Alla Synytska

List of Publications by Year
in descending order

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77 papers	3,102 citations	117453 34 h-index	161609 54 g-index
82 all docs	82 docs citations	82 times ranked	4079 citing authors

#	Article	IF	Citations
1	Stimuli-Responsive Bicomponent Polymer Janus Particles by â€œGrafting fromâ€/â€œGrafting toâ€•Approaches. Macromolecules, 2008, 41, 9669-9676.	2.2	192
2	Facile preparation of superhydrophobic coatings by solâ€“gel processes. Journal of Colloid and Interface Science, 2008, 325, 149-156.	5.0	126
3	Universal emulsion stabilization from the arrested adsorption of rough particles at liquid-liquid interfaces. Nature Communications, 2017, 8, 15701.	5.8	120
4	Water-Repellent Textile via Decorating Fibers with Amphiphilic Janus Particles. ACS Applied Materials & Interfaces, 2011, 3, 1216-1220.	4.0	112
5	Self-healing superhydrophobic materials. Physical Chemistry Chemical Physics, 2012, 14, 10497.	1.3	111
6	Experimental studies of contact angle hysteresis phenomena on polymer surfaces â€” Toward the understanding and control of wettability for different applications. Advances in Colloid and Interface Science, 2015, 222, 350-376.	7.0	107
7	Hybrid Janus Particles: Challenges and Opportunities for the Design of Active Functional Interfaces and Surfaces. ACS Applied Materials & Interfaces, 2019, 11, 9643-9671.	4.0	107
8	Hybrid Hairy Janus Particles Decorated with Metallic Nanoparticles for Catalytic Applications. ACS Applied Materials & Interfaces, 2015, 7, 21218-21225.	4.0	102
9	Fast and Spatially Resolved Environmental Probing Using Stimuli-Responsive Polymer Layers and Fluorescent Nanocrystals. Advanced Materials, 2006, 18, 1453-1457.	11.1	99
10	Adhesion and Viability of Two Enterococcal Strains on Covalently Grafted Chitosan and Chitosan/Î²-Carrageenan Multilayers. Biomacromolecules, 2007, 8, 2960-2968.	2.6	80
11	Postsynthetic Inner-Surface Functionalization of the Highly Stable Zirconium-Based Metalâ€“Organic Framework DUT-67. Inorganic Chemistry, 2016, 55, 7206-7213.	1.9	68
12	Biocompatible polymeric materials with switchable adhesion properties. Soft Matter, 2010, 6, 5907.	1.2	64
13	4D Biofabrication Using a Combination of 3D Printing and Melt-Electrowriting of Shape-Morphing Polymers. ACS Applied Materials & Interfaces, 2021, 13, 12767-12776.	4.0	62
14	Perfluoroalkyl End-Functionalized Oligoesters:Â Correlation between Wettability and End-Group Segregation. Macromolecules, 2007, 40, 297-305.	2.2	60
15	Switchable adhesion by chemical functionality and topography. Journal of Materials Chemistry, 2012, 22, 19390.	6.7	59
16	Platelet Janus Particles with Hairy Polymer Shells for Multifunctional Materials. ACS Applied Materials & Interfaces, 2014, 6, 13106-13114.	4.0	59
17	Interaction Forces between Microsized Silica Particles and Weak Polyelectrolyte Brushes at Varying pH and Salt Concentration. Langmuir, 2010, 26, 6400-6410.	1.6	56
18	Engineering of Ultraâ€Hydrophobic Functional Coatings Using Controlled Aggregation of Bicomponent Core/Shell Janus Particles. Advanced Functional Materials, 2011, 21, 2338-2344.	7.8	56

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19	Janus particles: from concepts to environmentally friendly materials and sustainable applications. Colloid and Polymer Science, 2020, 298, 841-865.	1.0	56
20	Preparation of scratch resistant superhydrophobic hybrid coatings by solâ€“gel process. Progress in Organic Coatings, 2014, 77, 1635-1641.	1.9	55
21	A comparative study on switchable adhesion between thermoresponsive polymer brushes on flat and rough surfaces. Soft Matter, 2011, 7, 5691.	1.2	52
22	Ordered surface structures from PNIPAM-based loosely packed microgel particles. Soft Matter, 2010, 6, 5980.	1.2	49
23	Surfaces with Self-repairable Ultrahydrophobicity Based on Self-organizing Freely Floating Colloidal Particles. Langmuir, 2012, 28, 3679-3682.	1.6	49
24	Forces of Interaction between Poly(2-vinylpyridine) Brushes As Measured by Optical Tweezers. Macromolecules, 2009, 42, 9096-9102.	2.2	46
25	Temperatureâ€Induced Sizeâ€Control of Bioactive Surface Patterns. Advanced Functional Materials, 2008, 18, 1501-1508.	7.8	44
26	Optical tweezers to measure the interaction between poly(acrylic acid) brushes. Polymer, 2008, 49, 4802-4807.	1.8	44
27	Hybrid Hairy Janus Particles for Anti-Icing and De-Icing Surfaces: Synergism of Properties and Effects. Chemistry of Materials, 2016, 28, 6995-7005.	3.2	44
28	Antiâ€Icing Superhydrophobic Surfaces Based on Coreâ€Shell Fossil Particles. Advanced Materials Interfaces, 2015, 2, 1500124.	1.9	42
29	Tailoring the crack-bridging behavior of strain-hardening cement-based composites (SHCC) by chemical surface modification of poly(vinyl alcohol) (PVA) fibers. Cement and Concrete Composites, 2020, 114, 103722.	4.6	42
30	Simple and Fast Method for the Fabrication of Switchable Bicomponent Micropatterned Polymer Surfaces. Langmuir, 2007, 23, 5205-5209.	1.6	41
31	Wetting on Fractal Superhydrophobic Surfaces from â€œCoreâ^'Shellâ€•Particles: A Comparison of Theory and Experiment. Langmuir, 2009, 25, 3132-3136.	1.6	41
32	Protein-Resistant Polymer Coatings Based on Surface-Adsorbed Poly(aminoethyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 222 Td (methacr	2.6	39
33	4D Biofabrication of fibrous artificial nerve graft for neuron regeneration. Biofabrication, 2020, 12, 035027.	3.7	38
34	Wetting on Regularly Structured Surfaces from â€œCoreâ^'Shellâ€•Particles: Theoretical Predictions and Experimental Findings. Langmuir, 2008, 24, 11895-11901.	1.6	36
35	Multipurpose Ultra and Superhydrophobic Surfaces Based on Oligodimethylsiloxane-Modified Nanosilica. ACS Applied Materials & Interfaces, 2014, 6, 18998-19010.	4.0	36
36	Electrokinetic investigation of surfactant adsorption. Journal of Colloid and Interface Science, 2007, 309, 225-230.	5.0	33

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37	Intelligent Materials with Adaptive Adhesion Properties Based on Comb-like Polymer Brushes. Langmuir, 2012, 28, 16444-16454.	1.6	33
38	Enhancing the interfacial bonding between PE fibers and cementitious matrices through polydopamine surface modification. Composites Part B: Engineering, 2021, 217, 108817.	5.9	33
39	Hybrid Hairy Janus Particles as Building Blocks for Antibiofouling Surfaces. ACS Applied Materials & Interfaces, 2016, 8, 32591-32603.	4.0	31
40	Design of surface properties of PET films: Effect of fluorinated block copolymers. Journal of Colloid and Interface Science, 2007, 315, 210-222.	5.0	29
41	Chemically guided topography in alkylsilane- and oligosiloxane-modified silica nanoparticle coatings: from very hydrophobic surfaces to â€œpearlâ€•bouncing droplets. Soft Matter, 2010, 6, 4768.	1.2	28
42	Tuning the Adhesion of Silica Microparticles to a Poly(2-vinyl pyridine) Brush: An AFM Force Measurement Study. Langmuir, 2012, 28, 15555-15565.	1.6	27
43	New insight into icing and de-icing properties of hydrophobic and hydrophilic structured surfaces based on coreâ€“shell particles. Soft Matter, 2015, 11, 9126-9134.	1.2	27
44	Detachment of Rough Colloids from Liquidâ€“Liquid Interfaces. Langmuir, 2018, 34, 4861-4873.	1.6	25
45	Mechanochemical modification of silica with poly(1-vinyl-2-pyrrolidone) by grinding in a stirred media mill. Journal of Applied Polymer Science, 2007, 104, 3708-3714.	1.3	24
46	Surface modification of poly(vinyl alcohol) fibers to control the fiber-matrix interaction in composites. Colloid and Polymer Science, 2019, 297, 1079-1093.	1.0	24
47	Shape-Morphing Fibrous Hydrogel/Elastomer Bilayers Fabricated by a Combination of 3D Printing and Melt Electrowriting for Muscle Tissue Regeneration. ACS Applied Bio Materials, 2021, 4, 1720-1730.	2.3	24
48	Studies of Surface Segregation and Surface Properties of N-Pentylperfluorooctaneamide End-Capped Semicrystalline Poly(butylene isophthalate) Films. Macromolecules, 2008, 41, 8557-8565.	2.2	23
49	Stimuliâ€Responsive Janus Particles. Particle and Particle Systems Characterization, 2013, 30, 922-930.	1.2	23
50	Microparticleâ€Supported Conjugated Polyelectrolyte Brushes Prepared by Surfaceâ€Initiated Kumada Catalyst Transfer Polycondensation for Sensor Applications. Macromolecular Rapid Communications, 2010, 31, 2146-2150.	2.0	20
51	Controlled and tunable design of polymer interface for immobilization of enzymes: does curvature matter?. Soft Matter, 2017, 13, 1074-1084.	1.2	20
52	Regular Patterned Surfaces from Core-Shell Particles. Preparation and Characterization. , 0, , 72-81.		19
53	Hairy Particles with Immobilized Enzymes: Impact of Particle Topology on the Catalytic Activity. ACS Applied Materials & Interfaces, 2019, 11, 1645-1654.	4.0	19
54	Forces between Blank Surfaces As Measured by the Colloidal Probe Technique and by Optical Tweezers â^' A Comparison. Langmuir, 2009, 25, 12894-12898.	1.6	18

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55	Self-Assembly Behavior of Hairy Colloidal Particles with Different Architectures: Mixed versus Janus. Langmuir, 2014, 30, 12765-12774.	1.6	18
56	MONITORING THE SURFACE TENSION OF REACTIVE EPOXY-AMINE SYSTEMS UNDER DIFFERENT ENVIRONMENTAL CONDITIONS. Journal of Adhesion, 2004, 80, 667-683.	1.8	16
57	Synthesis and Contact Angle Measurements of Janus Particles. ChemPlusChem, 2014, 79, 656-661.	1.3	15
58	Polymer-Inorganic Coatings Containing Nanosized Sorbents Selective to Radionuclides. 1. Latex/Cobalt Hexacyanoferrate(II) Composites for Cesium Fixation. ACS Applied Materials & Interfaces, 2014, 6, 16769-16776.	4.0	14
59	Supercooled Water Drops Do Not Freeze During Impact on Hybrid Janus Particle-Based Surfaces. Chemistry of Materials, 2019, 31, 112-123.	3.2	14
60	Enabling the synthesis of homogeneous or Janus hairy nanoparticles through surface photoactivation. Nanoscale, 2018, 10, 14492-14498.	2.8	13
61	From Molecular Electrostatic Interactions and Hydrogel Architecture to Macroscopic Underwater Adherence. Macromolecules, 2019, 52, 3852-3862.	2.2	13
62	Influence of roughness and capillary size on the zeta potential values obtained by streaming potential measurements. Surface and Interface Analysis, 2020, 52, 991-995.	0.8	12
63	Adaptive PEGâ€“PDMS Brushes: Effect of Architecture on Adhesiveness in Air and under Water. Macromolecules, 2014, 47, 8377-8385.	2.2	11
64	The adsorption of cationic surfactants on photoresist surfaces and its effect on the pattern collapse in high aspect ratio patterning. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2007, 311, 83-92.	2.3	10
65	Programmed assembly of oppositely charged homogeneously decorated and Janus particles. Faraday Discussions, 2016, 191, 89-104.	1.6	10
66	Reconfigurable assembly of charged polymer-modified Janus and non-Janus particles: from half-raspberries to colloidal clusters and chains. Nanoscale Advances, 2019, 1, 3715-3726.	2.2	8
67	Polymerâ€“Inorganic Coatings Containing Nanosized Sorbents Selective to Radionuclides. 2. Latex/Tin Oxide Composites for Cobalt Fixation. ACS Applied Materials & Interfaces, 2014, 6, 22387-22392.	4.0	6
68	Surface Modification of Polymeric Fibers to Control the Interactions with Cement-Based Matrices in Fiber-Reinforced Composites. Key Engineering Materials, 0, 809, 225-230.	0.4	5
69	Thermo-Responsive Polymer Brushes with Side Graft Chains: Relationship Between Molecular Architecture and Underwater Adherence. International Journal of Molecular Sciences, 2019, 20, 6295.	1.8	4
70	Fibrous Scaffolds for Muscle Tissue Engineering Based on Touchâ€Spun Poly(Esterâ€Urethane) Elastomer. Macromolecular Bioscience, 2022, 22, e2100427.	2.1	4
71	Ultrahydrophobe OberflÃchen durch gezieltes GrenzflÃchendesign. Chemie-Ingenieur-Technik, 2010, 82, 297-308.	0.4	3
72	Anionic surfactants for defect suppression in 193-nm lithographyâ€”Study of the adsorption process by ellipsometry and streaming potential measurements. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2010, 371, 8-13.	2.3	3

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73	Janus and patchy nanoparticles: general discussion. Faraday Discussions, 2016, 191, 117-139.	1.6	3
74	Methods for a permanent binding of functionalized micro-particle on polyester fabric for the improvement of the barrier effect. Journal of Industrial Textiles, 2016, 46, 643-663.	1.1	2
75	Effect of Architecture of Thermoresponsive Copolymer Brushes on Switching of Their Adsorption Properties. Macromolecular Chemistry and Physics, 2019, 220, 1900030.	1.1	2
76	Janus Particles as Novel Building Blocks for Active Functional Surfaces and Interfaces. , 2017, , 451-520.		2
77	Covalent immobilization of chitosan on surfaces with anchoring layers of poly(glycidyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50	0.3	1