

Anton Popelka

List of Publications by Citations

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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.

33
papers

470
citations

12
h-index

20
g-index

37
ext. papers

597
ext. citations

4.1
avg. IF

3.68
L-index

#	Paper	IF	Citations
33	2D Ti3C2Tx (MXene)-reinforced polyvinyl alcohol (PVA) nanofibers with enhanced mechanical and electrical properties. <i>PLoS ONE</i> , 2017 , 12, e0183705	3.7	62
32	Polysaccharides coatings on medical-grade PVC: a probe into surface characteristics and the extent of bacterial adhesion. <i>Molecules</i> , 2010 , 15, 1007-27	4.8	56
31	Anti-bacterial treatment of polyethylene by cold plasma for medical purposes. <i>Molecules</i> , 2012 , 17, 762-768	4.5	50
30	A new route for chitosan immobilization onto polyethylene surface. <i>Carbohydrate Polymers</i> , 2012 , 90, 1501-8	10.3	43
29	Simple, Reversible, and Fast Modulation in Superwettability, Gradient, and Adsorption by Counterion Exchange on Self-Assembled Monolayer. <i>Langmuir</i> , 2016 , 32, 5491-9	4	32
28	Effect of corona treatment on adhesion enhancement of LLDPE. <i>Surface and Coatings Technology</i> , 2018 , 335, 118-125	4.4	29
27	Modification of Polyethylene by RF Plasma in Different/Mixture Gases. <i>Coatings</i> , 2019 , 9, 145	2.9	17
26	Electrically Conductive, Transparent Polymeric Nanocomposites Modified by 2D TiCT (MXene). <i>Polymers</i> , 2019 , 11,	4.5	16
25	Foamy phase change materials based on linear low-density polyethylene and paraffin wax blends. <i>Emergent Materials</i> , 2018 , 1, 47-54	3.5	15
24	Surface modification of polyethylene/graphene composite using corona discharge. <i>Journal Physics D: Applied Physics</i> , 2018 , 51, 105302	3	14
23	Surface modification of polyethylene by diffuse barrier discharge plasma. <i>Polymer Engineering and Science</i> , 2013 , 53, 516-523	2.3	13
22	Modulation of wettability, gradient and adhesion on self-assembled monolayer by counterion exchange and pH. <i>Journal of Colloid and Interface Science</i> , 2018 , 512, 511-521	9.3	13
21	Investigation of beech wood modified by radio-frequency discharge plasma. <i>Vacuum</i> , 2015 , 119, 88-94	3.7	12
20	Effects of Rutile-TiO Nanoparticles on Accelerated Weathering Degradation of Poly(Lactic Acid). <i>Polymers</i> , 2020 , 12,	4.5	10
19	Antimicrobial modification of PLA scaffolds with ascorbic and fumaric acids via plasma treatment. <i>Surface and Coatings Technology</i> , 2020 , 400, 126216	4.4	10
18	Photoimmobilization of zwitterionic polymers on surfaces to reduce cell adhesion. <i>Journal of Colloid and Interface Science</i> , 2017 , 500, 294-303	9.3	9
17	Thermally Conductive Polyethylene/Expanded Graphite Composites as Heat Transfer Surface: Mechanical, Thermo-Physical and Surface Behavior. <i>Polymers</i> , 2020 , 12,	4.5	9

16	Preparation of Progressive Antibacterial LDPE Surface via Active Biomolecule Deposition Approach. <i>Polymers</i> , 2019 , 11,	4.5	7
15	Polyolefin in Packaging and Food Industry. <i>Springer Series on Polymer and Composite Materials</i> , 2016 , 181-199	0.9	6
14	Laser induced periodic surface structures on nano metal oxide filled polyvinylidene fluoride nanocomposites. <i>Optik</i> , 2019 , 176, 372-383	2.5	6
13	Slippery Liquid-Infused Porous Polymeric Surfaces Based on Natural Oil with Antimicrobial Effect. <i>Polymers</i> , 2021 , 13,	4.5	6
12	pH-Switchable Interaction of a Carboxybetaine Ester-Based SAM with DNA and Gold Nanoparticles. <i>Langmuir</i> , 2017 , 33, 6657-6666	4	5
11	Investigation of the Temperature-Related Wear Performance of Hard Nanostructured Coatings Deposited on a S600 High Speed Steel. <i>Metals</i> , 2019 , 9, 332	2.3	5
10	Effect of Barrier Plasma Pre-Treatment on Polyester Films and their Adhesive Properties on Oak Wood. <i>BioResources</i> , 2016 , 11,	1.3	5
9	Separation of Water/Oil Emulsions by an Electrospun Copolyamide Mat Covered with a 2D TiCT MXene. <i>Materials</i> , 2020 , 13,	3.5	4
8	Photochemical grafting of polysulfobetaine onto polyethylene and polystyrene surfaces and investigation of long-term stability of the polysulfobetaine layer in seawater. <i>Polymers for Advanced Technologies</i> , 2018 , 29, 1930-1938	3.2	3
7	Morphology analysis 2020 , 21-68		2
6	Dry Sliding Tribological Properties of a Hard Anodized AA6082 Aluminum Alloy. <i>Metals</i> , 2020 , 10, 207	2.3	2
5	Polyolefin Adhesion Modifications. <i>Springer Series on Polymer and Composite Materials</i> , 2016 , 201-230	0.9	2
4	Effect of poly(ϵ -caprolactone) and titanium (IV) dioxide content on the UV and hydrolytic degradation of poly(lactic acid)/poly(ϵ -caprolactone) blends. <i>Journal of Applied Polymer Science</i> , 2021 , 138, 51266	2.9	2
3	Sulfobetaine-based polydisulfides with tunable upper critical solution temperature (UCST) in water alcohols mixture, depolymerization kinetics and surface wettability. <i>Journal of Colloid and Interface Science</i> , 2021 , 588, 196-208	9.3	2
2	The Separation of Emulsified Water/Oil Mixtures through Adsorption on Plasma-Treated Polyethylene Powder. <i>Materials</i> , 2021 , 14,	3.5	2
1	Surface Functionalization of a Polyurethane Surface via Radio-Frequency Cold Plasma Treatment Using Different Gases. <i>Coatings</i> , 2020 , 10, 1067	2.9	1