

Ales Mracek

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Hyaluronan hydrogels modified by glycinated Kraft lignin: Morphology, swelling, viscoelastic properties and biocompatibility. <i>Carbohydrate Polymers</i> , 2018, 181, 394-403.	5.1	61
2	Plasma-treated carbonyl iron particles as a dispersed phase in magnetorheological fluids. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2011, 387, 99-103.	2.3	53
3	Improvement of dye adsorption on synthetic polyester fibers by low temperature plasma pre-treatment. <i>European Physical Journal D</i> , 2006, 56, B1277-B1282.	0.4	44
4	The Influence of Hofmeister Series Ions on Hyaluronan Swelling and Viscosity. <i>Molecules</i> , 2008, 13, 1025-1034.	1.7	37
5	Adhesion of <i>Rhodococcus</i> sp. S3E2 and <i>Rhodococcus</i> sp. S3E3 to plasma prepared Teflon-like and organosilicon surfaces. <i>Journal of Materials Processing Technology</i> , 2009, 209, 2871-2875.	3.1	25
6	Viscoelastic and mechanical properties of hyaluronan films and hydrogels modified by carbodiimide. <i>Carbohydrate Polymers</i> , 2015, 119, 142-148.	5.1	25
7	Sol-gel synthesis and crystallization kinetics of dysprosium-titanate Dy ₂ Ti ₂ O ₇ for photonic applications. <i>Materials Chemistry and Physics</i> , 2015, 168, 159-167.	2.0	22
8	The effect of plasma treatment on structure and properties of poly(1-butene) surface. <i>European Polymer Journal</i> , 2012, 48, 866-874.	2.6	21
9	Preparation of Textured Surfaces on Aluminum-Alloy Substrates. <i>Materials</i> , 2019, 12, 109.	1.3	20
10	The Measurement of Polymer Swelling Processes by an Interferometric Method and Evaluation of Diffusion Coefficients. <i>International Journal of Molecular Sciences</i> , 2010, 11, 532-543.	1.8	17
11	Preparation of Hierarchically Structured Polystyrene Surfaces with Superhydrophobic Properties by Plasma-Assisted Fluorination. <i>Coatings</i> , 2019, 9, 201.	1.2	16
12	The behaviour of hyaluronan solutions in the presence of Hofmeister ions: A light scattering, viscometry and surface tension study. <i>Carbohydrate Polymers</i> , 2019, 212, 395-402.	5.1	16
13	The diffusion process of sodium hyaluronate (Na-Ha) and Na-Ha-n-alkyl derivatives films swelling. <i>Journal of Biomedical Materials Research - Part A</i> , 2007, 83A, 184-190.	2.1	15
14	The allylamine grafting on the plasma pre-treated polyester nonwoven fabric: Preparation, characterization and utilization. <i>Fibers and Polymers</i> , 2010, 11, 1106-1110.	1.1	14
15	Electrospinning of Hyaluronan Using Polymer Coelectrospinning and Intermediate Solvent. <i>Polymers</i> , 2019, 11, 1517.	2.0	12
16	The influence of quarternary salt on hyaluronan conformation and particle size in solution. <i>Carbohydrate Polymers</i> , 2013, 98, 1039-1044.	5.1	10
17	Treatment and Stability of Sodium Hyaluronate Films in Low Temperature Inductively Coupled Ammonia Plasma. <i>Plasma Chemistry and Plasma Processing</i> , 2012, 32, 1075-1091.	1.1	9
18	Variations of Polymer Porous Surface Structures via the Time-Sequenced Dosing of Mixed Solvents. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 6472-6481.	4.0	9

#	ARTICLE	IF	CITATIONS
19	Effect of sodium salts on diffusion of poly(vinyl alcohol) in aqueous solutions. <i>Journal of Molecular Liquids</i> , 2020, 304, 112728.	2.3	9
20	Self-organised patterns in polymeric films solidified from diluted solutions – The effect of the substrate surface properties. <i>International Journal of Heat and Mass Transfer</i> , 2014, 78, 615-623.	2.5	7
21	Factors determining self-assembly of hyaluronan. <i>Carbohydrate Polymers</i> , 2021, 254, 117307.	5.1	7
22	Host-guest paracetamol/cyclodextrin complex formation evaluated from coupled diffusion measurements. <i>Journal of Chemical Thermodynamics</i> , 2021, 161, 106551.	1.0	7
23	Surface Modification of Metallic Inserts for Enhancing Adhesion at the Metal–Polymer Interface. <i>Polymers</i> , 2021, 13, 4015.	2.0	7
24	Characterization at 25 °C of Sodium Hyaluronate in Aqueous Solutions Obtained by Transport Techniques. <i>Molecules</i> , 2015, 20, 5812-5824.	1.7	6
25	Effect of Hofmeister Ions on Transport Properties of Aqueous Solutions of Sodium Hyaluronate. <i>International Journal of Molecular Sciences</i> , 2021, 22, 1932.	1.8	5
26	Cross-Linked Gelatine by Modified Dextran as a Potential Bioink Prepared by a Simple and Non-Toxic Process. <i>Polymers</i> , 2022, 14, 391.	2.0	5
27	Dependence of Viscosity and Diffusion on β -Cyclodextrin and Chloroquine Diphosphate Interactions. <i>Processes</i> , 2021, 9, 1433.	1.3	4
28	Hierarchically Structured Polystyrene-Based Surfaces Amplifying Fluorescence Signals: Cytocompatibility with Human Induced Pluripotent Stem Cell. <i>International Journal of Molecular Sciences</i> , 2021, 22, 11943.	1.8	3
29	New approach to prepare cytocompatible 3D scaffolds via the combination of sodium hyaluronate and colloidal particles of conductive polymers. <i>Scientific Reports</i> , 2022, 12, 8065.	1.6	3
30	A special instrument for the defined modification of polymer properties in solutions and polymer layers. <i>Measurement: Journal of the International Measurement Confederation</i> , 2017, 97, 218-225.	2.5	2
31	Stability of Aqueous Polymeric Dispersions for Ultra-Thin Coating of Bi-Axially Oriented Polyethylene Terephthalate Films. <i>Coatings</i> , 2017, 7, 234.	1.2	2
32	Hierarchically Structured Surfaces Prepared by Phase Separation: Tissue Mimicking Culture Substrate. <i>International Journal of Molecular Sciences</i> , 2022, 23, 2541.	1.8	2
33	The effect of temperature gradient on the variation of surface topography and reflectivity of anisotropically etched silicon wafers. <i>Sensors and Actuators A: Physical</i> , 2017, 262, 1-9.	2.0	1
34	Crystallization kinetics and structural properties of nanocrystalline europium-yttrium-titanate ($\text{Eu}_0.5\text{Y}_0.5\text{Ti}_2\text{O}_7$). <i>Advanced Powder Technology</i> , 2022, 33, 103501.	2.0	1