

Anton Popelka

List of Publications by Year in descending order

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1120
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#	ARTICLE	IF	CITATIONS
1	2D Ti3C2Tx (MXene)-reinforced polyvinyl alcohol (PVA) nanofibers with enhanced mechanical and electrical properties. PLoS ONE, 2017, 12, e0183705.	1.1	92
2	Polysaccharides Coatings on Medical-Grade PVC: A Probe into Surface Characteristics and the Extent of Bacterial Adhesion. Molecules, 2010, 15, 1007-1027.	1.7	68
3	Anti-bacterial Treatment of Polyethylene by Cold Plasma for Medical Purposes. Molecules, 2012, 17, 762-785.	1.7	56
4	A new route for chitosan immobilization onto polyethylene surface. Carbohydrate Polymers, 2012, 90, 1501-1508.	5.1	47
5	Effect of corona treatment on adhesion enhancement of LLDPE. Surface and Coatings Technology, 2018, 335, 118-125.	2.2	42
6	Electrically Conductive, Transparent Polymeric Nanocomposites Modified by 2D Ti3C2Tx (MXene). Polymers, 2019, 11, 1272.	2.0	40
7	Simple, Reversible, and Fast Modulation in Superwettability, Gradient, and Adsorption by Counterion Exchange on Self-Assembled Monolayer. Langmuir, 2016, 32, 5491-5499.	1.6	38
8	Modification of Polyethylene by RF Plasma in Different/Mixture Gases. Coatings, 2019, 9, 145.	1.2	30
9	Antimicrobial modification of PLA scaffolds with ascorbic and fumaric acids via plasma treatment. Surface and Coatings Technology, 2020, 400, 126216.	2.2	26
10	Foamy phase change materials based on linear low-density polyethylene and paraffin wax blends. Emergent Materials, 2018, 1, 47-54.	3.2	25
11	Surface modification of polyethylene/graphene composite using corona discharge. Journal Physics D: Applied Physics, 2018, 51, 105302.	1.3	20
12	Surface modification of polyethylene by diffuse barrier discharge plasma. Polymer Engineering and Science, 2013, 53, 516-523.	1.5	19
13	Effects of Rutile TiO2 Nanoparticles on Accelerated Weathering Degradation of Poly(Lactic Acid). Polymers, 2020, 12, 1096.	2.0	19
14	Preparation of Progressive Antibacterial LDPE Surface via Active Biomolecule Deposition Approach. Polymers, 2019, 11, 1704.	2.0	18
15	Modulation of wettability, gradient and adhesion on self-assembled monolayer by counterion exchange and pH. Journal of Colloid and Interface Science, 2018, 512, 511-521.	5.0	18
16	Separation of Water/Oil Emulsions by an Electrospun Copolyamide Mat Covered with a 2D Ti3C2Tx MXene. Materials, 2020, 13, 3171.	1.3	16
17	Thermally Conductive Polyethylene/Expanded Graphite Composites as Heat Transfer Surface: Mechanical, Thermo-Physical and Surface Behavior. Polymers, 2020, 12, 2863.	2.0	16
18	Foamed Phase Change Materials Based on Recycled Polyethylene/Paraffin Wax Blends. Polymers, 2021, 13, 1987.	2.0	14

#	ARTICLE	IF	CITATIONS
19	Polyolefin in Packaging and Food Industry. Springer Series on Polymer and Composite Materials, 2016, , 181-199.	0.5	13
20	Slippery Liquid-Infused Porous Polymeric Surfaces Based on Natural Oil with Antimicrobial Effect. Polymers, 2021, 13, 206.	2.0	13
21	Investigation of beech wood modified by radio-frequency discharge plasma. Vacuum, 2015, 119, 88-94.	1.6	12
22	Photoimmobilization of zwitterionic polymers on surfaces to reduce cell adhesion. Journal of Colloid and Interface Science, 2017, 500, 294-303.	5.0	11
23	The Separation of Emulsified Water/Oil Mixtures through Adsorption on Plasma-Treated Polyethylene Powder. Materials, 2021, 14, 1086.	1.3	11
24	Dry Sliding Tribological Properties of a Hard Anodized AA6082 Aluminum Alloy. Metals, 2020, 10, 207.	1.0	10
25	pH-Switchable Interaction of a Carboxybetaine Ester-Based SAM with DNA and Gold Nanoparticles. Langmuir, 2017, 33, 6657-6666.	1.6	9
26	Surface Modification of Poly(lactic acid) Film via Cold Plasma Assisted Grafting of Fumaric and Ascorbic Acid. Polymers, 2021, 13, 3717.	2.0	9
27	Morphology analysis. , 2020, , 21-68.		8
28	Effect of poly(ϵ -caprolactone) and titanium (TiO_2) dioxide content on the UV and hydrolytic degradation of poly(lactic acid)/poly(ϵ -caprolactone) blends. Journal of Applied Polymer Science, 2021, 138, 51266.	1.3	8
29	Laser induced periodic surface structures on nano metal oxide filled polyvinylidene fluoride nanocomposites. Optik, 2019, 176, 372-383.	1.4	7
30	Investigation of the Temperature-Related Wear Performance of Hard Nanostructured Coatings Deposited on a S600 High Speed Steel. Metals, 2019, 9, 332.	1.0	6
31	Surface Functionalization of a Polyurethane Surface via Radio-Frequency Cold Plasma Treatment Using Different Gases. Coatings, 2020, 10, 1067.	1.2	6
32	Effect of Barrier Plasma Pre-Treatment on Polyester Films and their Adhesive Properties on Oak Wood. BioResources, 2016, 11, .	0.5	5
33	Photochemical grafting of polysulfobetaine onto polyethylene and polystyrene surfaces and investigation of long-term stability of the polysulfobetaine layer in seawater. Polymers for Advanced Technologies, 2018, 29, 1930-1938.	1.6	5
34	Polyolefin Adhesion Modifications. Springer Series on Polymer and Composite Materials, 2016, , 201-230.	0.5	4
35	Sulfobetaine-based polydisulfides with tunable upper critical solution temperature (UCST) in water alcohols mixture, depolymerization kinetics and surface wettability. Journal of Colloid and Interface Science, 2021, 588, 196-208.	5.0	4
36	Novel Slippery Liquid-Infused Porous Surfaces (SLIPS) Based on Electrospun Polydimethylsiloxane/Polystyrene Fibrous Structures Infused with Natural Blackseed Oil. International Journal of Molecular Sciences, 2022, 23, 3682.	1.8	4

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37	Antimicrobial Modification of LDPE Using Non-thermal Plasma. , 2016, , .		0