, 137563.	2.6	44
45	The preparation and properties of sodium and organomodified-montmorillonite/polypyrrole composites: A comparative study. <i>Synthetic Metals</i> , 2007, 157, 347-357.	2.1	42
46	Polypyrrole-coated multi-walled carbon nanotubes for the simple preparation of counter electrodes in dye-sensitized solar cells. <i>Synthetic Metals</i> , 2015, 210, 323-331.	2.1	41
47	Conductive polymer-coated textiles: The role of fabric treatment by pyrrole-functionalized triethoxysilane. <i>Synthetic Metals</i> , 2007, 157, 914-923.	2.1	40
48	A versatile route for surface modification of carbon, metals and semi-conductors by diazonium salt-initiated photopolymerization. <i>Surface Science</i> , 2011, 605, 1889-1899.	0.8	40
49	Properties of scaffolds prepared by fused deposition modeling of poly(hydroxyalkanoates). <i>International Journal of Biological Macromolecules</i> , 2020, 161, 364-376.	3.6	39
50	Polypyrrole and polyaniline prepared with cerium(IV) sulfate oxidant. <i>Synthetic Metals</i> , 2010, 160, 701-707.	2.1	38
51	Study of the reinforcing mechanism and strain sensing in a carbon black filled elastomer. <i>Composites Part B: Engineering</i> , 2015, 80, 20-26.	5.9	38
52	Thermal decomposition of polypyrroles. <i>Journal of Thermal Analysis and Calorimetry</i> , 2007, 88, 515-521.	2.0	35
53	Electrochemical properties of lignin/polypyrrole composites and their carbonized analogues. <i>Materials Chemistry and Physics</i> , 2018, 213, 352-361.	2.0	35
54	Size effects of graphene nanoplatelets on the properties of high-density polyethylene nanocomposites: morphological, thermal, electrical, and mechanical characterization. <i>Beilstein Journal of Nanotechnology</i> , 2020, 11, 167-179.	1.5	35

#	ARTICLE	IF	CITATIONS
55	Novel silicon carbide/polypyrrole composites; preparation and physicochemical properties. <i>Materials Research Bulletin</i> , 2005, 40, 749-765.	2.7	34
56	d,l-lysine functionalized Fe <sub>3</sub> O <sub>4</sub> nanoparticles for detection of cancer cells. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 163, 236-245.	2.5	34
57	Surface modification of low-density polyethylene with poly(2-ethyl-2-oxazoline) using a low-pressure plasma treatment. <i>Vacuum</i> , 2014, 100, 53-56.	1.6	33
58	Surfactant-assisted control of the surface energy and interfacial molecular interactions of polypyrrole. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2007, 293, 28-38.	2.3	32
59	Photo-actuating materials based on elastomers and modified carbon nanotubes. <i>Journal of Nanophotonics</i> , 2012, 6, 063522.	0.4	30
60	Mechanical and electrical properties of composites based on thermoplastic matrices and conductive cellulose fibers. <i>Journal of Applied Polymer Science</i> , 2006, 101, 133-142.	1.3	29
61	Preparation and photothermal characterization of nanocomposites based on high density polyethylene filled with expanded and unexpanded graphite: Particle size and shape effects. <i>International Journal of Thermal Sciences</i> , 2012, 62, 50-55.	2.6	29
62	Nanocomposite photoactuators based on an ethylene vinyl acetate copolymer filled with carbon nanotubes. <i>Sensors and Actuators B: Chemical</i> , 2013, 186, 701-710.	4.0	29
63	Towards conducting inks: Polypyrrole-silver colloids. <i>Electrochimica Acta</i> , 2014, 122, 296-302.	2.6	29
64	Acid Free Oxidation and Simple Dispersion Method of MWCNT for High-Performance CFRP. <i>Nanomaterials</i> , 2018, 8, 912.	1.9	29
65	On the ozone degradation of polypyrrole. <i>Polymer Degradation and Stability</i> , 2003, 82, 487-495.	2.7	28
66	Efficient Covalent Modification of Multiwalled Carbon Nanotubes with Diazotized Dyes in Water at Room Temperature. <i>Langmuir</i> , 2017, 33, 6677-6690.	1.6	28
67	Conductive polypropylene/clay/polypyrrole nanocomposites. <i>Polymer Engineering and Science</i> , 2006, 46, 1069-1078.	1.5	27
68	Preparation, surface chemistry, and electrical conductivity of novel silicon carbide/polypyrrole composites containing an anionic surfactant. <i>Polymer Engineering and Science</i> , 2007, 47, 1198-1206.	1.5	27
69	Impact of plasma treatment on electrical properties of TiO <sub>2</sub> /RuO <sub>2</sub> -based DRAM capacitor. <i>Journal Physics D: Applied Physics</i> , 2013, 46, 385304.	1.3	27
70	Conducting electrospun polycaprolactone/polypyrrole fibers. <i>Synthetic Metals</i> , 2018, 235, 80-88.	2.1	27
71	Wettability of MXene and its interfacial adhesion with epoxy resin. <i>Materials Chemistry and Physics</i> , 2021, 257, 123820.	2.0	27
72	Morphology, microhardness, and electrical properties of composites based on polypropylene, montmorillonite, and polypyrrole. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2009, 47, 407-423.	2.4	26

#	ARTICLE	IF	CITATIONS
73	Interface engineered HfO <sub>2</sub> -based 3D vertical ReRAM. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 215102.	1.3	26
74	Electrochemical performance of composite electrodes based on rGO, Mn/Cu metal-organic frameworks, and PANI. <i>Scientific Reports</i> , 2022, 12, 664.	1.6	26
75	Poly(propylene)/montmorillonite/polypyrrole composites: structure and conductivity. <i>Polymers for Advanced Technologies</i> , 2006, 17, 715-726.	1.6	25
76	Numerical investigation of the mechanical properties of a novel hybrid polymer composite reinforced with graphene and MXene nanosheets. <i>Computational Materials Science</i> , 2020, 174, 109497.	1.4	25
77	Indirect methods for the determination of optimal processing conditions in conductive polypropylene/carbon nanotubes composites. <i>Chemical Physics Letters</i> , 2010, 498, 125-128.	1.2	24
78	Influence of surface treatment of multiwall carbon nanotubes on the properties of polypropylene/carbon nanotubes nanocomposites. <i>Polymers for Advanced Technologies</i> , 2011, 22, 38-47.	1.6	23
79	Anti-hydrolysis effect of aromatic carbodiimide in poly(lactic acid)/wood flour composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2017, 103, 283-291.	3.8	23
80	Nonisothermal Crystallization Kinetics and Microhardness of PP/CNT Composites. <i>Journal of Macromolecular Science - Physics</i> , 2008, 47, 1197-1210.	0.4	22
81	Fast low-temperature plasma reduction of monolayer graphene oxide at atmospheric pressure. <i>Nanotechnology</i> , 2017, 28, 145601.	1.3	22
82	Electrochemical preparation of thick porous polypyrrole layers. <i>Synthetic Metals</i> , 1993, 53, 227-235.	2.1	21
83	Effect of crosslinking on the properties of composites based on LDPE and conducting organic filler. <i>European Polymer Journal</i> , 2006, 42, 2379-2388.	2.6	21
84	X-ray photoelectron spectroscopy as detection tool for coordinated or uncoordinated fluorine atoms demonstrated on fluoride systems NaF, K <sub>2</sub> TaF <sub>7</sub> , K <sub>3</sub> TaF <sub>8</sub> , K <sub>2</sub> ZrF <sub>6</sub> , Na <sub>7</sub> Zr <sub>6</sub> F <sub>31</sub> and K <sub>3</sub> ZrF <sub>7</sub> . <i>Solid State Sciences</i> , 2012, 14, 828-832.	1.5	21
85	Effects of conductive graphite filler loading on physical properties of high-density polyethylene composite. <i>Polymer Composites</i> , 2012, 33, 1071-1076.	2.3	20
86	The effect of surface modification of microfibrillated cellulose (MFC) by acid chlorides on the structural and thermomechanical properties of biopolyamide 4.10 nanocomposites. <i>Industrial Crops and Products</i> , 2018, 116, 97-108.	2.5	20
87	Remarkable differences in the voltammetric response towards hydrogen peroxide, oxygen and Ru(NH <sub>3</sub> ) <sub>6</sub> <sup>3+</sup> of electrode interfaces modified with HF or LiF-HCl etched Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene. <i>Mikrochimica Acta</i> , 2020, 187, 52.	2.5	20
88	Properties and morphology of polypyrrole containing a surfactant. <i>Synthetic Metals</i> , 2003, 135-136, 437-438.	2.1	19
89	Strain and Damage Sensing in Polymer Composites and Nanocomposites with Conducting Fillers. <i>Procedia Engineering</i> , 2015, 114, 590-597.	1.2	19
90	Surface characterizations of conductive poly(methyl methacrylate)/polypyrrole composites. <i>Journal of Materials Science</i> , 2000, 35, 1743-1749.	1.7	18

#	ARTICLE	IF	CITATIONS
91	Piezoresistivity of conductive polymer nanocomposites: Experiment and modeling. Journal of Reinforced Plastics and Composites, 2018, 37, 1085-1098.	1.6	18
92	Structural transformation and nature of defects in titanium carbide treated in different redox atmospheres. RSC Advances, 2020, 10, 25602-25608.	1.7	18
93	A Multifunctional Graphene Oxide Platform for Targeting Cancer. Cancers, 2019, 11, 753.	1.7	17
94	Electrospinning of Ethylene Vinyl Acetate/Carbon Nanotube Nanocomposite Fibers. Polymers, 2019, 11, 550.	2.0	17
95	Synthesis and enhanced photocatalytic activity of nitrogen-doped triphasic TiO <sub>2</sub> nanoparticles. Journal of Photochemistry and Photobiology A: Chemistry, 2019, 377, 92-100.	2.0	17
96	Preparation of polypyrrole/multi-walled carbon nanotube hybrids by electropolymerization combined with a coating method for counter electrodes in dye-sensitized solar cells. Chemical Papers, 2018, 72, 1651-1667.	1.0	16
97	Development and characterization of composite fibers based on tragacanth gum and polyvinylpyrrolidone. Composites Part B: Engineering, 2019, 169, 79-87.	5.9	16
98	Strain Sensing Coatings for Large Composite Structures Based on 2D MXene Nanoparticles. Sensors, 2021, 21, 2378.	2.1	16
99	Morphology, conductivity, and mechanical properties of polypyrrole-containing composites. Journal of Macromolecular Science - Physics, 1999, 38, 737-748.	0.4	15
100	Switching effect in pressure deformation of silicone rubber/polypyrrole composites. Synthetic Metals, 2004, 146, 121-126.	2.1	15
101	Elastomeric photo-actuators and their investigation by confocal laser scanning microscopy. Smart Materials and Structures, 2013, 22, 104001.	1.8	15
102	Surface modification of tungsten disulfide with polypyrrole for enhancement of the conductivity and its impact on hydrogen evolution reaction. Applied Surface Science, 2019, 492, 497-503.	3.1	15
103	Selected Electrochemical Properties of 4,4'-((1E,1'E)-((1,2,4-Thiadiazole-3,5-diyl)bis(azaneylylidene))bis(methaneylylidene))bis(N,N-di-p-tolylaniline).3 towards Perovskite Solar Cells with 14.4% Efficiency. Materials, 2020, 13, 2440.		15
104	Effect of lead thiocyanate ions on performance of tin-based perovskite solar cells. Journal of Power Sources, 2020, 458, 228067.	4.0	15
105	Stability of electrical properties of carbon black-filled rubbers. Journal of Applied Polymer Science, 2009, 112, 2918-2924.	1.3	14
106	Polyamide grafted with polypyrrole: formation, properties, and stability. Chemical Papers, 2013, 67, .	1.0	14
107	Reduced percolation concentration in polypropylene/expanded graphite composites: Effect of viscosity and polypyrrole. Journal of Applied Polymer Science, 2015, 132, .	1.3	14
108	Strain and damage monitoring in SBR nanocomposites under cyclic loading. Composites Part B: Engineering, 2017, 131, 50-61.	5.9	14

#	ARTICLE	IF	CITATIONS
109	Catalytic activity of mono and bimetallic Zn/Cu/MWCNTs catalysts for the thermocatalyzed conversion of methane to hydrogen. <i>Applied Surface Science</i> , 2017, 396, 574-581.	3.1	14
110	Label-free tracking of nanosized graphene oxide cellular uptake by confocal Raman microscopy. <i>Analyst</i> , 2018, 143, 3686-3692.	1.7	14
111	An elevated concentration of MoS <sub>2</sub> lowers the efficacy of liquid-phase exfoliation and triggers the production of MoO <sub>x</sub> nanoparticles. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 12396-12405.	1.3	14
112	Novel Hybrid Polymer Composites with Graphene and MXene Nano-Reinforcements: Computational Analysis. <i>Polymers</i> , 2021, 13, 1013.	2.0	14
113	Stability of electrical and mechanical properties of polyethylene/carbon black composites. <i>Macromolecular Symposia</i> , 2001, 170, 231-240.	0.4	13
114	Properties and thermal decomposition of polypyrrole prepared in the presence of sodium bis(2-ethylhexyl) sulfosuccinate. <i>Designed Monomers and Polymers</i> , 2004, 7, 633-646.	0.7	13
115	Photothermal Characterization of Nanocomposites Based on High Density Polyethylene (HDPE) Filled with Expanded Graphite. <i>International Journal of Thermophysics</i> , 2012, 33, 2110-2117.	1.0	13
116	Dynamic Mechanical and Dielectric Properties of Ethylene Vinyl Acetate/Carbon Nanotube Composites. <i>Journal of Macromolecular Science - Physics</i> , 2014, 53, 496-512.	0.4	13
117	Thermo-Active Behavior of Ethylene-Vinyl Acetate   Multiwall Carbon Nanotube Composites Examined by in Situ near-Edge X-ray Absorption Fine-Structure Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2014, 118, 3733-3741.	1.5	13
118	Adsorption of an active molecule on the surface of halloysite for controlled release application: Interaction, orientation, consequences. <i>Applied Clay Science</i> , 2016, 132-133, 167-174.	2.6	13
119	Spectral characterisation of new organic fluorescent dyes with an alkoxy silane moiety and their utilisation for the labelling of layered silicates. <i>Chemical Papers</i> , 2013, 67, .	1.0	12
120	Investigation of beech wood modified by radio-frequency discharge plasma. <i>Vacuum</i> , 2015, 119, 88-94.	1.6	12
121	Plasma grafting of polypropylene with organosilanes and its alkylamine treatment. <i>Vacuum</i> , 2016, 127, 38-44.	1.6	12
122	Flexible paper@carbon nanotube@polypyrrole composites: The combined pivotal roles of diazonium chemistry and sonochemical polymerization. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018, 538, 350-360.	2.3	12
123	Targeting of carbonic anhydrase IX-positive cancer cells by glycine-coated superparamagnetic nanoparticles. <i>Colloids and Surfaces B: Biointerfaces</i> , 2021, 205, 111893.	2.5	12
124	Multiwalled Carbon Nanotube-Clicked Poly(4-vinyl pyridine) as a Hairy Platform for the Immobilization of Gold Nanoparticles. <i>Journal of Colloid Science and Biotechnology</i> , 2013, 2, 53-61.	0.2	12
125	Combined electrochemical and chemical synthesis of thick polypyrrole layers and their characterization. <i>Polymer International</i> , 1994, 34, 151-156.	1.6	11
126	Preparation and Properties of Conducting Polyolefins Composites. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 1998, 35, 1117-1126.	1.2	11



#	ARTICLE	IF	CITATIONS
127	Styrene Butadiene Rubber/Carbon Filler-Based Vapor Sensors. <i>Macromolecular Chemistry and Physics</i> , 2016, 217, 1149-1160.	1.1	11
128	Surface-governed electrochemical hydrogenation in FeNi-based metallic glass. <i>Journal of Power Sources</i> , 2020, 475, 228700.	4.0	11
129	Plasma-enhanced modification of multiwalled carbon nanotube with conducting polymers for dye sensitized solar cells. <i>Polymer Composites</i> , 2018, 39, 668-674.	2.3	10
130	Electrospinning of Ethylene Vinyl Acetate/Poly(Lactic Acid) Blends on a Water Surface. <i>Materials</i> , 2018, 11, 1737.	1.3	10
131	Thermally Treated Graphene Oxide/Polyacrylonitrile Based Electrospun Carbon Nanofiber Precursor. <i>Journal of Nanoscience and Nanotechnology</i> , 2020, 20, 3448-3459.	0.9	10
132	Elastic composites with PDMS matrix and polysulfone-supported silver nanoparticles as filler. <i>Polymer</i> , 2021, 217, 123480.	1.8	10
133	Clay/Conductive Polymer Nanocomposites. , 2017, , 199-237.		9
134	Oxidative electropolymerization of pyrrole in the presence of pyridinium chlorochromate. <i>Journal of Electroanalytical Chemistry</i> , 1993, 361, 169-175.	1.9	8
135	The effect of pressure deformation on dielectric and conducting properties of silicone rubber/polypyrrole composites in the percolation threshold region. <i>Smart Materials and Structures</i> , 2005, 14, 949-952.	1.8	8
136	Effects of CNT inclusions on structure and dielectric properties of PVDF/CNT nanocomposites. <i>Phase Transitions</i> , 2016, 89, 717-730.	0.6	8
137	Polyfuran-based multi-walled carbon nanotubes and graphene nanocomposites as counter electrodes for dye-sensitized solar cells. <i>Research on Chemical Intermediates</i> , 2018, 44, 3325-3335.	1.3	8
138	Dye diazonium-modified multiwalled carbon nanotubes: Light harvesters for elastomeric optothermal actuators. <i>Vacuum</i> , 2018, 155, 178-184.	1.6	8
139	Morphological, electrical, mechanical and thermal properties of high-density polyethylene/multiwall carbon nanotube nanocomposites: effect of aspect ratio. <i>Materials Research Express</i> , 2019, 6, 095079.	0.8	8
140	Origin of Electrocatalytic Activity in Amorphous Nickel-Metalloid Electrodeposits. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 23689-23701.	4.0	8
141	Enhancement of Interfacial Hydrogen Interactions with Nanoporous Gold-Containing Metallic Glass. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 42613-42623.	4.0	8
142	Wettability of MXene films. <i>Journal of Colloid and Interface Science</i> , 2022, 622, 759-768.	5.0	8
143	The processing and properties of conductive polypropylene/polypyrrole composites. <i>Macromolecular Symposia</i> , 1996, 102, 265-272.	0.4	7
144	Thermal Transitions of Polypropylene in Blends and Composites with Polypyrrole and Polypyrrole/Montmorillonite. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2007, 56, 865-884.	1.8	7

#	ARTICLE	IF	CITATIONS
145	Prestrain relaxation in non-covalently modified ethylene-vinyl acetate   PyChol   multiwall carbon nanotube nanocomposites. <i>APL Materials</i> , 2014, 2, .	2.2	7
146	Influence of preparation methods on the electrical and nanomechanical properties of poly(methyl Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 132, .	1.3	7
147	Arabinogalactan:Î²-glucan as novel biodegradable carriers for recombinant human thrombin. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2016, 27, 202-217.	1.9	7
148	Plasma-based preparation of polyaniline/graphene and polypyrrole/graphene composites for dye-sensitized solar cells as counter electrodes. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2018, 55, 317-323.	1.2	7
149	Screen-printed PEDOT:PSS/halloysite counter electrodes for dye-sensitized solar cells. <i>Synthetic Metals</i> , 2019, 256, 116148.	2.1	7
150	Solvent-Free Ultrasonic Dispersion of Nanofillers in Epoxy Matrix. <i>Polymers</i> , 2021, 13, 308.	2.0	7
151	Exceptionally redox-active precursors in the synthesis of gold core-tin oxide shell nanostructures. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 616, 126266.	2.3	7
152	Preparation and Characterization of Magnetic Nanoparticles. <i>Acta Physica Polonica A</i> , 2018, 133, 704-706.	0.2	7
153	Exfoliation behavior of montmorillonite modified by poly(oxyalkylene)s in polypropylene and the properties of the resulting nanocomposites. <i>Polymer Engineering and Science</i> , 2007, 47, 1262-1271.	1.5	6
154	Nano opto-mechanical systems (NOMS) as a proposal for tactile displays. <i>Proceedings of SPIE</i> , 2011, , .	0.8	6
155	Electrical and Mechanical Properties of Ethylene Vinyl Acetate Based Composites. <i>Materials Science Forum</i> , 0, 714, 193-199.	0.3	6
156	The synergy of ultrasonic treatment and organic modifiers for tuning the surface chemistry and conductivity of multiwalled carbon nanotubes. <i>Surface and Interface Analysis</i> , 2014, 46, 940-944.	0.8	6
157	Silver thin films generated by Pulsed Laser Deposition on plasma-treated surface of silicones to get dielectric elastomer transducers. <i>Surface and Coatings Technology</i> , 2019, 358, 282-292.	2.2	6
158	Thermal stabilization of poly(acrylonitrile-co-itaconic acid) nanofibers as carbon nanofiber precursor. <i>Polymer Degradation and Stability</i> , 2020, 175, 109142.	2.7	6
159	Study on the electrical conductivity and morphology of porous polypyrrole layers prepared electrochemically in the presence of pyridinium chlorochromate. <i>Journal of Materials Science</i> , 1994, 29, 3403-3407.	1.7	5
160	Study on the influence of water on the electrochemical preparation and conductivity of polypyrrole films and porous layers. <i>European Polymer Journal</i> , 1994, 30, 1319-1325.	2.6	5
161	Strain Sensing in Polymer/Carbon Nanotube Composites by Electrical Resistance Measurement. <i>Procedia Engineering</i> , 2012, 47, 774-777.	1.2	5
162	Molecular targeting of bioconjugated graphene oxide nanocarriers revealed at a cellular level using label-free Raman imaging. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2020, 30, 102280.	1.7	5

#	ARTICLE	IF	CITATIONS
163	Preparation and Properties of Polypropylene/Polypyrrole Composite. Materials Science Forum, 1995, 191, 47-52.	0.3	4
164	Stability of electrical properties of conducting polymer composites. Macromolecular Symposia, 2001, 170, 241-248.	0.4	4
165	Gas phase hydroxylation of benzene with air-ammonia mixture over copper-based phosphate catalysts. Applied Catalysis A: General, 2014, 481, 71-78.	2.2	4
166	Interface Dynamics in Strained Polymer Nanocomposites: Slip Wrapping as a Prelude to Mechanical Backbone Twisting Derived from Sonication-Induced Amorphization. Journal of Physical Chemistry C, 2015, 119, 20091-20099.	1.5	4
167	In situ electron microscopy of Braille microsystems: photo-actuation of ethylene vinyl acetate/carbon nanotube composites. Materials Research Express, 2015, 2, 025601.	0.8	4
168	Electrical Conductivity of Glass Fiber-Reinforced Plastic with Nanomodified Matrix for Damage Diagnostic. Materials, 2021, 14, 4485.	1.3	4
169	Plastic ingestion by the Wels catfish ( <i>Silurus glanis</i> L.): detailed chemical analysis and degradation state evaluation. Toxicology Reports, 2021, 8, 1869-1876.	1.6	4
170	Enhanced Oxygen Evolution Reaction of Zr-Cu-Ni-Al Metallic Glass with an Oxide Layer in Alkaline Media. ACS Catalysis, 2022, 12, 9190-9200.	5.5	4
171	Effect of Surface Modification of Multiwall Carbon Nanotubes on their Electrical and Surface Properties. Materials Science Forum, 0, 636-637, 676-681.	0.3	3
172	Anomaly in the temperature dependence of the electrical conductivity of foam polypyrrole. Synthetic Metals, 1990, 36, 253-262.	2.1	2
173	Size effect of hybrid carbon nanofillers on the synergetic enhancement of the properties of HDPE-based nanocomposites. Nanotechnology, 2021, 32, 315704.	1.3	2
174	In Situ Deformation Monitoring of 3D Woven Composite T-Profile Using MXene Nanoparticles. Materials, 2022, 15, 2730.	1.3	2
175	Temperature Relaxation of DC Conductivity of Doped Polypyrrole. Materials Science Forum, 1993, 122, 93-98.	0.3	1
176	Photoactuators on the base of polymeric elastomers and multiwall carbon nanotubes. , 2011, , .		1
177	Polyethylene Glycol-Modified Poly(Styrene-co-Ethylene/Butylene-co-Styrene)/Carbon Nanotubes Composite for Humidity Sensing. Frontiers in Materials, 2019, 5, .	1.2	1
178	Immobilization of Gold-Aryl Nanoparticles Over Graphene Oxide Platforms: Experimental and Molecular Dynamics Calculations Study. Journal of Cluster Science, 2023, 34, 577-586.	1.7	1
179	Influence of Pyridinium Chlorochromate on the Properties of Electrochemically and Chemically Synthesised Polypyrrole. Materials Science Forum, 1993, 122, 205-214.	0.3	0
180	Conference Report: 18th Bratislava International Conference on Modified Polymers: ModPol 2003. Polymer News, 2004, 29, 126-134.	0.1	0

#	ARTICLE	IF	CITATIONS
181	OmastovÃ¡ special issue. Polymer Engineering and Science, 2007, 47, iv-v.	1.5	0
182	Thermo-active polymer nanocomposites: a spectroscopic study. , 2014, , .		0
183	Molecular Disorder in Prestrained Nanocomposites: Effects of Processing on Durability of Thermally-Active Ethylene-Vinyl Acetate   PyChol   Multiwall Carbon Nanotubes. Materials Research Society Symposia Proceedings, 2015, 1718, 21-26.	0.1	0
184	EFFECT OF ANTISTATIC AGENTS ON SOME PROPERTIES OF COMPOUNDED MATERIALS. , 2016, , 149-182.		0
185	Stepwise behavior of surface properties caused by phase inversion in a polymer blend filled with dispersed iron. Journal of Polymer Research, 2021, 28, 1.	1.2	0
186	PREPARATION AND PHOTOTHERMAL CHARACTERIZATION OF NANOCOMPOSITES BASED ON HIGH DENSITY POLYETHYLENE FILLED WITH EXPANDED GRAPHITE: PARTICLE SIZE AND SHAPE EFFECTS. , 2011, , .		0
187	Mechanochemical synthesis of gold-silver nanocomposites via diazonium salts. Inorganic Chemistry Communication, 2022, 137, 109231.	1.8	0
188	Scalable MXene and PEDOT-CNT Nanocoatings for Fibre-Reinforced Composite De-Icing. Materials, 2022, 15, 3535.	1.3	0