Ales Mracek

List of Publications by Year
in descending order

34 papers	497 citations	686830 13 h-index	676716 22 g-index
34 all docs	34 docs citations	34 times ranked	652 citing authors

#	Article	IF	Citations
1	Cross-Linked Gelatine by Modified Dextran as a Potential Bioink Prepared by a Simple and Non-Toxic Process. Polymers, 2022, 14, 391.	2.0	5
2	Hierarchically Structured Surfaces Prepared by Phase Separation: Tissue Mimicking Culture Substrate. International Journal of Molecular Sciences, 2022, 23, 2541.	1.8	2
3	Crystallization kinetics and structural properties of nanocrystalline europium-yttrium-titanate (Eu0.5Y0.5)2Ti2O7. Advanced Powder Technology, 2022, 33, 103501.	2.0	1
4	New approach to prepare cytocompatible 3D scaffolds via the combination of sodium hyaluronate and colloidal particles of conductive polymers. Scientific Reports, 2022, 12, 8065.	1.6	3
5	Factors determining self-assembly of hyaluronan. Carbohydrate Polymers, 2021, 254, 117307.	5.1	7
6	Effect of Hofmeister Ions on Transport Properties of Aqueous Solutions of Sodium Hyaluronate. International Journal of Molecular Sciences, 2021, 22, 1932.	1.8	5
7	Dependence of Viscosity and Diffusion on Î²-Cyclodextrin and Chloroquine Diphosphate Interactions. Processes, 2021, 9, 1433.	1.3	4
8	Host-guest paracetamol/cyclodextrin complex formation evaluated from coupled diffusion measurements. Journal of Chemical Thermodynamics, 2021, 161, 106551.	1.0	7
9	Hierarchically Structured Polystyrene-Based Surfaces Amplifying Fluorescence Signals: Cytocompatibility with Human Induced Pluripotent Stem Cell. International Journal of Molecular Sciences, 2021, 22, 11943.	1.8	3
10	Surface Modification of Metallic Inserts for Enhancing Adhesion at the Metalâ€"Polymer Interface. Polymers, 2021, 13, 4015.	2.0	7
11	Effect of sodium salts on diffusion of poly(vinyl alcohol) in aqueous solutions. Journal of Molecular Liquids, 2020, 304, 112728.	2.3	9
12	Electrospinning of Hyaluronan Using Polymer Coelectrospinning and Intermediate Solvent. Polymers, 2019, 11, 1517.	2.0	12
13	Preparation of Hierarchically Structured Polystyrene Surfaces with Superhydrophobic Properties by Plasma-Assisted Fluorination. Coatings, 2019, 9, 201.	1.2	16
14	The behaviour of hyaluronan solutions in the presence of Hofmeister ions: A light scattering, viscometry and surface tension study. Carbohydrate Polymers, 2019, 212, 395-402.	5.1	16
15	Preparation of Textured Surfaces on Aluminum-Alloy Substrates. Materials, 2019, 12, 109.	1.3	20
16	Hyaluronan hydrogels modified by glycinated Kraft lignin: Morphology, swelling, viscoelastic properties and biocompatibility. Carbohydrate Polymers, 2018, 181, 394-403.	5.1	61
17	Variations of Polymer Porous Surface Structures via the Time-Sequenced Dosing of Mixed Solvents. ACS Applied Materials & Interfaces, 2017, 9, 6472-6481.	4.0	9
18	The effect of temperature gradient on the variation of surface topography and reflectivity of anisotropically etched silicon wafers. Sensors and Actuators A: Physical, 2017, 262, 1-9.	2.0	1

#	Article	IF	Citations
19	A special instrument for the defined modification of polymer properties in solutions and polymer layers. Measurement: Journal of the International Measurement Confederation, 2017, 97, 218-225.	2.5	2
20	Stability of Aqueous Polymeric Dispersions for Ultra-Thin Coating of Bi-Axially Oriented Polyethylene Terephthalate Films. Coatings, 2017, 7, 234.	1.2	2
21	Characterization at 25 Â°C of Sodium Hyaluronate in Aqueous Solutions Obtained by Transport Techniques. Molecules, 2015, 20, 5812-5824.	1.7	6
22	Solâ€“gel synthesis and crystallization kinetics of dysprosium-titanate Dy2Ti2O7 for photonic applications. Materials Chemistry and Physics, 2015, 168, 159-167.	2.0	22
23	Viscoelastic and mechanical properties of hyaluronan films and hydrogels modified by carbodiimide. Carbohydrate Polymers, 2015, 119, 142-148.	5.1	25
24	Self-organised patterns in polymeric films solidified from diluted solutions â€“ The effect of the substrate surface properties. International Journal of Heat and Mass Transfer, 2014, 78, 615-623.	2.5	7
25	The influence of quarternary salt on hyaluronan conformation and particle size in solution. Carbohydrate Polymers, 2013, 98, 1039-1044.	5.1	10
26	Treatment and Stability of Sodium Hyaluronate Films in Low Temperature Inductively Coupled Ammonia Plasma. Plasma Chemistry and Plasma Processing, 2012, 32, 1075-1091.	1.1	9
27	The effect of plasma treatment on structure and properties of poly(1-butene) surface. European Polymer Journal, 2012, 48, 866-874.	2.6	21
28	Plasma-treated carbonyl iron particles as a dispersed phase in magnetorheological fluids. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2011, 387, 99-103.	2.3	53
29	The allylamine grafting on the plasma pre-treated polyester nonwoven fabric: Preparation, characterization and utilization. Fibers and Polymers, 2010, 11, 1106-1110.	1.1	14
30	The Measurement of Polymer Swelling Processes by an Interferometric Method and Evaluation of Diffusion Coefficients. International Journal of Molecular Sciences, 2010, 11, 532-543.	1.8	17
31	Adhesion of Rhodococcus sp. S3E2 and Rhodococcus sp. S3E3 to plasma prepared Teflon-like and organosilicon surfaces. Journal of Materials Processing Technology, 2009, 209, 2871-2875.	3.1	25
32	The Influence of Hofmeister Series Ions on Hyaluronan Swelling and Viscosity. Molecules, 2008, 13, 1025-1034.	1.7	37
33	The diffusion process of sodium hyaluronate (Na-Ha) and Na-Ha-n-alkyl derivatives films swelling. Journal of Biomedical Materials Research - Part A, 2007, 83A, 184-190.	2.1	15
34	Improvement of dye adsorption on synthetic polyester fibers by low temperature plasma pre-treatment. European Physical Journal D, 2006, 56, B1277-B1282.	0.4	44