

Kirill Efimenko

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5639312/publications.pdf>

Version: 2024-02-01

48
papers

4,873
citations

249298

26
h-index

252626

46
g-index

50
all docs

50
docs citations

50
times ranked

7908
citing authors

#	ARTICLE	IF	CITATIONS
1	Deposition of silicate coatings on poly(ethylene terephthalate) for improved scratch and solvent resistance. <i>Journal of Applied Polymer Science</i> , 2022, 139, 51800.	1.3	0
2	Continuous Ligand-Free Suzuki–Miyaura Cross-Coupling Reactions in a Cartridge Flow Reactor Using a Gel-Supported Catalyst. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 9418-9428.	1.8	8
3	Functional Gels Containing Hydroxamic Acid Degrade Organophosphates in Aqueous Solutions. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 8799-8811.	1.8	2
4	DFT Analysis of Organotin Catalytic Mechanisms in Dehydration Esterification Reactions for Terephthalic Acid and 2,2,4,4-Tetramethyl-1,3-cyclobutanediol. <i>Journal of Physical Chemistry A</i> , 2021, 125, 4943-4956.	1.1	0
5	Network-supported, metal-mediated catalysis: progress and perspective. <i>Reaction Chemistry and Engineering</i> , 2020, 5, 1892-1902.	1.9	6
6	Generating Surface-Anchored Zwitterionic Networks and Studying Their Resistance to Bovine Serum Albumin Adsorption. <i>ACS Applied Polymer Materials</i> , 2019, 1, 3323-3333.	2.0	10
7	Thermally driven directional free-radical polymerization in confined channels. <i>Polymer Chemistry</i> , 2019, 10, 920-925.	1.9	2
8	Amidation of Polyesters Is Slow in Nonaqueous Solvents: Efficient Amidation of Poly(ethylene Terephthalate) in Nonaqueous Solvents. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 35641-35649.	4.0	27
9	Targeted Mutagenesis and Combinatorial Library Screening Enables Control of Protein Orientation on Surfaces and Increased Activity of Adsorbed Proteins. <i>Langmuir</i> , 2016, 32, 8660-8667.	1.6	4
10	Multipurpose Polymeric Coating for Functionalizing Inert Polymer Surfaces. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 5694-5705.	4.0	9
11	Effect of ultraviolet/ozone treatment on the surface and bulk properties of poly(dimethyl siloxane) and poly(vinylmethyl siloxane) networks. <i>Polymer</i> , 2014, 55, 3107-3119.	1.8	59
12	Self-assembly fronts in collision: impinging ordering organosilane layers. <i>Soft Matter</i> , 2013, 9, 2493.	1.2	3
13	Elastomeric microparticles for acoustic mediated bioseparations. <i>Journal of Nanobiotechnology</i> , 2013, 11, 22.	4.2	199
14	Oligomer Orientation in Vapor-Molecular-Layer-Deposited Alkyl-Aromatic Polyamide Films. <i>Langmuir</i> , 2012, 28, 10464-10470.	1.6	32
15	Creating Functional Materials by Chemical and Physical Functionalization of Silicone Elastomer Networks. <i>Advances in Silicon Science</i> , 2012, , 59-94.	0.6	1
16	The effect of confinement on thermal frontal polymerization. <i>Polymer Chemistry</i> , 2012, 3, 3243.	1.9	11
17	Time Dependence of Lysozyme Adsorption on End-Grafted Polymer Layers of Variable Grafting Density and Length. <i>Langmuir</i> , 2012, 28, 2122-2130.	1.6	19
18	Three-Dimensional Electrospun Alginate Nanofiber Mats via Tailored Charge Repulsions. <i>Small</i> , 2012, 8, 1928-1936.	5.2	155

#	ARTICLE	IF	CITATIONS
19	Poly(vinylmethylsiloxane) Elastomer Networks as Functional Materials for Cell Adhesion and Migration Studies. <i>Biomacromolecules</i> , 2011, 12, 1265-1271.	2.6	17
20	Ultrathin film coatings of aligned cellulose nanocrystals from a convective-shear assembly system and their surface mechanical properties. <i>Soft Matter</i> , 2011, 7, 1957.	1.2	148
21	Photochromic materials with tunable color and mechanical flexibility. <i>Soft Matter</i> , 2011, 7, 3766-3774.	1.2	21
22	Poly(<i>N</i> -isopropylacrylamide) Brushes Grafted from Cellulose Nanocrystals via Surface-Initiated Single-Electron Transfer Living Radical Polymerization. <i>Biomacromolecules</i> , 2010, 11, 2683-2691.	2.6	261
23	Rapid Removal of Organics and Oil Spills from Waters Using Silicone Rubber "Sponges". <i>Journal of Dispersion Science and Technology</i> , 2009, 30, 318-327.	1.3	27
24	Modification of PET surfaces with self-assembled monolayers of organosilane precursors. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2009, 172, 95-103.	0.8	16
25	Formation of surface-grafted polymeric amphiphilic coatings comprising ethylene glycol and fluorinated groups and their response to protein adsorption. <i>Biointerphases</i> , 2009, 4, FA33-FA44.	0.6	29
26	Development and Testing of Hierarchically Wrinkled Coatings for Marine Antifouling. <i>ACS Applied Materials & Interfaces</i> , 2009, 1, 1031-1040.	4.0	225
27	Alternative Fluoropolymers to Avoid the Challenges Associated with Perfluorooctanoic Acid. <i>Industrial & Engineering Chemistry Research</i> , 2008, 47, 502-508.	1.8	69
28	Propagating waves of self-assembly in organosilane monolayers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 10324-10329.	3.3	42
29	Manipulating Siloxane Surfaces: Obtaining the Desired Surface Function via Engineering Design. <i>ACS Symposium Series</i> , 2007, , 222-255.	0.5	3
30	Study of the Packing Density and Molecular Orientation of Bimolecular Self-Assembled Monolayers of Aromatic and Aliphatic Organosilanes on Silica. <i>Langmuir</i> , 2007, 23, 673-683.	1.6	28
31	Surface Properties of Poly[2-(perfluorooctyl)ethyl acrylate] Deposited from Liquid CO ₂ High-Pressure Free Meniscus Coating. <i>Macromolecules</i> , 2007, 40, 588-597.	2.2	24
32	Orientations of Liquid Crystals in Contact with Surfaces that Present Continuous Gradients of Chemical Functionality. <i>Chemistry of Materials</i> , 2006, 18, 2357-2363.	3.2	34
33	Study of Kinetics and Macroinitiator Efficiency in Surface-Initiated Atom-Transfer Radical Polymerization. <i>Macromolecules</i> , 2006, 39, 9049-9056.	2.2	56
34	Formation Mechanisms and Properties of Semifluorinated Molecular Gradients on Silica Surfaces. <i>Langmuir</i> , 2006, 22, 8532-8541.	1.6	49
35	Recent developments in superhydrophobic surfaces and their relevance to marine fouling: a review. <i>Biofouling</i> , 2006, 22, 339-360.	0.8	1,028
36	Rapid formation of soft hydrophilic silicone elastomer surfaces. <i>Polymer</i> , 2005, 46, 9329-9341.	1.8	60

#	ARTICLE	IF	CITATIONS
37	Nested self-similar wrinkling patterns in skins. <i>Nature Materials</i> , 2005, 4, 293-297.	13.3	710
38	Nonequilibrium Model for Sorption and Swelling of Bulk Glassy Polymer Films with Supercritical Carbon Dioxide. <i>Macromolecules</i> , 2005, 38, 10299-10313.	2.2	26
39	Mapping Surface Chemistry and Molecular Orientation with Combinatorial Near-Edge X-Ray Absorption Fine Structure Spectroscopy. <i>Macromolecular Rapid Communications</i> , 2004, 25, 141-149.	2.0	26
40	Formation and Properties of Anchored Polymers with a Gradual Variation of Grafting Densities on Flat Substrates. <i>Macromolecules</i> , 2003, 36, 2448-2453.	2.2	190
41	Combinatorial near-edge x-ray absorption fine structure: Simultaneous determination of molecular orientation and bond concentration on chemically heterogeneous surfaces. <i>Applied Physics Letters</i> , 2003, 82, 266-268.	1.5	30
42	Formation of Self-Assembled Monolayers of Semifluorinated and Hydrocarbon Chlorosilane Precursors on Silica Surfaces from Liquid Carbon Dioxide. <i>Langmuir</i> , 2002, 18, 6170-6179.	1.6	24
43	Combinatorial Study of the Mushroom-to-Brush Crossover in Surface Anchored Polyacrylamide. <i>Journal of the American Chemical Society</i> , 2002, 124, 9394-9395.	6.6	296
44	Molecular Orientation and Grafting Density in Semifluorinated Self-Assembled Monolayers of Mono-, Di-, and Trichloro Silanes on Silica Substrates. <i>Langmuir</i> , 2002, 18, 9307-9311.	1.6	74
45	Surface Modification of Sylgard-184 Poly(dimethyl siloxane) Networks by Ultraviolet and Ultraviolet/Ozone Treatment. <i>Journal of Colloid and Interface Science</i> , 2002, 254, 306-315.	5.0	670
46	Polymer Chain Relaxation: Surface Outpaces Bulk. <i>Macromolecules</i> , 2001, 34, 5081-5082.	2.2	94
47	Preparing High-Density Polymer Brushes by Mechanically Assisted Polymer Assembly. <i>Macromolecules</i> , 2001, 34, 684-686.	2.2	46
48	Tuning the Surface Properties of Elastomers Using Hydrocarbon-Based Mechanically Assembled Monolayers. <i>Materials Research Society Symposia Proceedings</i> , 2001, 710, 1.	0.1	3