

# Zdenko Spitalsky

## List of Publications by Citations

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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	Carbon nanotube/polymer composites: Chemistry, processing, mechanical and electrical properties. <i>Progress in Polymer Science</i> , <b>2010</b> , 35, 357-401	29.6	2413
87	Electrospinning tissue engineering and wound dressing scaffolds from polymer-titanium dioxide nanocomposites. <i>Chemical Engineering Journal</i> , <b>2019</b> , 358, 1262-1278	14.7	121
86	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> , <b>2009</b> , 40, 778-783	8.4	86
85	Carbon Quantum Dots Modified Polyurethane Nanocomposite as Effective Photocatalytic and Antibacterial Agents. <i>ACS Biomaterials Science and Engineering</i> , <b>2018</b> , 4, 3983-3993	5.5	69
84	Phase change materials based on high-density polyethylene filled with microencapsulated paraffin wax. <i>Energy Conversion and Management</i> , <b>2014</b> , 87, 400-409	10.6	68
83	Graphene quantum dots suppress proinflammatory T cell responses via autophagy-dependent induction of tolerogenic dendritic cells. <i>Biomaterials</i> , <b>2017</b> , 146, 13-28	15.6	61
82	Modification of carbon nanotubes and its effect on properties of carbon nanotube/epoxy nanocomposites. <i>Polymer Composites</i> , <b>2009</b> , 30, 1378-1387	3	61
81	Antibacterial and Antibiofouling Properties of Light Triggered Fluorescent Hydrophobic Carbon Quantum Dots Langmuir-Blodgett Thin Films. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 4154-4163	8.3	59
80	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> , <b>2009</b> , 165, 135-138	3.1	56
79	High volume fraction carbon nanotube-epoxy composites. <i>Nanotechnology</i> , <b>2009</b> , 20, 405702	3.4	53
78	Electrical conductivity of poly(ethylene terephthalate)/expanded graphite nanocomposites prepared by in situ polymerization. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2012</b> , 50, 1645-1652	2.6	45
77	Thin polyaniline and polyaniline/carbon nanocomposite films for gas sensing. <i>Thin Solid Films</i> , <b>2011</b> , 519, 4123-4127	2.2	45
76	Electrochemical oxidation of multi-wall carbon nanotubes. <i>Carbon</i> , <b>2011</b> , 49, 2702-2708	10.4	42
75	Reliable determination of the few-layer graphene oxide thickness using Raman spectroscopy. <i>Journal of Raman Spectroscopy</i> , <b>2016</b> , 47, 391-394	2.3	41
74	Controlled degradation of polyhydroxybutyrate via alcoholysis with ethylene glycol or glycerol. <i>Polymer Degradation and Stability</i> , <b>2006</b> , 91, 856-861	4.7	40
73	Photo-induced antibacterial activity of four graphene based nanomaterials on a wide range of bacteria.. <i>RSC Advances</i> , <b>2018</b> , 8, 31337-31347	3.7	37
72	Antibacterial photodynamic activity of carbon quantum dots/polydimethylsiloxane nanocomposites against <i>Staphylococcus aureus</i> , <i>Escherichia coli</i> and <i>Klebsiella pneumoniae</i> . <i>Photodiagnosis and Photodynamic Therapy</i> , <b>2019</b> , 26, 342-349	3.5	36

71	Preparation of Functionalized Graphene Sheets. <i>Current Organic Chemistry</i> , <b>2011</b> , 15, 1133-1150	1.7	36
70	Structure and properties of nanocomposites based on PTT-block-PTMO copolymer and graphene oxide prepared by in situ polymerization. <i>European Polymer Journal</i> , <b>2014</b> , 50, 69-77	5.2	35
69	Carbon Quantum Dots As Antibacterial Photosensitizers and Their Polymer Nanocomposite Applications. <i>Particle and Particle Systems Characterization</i> , <b>2020</b> , 37, 1900348	3.1	35
68	Green and facile microwave assisted synthesis of (metal-free) N-doped carbon quantum dots for catalytic applications. <i>Ceramics International</i> , <b>2019</b> , 45, 17006-17013	5.1	31
67	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> , <b>2018</b> , 9, 1207-1211	3.6	29
66	Graphene oxide reduction during surface-initiated atom transfer radical polymerization of glycidyl methacrylate: Controlling electro-responsive properties. <i>Chemical Engineering Journal</i> , <b>2016</b> , 283, 717-720	11.7	28
65	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> , <b>2015</b> , 614, 218-225	2.9	28
64	Effect of Nanodiamond Particles on Properties of Epoxy Composites. <i>Advanced Composites Letters</i> , <b>2008</b> , 17, 096369350801700	1.2	27
63	Antibacterial potential of electrochemically exfoliated graphene sheets. <i>Journal of Colloid and Interface Science</i> , <b>2017</b> , 500, 30-43	9.3	25
62	Ambient light induced antibacterial action of curcumin/graphene nanomesh hybrids. <i>RSC Advances</i> , <b>2017</b> , 7, 36081-36092	3.7	25
61	Highly Efficient Antioxidant F- and Cl-Doped Carbon Quantum Dots for Bioimaging. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 16327-16338	8.3	25
60	Graphene quantum dots inhibit T cell-mediated neuroinflammation in rats. <i>Neuropharmacology</i> , <b>2019</b> , 146, 95-108	5.5	24
59	A tertiary amine in two competitive processes: reduction of graphene oxide vs. catalysis of atom transfer radical polymerization. <i>RSC Advances</i> , <b>2015</b> , 5, 3370-3376	3.7	23
58	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> , <b>2020</b> , 11, 167-179	3	22
57	Fast low-temperature plasma reduction of monolayer graphene oxide at atmospheric pressure. <i>Nanotechnology</i> , <b>2017</b> , 28, 145601	3.4	20
56	Elastic moduli of highly stretched tie molecules in solid polyethylene. <i>Polymer</i> , <b>2003</b> , 44, 1603-1611	3.9	17
55	Electrically Conductive, Transparent Polymeric Nanocomposites Modified by 2D TiCT (MXene). <i>Polymers</i> , <b>2019</b> , 11,	4.5	16
54	Electrically conductive composites based on an elastomeric matrix filled with expanded graphite as a potential oil sensing material. <i>Smart Materials and Structures</i> , <b>2014</b> , 23, 125020	3.4	15

53	Semi-transparent, conductive thin films of electrochemical exfoliated graphene. <i>RSC Advances</i> , <b>2016</b> , 6, 39275-39283	3.7	15
52	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> , <b>2019</b> , 200, 111647	6.7	14
51	Influence of expanded graphite (EG) and graphene oxide (GO) on physical properties of PET based nanocomposites. <i>Polish Journal of Chemical Technology</i> , <b>2014</b> , 16, 45-50	1	14
50	Structural, mechanical, and antibacterial features of curcumin/polyurethane nanocomposites. <i>Journal of Applied Polymer Science</i> , <b>2019</b> , 136, 47283	2.9	14
49	Novel Hybrid PETG Composites for 3D Printing. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 3062	2.6	13
48	Effect of Graphene Oxide on Structure and Properties of Impact-Modified Polyamide 6. <i>Polymer-Plastics Technology and Engineering</i> , <b>2018</b> , 57, 827-835		13
47	Dynamic Mechanical and Dielectric Properties of Ethylene Vinyl Acetate/Carbon Nanotube Composites. <i>Journal of Macromolecular Science - Physics</i> , <b>2014</b> , 53, 496-512	1.4	13
46	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> , <b>2015</b> , 55, 2222-2230	2.3	13
45	Investigation of beech wood modified by radio-frequency discharge plasma. <i>Vacuum</i> , <b>2015</b> , 119, 88-94	3.7	12
44	Charge transport and dielectric relaxation processes in aniline-based oligomers. <i>Synthetic Metals</i> , <b>2014</b> , 192, 37-42	3.6	11
43	Effects of low gamma irradiation dose on the photoluminescence properties of graphene quantum dots. <i>Optical and Quantum Electronics</i> , <b>2016</b> , 48, 1	2.4	11
42	Oxygen Barrier Properties and Melt Crystallization Behavior of Poly(ethylene terephthalate)/Graphene Oxide Nanocomposites. <i>Journal of Nanomaterials</i> , <b>2015</b> , 2015, 1-10	3.2	10
41	Electrical transport properties of poly(aniline-co-p-phenylenediamine) and its composites with incorporated silver particles. <i>Chemical Papers</i> , <b>2013</b> , 67,	1.9	10
40	A Multifunctional Graphene Oxide Platform for Targeting Cancer. <i>Cancers</i> , <b>2019</b> , 11,	6.6	9
39	Toward Apparent Negative Permittivity Measurement in a Magnetic Nanofluid with Electrically Induced Clusters. <i>Physical Review Applied</i> , <b>2019</b> , 11,	4.3	9
38	Superhydrophobic Polyester/Cotton Fabrics Modified by Barrier Discharge Plasma and Organosilanes. <i>Polymer-Plastics Technology and Engineering</i> , <b>2018</b> , 57, 440-448		9
37	Relationship between conductivity and stress-strain curve of electroconductive composite with SBR or polycaprolactone matrices. <i>European Polymer Journal</i> , <b>2014</b> , 55, 135-143	5.2	9
36	Elastic properties of poly(hydroxybutyrate) molecules. <i>Macromolecular Bioscience</i> , <b>2004</b> , 4, 601-9	5.5	9

35	Energetics of Stretching of Conformational Defects in Extended Poly(methylene) Chains. <i>Macromolecular Theory and Simulations</i> , <b>2001</b> , 10, 833-841	1.5	9
34	c-Jun N-terminal kinase-dependent apoptotic photocytotoxicity of solvent exchange-prepared curcumin nanoparticles. <i>Biomedical Microdevices</i> , <b>2016</b> , 18, 37	3.7	9
33	Gamma ray assisted modification of carbon quantum dot/polyurethane nanocomposites: structural, mechanical and photocatalytic study.. <i>RSC Advances</i> , <b>2019</b> , 9, 6278-6286	3.7	8
32	Energy Elasticity of Tie Molecules in Semicrystalline Polymers. <i>Macromolecular Theory and Simulations</i> , <b>2002</b> , 11, 513	1.5	8
31	Photodynamic-active smart biocompatible material for an antibacterial surface coating. <i>Journal of Photochemistry and Photobiology B: Biology</i> , <b>2020</b> , 211, 112012	6.7	7
30	Photoactive and antioxidant nanochitosan dots/biocellulose hydrogels for wound healing treatment. <i>Materials Science and Engineering C</i> , <b>2021</b> , 122, 111925	8.3	7
29	Polyolefin in Packaging and Food Industry. <i>Springer Series on Polymer and Composite Materials</i> , <b>2016</b> , 181-199	0.9	6
28	Electrical and Mechanical Properties of Ethylene Vinyl Acetate Based Composites. <i>Materials Science Forum</i> , <b>2012</b> , 714, 193-199	0.4	6
27	Enhanced visible light-triggered antibacterial activity of carbon quantum dots/polyurethane nanocomposites by gamma rays induced pre-treatment. <i>Radiation Physics and Chemistry</i> , <b>2021</b> , 185, 109499	2.5	6
26	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> , <b>2021</b> , 35, 102455	3.5	6
25	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> , <b>2015</b> , 132, n/a-n/a	2.9	5
24	Electrically Conductive Polymeric Composites and Nanocomposites <b>2011</b> , 425-477		5
23	Light-Induced Actuation of Poly(dimethylsiloxane) Filled with Graphene Oxide Grafted with Poly(2-(trimethylsilyloxy)ethyl Methacrylate). <i>Polymers</i> , <b>2018</b> , 10,	4.5	5
22	Properties and structure of poly(3-hydroxybutyrate-co-4-hydroxybutyrate) filaments for fused deposition modelling. <i>International Journal of Biological Macromolecules</i> , <b>2021</b> , 183, 880-889	7.9	5
21	Assessment of the Antibacterial Behavior of Polyester Fabric Pre-treated with Atmospheric Discharge Plasma. <i>Fibers and Polymers</i> , <b>2019</b> , 20, 1649-1657	2	4
20	Morphological, electrical, mechanical and thermal properties of high-density polyethylene/multiwall carbon nanotube nanocomposites: effect of aspect ratio. <i>Materials Research Express</i> , <b>2019</b> , 6, 095079	1.7	4
19	Mechanical and Electrical Properties of Styrene-Isoprene-Styrene Copolymer Doped with Expanded Graphite Nanoplatelets. <i>Journal of Nanomaterials</i> , <b>2015</b> , 2015, 1-9	3.2	4
18	Self-standing elastomeric composites based on lithium ferrites and their dielectric behavior. <i>Journal of Applied Physics</i> , <b>2014</b> , 116, 224102	2.5	4

17	Bactericidal and antioxidant bacterial cellulose hydrogels doped with chitosan as potential urinary tract infection biomedical agent.. <i>RSC Advances</i> , <b>2021</b> , 11, 8559-8568	3.7	4
16	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> , <b>2018</b> , 67, 1118-1127	3.7	3
15	Dielectric Spectroscopy and Tunability of Multi-Walled Carbon Nanotube / Epoxy Resin Composites. <i>Advanced Composites Letters</i> , <b>2010</b> , 19, 096369351001900	1.2	3
14	Effect of addition of expanded graphite (EG) on the synthesis and characteristics of poly(ethylene terephthalate) modified with cyclohexanedimethanol (PETG). <i>Polimery</i> , <b>2013</b> , 58, 893-899	3.4	3
13	Fabrication of flexible electrically conductive polymer-based micropatterns using plasma discharge. <i>Sensors and Actuators A: Physical</i> , <b>2020</b> , 301, 111727	3.9	3
12	Electrically Conductive Electrospun Polymeric Mats for Sensing Dispersed Vegetable Oil Impurities in Wastewater. <i>Processes</i> , <b>2019</b> , 7, 906	2.9	3
11	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> , <b>2015</b> , 273-279	0.1	2
10	Increasing the effectivity of the antimicrobial surface of carbon quantum dots-based nanocomposite by atmospheric pressure plasma. <i>Clinical Plasma Medicine</i> , <b>2020</b> , 19-20, 100111	2.8	2
9	Towards Improving the Durability and Overall Performance of PV-ETICS by Application of a PCM Layer. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 4667	2.6	2
8	Electrospun Copolyamide Mats Modified by Functionalized Multiwall Carbon Nanotubes. <i>Polymer Composites</i> , <b>2019</b> , 40, E1451-E1460	3	2
7	Low-cost light-induced therapy to treat rickettsial infection. <i>Photodiagnosis and Photodynamic Therapy</i> , <b>2018</b> , 24, 150-152	3.5	2
6	Antibacterial Electrospun Polycaprolactone Nanofibers Reinforced by Halloysite Nanotubes for Tissue Engineering.. <i>Polymers</i> , <b>2022</b> , 14,	4.5	2
5	Magnetic Properties of Poly(trimethylene terephthalate-block-Poly(tetramethylene oxide) Copolymer Nanocomposites Reinforced by Graphene Oxide/Fe <sub>3</sub> O <sub>4</sub> Hybrid Nanoparticles. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2019</b> , 216, 1900402	1.6	1
4	Thermoplastic Starch-Based Composite Reinforced by Conductive Filler Networks: Physical Properties and Electrical Conductivity Changes during Cyclic Deformation. <i>Polymers</i> , <b>2021</b> , 13,	4.5	1
3	Uniaxial strengthening of the polyamide film by the aligned carbon nanotubes. <i>Materials Today Communications</i> , <b>2020</b> , 25, 101432	2.5	1
2	Photoactive graphene quantum dots/bacterial cellulose hydrogels: Structural, mechanical, and pro-oxidant study. <i>Journal of Applied Polymer Science</i> , 51996	2.9	0
1	Preparation and Characterization of New Electrically Conductive Composites Based on Expanded Graphite with Potential Use as Remote Environmental Detectors. <i>Processes</i> , <b>2020</b> , 8, 1176	2.9	