

Zdenko Spitalsky

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

88
papers

4,144
citations

25
h-index

63
g-index

91
ext. papers

4,688
ext. citations

4.3
avg, IF

5.55
L-index

#	Paper	IF	Citations
88	Antibacterial Electrospun Polycaprolactone Nanofibers Reinforced by Halloysite Nanotubes for Tissue Engineering.. <i>Polymers</i> , 2022 , 14,	4.5	2
87	Thermoplastic Starch-Based Composite Reinforced by Conductive Filler Networks: Physical Properties and Electrical Conductivity Changes during Cyclic Deformation. <i>Polymers</i> , 2021 , 13,	4.5	1
86	Photoactive and antioxidant nanochitosan dots/biocellulose hydrogels for wound healing treatment. <i>Materials Science and Engineering C</i> , 2021 , 122, 111925	8.3	7
85	Towards Improving the Durability and Overall Performance of PV-ETICS by Application of a PCM Layer. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 4667	2.6	2
84	Bactericidal and antioxidant bacterial cellulose hydrogels doped with chitosan as potential urinary tract infection biomedical agent.. <i>RSC Advances</i> , 2021 , 11, 8559-8568	3.7	4
83	Properties and structure of poly(3-hydroxybutyrate-co-4-hydroxybutyrate) filaments for fused deposition modelling. <i>International Journal of Biological Macromolecules</i> , 2021 , 183, 880-889	7.9	5
82	Enhanced visible light-triggered antibacterial activity of carbon quantum dots/polyurethane nanocomposites by gamma rays induced pre-treatment. <i>Radiation Physics and Chemistry</i> , 2021 , 185, 109499	2.5	6
81	Antibacterial photodynamic activity of hydrophobic carbon quantum dots and polycaprolactone based nanocomposite processed via both electrospinning and solvent casting method. <i>Photodiagnosis and Photodynamic Therapy</i> , 2021 , 35, 102455	3.5	6
80	Novel Hybrid PETG Composites for 3D Printing. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 3062	2.6	13
79	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	3	22
78	Fabrication of flexible electrically conductive polymer-based micropatterns using plasma discharge. <i>Sensors and Actuators A: Physical</i> , 2020 , 301, 111727	3.9	3
77	Carbon Quantum Dots As Antibacterial Photosensitizers and Their Polymer Nanocomposite Applications. <i>Particle and Particle Systems Characterization</i> , 2020 , 37, 1900348	3.1	35
76	Photodynamic-active smart biocompatible material for an antibacterial surface coating. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2020 , 211, 112012	6.7	7
75	Preparation and Characterization of New Electrically Conductive Composites Based on Expanded Graphite with Potential Use as Remote Environmental Detectors. <i>Processes</i> , 2020 , 8, 1176	2.9	
74	Uniaxial strengthening of the polyamide film by the aligned carbon nanotubes. <i>Materials Today Communications</i> , 2020 , 25, 101432	2.5	1
73	Increasing the effectivity of the antimicrobial surface of carbon quantum dots-based nanocomposite by atmospheric pressure plasma. <i>Clinical Plasma Medicine</i> , 2020 , 19-20, 100111	2.8	2
72	Highly Efficient Antioxidant F- and Cl-Doped Carbon Quantum Dots for Bioimaging. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 16327-16338	8.3	25

71	Assessment of the Antibacterial Behavior of Polyester Fabric Pre-treated with Atmospheric Discharge Plasma. <i>Fibers and Polymers</i> , 2019 , 20, 1649-1657	2	4
70	Green and facile microwave assisted synthesis of (metal-free) N-doped carbon quantum dots for catalytic applications. <i>Ceramics International</i> , 2019 , 45, 17006-17013	5.1	31
69	A Multifunctional Graphene Oxide Platform for Targeting Cancer. <i>Cancers</i> , 2019 , 11,	6.6	9
68	Antibacterial photodynamic activity of carbon quantum dots/polydimethylsiloxane nanocomposites against Staphylococcus aureus, Escherichia coli and Klebsiella pneumoniae. <i>Photodiagnosis and Photodynamic Therapy</i> , 2019 , 26, 342-349	3.5	36
67	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	1.7	4
66	Toward Apparent Negative Permittivity Measurement in a Magnetic Nanofluid with Electrically Induced Clusters. <i>Physical Review Applied</i> , 2019 , 11,	4.3	9
65	Gamma ray assisted modification of carbon quantum dot/polyurethane nanocomposites: structural, mechanical and photocatalytic study.. <i>RSC Advances</i> , 2019 , 9, 6278-6286	3.7	8
64	Electrically Conductive, Transparent Polymeric Nanocomposites Modified by 2D TiCT (MXene). <i>Polymers</i> , 2019 , 11,	4.5	16
63	Magnetic Properties of Poly(trimethylene terephthalate-block-Poly(tetramethylene oxide) Copolymer Nanocomposites Reinforced by Graphene Oxide/Fe ₃ O ₄ Hybrid Nanoparticles. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2019 , 216, 1900402	1.6	1
62	Graphene oxide size and structure pro-oxidant and antioxidant activity and photoinduced cytotoxicity relation on three cancer cell lines. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2019 , 200, 111647	6.7	14
61	Electrically Conductive Electrospun Polymeric Mats for Sensing Dispersed Vegetable Oil Impurities in Wastewater. <i>Processes</i> , 2019 , 7, 906	2.9	3
60	Structural, mechanical, and antibacterial features of curcumin/polyurethane nanocomposites. <i>Journal of Applied Polymer Science</i> , 2019 , 136, 47283	2.9	14
59	Graphene quantum dots inhibit T cell-mediated neuroinflammation in rats. <i>Neuropharmacology</i> , 2019 , 146, 95-108	5.5	24
58	Electrospun Copolyamide Mats Modified by Functionalized Multiwall Carbon Nanotubes. <i>Polymer Composites</i> , 2019 , 40, E1451-E1460	3	2
57	Electrospinning tissue engineering and wound dressing scaffolds from polymer-titanium dioxide nanocomposites. <i>Chemical Engineering Journal</i> , 2019 , 358, 1262-1278	14.7	121
56	Antibacterial and Antibiofouling Properties of Light Triggered Fluorescent Hydrophobic Carbon Quantum Dots Langmuir-Blodgett Thin Films. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 4154-4163	8.3	59
55	Superhydrophobic Polyester/Cotton Fabrics Modified by Barrier Discharge Plasma and Organosilanes. <i>Polymer-Plastics Technology and Engineering</i> , 2018 , 57, 440-448		9
54	Effect of Graphene Oxide on Structure and Properties of Impact-Modified Polyamide 6. <i>Polymer-Plastics Technology and Engineering</i> , 2018 , 57, 827-835		13

53	Simple route for the preparation of graphene/poly(styrene-b-butadiene-b-styrene) nanocomposite films with enhanced electrical conductivity and hydrophobicity. <i>Polymer International</i> , 2018 , 67, 1118-1127	3.3	3
52	Diversity of Coxiella-like and Francisella-like endosymbionts, and Rickettsia spp., Coxiella burnetii as pathogens in the tick populations of Slovakia, Central Europe. <i>Ticks and Tick-borne Diseases</i> , 2018 , 9, 1207-1211	3.6	29
51	Light-Induced Actuation of Poly(dimethylsiloxane) Filled with Graphene Oxide Grafted with Poly(2-(trimethylsilyloxy)ethyl Methacrylate). <i>Polymers</i> , 2018 , 10,	4.5	5
50	Carbon Quantum Dots Modified Polyurethane Nanocomposite as Effective Photocatalytic and Antibacterial Agents. <i>ACS Biomaterials Science and Engineering</i> , 2018 , 4, 3983-3993	5.5	69
49	Low-cost light-induced therapy to treat rickettsial infection. <i>Photodiagnosis and Photodynamic Therapy</i> , 2018 , 24, 150-152	3.5	2
48	Photo-induced antibacterial activity of four graphene based nanomaterials on a wide range of bacteria.. <i>RSC Advances</i> , 2018 , 8, 31337-31347	3.7	37
47	Fast low-temperature plasma reduction of monolayer graphene oxide at atmospheric pressure. <i>Nanotechnology</i> , 2017 , 28, 145601	3.4	20
46	Antibacterial potential of electrochemically exfoliated graphene sheets. <i>Journal of Colloid and Interface Science</i> , 2017 , 500, 30-43	9.3	25
45	Graphene quantum dots suppress proinflammatory T cell responses via autophagy-dependent induction of tolerogenic dendritic cells. <i>Biomaterials</i> , 2017 , 146, 13-28	15.6	61
44	Ambient light induced antibacterial action of curcumin/graphene nanomesh hybrids. <i>RSC Advances</i> , 2017 , 7, 36081-36092	3.7	25
43	Graphene oxide reduction during surface-initiated atom transfer radical polymerization of glycidyl methacrylate: Controlling electro-responsive properties. <i>Chemical Engineering Journal</i> , 2016 , 283, 717-720	14.7	28
42	Polyolefin in Packaging and Food Industry. <i>Springer Series on Polymer and Composite Materials</i> , 2016 , 181-199	0.9	6
41	Reliable determination of the few-layer graphene oxide thickness using Raman spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2016 , 47, 391-394	2.3	41
40	Effects of low gamma irradiation dose on the photoluminescence properties of graphene quantum dots. <i>Optical and Quantum Electronics</i> , 2016 , 48, 1	2.4	11
39	Semi-transparent, conductive thin films of electrochemical exfoliated graphene. <i>RSC Advances</i> , 2016 , 6, 39275-39283	3.7	15
38	c-Jun N-terminal kinase-dependent apoptotic photocytotoxicity of solvent exchange-prepared curcumin nanoparticles. <i>Biomedical Microdevices</i> , 2016 , 18, 37	3.7	9
37	Positive influence of expanded graphite on the physical behavior of phase change materials based on linear low-density polyethylene and paraffin wax. <i>Thermochimica Acta</i> , 2015 , 614, 218-225	2.9	28
36	Investigation of beech wood modified by radio-frequency discharge plasma. <i>Vacuum</i> , 2015 , 119, 88-94	3.7	12

35	A tertiary amine in two competitive processes: reduction of graphene oxide vs. catalysis of atom transfer radical polymerization. <i>RSC Advances</i> , 2015 , 5, 3370-3376	3.7	23
34	Influence of preparation methods on the electrical and nanomechanical properties of poly(methyl methacrylate)/multiwalled carbon nanotubes composites. <i>Journal of Applied Polymer Science</i> , 2015 , 132, n/a-n/a	2.9	5
33	Effect of exfoliated graphite nanoplatelets size on the phase structure, electrical, and barrier properties of poly(trimethylene terephthalate)-based nanocomposites. <i>Polymer Engineering and Science</i> , 2015 , 55, 2222-2230	2.3	13
32	Oxygen Barrier Properties and Melt Crystallization Behavior of Poly(ethylene terephthalate)/Graphene Oxide Nanocomposites. <i>Journal of Nanomaterials</i> , 2015 , 2015, 1-10	3.2	10
31	Mechanical and Electrical Properties of Styrene-Isoprene-Styrene Copolymer Doped with Expanded Graphite Nanoplatelets. <i>Journal of Nanomaterials</i> , 2015 , 2015, 1-9	3.2	4
30	Electrical Properties of Lithium Ferrite Nanoparticles Dispersed in a Styrene-Isoprene-Styrene Copolymer Matrix. <i>NATO Science for Peace and Security Series A: Chemistry and Biology</i> , 2015 , 273-279	0.1	2
29	Relationship between conductivity and stress-strain curve of electroconductive composite with SBR or polycaprolactone matrices. <i>European Polymer Journal</i> , 2014 , 55, 135-143	5.2	9
28	Electrically conductive composites based on an elastomeric matrix filled with expanded graphite as a potential oil sensing material. <i>Smart Materials and Structures</i> , 2014 , 23, 125020	3.4	15
27	Phase change materials based on high-density polyethylene filled with microencapsulated paraffin wax. <i>Energy Conversion and Management</i> , 2014 , 87, 400-409	10.6	68
26	Charge transport and dielectric relaxation processes in aniline-based oligomers. <i>Synthetic Metals</i> , 2014 , 192, 37-42	3.6	11
25	Dynamic Mechanical and Dielectric Properties of Ethylene Vinyl Acetate/Carbon Nanotube Composites. <i>Journal of Macromolecular Science - Physics</i> , 2014 , 53, 496-512	1.4	13
24	Structure and properties of nanocomposites based on PTT-block-PTMO copolymer and graphene oxide prepared by in situ polymerization. <i>European Polymer Journal</i> , 2014 , 50, 69-77	5.2	35
23	Self-standing elastomeric composites based on lithium ferrites and their dielectric behavior. <i>Journal of Applied Physics</i> , 2014 , 116, 224102	2.5	4
22	Influence of expanded graphite (EG) and graphene oxide (GO) on physical properties of PET based nanocomposites. <i>Polish Journal of Chemical Technology</i> , 2014 , 16, 45-50	1	14
21	Electrical transport properties of poly(aniline-co-p-phenylenediamine) and its composites with incorporated silver particles. <i>Chemical Papers</i> , 2013 , 67,	1.9	10
20	Effect of addition of expanded graphite (EG) on the synthesis and characteristics of poly(ethylene terephthalate) modified with cyclohexanedimethanol (PETG). <i>Polimery</i> , 2013 , 58, 893-899	3.4	3
19	Electrical conductivity of poly(ethylene terephthalate)/expanded graphite nanocomposites prepared by in situ polymerization. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2012 , 50, 1645-1652	2.6	45
18	Electrical and Mechanical Properties of Ethylene Vinyl Acetate Based Composites. <i>Materials Science Forum</i> , 2012 , 714, 193-199	0.4	6

17	Thin polyaniline and polyaniline/carbon nanocomposite films for gas sensing. <i>Thin Solid Films</i> , 2011 , 519, 4123-4127	2.2	45
16	Electrochemical oxidation of multi-wall carbon nanotubes. <i>Carbon</i> , 2011 , 49, 2702-2708	10.4	42
15	Preparation of Functionalized Graphene Sheets. <i>Current Organic Chemistry</i> , 2011 , 15, 1133-1150	1.7	36
14	Electrically Conductive Polymeric Composites and Nanocomposites 2011 , 425-477		5
13	Dielectric Spectroscopy and Tunability of Multi-Walled Carbon Nanotube / Epoxy Resin Composites. <i>Advanced Composites Letters</i> , 2010 , 19, 096369351001900	1.2	3
12	Carbon nanotube/polymer composites: Chemistry, processing, mechanical and electrical properties. <i>Progress in Polymer Science</i> , 2010 , 35, 357-401	29.6	2413
11	Modification of carbon nanotubes and its effect on properties of carbon nanotube/epoxy nanocomposites. <i>Polymer Composites</i> , 2009 , 30, 1378-1387	3	61
10	The effect of oxidation treatment on the properties of multi-walled carbon nanotube thin films. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2009 , 165, 135-138	3.1	56
9	Effect of oxidation treatment of multiwalled carbon nanotubes on the mechanical and electrical properties of their epoxy composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2009 , 40, 778-783	8.4	86
8	High volume fraction carbon nanotube-epoxy composites. <i>Nanotechnology</i> , 2009 , 20, 405702	3.4	53
7	Effect of Nanodiamond Particles on Properties of Epoxy Composites. <i>Advanced Composites Letters</i> , 2008 , 17, 096369350801700	1.2	27
6	Controlled degradation of polyhydroxybutyrate via alcoholysis with ethylene glycol or glycerol. <i>Polymer Degradation and Stability</i> , 2006 , 91, 856-861	4.7	40
5	Elastic properties of poly(hydroxybutyrate) molecules. <i>Macromolecular Bioscience</i> , 2004 , 4, 601-9	5.5	9
4	Elastic moduli of highly stretched tie molecules in solid polyethylene. <i>Polymer</i> , 2003 , 44, 1603-1611	3.9	17
3	Energy Elasticity of Tie Molecules in Semicrystalline Polymers. <i>Macromolecular Theory and Simulations</i> , 2002 , 11, 513	1.5	8
2	Energetics of Stretching of Conformational Defects in Extended Poly(methylene) Chains. <i>Macromolecular Theory and Simulations</i> , 2001 , 10, 833-841	1.5	9
1	Photoactive graphene quantum dots/bacterial cellulose hydrogels: Structural, mechanical, and pro-oxidant study. <i>Journal of Applied Polymer Science</i> , 51996	2.9	0