Jürgen Rühe

List of Publications by Year in descending order

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258 papers 10,999 citations

28736 57 h-index 96 g-index

267 all docs

267 docs citations

times ranked

267

11023 citing authors

#	Article	IF	Citations
1	Protein Repellent, Surfaceâ€Attached Hydrogels Through Spray Coating. Advanced Materials Interfaces, 2022, 9, .	1.9	6
2	The Structural and Mechanical Basis for Passiveâ€Hydraulic Pine Cone Actuation. Advanced Science, 2022, 9, e2200458.	5.6	23
3	Single-Color Barcoding for Multiplexed Hydrogel Bead-Based Immunoassays. ACS Applied Materials & Samp; Interfaces, 2022, 14, 25147-25154.	4.0	7
4	Hairy surfaces by cold drawing leading to dense lawns of high aspect ratio hairs. Scientific Reports, 2022, 12, .	1.6	0
5	Photoreactive polymer and C,H-insertion reaction to tailor the properties of CHA/gelatin-based scaffold. International Journal of Polymer Analysis and Characterization, 2022, 27, 326-345.	0.9	0
6	Hemocompatible Surfaces Through Surface-attached Hydrogel Coatings and their Functional Stability in a Medical Environment. ASAIO Journal, 2021, Publish Ahead of Print, .	0.9	1
7	Accessibility of fiber surface sites for polymeric additives determines dry and wet tensile strength of paper sheets. Cellulose, 2021, 28, 5775.	2.4	8
8	"CHicable―and "Clickable―Copolymers for Network Formation and Surface Modification. Langmuir, 2021, 37, 6510-6520.	1.6	4
9	Kinetics of Photocrosslinking and Surface Attachment of Thick Polymer Films. Macromolecules, 2021, 54, 6238-6246.	2.2	7
10	Measurements of periodically perturbed dewetting force fields and their consequences on the symmetry of the resulting patterns. Scientific Reports, 2021, 11, 13149.	1.6	0
11	Diazo-Based Copolymers for the Wet Strength Improvement of Paper Based on Thermally Induced CH-Insertion Cross-Linking. Biomacromolecules, 2021, 22, 2864-2873.	2.6	7
12	Thermally Induced Cross-Linking of Polymers via C,H Insertion Cross-Linking (CHic) under Mild Conditions. Journal of the American Chemical Society, 2021, 143, 10108-10119.	6.6	9
13	Programming sequential motion steps in 4D-printed hygromorphs by architected mesostructure and differential hygro-responsiveness. Bioinspiration and Biomimetics, 2021, 16, 055002.	1.5	30
14	Linear Cryogel Arrays: On the Fast Track for Borreliosis Detection. Analytical Chemistry, 2021, 93, 12426-12433.	3.2	4
15	Cryogel Monoliths for Analyte Enrichment by Capture and Release. Langmuir, 2021, 37, 11041-11048.	1.6	3
16	Reducing Unspecific Protein Adsorption in Microfluidic Papers Using Fiber-Attached Polymer Hydrogels. Sensors, 2021, 21, 6348.	2.1	5
17	Development of a Material Design Space for 4D-Printed Bio-Inspired Hygroscopically Actuated Bilayer Structures with Unequal Effective Layer Widths. Biomimetics, 2021, 6, 58.	1.5	11
18	Lubrication of surfaces covered by surface-attached hydrogel layers. Tribology International, 2020, 149, 105637.	3.0	12

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19	Prevention of Ocular Tenon Adhesion to Sclera by a PDMAA Polymer to Improve Results after Glaucoma Surgery. Macromolecular Rapid Communications, 2020, 41, 1900352.	2.0	6
20	Actomyosin, vimentin and LINC complex pull on osteosarcoma nuclei to deform on micropillar topography. Biomaterials, 2020, 234, 119746.	5.7	25
21	Towards programmable friction: control of lubrication with ionic liquid mixtures by automated electrical regulation. Scientific Reports, 2020, 10, 17634.	1.6	12
22	Application of printable antibody ink for solid-phase immobilization of ABO antibody using photoactive hydrogel for surface plasmon resonance imaging. Sensors and Actuators B: Chemical, 2020, 320, 128358.	4.0	8
23	Breaking the Interface: Efficient Extraction of Magnetic Beads from Nanoliter Droplets for Automated Sequential Immunoassays. Analytical Chemistry, 2020, 92, 10283-10290.	3.2	9
24	PnBA/PDMAAâ€Based Ironâ€Loaded Micropillars Allow for Discrete Cell Adhesion and Analysis of Actuationâ€Related Molecular Responses. Advanced Materials Interfaces, 2020, 7, 1901806.	1.9	14
25	Photo-Crosslinking of Thioxanthone Group Containing Copolymers for Surface Modification and Bioanalytics. Macromolecules, 2020, 53, 1752-1759.	2.2	10
26	Self-assembly of microsystem components with micrometer gluing pads through capillary forces. Journal of Manufacturing Processes, 2020, 53, 376-387.	2.8	3
27	Tailored disorder: a self-organized photonic contact for light trapping in silicon-based tandem solar cells. Optics Express, 2020, 28, 10909.	1.7	11
28	Macroscopic Friction Studies of Alkylglucopyranosides as Additives for Water-Based Lubricants. Lubricants, 2020, 8, 11.	1.2	14
29	On the relationship of YAP and FAK in hMSCs and osteosarcoma cells: Discrimination of FAK modulation by nuclear YAP depletion or YAP silencing. Cellular Signalling, 2019, 63, 109382.	1.7	18
30	The Surface Science of Microarray Generation–A Critical Inventory. ACS Applied Materials & Samp; Interfaces, 2019, 11, 39397-39409.	4.0	25
31	Waferâ€Scale Fabrication of Conducting Polymer Hydrogels for Microelectrodes and Flexible Bioelectronics. Advanced Biology, 2019, 3, e1900072.	3.0	16
32	Thin-Film Lubrication in the Water/Octyl \hat{l}^2 - <scp>d</scp> -Glucopyranoside System: Macroscopic and Nanoscopic Tribological Behavior. Langmuir, 2019, 35, 7136-7145.	1.6	9
33	Entropic death of nonpatterned and nanopatterned polyelectrolyte brushes. Journal of Polymer Science Part A, 2019, 57, 1283-1295.	2.5	7
34	Electrochemically Controlled Drug Release from a Conducting Polymer Hydrogel (PDMAAp/PEDOT) for Local Therapy and Bioelectronics. Advanced Healthcare Materials, 2019, 8, e1801488.	3.9	71
35	Confining acrylate-benzophenone copolymers into adhesive micropads by photochemical crosslinking. Journal of Photochemistry and Photobiology A: Chemistry, 2019, 377, 80-91.	2.0	5
36	Biophysical Insights on the Enrichment of Cancer Cells from Whole Blood by (Affinity) Filtration. Scientific Reports, 2019, 9, 1246.	1.6	4

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37	Surface-attached dual-functional hydrogel for controlled cell adhesion based on poly(N,N-dimethylacrylamide). Journal of Polymer Research, 2019, 26, 1.	1.2	17
38	Notice of Violation of IEEE Publication Principles: Chip Based Microelectrochemical Cell Array for Whole-Cell Patch-Clamp Recording. , 2019, , .		0
39	Hydrogel based protein biochip for parallel detection of biomarkers for diagnosis of a Systemic Inflammatory Response Syndrome (SIRS) in human serum. PLoS ONE, 2019, 14, e0225525.	1.1	7
40	Chemical Modification of Fiberâ€Matrix Interfaces of Glass Fiber Reinforced Thermoplastics and Methods for Interface Characterization. Advanced Engineering Materials, 2019, 21, 1800590.	1.6	8
41	Dewetting and photochemical crosslinking of adhesive pads onto lithographically patterned surfaces. Journal of Applied Polymer Science, 2019, 136, 47321.	1.3	3
42	Development of surface-attached thin film of non-fouling hydrogel from poly(2-oxazoline). Journal of Polymer Research, 2019, 26, 1.	1.2	6
43	Geometrically enhanced sensor surfaces for the selective capture of cell-like particles in a laminar flow field. Biomicrofluidics, 2018, 12, 014116.	1.2	1
44	"Nickel Nanoflowers―with Surface-Attached Fluoropolymer Networks by C,H Insertion for the Generation of Metallic Superhydrophobic Surfaces. Langmuir, 2018, 34, 5342-5351.	1.6	11
45	Galvanically induced potentials to enable minimal tribochemical wear of stainless steel lubricated with sodium chloride and ionic liquid aqueous solution. Friction, 2018, 6, 230-242.	3.4	30
46	Toward a New Generation of Smart Biomimetic Actuators for Architecture. Advanced Materials, 2018, 30, e1703653.	11.1	108
47	Surface-attached hydrogel coatings via C,H-insertion crosslinking for biomedical and bioanalytical applications (Review). Biointerphases, 2018, 13, 010801.	0.6	71
48	Blocking-Free and Substrate-Independent Serological Microarray Immunoassays. Biomacromolecules, 2018, 19, 4641-4649.	2.6	9
49	One-Step Photochemical Generation of Biofunctionalized Hydrogel Particles via Two-Phase Flow. ACS Applied Materials & Samp; Interfaces, 2018, 10, 39411-39416.	4.0	8
50	Nonâ€Delaminating Polymer Hydrogel Coatings via C,Hâ€Insertion Crosslinking (CHic)—A Case Study of Poly(oxanorbornenes). Macromolecular Chemistry and Physics, 2018, 219, 1800397.	1.1	6
51	Effect of geometrical constraints on human pluripotent stem cell nuclei in pluripotency and differentiation. Integrative Biology (United Kingdom), 2018, 10, 278-289.	0.6	17
52	Design of interfaces with lithographically patterned adhesive pads for gluing at the microscale. International Journal of Adhesion and Adhesives, 2018, 85, 88-99.	1.4	0
53	Extending the Lotus Effect: Repairing Superhydrophobic Surfaces after Contamination or Damage by CHic Chemistry. Langmuir, 2018, 34, 8661-8669.	1.6	7
54	Biomimetic Actuators: Toward a New Generation of Smart Biomimetic Actuators for Architecture (Adv. Mater. 19/2018). Advanced Materials, 2018, 30, 1870135.	11.1	4

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55	Composite material consisting of microporous \hat{l}^2 -TCP ceramic and alginate for delayed release of antibiotics. Acta Biomaterialia, 2017, 51, 433-446.	4.1	23
56	Molting Materials: Restoring Superhydrophobicity after Severe Damage via Snakeskin-like Shedding. Langmuir, 2017, 33, 4833-4839.	1.6	16
57	Wetting Transitions in Polymer Nanograss Generated by Nanoimprinting. Macromolecular Chemistry and Physics, 2017, 218, 1700056.	1.1	5
58	Morphology of Nanostructured Polymer Brushes Dependent on Production and Treatment. Macromolecules, 2017, 50, 4715-4724.	2.2	12
59	Preparation of Linear Cryogel Arrays as a Microfluidic Platform for Immunochromatographic Assays. Analytical Chemistry, 2017, 89, 5697-5701.	3.2	11
60	Functional Cryogel Microstructures Prepared by Light-Induced Cross-Linking of a Photoreactive Copolymer. ACS Applied Materials & Samp; Interfaces, 2017, 9, 12165-12170.	4.0	18
61	Reduced Lateral Confinement and Its Effect on Stability in Patterned Strong Polyelectrolyte Brushes. Langmuir, 2017, 33, 3296-3303.	1.6	16
62	Highly Selective Capture Surfaces on Medical Wires for Fishing Tumor Cells in Whole Blood. Analytical Chemistry, 2017, 89, 1846-1854.	3.2	29
63	Malonic Acid Diazoesters for Câ^'H Insertion Crosslinking (CHic) Reactions: A Versatile Method for the Generation of Tailorâ€Made Surfaces. Angewandte Chemie - International Edition, 2017, 56, 14405-14410.	7.2	20
64	Malonic Acid Diazoesters for Câ^'H Insertion Crosslinking (CHic) Reactions: A Versatile Method for the Generation of Tailorâ€Made Surfaces. Angewandte Chemie, 2017, 129, 14597-14602.	1.6	6
65	And There Was Light: Prospects for the Creation of Micro- and Nanostructures through Maskless Photolithography. ACS Nano, 2017, 11, 8537-8541.	7.3	26
66	Surfaceâ€attached polymer networks through carbene intermediates generated from αâ€diazo esters. Journal of Polymer Science Part A, 2017, 55, 3276-3285.	2.5	12
67	Polymer Microstructures through Twoâ€Photon Crosslinking. Advanced Materials, 2017, 29, 1703469.	11.1	22
68	Macroscopic Superlow Friction of Steel and Diamond-Like Carbon Lubricated with a Formanisotropic 1,3-Diketone. ACS Omega, 2017, 2, 8330-8342.	1.6	17
69	An interpenetrating, microstructurable and covalently attached conducting polymer hydrogel for neural interfaces. Acta Biomaterialia, 2017, 58, 365-375.	4.1	70
70	PDMAA Hydrogel Coated U-Bend Humidity Sensor Suited for Mass-Production. Sensors, 2017, 17, 517.	2.1	18
71	On the Lubrication Mechanism of Surfaces Covered with Surfaceâ€Attached Hydrogels. Macromolecular Chemistry and Physics, 2016, 217, 526-536.	1.1	23
72	On the Generation of Polyetherâ€Based Coatings through Photoinduced C,H Insertion Crosslinking. Macromolecular Chemistry and Physics, 2016, 217, 1457-1466.	1.1	21

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73	Low Ice Adhesion on Nano-Textured Superhydrophobic Surfaces under Supersaturated Conditions. ACS Applied Materials & Samp; Interfaces, 2016, 8, 12583-12587.	4.0	179
74	Analysis of Calcium Transients and Uniaxial Contraction Force in Single Human Embryonic Stem Cell-Derived Cardiomyocytes on Microstructured Elastic Substrate with Spatially Controlled Surface Chemistries. Langmuir, 2016, 32, 12190-12201.	1.6	18
75	A Planar low-cost full-polymer Optical Humidity Sensor. Procedia Technology, 2016, 26, 530-536.	1.1	10
76	Remotely Controlled Micromanipulation by Buckling Instabilities in Fe ₃ O ₄ Nanoparticle Embedded Poly(<i>N</i> -isopropylacrylamide) Surface Arrays. ACS Applied Materials & Amp; Interfaces, 2016, 8, 28012-28018.	4.0	3
77	Humidity Driven Swelling of the Surface-Attached Poly(<i>N</i> -alkylacrylamide) Hydrogels. Macromolecules, 2016, 49, 8254-8264.	2.2	20
78	Kinetics of the Generation of Surface-Attached Polymer Networks through C, H-Insertion Reactions. Macromolecules, 2016, 49, 2438-2447.	2.2	51
79	Fabrication of protein microarrays for alpha fetoprotein detection by using a rapid photo-immobilization process. Sensing and Bio-Sensing Research, 2016, 7, 95-99.	2.2	5
80	Manufacturing of embedded multimode waveguides by reactive lamination of cyclic olefin polymer and polymethylmethacrylate. Optical Engineering, 2016, 55, 037103.	0.5	6
81	Capacitive humidity and dew-point sensing: Influence of wetting of surface-attached polymer monolayers on the sensor response. Sensors and Actuators B: Chemical, 2016, 222, 87-94.	4.0	15
82	Towards High Performance Detection of Circulating Tumor Cells in Whole Blood. Procedia Engineering, 2015, 120, 380-383.	1.2	1
83	Development of a multi-analyte CMOS sensor for point-of-care testing. Sensing and Bio-Sensing Research, 2015, 5, 117-122.	2.2	8
84	Particle Extraction in Plug-based Microfluidics. Procedia Engineering, 2015, 120, 96-99.	1.2	3
85	Fabrication and implantation of hydrogel coated, flexible polyimide electrodes. , 2015, , .		5
86	Novel Method for Loading Microporous Ceramics Bone Grafts by Using a Directional Flow. Journal of Functional Biomaterials, 2015, 6, 1085-1098.	1.8	8
87	Lamination of chemical incompatible optical polymer layers. Proceedings of SPIE, 2015, , .	0.8	1
88	Nucleus deformation of SaOs-2 cells on rhombic $\hat{A}\mu$ -pillars. Journal of Materials Science: Materials in Medicine, 2015, 26, 108.	1.7	11
89	Polymer hybrid materials for planar optronic systems. Proceedings of SPIE, 2015, , .	0.8	1
90	Ultralow Friction of Steel Surfaces Using a 1,3-Diketone Lubricant in the Thin Film Lubrication Regime. Langmuir, 2015, 31, 11033-11039.	1.6	35

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91	A Novel Reactive Lamination Process for the Generation of Functional Multilayer Foils for Optical Applications. Procedia Technology, 2014, 15, 147-155.	1.1	10
92	Platelet Repellent Properties of Hydrogel Coatings on Polyurethane-Coated Glass Surfaces. ASAIO Journal, 2014, 60, 587-593.	0.9	18
93	Fluorescent sensibility of microarrays through functionalized adhesive polydiacetylene vesicles. Sensors and Actuators A: Physical, 2014, 214, 45-57.	2.0	3
94	"Grafting Through― Mechanistic Aspects of Radical Polymerization Reactions with Surface-Attached Monomers. Macromolecules, 2014, 47, 2929-2937.	2.2	82
95	Solid-Phase Extraction in Segmented Flow. Langmuir, 2014, 30, 12804-12811.	1.6	4
96	Raising the shields: PCR in the presence of metallic surfaces protected by tailor-made coatings. Colloids and Surfaces B: Biointerfaces, 2014, 122, 576-582.	2.5	4
97	Generation of chip based microelectrochemical cell arrays for long-term and high-resolution recording of ionic currents through ion channel proteins. Sensors and Actuators B: Chemical, 2014, 205, 268-275.	4.0	8
98	Binding of Functionalized Polymers to Surface-Attached Polymer Networks Containing Reactive Groups. Macromolecules, 2014, 47, 2695-2702.	2.2	13
99	On the mechanism of deposit formation during thermal oxidation of mineral diesel and diesel/biodiesel blends under accelerated conditions. Fuel, 2014, 133, 245-252.	3.4	31
100	Microcones and Nanograss: Toward Mechanically Robust Superhydrophobic Surfaces. Langmuir, 2014, 30, 4342-4350.	1.6	87
101	Colorimetric sensing properties of catechol-functional polymerized vesicles in aqueous solution and at solid surfaces. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2014, 441, 242-254.	2.3	11
102	Preparation of hydrophilic polymeric nanolayers attached to solid surfaces via photochemical and ATRP techniques. Journal of Polymer Research, 2013, 20, 1 .	1.2	6
103	Tailorâ€Made Polymer Multilayers. Advanced Functional Materials, 2013, 23, 6019-6023.	7.8	31
104	Preparation of Surface-Attached Polymer Layers by Thermal or Photochemical Activation of \hat{l}_{\pm} -Diazoester Moieties. Langmuir, 2013, 29, 10932-10939.	1.6	29
105	Time-Resolved Analysis of Biological Reactions Based on Heterogeneous Assays in Liquid Plugs of Nanoliter Volume. Analytical Chemistry, 2013, 85, 9469-9477.	3.2	5
106	Sensitivity of microarray based immunoassays using surface-attached hydrogels. Analytica Chimica Acta, 2013, 781, 72-79.	2.6	28
107	Influence of the Molecular Structure of Surface-Attached Poly(<i>N</i> -alkyl Acrylamide) Coatings on the Interaction of Surfaces with Proteins, Cells and Blood Platelets. Macromolecular Bioscience, 2013, 13, 873-884.	2.1	62
108	Surfaces with Combined Microscale and Nanoscale Structures: A Route to Mechanically Stable Superhydrophobic Surfaces?. Langmuir, 2013, 29, 3765-3772.	1.6	84

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109	1,3-Diketone Fluids and Their Complexes with Iron. Journal of Physical Chemistry A, 2013, 117, 3369-3376.	1.1	17
110	Ultralow Friction Induced by Tribochemical Reactions: A Novel Mechanism of Lubrication on Steel Surfaces. Langmuir, 2013, 29, 5207-5213.	1.6	30
111	Universal nucleic acid sequence-based amplification for simultaneous amplification of messengerRNAs and microRNAs. Analytica Chimica Acta, 2012, 754, 1-7.	2.6	17
112	Light-Induced Switching of Surfaces at Wetting Transitions through Photoisomerization of Polymer Monolayers. Langmuir, 2012, 28, 15038-15046.	1.6	64
113	Protein-resistant polymer surfaces. Journal of Materials Chemistry, 2012, 22, 19547.	6.7	112
114	Parallel Acquisition of High Resolution Polymer Mass-Spectra onÂa Nanopore Microbilayer Array. Biophysical Journal, 2012, 102, 28a.	0.2	2
115	Superaerophobicity: Repellence of Air Bubbles from Submerged, Surface-Engineered Silicon Substrates. Langmuir, 2012, 28, 14968-14973.	1.6	29
116	Experimental investigation of the flow induced by artificial cilia. Lab on A Chip, 2011, 11, 2017.	3.1	62
117	Simple One-Step Process for Immobilization of Biomolecules on Polymer Substrates Based on Surface-Attached Polymer Networks. Langmuir, 2011, 27, 6116-6123.	1.6	59
118	Photomechanical Degrafting of Azo-Functionalized Poly(methacrylic acid) (PMAA) Brushes. Journal of Physical Chemistry B, 2011, 115, 10431-10438.	1.2	45
119	High Resolution Single Molecule Analysis using Nanopore Recording on Microelectrode Cavity Arrays. Biophysical Journal, 2011, 100, 608a.	0.2	0
120	Nanopore-Based Single-Molecule Mass Spectrometry on a Lipid Membrane Microarray. ACS Nano, 2011, 5, 8080-8088.	7.3	140
121	Synthesis and Morphological Study of Thick Benzyl Methacrylate–Styrene Diblock Copolymer Brushes. Langmuir, 2011, 27, 13284-13292.	1.6	17
122	Magnetically-actuated artificial cilia for microfluidic propulsion. Lab on A Chip, 2011, 11, 2002.	3.1	147
123	Dielectrophoretic Positioning of Cells on Planar Microelectrode Cavity Arrays (MECA) for High Throughput Patch-Clamp Measurements. Biophysical Journal, 2011, 100, 305a.	0.2	1
124	Micro to nano: Surface size scale and superhydrophobicity. Beilstein Journal of Nanotechnology, 2011, 2, 327-332.	1.5	15
125	Artificial Cilia: Generation of Magnetic Actuators in Microfluidic Systems. Advanced Functional Materials, 2011, 21, 3314-3320.	7.8	76
126	Polysaccharide microarrays with a CMOS based signal detection unit. Biosensors and Bioelectronics, 2011, 26, 1839-1846.	5.3	17

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127	Surface topography, morphology and functionality of silver containing plasma polymer nanocomposites. Surface and Coatings Technology, 2011, 205, 2978-2984.	2.2	22
128	Microarray-based amplification and detection of RNA by nucleic acid sequence based amplification. Analytical and Bioanalytical Chemistry, 2010, 397, 3533-3541.	1.9	20
129	A polymer-based DNA biochip platform for human papilloma virus genotyping. Journal of Virological Methods, 2010, 163, 40-48.	1.0	42
130	Tailormade Microfluidic Devices Through Photochemical Surface Modification. Macromolecular Chemistry and Physics, 2010, 211, 195-203.	1,1	15
131	Printed protein microarrays on unmodified plastic substrates. Analytica Chimica Acta, 2010, 671, 92-98.	2.6	31
132	Formation and Distribution of Silver Nanoparticles in a Functional Plasma Polymer Matrix and Related Ag ⁺ Release Properties. Plasma Processes and Polymers, 2010, 7, 619-625.	1.6	74
133	Adaptive Platform for Highly Parallel Low-Noise Recordings of Single Membrane Proteins. Biophysical Journal, 2010, 98, 188a.	0.2	0
134	Temperature and Time-Resolved Total Internal Reflectance Fluorescence Analysis of Reusable DNA Hydrogel Chips. Analytical Chemistry, 2010, 82, 6124-6131.	3.2	10
135	Polymerizable Biomimetic Vesicles with Controlled Local Presentation of Adhesive Functional DOPA Groups. Langmuir, 2010, 26, 8573-8581.	1.6	27
136	Attachment of Polymer Films to Solid Surfaces via Thermal Activation of Self-assembled Monolayers Containing Sulphonyl Azide Group. Langmuir, 2010, 26, 769-774.	1.6	20
137	Step-and-Repeat Assembly of Molecularly Controlled Ultrathin Polyaramide Layers. Macromolecules, 2010, 43, 9056-9062.	2.2	14
138	Enzyme Containing Redox Polymer Networks for Biosensors or Biofuel Cells: A Photochemical Approach. Langmuir, 2010, 26, 6019-6027.	1.6	55
139	Nucleic acid sequence-based amplification in formalin-fixed and paraffin-embedded breast-cancer tissues. Journal of Clinical Pathology, 2010, 63, 1071-1076.	1.0	3
140	Compartmentalizing a lipid bilayer by tuning lateral stress in a physisorbed polymer-tethered membrane. Soft Matter, 2010, 6, 2723.	1.2	19
141	Polymer characterisation on langasite delay lines. , 2009, , .		0
142	The design of thin polymer membranes filled with magnetic particles on a microstructured silicon surface. Nanotechnology, 2009, 20, 255301.	1.3	14
143	Polymer Brushes with Nanometerâ€Scale Gradients. Advanced Materials, 2009, 21, 4706-4710.	11.1	56
144	Photochemical Generation of Ferroceneâ∈Based Redoxâ∈Polymer Networks. Macromolecular Rapid Communications, 2009, 30, 1817-1822.	2.0	22

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145	Cell microâ€arrays from surfaceâ€attached peptideâ€polymer monolayers. Physica Status Solidi (A) Applications and Materials Science, 2009, 206, 468-473.	0.8	15
146	Polymer-Tethered Bimolecular Lipid Membranes. Advances in Polymer Science, 2009, , 87-111.	0.4	17
147	Some thoughts on superhydrophobic wetting. Soft Matter, 2009, 5, 51-61.	1.2	341
148	Wetting of Silicon Nanograss: From Superhydrophilic to Superhydrophobic Surfaces. Advanced Materials, 2008, 20, 159-163.	11.1	227
149	Mimicking the Stenocara Beetle—Dewetting of Drops from a Patterned Superhydrophobic Surface. Langmuir, 2008, 24, 6154-6158.	1.6	158
150	Biocompatibility of Microsystems. , 2008, , 107-130.		4
151	Grafting of PMMA brushes on titania nanoparticulate surface via surface-initiated conventional radical and "controlled―radical polymerization (ATRP). Journal of Nanoparticle Research, 2008, 10, 415-427.	0.8	39
152	Transbilayer coupling of obstructed lipid diffusion in polymer-tethered phospholipid bilayers. Soft Matter, 2008, 4, 1899.	1.2	41
153	Planar microelectrode-cavity array for high-resolution and parallel electrical recording of membrane ionic currents. Lab on A Chip, 2008, 8, 938.	3.1	100
154	A Robust Method for the Immobilization of Polymer Molecules on SiO ₂ Surfaces. Macromolecules, 2008, 41, 873-878.	2.2	37
155	Drops on Microstructured Surfaces Coated with Hydrophilic Polymers:  Wenzel's Model and Beyond. Langmuir, 2008, 24, 1959-1964.	1.6	59
156	Surface Attached Polymer Networks through Thermally Induced Cross-Linking of Sulfonyl Azide Group Containing Polymers. Macromolecules, 2008, 41, 9284-9289.	2.2	83
157	Surface-Attached PDMAAâ^'GRGDSP Hybrid Polymer Monolayers that Promote the Adhesion of Living Cells. Biomacromolecules, 2008, 9, 543-552.	2.6	49
158	Mixing Immiscible Fluids in a Microchannel Through Surface Modifications. , 2007, , .		0
159	Self-Affine Surfaces of Polymer Brushes. Macromolecules, 2007, 40, 6361-6369.	2.2	10
160	Synthesis of Functionalized Polymer Monolayers from Active Ester Brushes. Macromolecules, 2007, 40, 5497-5503.	2.2	64
161	Condensation and Wetting Transitions on Microstructured Ultrahydrophobic Surfaces. Langmuir, 2007, 23, 3820-3824.	1.6	217
162	Contact Line Shape on Ultrahydrophobic Post Surfaces. Langmuir, 2007, 23, 3179-3183.	1.6	62

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163	Domain Registration in Raft-Mimicking Lipid Mixtures Studied Using Polymer-Tethered Lipid Bilayers. Biophysical Journal, 2007, 92, 1263-1270.	0.2	121
164	Memory of Surface Patterns in Mixed Polymer Brushes:  Simulation and Experiment. Langmuir, 2007, 23, 279-285.	1.6	64
165	Swellable Surface-Attached Polymer Microlenses with Tunable Focal Length. Advanced Materials, 2007, 19, 456-460.	11.1	13
166	Single-step centrifugal hematocrit determination on a 10-\$ processing device. Biomedical Microdevices, 2007, 9, 795-799.	1.4	61
167	Fabrication of Chemically Microstructured Polymer Brushes. Langmuir, 2006, 22, 8571-8575.	1.6	29
168	Advancing and Receding Motion of Droplets on Ultrahydrophobic Post Surfaces. Langmuir, 2006, 22, 7652-7657.	1.6	164
169	Local Composition of Nanophase-Separated Mixed Polymer Brushes. Macromolecules, 2006, 39, 3056-3064.	2.2	54
170	Domain Memory of Mixed Polymer Brushes. Langmuir, 2006, 22, 4660-4667.	1.6	26
171	Tunable Bragg filters based on polymer swelling. Applied Optics, 2006, 45, 4284.	2.1	38
172	Ambient temperature ATRP of benzyl methacrylate as a tool for the synthesis of block copolymers with styrene. Journal of Polymer Science Part A, 2006, 44, 2848-2861.	2.5	14
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