## Igor Krupa

## List of Publications by Citations

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75
papers

1,897
citations

27
h-index

9-index

78
ext. papers

2,216
ext. citations

5
avg, IF

L-index

#	Paper	IF	Citations
75	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> , <b>2009</b> , 113, 2536-2551	2.9	129
74	Thermal characterization of phase change materials based on linear low-density polyethylene, paraffin wax and expanded graphite. <i>Renewable Energy</i> , <b>2016</b> , 88, 372-382	8.1	90
73	Graphene and graphitic derivative filled polymer composites as potential sensors. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 3954-81	3.6	88
72	Thermal conductivity and latent heat thermal energy storage properties of LDPE/wax as a shape-stabilized composite phase change material. <i>Energy Conversion and Management</i> , <b>2014</b> , 77, 586-2	5 <b>96</b> .6	77
71	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
70	Unconventional experimental technologies available for phase change materials (PCM) characterization. Part 1. Thermophysical properties. <i>Renewable and Sustainable Energy Reviews</i> , <b>2015</b> , 43, 1399-1414	16.2	65
69	The mechanical and adhesive properties of electrically and thermally conductive polymeric composites based on high density polyethylene filled with nickel powder. <i>Materials &amp; Design</i> , <b>2013</b> , 51, 620-628		64
68	2D Ti3C2Tx (MXene)-reinforced polyvinyl alcohol (PVA) nanofibers with enhanced mechanical and electrical properties. <i>PLoS ONE</i> , <b>2017</b> , 12, e0183705	3.7	62
67	Analysis of correlation between percolation concentration and elongation at break in filled electroconductive epoxy-based adhesives. <i>European Polymer Journal</i> , <b>2003</b> , 39, 585-592	5.2	62
66	Thermal properties of phase-change materials based on high-density polyethylene filled with micro-encapsulated paraffin wax for thermal energy storage. <i>Energy and Buildings</i> , <b>2015</b> , 88, 144-152	7	60
65	Effect of expanded graphite on the phase change materials of high density polyethylene/wax blends. <i>Thermochimica Acta</i> , <b>2015</b> , 600, 35-44	2.9	53
64	Electro-conductive resins filled with graphite for casting applications. <i>European Polymer Journal</i> , <b>2004</b> , 40, 1417-1422	5.2	46
63	Zwitterionic hydrogels crosslinked with novel zwitterionic crosslinkers: Synthesis and characterization. <i>Polymer</i> , <b>2011</b> , 52, 3011-3020	3.9	44
62	Thermal properties of smart microencapsulated paraffin/plaster composites for the thermal regulation of buildings. <i>Energy and Buildings</i> , <b>2015</b> , 88, 183-192	7	41
61	Heat transfer performance of paraffin wax based phase change materials applicable in building industry. <i>Applied Thermal Engineering</i> , <b>2016</b> , 107, 1313-1323	5.8	38
60	Effect of filler size on thermophysical and electrical behavior of nanocomposites based on expanded graphite nanoparticles filled in low-density polyethylene matrix. <i>Polymer Composites</i> , <b>2013</b> , 34, 149-155	3	37
59	Conductive polymer-coated textiles: The role of fabric treatment by pyrrole-functionalized triethoxysilane. <i>Synthetic Metals</i> , <b>2007</b> , 157, 914-923	3.6	36

## (2015-2014)

58	Viscoelastic and photo-actuation studies of composites based on polystyrene-grafted carbon nanotubes and styrene-b-isoprene-b-styrene block copolymer. <i>Polymer</i> , <b>2014</b> , 55, 211-218	3.9	34
57	Effect of waste wax and chain structure on the mechanical and physical properties of polyethylene. <i>Arabian Journal of Chemistry</i> , <b>2015</b> , 8, 388-399	5.9	33
56	Thermal and mechanical characterization of injection moulded high density polyethylene/paraffin wax blends as phase change materials. <i>Renewable Energy</i> , <b>2014</b> , 68, 140-145	8.1	31
55	Calorimetric and dynamic mechanical behavior of phase change materials based on paraffin wax supported by expanded graphite. <i>Thermochimica Acta</i> , <b>2015</b> , 617, 111-119	2.9	30
54	Designing dual phase sensing materials from polyaniline filled styreneßopreneßtyrene composites. <i>Materials Chemistry and Physics</i> , <b>2014</b> , 147, 1029-1036	4.4	30
53	Mechanical properties of silica hydrogels prepared and aged at physiological conditions: testing in the compression mode. <i>Journal of Sol-Gel Science and Technology</i> , <b>2010</b> , 53, 107-114	2.3	30
52	Effect of corona treatment on adhesion enhancement of LLDPE. <i>Surface and Coatings Technology</i> , <b>2018</b> , 335, 118-125	4.4	29
51	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
50	Thermal characterization of polymer matrix composites containing microencapsulated paraffin in solid or liquid state. <i>Energy Conversion and Management</i> , <b>2014</b> , 78, 796-804	10.6	28
49	The preparation, properties and applications of electrospun co-polyamide 6,12 membranes modified by cellulose nanocrystals. <i>Materials and Design</i> , <b>2017</b> , 132, 314-323	8.1	28
48	Photo-actuating materials based on elastomers and modified carbon nanotubes. <i>Journal of Nanophotonics</i> , <b>2012</b> , 6, 063522	1.1	27
47	Anti-corrosive and oil sensitive coatings based on epoxy/polyaniline/magnetite-clay composites through diazonium interfacial chemistry. <i>Scientific Reports</i> , <b>2018</b> , 8, 13369	4.9	27
46	Nanocomposite photoactuators based on an ethylene vinyl acetate copolymer filled with carbon nanotubes. <i>Sensors and Actuators B: Chemical</i> , <b>2013</b> , 186, 701-710	8.5	26
45	Study of adhesion and surface properties of low-density poly(ethylene) pre-treated by cold discharge plasma. <i>Polymers for Advanced Technologies</i> , <b>2007</b> , 18, 97-105	3.2	26
44	Thermal lag and its practical consequence in the dynamic mechanical analysis of polymers. <i>Polymer Testing</i> , <b>2000</b> , 19, 755-771	4.5	26
43	Mechanical and electrical properties of composites based on thermoplastic matrices and conductive cellulose fibers. <i>Journal of Applied Polymer Science</i> , <b>2006</b> , 101, 133-142	2.9	25
42	Piezoresistive Sensors Based on Electrospun Mats Modified by 2D TiCT MXene. Sensors, 2019, 19,	3.8	23
41	Unconventional experimental technologies used for phase change materials (PCM) characterization: part 2 Imorphological and structural characterization, physico-chemical stability and mechanical properties. <i>Renewable and Sustainable Energy Reviews</i> , <b>2015</b> , 43, 1415-1426	16.2	22

40	Bentonite-decorated calix [4] arene: A new, promising hybrid material for heavy-metal removal. <i>Applied Clay Science</i> , <b>2018</b> , 161, 15-22	5.2	21
39	Modification of Polyethylene by RF Plasma in Different/Mixture Gases. <i>Coatings</i> , <b>2019</b> , 9, 145	2.9	17
38	The stabilizing effect of expanded graphite on the artificial aging of shape stabilized phase change materials. <i>Polymer Testing</i> , <b>2015</b> , 46, 65-71	4.5	17
37	Electrically Conductive, Transparent Polymeric Nanocomposites Modified by 2D TiCT (MXene). <i>Polymers</i> , <b>2019</b> , 11,	4.5	16
36	Foamy phase change materials based on linear low-density polyethylene and paraffin wax blends. <i>Emergent Materials</i> , <b>2018</b> , 1, 47-54	3.5	15
35	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
34	Emerging clay-aryl-gold nanohybrids for efficient electrocatalytic proton reduction. <i>Energy Conversion and Management</i> , <b>2018</b> , 168, 170-177	10.6	14
33	Influence of surface modification of carbon nanotubes on interactions with polystyrene-b-polyisoprene-b-polystyrene matrix and its photo-actuation properties. <i>Polymers for Advanced Technologies</i> , <b>2014</b> , 25, 1293-1300	3.2	13
32	Elastomeric photo-actuators and their investigation by confocal laser scanning microscopy. <i>Smart Materials and Structures</i> , <b>2013</b> , 22, 104001	3.4	12
31	Facile preparation of N-S co-doped graphene quantum dots (GQDs) from graphite waste for efficient humidity sensing. <i>Sensors and Actuators B: Chemical</i> , <b>2021</b> , 328, 129058	8.5	12
30	Overview: Clay Preparation, Properties, Modification <b>2017</b> , 1-28		11
29	Photoimmobilization of zwitterionic polymers on surfaces to reduce cell adhesion. <i>Journal of Colloid and Interface Science</i> , <b>2017</b> , 500, 294-303	9.3	9
28	Polyzwitterionic Hydrogels in Engines Based on the Antipolyelectrolyte Effect and Driven by the Salinity Gradient. <i>Environmental Science &amp; Environmental Science &amp; Environmen</i>	10.3	9
27	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
26	FLEXIBLE OIL SENSORS BASED ON MULTIWALLED CARBON NANOTUBE <b>F</b> ILLED ISOPRENE ELASTOMER COMPOSITES. <i>Rubber Chemistry and Technology</i> , <b>2016</b> , 89, 306-315	1.7	9
25	PE/wax blends: interesting observations. <i>Macromolecular Symposia</i> , <b>2002</b> , 178, 109-116	0.8	9
24	Thermally Conductive Polyethylene/Expanded Graphite Composites as Heat Transfer Surface: Mechanical, Thermo-Physical and Surface Behavior. <i>Polymers</i> , <b>2020</b> , 12,	4.5	9
23	Natural aging of shape stabilized phase change materials based on paraffin wax. <i>Polymer Testing</i> , <b>2017</b> , 63, 567-572	4.5	8

## (2019-2020)

22	Electrochemical Investigation of Interfacial Properties of TiCT MXene Modified by Aryldiazonium Betaine Derivatives. <i>Frontiers in Chemistry</i> , <b>2020</b> , 8, 553	5	8
21	An updated review on boron removal from water through adsorption processes. <i>Emergent Materials</i> ,1	3.5	8
20	A polysulfobetaine hydrogel for immobilization of a glucose-binding protein. RSC Advances, 2016, 6, 8	38 <u>9.<del>0</del></u> -8	3900
19	A new experimental device and inverse method to characterize thermal properties of composite phase change materials. <i>Composite Structures</i> , <b>2015</b> , 133, 1149-1159	5.3	7
18	Alginate-Halloysite Nanocomposite Aerogel: Preparation, Structure, and Oil/Water Separation Applications. <i>Biomolecules</i> , <b>2020</b> , 10,	5.9	7
17	Piezoresponse, Mechanical, and Electrical Characteristics of Synthetic Spider Silk Nanofibers. <i>Nanomaterials</i> , <b>2018</b> , 8,	5.4	7
16	Preparation of Progressive Antibacterial LDPE Surface via Active Biomolecule Deposition Approach. <i>Polymers</i> , <b>2019</b> , 11,	4.5	7
15	Glucose diffusivity and porosity in silica hydrogel based on organofunctional silanes. <i>European Polymer Journal</i> , <b>2011</b> , 47, 1477-1484	5.2	7
14	Recycled Polyethylene/Paraffin Wax/Expanded Graphite Based Heat Absorbers for Thermal Energy Storage: An Artificial Aging Study. <i>Molecules</i> , <b>2019</b> , 24,	4.8	6
13	Novel Enzyme-Free Multifunctional Bentonite/Polypyrrole/Silver Nanocomposite Sensor for Hydrogen Peroxide Detection over a Wide pH Range. <i>Sensors</i> , <b>2019</b> , 19,	3.8	6
12	Electrical and Mechanical Properties of Ethylene Vinyl Acetate Based Composites. <i>Materials Science Forum</i> , <b>2012</b> , 714, 193-199	0.4	6
11	Controllably coated graphene oxide particles with enhanced compatibility with poly(ethylene-co-propylene) thermoplastic elastomer for excellent photo-mechanical actuation capability. <i>Reactive and Functional Polymers</i> , <b>2020</b> , 148, 104487	4.6	6
10	Impact of ionic liquids on the processing and photo-actuation behavior of SBR composites containing graphene nanoplatelets. <i>Sensors and Actuators B: Chemical</i> , <b>2021</b> , 329, 129195	8.5	5
9	Silica hydrogel formation and aging monitored by pyrene-based fluorescence probes. <i>Journal of Sol-Gel Science and Technology</i> , <b>2010</b> , 55, 143-150	2.3	4
8	Separation of Water/Oil Emulsions by an Electrospun Copolyamide Mat Covered with a 2D TiCT MXene. <i>Materials</i> , <b>2020</b> , 13,	3.5	4
7	Materials and Technologies for the Tertiary Treatment of Produced Water Contaminated by Oil Impurities through Nonfibrous Deep-Bed Media: A Review. <i>Water (Switzerland)</i> , <b>2020</b> , 12, 3419	3	3
6	Electrically Conductive Electrospun Polymeric Mats for Sensing Dispersed Vegetable Oil Impurities in Wastewater. <i>Processes</i> , <b>2019</b> , 7, 906	2.9	3
5	Smart Non-Woven Fiber Mats with Light-Induced Sensing Capability. <i>Nanomaterials</i> , <b>2019</b> , 10,	5.4	2

4	Electrospun Copolyamide Mats Modified by Functionalized Multiwall Carbon Nanotubes. <i>Polymer Composites</i> , <b>2019</b> , 40, E1451-E1460	3	2
3	Some Theoretical Aspects of Tertiary Treatment of Water/Oil Emulsions by Adsorption and Coalescence Mechanisms: A Review. <i>Water (Switzerland)</i> , <b>2021</b> , 13, 652	3	2
2	Phase change materials for thermal energy storage applications in greenhouses: A review. <i>Sustainable Energy Technologies and Assessments</i> , <b>2022</b> , 52, 102241	4.7	O
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	