

Marcus Textor

List of Publications by Year in descending order

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207
papers

22,136
citations

6254

80
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9345

143
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216
all docs

216
docs citations

216
times ranked

22503
citing authors

#	ARTICLE	IF	CITATIONS
1	Surface engineering approaches to micropattern surfaces for cell-based assays. <i>Biomaterials</i> , 2006, 27, 3044-3063.	11.4	881
2	Titanium in Medicine. <i>Engineering Materials</i> , 2001, , .	0.6	689
3	Poly(L-lysine)-g-Poly(ethylene glycol) Layers on Metal Oxide Surfaces: Attachment Mechanism and Effects of Polymer Architecture on Resistance to Protein Adsorption. <i>Journal of Physical Chemistry B</i> , 2000, 104, 3298-3309.	2.6	620
4	Comparative Stability Studies of Poly(2-methyl-2-oxazoline) and Poly(ethylene glycol) Brush Coatings. <i>Biointerphases</i> , 2012, 7, 1.	1.6	616
5	A comparative study of protein adsorption on titanium oxide surfaces using in situ ellipsometry, optical waveguide lightmode spectroscopy, and quartz crystal microbalance/dissipation. <i>Colloids and Surfaces B: Biointerfaces</i> , 2002, 24, 155-170.	5.0	608
6	Poly(L-lysine)-g-poly(ethylene glycol) Layers on Metal Oxide Surfaces: Surface-Analytical Characterization and Resistance to Serum and Fibrinogen Adsorption. <i>Langmuir</i> , 2001, 17, 489-498.	3.5	490
7	Protein Resistance of Titanium Oxide Surfaces Modified by Biologically Inspired mPEG-DOPA. <i>Langmuir</i> , 2005, 21, 640-646.	3.5	423
8	Ultrastable Iron Oxide Nanoparticle Colloidal Suspensions Using Dispersants with Catechol-Derived Anchor Groups. <i>Nano Letters</i> , 2009, 9, 4042-4048.	9.1	411
9	Poly(L-lysine)-graft-poly(ethylene glycol) Assembled Monolayers on Niobium Oxide Surfaces: A Quantitative Study of the Influence of Polymer Interfacial Architecture on Resistance to Protein Adsorption by ToF-SIMS and in Situ OWLS. <i>Langmuir</i> , 2003, 19, 9216-9225.	3.5	382
10	Optical grating coupler biosensors. <i>Biomaterials</i> , 2002, 23, 3699-3710.	11.4	375
11	Stabilization and functionalization of iron oxide nanoparticles for biomedical applications. <i>Nanoscale</i> , 2011, 3, 2819.	5.6	360
12	Staphylococcus aureus adhesion to titanium oxide surfaces coated with non-functionalized and peptide-functionalized poly(L-lysine)-grafted-poly(ethylene glycol) copolymers. <i>Biomaterials</i> , 2004, 25, 4135-4148.	11.4	347
13	Triggered Release from Liposomes through Magnetic Actuation of Iron Oxide Nanoparticle Containing Membranes. <i>Nano Letters</i> , 2011, 11, 1664-1670.	9.1	339
14	Silk fibroin as an organic polymer for controlled drug delivery. <i>Journal of Controlled Release</i> , 2006, 111, 219-227.	9.9	328
15	Poly-2-methyl-2-oxazoline: A Peptide-like Polymer for Protein-Repellent Surfaces. <i>Langmuir</i> , 2008, 24, 613-616.	3.5	315
16	Influence of PEG Architecture on Protein Adsorption and Conformation. <i>Langmuir</i> , 2005, 21, 12327-12332.	3.5	312
17	Covalent Attachment of Cell-Adhesive, (Arg-Gly-Asp)-Containing Peptides to Titanium Surfaces. <i>Langmuir</i> , 1998, 14, 5507-5516.	3.5	291
18	Bovine Serum Albumin Adsorption onto Colloidal Al ₂ O ₃ Particles: A New Model Based on Zeta Potential and UV-Vis Measurements. <i>Langmuir</i> , 2004, 20, 10055-10061.	3.5	289

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19	Effects of Ionic Strength and Surface Charge on Protein Adsorption at PEGylated Surfaces. Journal of Physical Chemistry B, 2005, 109, 17545-17552.	2.6	289
20	Surface characterization of implant materials c.p. Ti, Ti-6Al-7Nb and Ti-6Al-4V with different pretreatments. Journal of Materials Science: Materials in Medicine, 1999, 10, 35-46.	3.6	286
21	Biotin-Derivatized Poly(L-lysine)-g-poly(ethylene glycol): A Novel Polymeric Interface for Bioaffinity Sensing. Langmuir, 2002, 18, 220-230.	3.5	261
22	Structural Chemistry of Self-Assembled Monolayers of Octadecylphosphoric Acid on Tantalum Oxide Surfaces. Langmuir, 2000, 16, 3257-3271.	3.5	256
23	Alkyl Phosphate Monolayers, Self-Assembled from Aqueous Solution onto Metal Oxide Surfaces. Langmuir, 2001, 17, 4014-4020.	3.5	248
24	Effect of titanium surface topography on macrophage activation and secretion of proinflammatory cytokines and chemokines. Journal of Biomedical Materials Research Part B, 2004, 70A, 194-205.	3.1	243
25	Differential regulation of osteogenic differentiation of stem cells on surface roughness gradients. Biomaterials, 2014, 35, 9023-9032.	11.4	226
26	Chemisorbed poly(propylene sulphide)-based copolymers resist biomolecular interactions. Nature Materials, 2003, 2, 259-264.	27.5	214
27	Polyoxazolines for Nonfouling Surface Coatings – A Direct Comparison to the Gold Standard PEG. Macromolecular Rapid Communications, 2012, 33, 1663-1676.	3.9	214
28	Biomimetic modification of titanium dental implant model surfaces using the RGDSP-peptide sequence: A cell morphology study. Biomaterials, 2006, 27, 4003-4015.	11.4	205
29	Surface Functionalization of Single Superparamagnetic Iron Oxide Nanoparticles for Targeted Magnetic Resonance Imaging. Small, 2009, 5, 1334-1342.	10.0	203
30	Microcontact printing of novel co-polymers in combination with proteins for cell-biological applications. Biomaterials, 2003, 24, 1713-1720.	11.4	201
31	Micro-well arrays for 3D shape control and high resolution analysis of single cells. Lab on A Chip, 2007, 7, 1074.	6.0	199
32	Self-Assembled Monolayers of Dodecyl and Hydroxy-dodecyl Phosphates on Both Smooth and Rough Titanium and Titanium Oxide Surfaces. Langmuir, 2002, 18, 3537-3548.	3.5	197
33	A Novel Approach to Produce Protein Nanopatterns by Combining Nanoimprint Lithography and Molecular Self-Assembly. Nano Letters, 2004, 4, 1909-1914.	9.1	194
34	Immobilization of the cell-adhesive peptide Arg-Gly-Asp-Cys (RGDC) on titanium surfaces by covalent chemical attachment. Journal of Materials Science: Materials in Medicine, 1997, 8, 867-872.	3.6	193
35	Anodic plasma-chemical treatment of CP titanium surfaces for biomedical applications. Biomaterials, 2004, 25, 593-606.	11.4	191
36	Peptide functionalized poly(L-lysine)-g-poly(ethylene glycol) on titanium: resistance to protein adsorption in full heparinized human blood plasma. Biomaterials, 2003, 24, 4949-4958.	11.4	189

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37	Self-Assembly of Focal Point Oligo-catechol Ethylene Glycol Dendrons on Titanium Oxide Surfaces: Adsorption Kinetics, Surface Characterization, and Nonfouling Properties. Journal of the American Chemical Society, 2011, 133, 10940-10950.	13.7	185
38	A Combined Photolithographic and Molecular-Assembly Approach to Produce Functional Micropatterns for Applications in the Biosciences. Advanced Functional Materials, 2004, 14, 749-756.	14.9	184
39	PEG-Stabilized Core-Shell Nanoparticles: Impact of Linear versus Dendritic Polymer Shell Architecture on Colloidal Properties and the Reversibility of Temperature-Induced Aggregation. ACS Nano, 2013, 7, 316-329.	14.6	176
40	Comparative investigation of the surface properties of commercial titanium dental implants. Part I: chemical composition. Journal of Materials Science: Materials in Medicine, 2002, 13, 535-548.	3.6	170
41	Biofunctional Polyelectrolyte Multilayers and Microcapsules: Control of Non-Specific and Bio-Specific Protein Adsorption. Advanced Functional Materials, 2005, 15, 357-366.	14.9	159
42	Optical Anisotropy of Supported Lipid Structures Probed by Waveguide Spectroscopy and Its Application to Study of Supported Lipid Bilayer Formation Kinetics. Analytical Chemistry, 2008, 80, 3666-3676.	6.5	154
43	Selective Molecular Assembly Patterning: A New Approach to Micro- and Nanochemical Patterning of Surfaces for Biological Applications. Langmuir, 2002, 18, 3281-3287.	3.5	151
44	Characterization of anodic spark-converted titanium surfaces for biomedical applications. Journal of Materials Science: Materials in Medicine, 1999, 10, 453-457.	3.6	150
45	An inverted microcontact printing method on topographically structured polystyrene chips for arrayed micro-3-D culturing of single cells. Biomaterials, 2005, 26, 5917-5925.	11.4	148
46	Interactions between Titanium Dioxide and Phosphatidyl Serine-Containing Liposomes: Formation and Patterning of Supported Phospholipid Bilayers on the Surface of a Medically Relevant Material. Langmuir, 2005, 21, 6443-6450.	3.5	145
47	Biomimetic Surface Modifications Based on the Cyanobacterial Iron Chelator Anachelin. Journal of the American Chemical Society, 2006, 128, 1064-1065.	13.7	142
48	Influence of Electronegative Substituents on the Binding Affinity of Catechol-Derived Anchors to Fe ₃ O ₄ Nanoparticles. Journal of Physical Chemistry C, 2011, 115, 683-691.	3.1	142
49	Particle Lithography from Colloidal Self-Assembly at Liquid-Liquid Interfaces. ACS Nano, 2010, 4, 5665-5670.	14.6	141
50	Whole blood coagulation on protein adsorption-resistant PEG and peptide functionalised PEG-coated titanium surfaces. Biomaterials, 2005, 26, 861-872.	11.4	140
51	Title is missing!. Tribology Letters, 2003, 15, 231-239.	2.6	136
52	Properties and Biological Significance of Natural Oxide Films on Titanium and Its Alloys. Engineering Materials, 2001, , 171-230.	0.6	135
53	Relationship between Interfacial Forces Measured by Colloid-Probe Atomic Force Microscopy and Protein Resistance of Poly(ethylene glycol)-Grafted Poly(L-lysine) Adlayers on Niobia Surfaces. Langmuir, 2005, 21, 6508-6520.	3.5	125
54	Large Area Protein Nanopatterning for Biological Applications. Nano Letters, 2006, 6, 1165-1171.	9.1	125

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55	Integration column: microwell arrays for mammalian cell culture. Integrative Biology (United Tj ETQq1 1 0.784314,rgBT /Overlock 10	1.3	125
56	A Novel Approach To Produce Biologically Relevant Chemical Patterns at the Nanometer Scale:Â Selective Molecular Assembly Patterning Combined with Colloidal Lithography. Langmuir, 2002, 18, 8580-8586.	3.5	124
57	Osteogenic differentiation of human mesenchymal stem cells in the absence of osteogenic supplements: A surface-roughness gradient study. Acta Biomaterialia, 2015, 28, 64-75.	8.3	124
58	Title is missing!. Journal of Applied Electrochemistry, 2000, 30, 533-541.	2.9	122
59	Bending Rigidity and Induced Persistence Length of Molecular Bottle Brushes:Â A Self-Consistent-Field Theory. Macromolecules, 2005, 38, 8891-8901.	4.8	122
60	Enhanced bone apposition around biofunctionalized sandblasted and acid-etched titanium implant surfaces. A histomorphometric study in miniature pigs. Clinical Oral Implants Research, 2006, 17, 251-257.	4.5	118
61	Reduced medical infection related bacterial strains adhesion on bioactive RGD modified titanium surfaces: A first step toward cell selective surfaces. Journal of Biomedical Materials Research - Part A, 2008, 84A, 425-435.	4.0	118
62	Designed polymer structures with antifouling&“antimicrobial properties. Reactive and Functional Polymers, 2011, 71, 329-334.	4.1	118
63	Nitrilotriacetic Acid Functionalized Graft Copolymers: A Polymeric Interface for Selective and Reversible Binding of Histidine-Tagged Proteins. Advanced Functional Materials, 2006, 16, 243-251.	14.9	116
64	Poly(ethylene glycol) Adlayers Immobilized to Metal Oxide Substrates Through Catechol Derivatives: Influence of Assembly Conditions on Formation and Stability. Langmuir, 2010, 26, 4018-4026.	3.5	115
65	The role of the interplay between polymer architecture and bacterial surface properties on the microbial adhesion to polyoxazoline-based ultrathin films. Biomaterials, 2010, 31, 9462-9472.	11.4	114
66	High Salt Stability and Protein Resistance of Poly(L-lysine)-g-poly(ethylene glycol) Copolymers Covalently Immobilized via Aldehyde Plasma Polymer Interlayers on Inorganic and Polymeric Substrates. Langmuir, 2006, 22, 5760-5769.	3.5	113
67	Surface activation of polyetheretherketone (PEEK) and formation of calcium phosphate coatings by precipitation. Journal of Materials Science: Materials in Medicine, 1997, 8, 683-690.	3.6	111
68	Ligand-specific targeting of microspheres to phagocytes by surface modification with poly(L-lysine)-grafted poly(ethylene glycol) conjugate. Pharmaceutical Research, 2003, 20, 237-246.	3.5	109
69	Chemically patterned, metal-oxide-based surfaces produced by photolithographic techniques for studying protein- and cell-interactions. II: Protein adsorption and early cell interactions. Biomaterials, 2003, 24, 1147-1158.	11.4	105
70	Stable Stealth Function for Hollow Polyelectrolyte Microcapsules through a Poly(ethylene glycol) Grafted Polyelectrolyte Adlayer. Biomacromolecules, 2008, 9, 100-108.	5.4	105
71	Investigating the properties of supported vesicular layers on titanium dioxide by quartz crystal microbalance with dissipation measurements. Journal of Chemical Physics, 2005, 122, 204711.	3.0	101
72	Asymmetric Distribution of Phosphatidyl Serine in Supported Phospholipid Bilayers on Titanium Dioxide. Langmuir, 2006, 22, 3467-3473.	3.5	100

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73	Polyelectrolyte Coatings with a Potential for Electronic Control and Cell Sheet Engineering. <i>Advanced Materials</i> , 2008, 20, 560-565.	21.0	100
74	Surface Assembly of Catechol-Functionalized Poly(<i>l</i> -lysine)- <i>g</i> -poly(ethylene Terephthalate) Biomimetic Strong Adhesion. <i>Macromolecules</i> , 2010, 43, 1050-1060.	4.8	99
75	Self-Assembly of Poly(ethylene glycol)- <i>b</i> -Poly(alkyl phosphonate) Terpolymers on Titanium Oxide Surfaces: Synthesis, Interface Characterization, Investigation of Nonfouling Properties, and Long-Term Stability. <i>Langmuir</i> , 2010, 26, 74-82.	3.5	96
76	Biomedical interfaces: titanium surface technology for implants and cell carriers. <i>Nanomedicine</i> , 2006, 1, 449-463.	3.3	95
77	Furanone at Subinhibitory Concentrations Enhances Staphylococcal Biofilm Formation by <i>luxS</i> Repression. <i>Antimicrobial Agents and Chemotherapy</i> , 2009, 53, 4159-4166.	3.2	93
78	Waveguide excitation fluorescence microscopy: A new tool for sensing and imaging the biointerface. <i>Biosensors and Bioelectronics</i> , 2006, 21, 1476-1482.	10.1	89
79	Pattern stability under cell culture conditions—A comparative study of patterning methods based on PLL-g-PEG background passivation. <i>Biomaterials</i> , 2006, 27, 2534-2541.	11.4	89
80	Reduction of Friction at Oxide Interfaces upon Polymer Adsorption from Aqueous Solutions. <i>Langmuir</i> , 2004, 20, 423-428.	3.5	88
81	Dimensionality Controls Cytoskeleton Assembly and Metabolism of Fibroblast Cells in Response to Rigidity and Shape. <i>PLoS ONE</i> , 2010, 5, e9445.	2.5	83
82	Instrumental improvements in optical waveguide light mode spectroscopy for the study of biomolecule adsorption. <i>Review of Scientific Instruments</i> , 1997, 68, 2172-2176.	1.3	79
83	Use of Ti-coated replicas to investigate the effects on fibroblast shape of surfaces with varying roughness and constant chemical composition. <i>Journal of Biomedical Materials Research Part B</i> , 2002, 60, 434-444.	3.1	77
84	Influence of Poly(propylene sulfide-block-ethylene glycol) Di- and Triblock Copolymer Architecture on the Formation of Molecular Adlayers on Gold Surfaces and Their Effect on Protein Resistance: A Candidate for Surface Modification in Biosensor Research. <i>Macromolecules</i> , 2005, 38, 10503-10510.	4.8	72
85	Formation of supported bacterial lipid membrane mimics. <i>Biointerphases</i> , 2008, 3, FA41-FA50.	1.6	72
86	Wavelength-dependent measurement and evaluation of surface topographies: application of a new concept of window roughness and surface transfer function. <i>Wear</i> , 2000, 237, 231-252.	3.1	70
87	Protein-Resistant Surfaces through Mild Dopamine Surface Functionalization. <i>Chemistry - A European Journal</i> , 2008, 14, 10579-10584.	3.3	70
88	Plasma protein adsorption on titanium: comparative in situ studies using optical waveguide lightmode spectroscopy and ellipsometry. <i>Colloids and Surfaces B: Biointerfaces</i> , 1998, 11, 187-201.	5.0	69
89	Electrochemical optical waveguide lightmode spectroscopy (EC-OWLS): A pilot study using evanescent-field optical sensing under voltage control to monitor polycationic polymer adsorption onto indium tin oxide (ITO)-coated waveguide chips. <i>Biotechnology and Bioengineering</i> , 2003, 82, 465-473.	3.3	69
90	Probing Protein-Chaperone Interactions with Single-Molecule Fluorescence Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 6184-6188.	13.8	68

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91	The reactions of carbon monoxide at coordinatively unsaturated sites on a platinum surface. Chemical Physics Letters, 1976, 44, 468-470.	2.6	66
92	Dendritic versus Linear Polymer Brushes: Self-Consistent Field Modeling, Scaling Theory, and Experiments. Macromolecules, 2010, 43, 9555-9566.	4.8	65
93	Immobilization of the Enzyme β -Lactamase on Biotin-Derivatized Poly(L-lysine)-g-poly(ethylene Tj ETQq1 1 0.784314 rgBT /Overlock 10 and in Situ Optical Sensing. Langmuir, 2004, 20, 10464-10473.	3.5	64
94	The implant material, Ti6Al7Nb: surface microstructure, composition and properties. Journal of Materials Science: Materials in Medicine, 1999, 10, 191-198.	3.6	59
95	Synergistic interaction of topographic features in the production of bone-like nodules on Ti surfaces by rat osteoblasts. Biomaterials, 2005, 26, 1119-1130.	11.4	59
96	Functionalization of Titanium Oxide Surfaces by Means of Poly(alkyl-phosphonates). Journal of Physical Chemistry B, 2006, 110, 25603-25605.	2.6	59
97	Carboxy-Terminated Oligo(ethylene glycol)-Alkane Phosphate: Synthesis and Self-Assembly on Titanium Oxide Surfaces. Langmuir, 2007, 23, 377-381.	3.5	59
98	Engineered 3D environments to elucidate the effect of environmental parameters on drug response in cancer. Integrative Biology (United Kingdom), 2011, 3, 31-38.	1.3	59
99	Improved Stimulation of Human Dendritic Cells by Receptor Engagement with Surface-modified Microparticles. Journal of Drug Targeting, 2003, 11, 11-18.	4.4	58
100	Osteoblast response to titanium surfaces functionalized with extracellular matrix peptide biomimetics. Clinical Oral Implants Research, 2011, 22, 865-872.	4.5	58
101	Chemically patterned, metal oxide based surfaces produced by photolithographic techniques for studying protein-cell surface interactions I: Microfabrication and surface characterization. Biomaterials, 2003, 24, 1133-1145.	11.4	56
102	Mannose-Based Molecular Patterns on Stealth Microspheres for Receptor-Specific Targeting of Human Antigen-Presenting Cells. Langmuir, 2008, 24, 11790-11802.	3.5	56
103	Formation and characterization of DNA-polymer-condensates based on poly(2-methyl-2-oxazoline) grafted poly(L-lysine) for non-viral delivery of therapeutic DNA. Biomaterials, 2011, 32, 5291-5303.	11.4	56
104	Using Complementary Acoustic and Optical Techniques for Quantitative Monitoring of Biomolecular Adsorption at Interfaces. Biosensors, 2012, 2, 341-376.	4.7	56
105	Orientation in Methyl- and Hydroxyl-Terminated Self-Assembled Alkanephosphate Monolayers on Titanium Oxide Surfaces Investigated with Soft X-ray Absorption. Langmuir, 2002, 18, 3957-3962.	3.5	55
106	Functionalizable Nanomorphology Gradients via Colloidal Self-Assembly. Langmuir, 2007, 23, 5929-5935.	3.5	55
107	Characterization of Poly(L-lysine)-graft-Poly(ethylene glycol) Assembled Monolayers on Niobium Pentoxide Substrates Using Time-of-Flight Secondary Ion Mass Spectrometry and Multivariate Analysis. Analytical Chemistry, 2004, 76, 1483-1492.	6.5	53
108	Merging Organic and Polymer Chemistries to Create Glycomaterials for Glycomics Applications. Macromolecular Bioscience, 2006, 6, 634-647.	4.1	53

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109	A photo-electron and secondary ion mass spectrometric study of the chemical composition of thermal oxide layers on technically pure aluminium. <i>Corrosion Science</i> , 1983, 23, 41-53.	6.6	52
110	Feasibility study of an online toxicological sensor based on the optical waveguide technique. <i>Biosensors and Bioelectronics</i> , 2000, 15, 423-429.	10.1	52
111	Osteoblast Proliferation and Differentiation on Dentin Slices Are Modulated by Pretreatment of the Surface With Tetracycline or Osteoclasts. <i>Journal of Periodontology</i> , 2000, 71, 586-597.	3.4	52
112	Comparative assessment of the stability of nonfouling poly(2-methyl-2-oxazoline) and poly(ethylene Tj ETQq0 0 0 rgBT /Overlock 10 Tf	15.6	50
113	A novel generic platform for chemical patterning of surfaces. <i>Progress in Surface Science</i> , 2004, 76, 55-69.	8.3	49
114	X-Ray Structure Analysis of the Triple-Decker Sandwich Complex Tris(η -cyclopentadienyl)nickel Tetrafluoroborate. <i>Angewandte Chemie International Edition in English</i> , 1974, 13, 135-136.	4.4	48
115	One-Step Method for Generating PEG-Like Plasma Polymer Gradients: Chemical Characterization and Analysis of Protein Interactions. <i>Langmuir</i> , 2010, 26, 13987-13994.	3.5	48
116	Interaction of Poly(L-Lysine)-g-Poly(Ethylene Glycol) with Supported Phospholipid Bilayers. <i>Biophysical Journal</i> , 2004, 87, 1711-1721.	0.5	47
117	Combined Affinity and Catalytic Biosensor: In Situ Enzymatic Activity Monitoring of Surface-Bound Enzymes. <i>Journal of the American Chemical Society</i> , 2005, 127, 13084-13085.	13.7	47
118	The angiogenic response to PLL-g-PEG-mediated HIF-1 β plasmid DNA delivery in healthy and diabetic rats. <i>Biomaterials</i> , 2013, 34, 4173-4182.	11.4	47
119	Selective molecular assembly patterning at the nanoscale: a novel platform for producing protein patterns by electron-beam lithography on SiO ₂ /indium tin oxide-coated glass substrates. <i>Nanotechnology</i> , 2005, 16, 1781-1786.	2.6	46
120	Poly(methacrylic acid) Grafts Grown from Designer Surfaces: The Effect of Initiator Coverage on Polymerization Kinetics, Morphology, and Properties. <i>Macromolecules</i> , 2009, 42, 1640-1647.	4.8	46
121	Formation of Nanopore-Spanning Lipid Bilayers through Liposome Fusion. <i>Langmuir</i> , 2011, 27, 10920-10928.	3.5	46
122	Covalent Attachment of Novel Poly(ethylene glycol)-Poly(dl-lactic acid) Copolymeric Micelles to TiO ₂ Surfaces. <i>Langmuir</i> , 2002, 18, 252-258.	3.5	45
123	An Engineered Mannoside Presenting Platform: <i>Escherichia coli</i> Adhesion under Static and Dynamic Conditions. <i>Advanced Functional Materials</i> , 2008, 18, 1459-1469.	14.9	45
124	Enhanced osteoblastic activity and bone regeneration using surface-modified porous bioactive glass scaffolds. <i>Journal of Biomedical Materials Research - Part A</i> , 2010, 94A, 1023-1033.	4.0	45
125	Single cell 3-D platform to study ligand mobility in cell-cell contact. <i>Lab on A Chip</i> , 2011, 11, 2876.	6.0	45
126	Comparison of the response of cultured osteoblasts and osteoblasts outgrown from rat calvarial bone chips to nonfouling KRSR and FHRRIKA peptide modified rough titanium surfaces. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2009, 91B, 517-527.	3.4	44

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127	Covalent Immobilization of Antibacterial Furanones via Photochemical Activation of Perfluorophenylazide. <i>Langmuir</i> , 2009, 25, 7432-7437.	3.5	44
128	A detailed investigation of the formation kinetics and layer structure of poly(ethylene glycol) tether supported lipid bilayers. <i>Soft Matter</i> , 2009, 5, 2804.	2.7	44
129	Issues of Ligand Accessibility and Mobility in Initial Cell Attachment. <i>Langmuir</i> , 2007, 23, 11693-11704.	3.5	43
130	The use of biotinâ€œavidin binding to facilitate biomodification of thermoresponsive culture surfaces. <i>Biomaterials</i> , 2007, 28, 5471-5476.	11.4	41
131	Substrate Adhesion Regulates Sealing Zone Architecture and Dynamics in Cultured Osteoclasts. <i>PLoS ONE</i> , 2011, 6, e28583.	2.5	41
132	Characterization of PLL-g-PEG-DNA Nanoparticles for the Delivery of Therapeutic DNA. <i>Bioconjugate Chemistry</i> , 2008, 19, 548-557.	3.6	40
133	Phosphorylcholine-containing polyurethanes for the control of protein adsorption and cell attachment via photoimmobilized laminin oligopeptides. <i>Journal of Biomaterials Science, Polymer Edition</i> , 1999, 10, 931-955.	3.5	39
134	Template Synthesis of SiO ₂ Nanostructures. <i>Journal of Materials Science Letters</i> , 1999, 18, 599-601.	0.5	37
135	Microfabricated three-dimensional environments for single cell studies. <i>Biointerphases</i> , 2006, 1, P1-P4.	1.6	37
136	Regulation of Human Mesenchymal Stem Cell Osteogenesis by Specific Surface Density of Fibronectin: a Gradient Study. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 2367-2375.	8.0	37
137	Metallation of an aliphatic carbonâ€œhydrogen bond: synthesis and X-ray structure of [PtCl(PBut ₂ CH ₂ CMe ₂ CH ₂)] ₂ . <i>Journal of the Chemical Society Chemical Communications</i> , 1976, , 292-293.	2.0	36
138	The Cell Penetrating Peptides pVEC and W2-pVEC Induce Transformation of Gel Phase Domains in Phospholipid Bilayers without Affecting Their Integrity. <i>Biochemistry</i> , 2006, 45, 3598-3609.	2.5	36
139	The structure of 1/4-(Î-cyclopentadienyl)-bis[(Î-cyclopentadienyl)nickel(III)] tetrafluoroborate at 190 and 295 K. <i>Acta Crystallographica Section B: Structural Science</i> , 1983, 39, 607-612.	1.8	35
140	Bioactive Patterns at the 100-nm Scale Produced Using Multifunctional Physisorbed Monolayers. <i>MRS Bulletin</i> , 2005, 30, 202-206.	3.5	35
141	A novel crossed microfluidic device for the precise positioning of proteins and vesicles. <i>Lab on A Chip</i> , 2005, 5, 1387.	6.0	35
142	Adsorption of Molecular Brushes with Polyelectrolyte Backbones onto Oppositely Charged Surfaces: A Self-Consistent Field Theory. <i>Langmuir</i> , 2008, 24, 7232-7244.	3.5	35
143	Fabrication of TiO ₂ -coated epoxy replicas with identical dualâ€œtype surface topographies used in cell culture assays. <i>Journal of Biomedical Materials Research - Part A</i> , 2009, 88A, 12-22.	4.0	35
144	Ru(II) Glycodendrimers as Probes to Study Lectinâ€œCarbohydrate Interactions and Electrochemically Measure Monosaccharide and Oligosaccharide Concentrations. <i>Langmuir</i> , 2010, 26, 1520-1523.	3.5	35

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145	Dendritic Spherical Polymer Brushes: Theory and Self-Consistent Field Modeling. <i>Macromolecules</i> , 2013, 46, 4651-4662.	4.8	35
146	Patterned cell adhesion by self-assembled structures for use with a CMOS cell-based biosensor. <i>Biosensors and Bioelectronics</i> , 2007, 22, 1426-1433.	10.1	34
147	Mechanical properties of mushroom and brush poly(ethylene glycol)-phospholipid membranes. <i>Soft Matter</i> , 2011, 7, 9267.	2.7	33
148	Effect of patterns and inhomogeneities on the surface of waveguides used for optical waveguide lightmode spectroscopy applications. <i>Applied Physics B: Lasers and Optics</i> , 2001, 72, 441-447.	2.2	32
149	Monitoring kinetics of surface initiated atom transfer radical polymerization by quartz crystal microbalance with dissipation. <i>Biointerphases</i> , 2006, 1, 35-39.	1.6	32
150	Multiple Transmission-Reflection Infrared Spectroscopy for High-Sensitivity Measurement of Molecular Monolayers on Silicon Surfaces. <i>Journal of Physical Chemistry A</i> , 2008, 112, 12372-12377.	2.5	32
151	A bioactive elastin-like recombinamer reduces unspecific protein adsorption and enhances cell response on titanium surfaces. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014, 114, 225-233.	5.0	32
152	Formation of supported lipid bilayers on indium tin oxide for dynamically-patterned membrane-functionalized microelectrode arrays. <i>Lab on A Chip</i> , 2009, 9, 718-725.	6.0	31
153	Micropatterning of Functional Conductive Polymers with Multiple Surface Chemistries in Register. <i>Langmuir</i> , 2012, 28, 6502-6511.	3.5	31
154	Supported Lipopolysaccharide Bilayers. <i>Langmuir</i> , 2012, 28, 12199-12208.	3.5	30
155	Structural Evolution of Self-Assembled Alkanephosphate Monolayers on TiO ₂ . <i>ChemPhysChem</i> , 2008, 9, 1979-1981.	2.1	29
156	Understanding Self-Assembled Amphiphilic Peptide Supramolecular Structures from Primary Structure Helix Propensity. <i>Langmuir</i> , 2008, 24, 7645-7647.	3.5	29
157	Liposomes Tethered to Omega-Functional PEG Brushes and Induced Formation of PEG Brush Supported Planar Lipid Bilayers. <i>Langmuir</i> , 2009, 25, 13534-13539.	3.5	29
158	Solid on liquid deposition. <i>Thin Solid Films</i> , 2010, 518, 5061-5065.	1.8	29
159	Phagocytosis of poly(L-lysine)-graft-poly (ethylene glycol) coated microspheres by antigen presenting cells: Impact of grafting ratio and poly (ethylene glycol) chain length on cellular recognition. <i>Biointerphases</i> , 2006, 1, 123-133.	1.6	28
160	Surface analysis of thin films and interfaces in commercial aluminium products. <i>Analytica Chimica Acta</i> , 1994, 297, 15-26.	5.4	27
161	Lipid redistribution in phosphatidylserine-containing vesicles adsorbing on titania. <i>Biointerphases</i> , 2008, 3, FA90-FA95.	1.6	27
162	Biochemical Modification of Titanium Surfaces. <i>Engineering Materials</i> , 2001, , 417-455.	0.6	27

#	ARTICLE	IF	CITATIONS
163	Self-assembly of functionalized spherical nanoparticles on chemically patterned microstructures. Nanotechnology, 2005, 16, 3045-3052.	2.6	25
164	Tuned Graft Copolymers as Controlled Coatings for DNA Microarrays. Analytical Chemistry, 2005, 77, 5831-5838.	6.5	25
165	Controlled Breast Cancer Microarrays for the Deconvolution of Cellular Multilayering and Density Effects upon Drug Responses. PLoS ONE, 2012, 7, e40141.	2.5	25
166	Applications of surface-analytical techniques to aluminium surfaces in commercial semifabricated and finished products. Surface and Interface Analysis, 1992, 19, 595-600.	1.8	24
167	Enzymes on nanotubes thwart fouling. Nature Nanotechnology, 2007, 2, 138-139.	31.5	23
168	Pleckstrin Homology-Phospholipase C- β 1 Interaction with Phosphatidylinositol 4,5-Bisphosphate Containing Supported Lipid Bilayers Monitored in Situ with Dual Polarization Interferometry. Analytical Chemistry, 2011, 83, 6267-6274.	6.5	23
169	An RGD-restricted substrate interface is sufficient for the adhesion, growth and cartilage forming capacity of human chondrocytes. , 2010, 20, 316-328.		23
170	Locally Addressable Electrochemical Patterning Technique (LAEPT) applied to poly(L-lysine)-graft-poly(ethylene glycol) adlayers on titanium and silicon oxide surfaces. Biotechnology and Bioengineering, 2005, 91, 285-295.	3.3	22
171	Characterization of supported lipid bilayers incorporating and phosphoinositol-3,4,5-triphosphate by complementary techniques. Biointerphases, 2010, 5, 114-119.	1.6	22
172	Characterization of Titanium Oxide Films Prepared by the Template-Stripping Method. Langmuir, 2003, 19, 10116-10123.	3.5	21
173	Tuning the immune response of dendritic cells to surface-assembled poly(l:C) on microspheres through synergistic interactions between phagocytic and TLR3 signaling. Biomaterials, 2011, 32, 2651-2661.	11.4	21
174	Glycosylidene Carbenes. Part 27. Glucosidation of titanium dioxide with 1-aziglucoses: Preparation and characterization of modified titanium-dioxide surfaces. Helvetica Chimica Acta, 1998, 81, 1359-1372.	1.6	20
175	Self-Assembly of Iron Oxide-Poly(ethylene glycol) Core-Shell Nanoparticles at Liquid-Liquid Interfaces. Chimia, 2010, 64, 145-149.	0.6	20
176	Surface-assembled poly(l:C) on PEGylated PLGA microspheres as vaccine adjuvant: APC activation and bystander cell stimulation. International Journal of Pharmaceutics, 2016, 514, 176-188.	5.2	20
177	Supported lipid bilayer microarrays created by non-contact printing. Lab on A Chip, 2011, 11, 2403.	6.0	19
178	The study of polarisation in single cells using model cell membranes. Integrative Biology (United Kingdom), 2013, 5, 1-13.	1.3	19
179	Antimicrobial Properties of 8-Hydroxyserrulat-14-en-19-oic Acid for Treatment of Implant-Associated Infections. Antimicrobial Agents and Chemotherapy, 2013, 57, 333-342.	3.2	19
180	Reduced frictional resistance of polyurethane catheter by means of a surface coating procedure. Journal of Applied Polymer Science, 1996, 61, 1939-1948.	2.6	18

#	ARTICLE	IF	CITATIONS
181	Adhesion of Polyelectrolyte Microcapsules through Biotin–Streptavidin Specific Interaction. <i>Biomacromolecules</i> , 2006, 7, 2331-2336.	5.4	16
182	Evaluation of chemically modified SLA implants (modSLA) biofunctionalized with integrin (RGD) and heparin (KRSR) binding peptides. <i>Journal of Biomedical Materials Research - Part A</i> , 2012, 100A, 703-711.	4.0	16
183	Effect of Cell Shape and Dimensionality on Spindle Orientation and Mitotic Timing. <i>PLoS ONE</i> , 2013, 8, e66918.	2.5	16
184	Adsorption and electrically stimulated desorption of the triblock copolymer poly(propylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 627 T 1510-1517.	1.9	15
185	Micropatterning of gold substrates based on poly(propylene sulfide-bl-ethylene glycol), (PPS–PEG) background passivation and the molecular-assembly patterning by lift-off (MAPL) technique. <i>Surface Science</i> , 2008, 602, 2305-2310.	1.9	15
186	Magnetic Decoupling of Surface Fe ³⁺ in Magnetite Nanoparticles upon Nitrocatechol–Anchored Dispersant Binding. <i>Chemistry - A European Journal</i> , 2011, 17, 7396-7398.	3.3	15
187	Characterization of nanoscale metal structures obtained by template synthesis. <i>Fresenius' Journal of Analytical Chemistry</i> , 1998, 361, 684-686.	1.5	13
188	Imaging of Surface Heterogeneity by the Microdroplet Condensation Technique. <i>Langmuir</i> , 2001, 17, 4123-4125.	3.5	13
189	Surface plasmon optical detection of β -lactamase binding to different interfacial matrices combined with fiber optic absorbance spectroscopy for enzymatic activity assays. <i>Biointerphases</i> , 2006, 1, 73-81.	1.6	13
190	Grazing Incidence Small Angle X-ray Scattering on Colloidal Crystals. <i>Journal of Physical Chemistry B</i> , 2010, 114, 12473-12479.	2.6	13
191	Preparation of thin AlO _x (0.5–1.5) films on gold and polycarbonate characterized by XPS, EPMA, AFM and TEM. <i>Surface and Interface Analysis</i> , 1994, 21, 546-552.	1.8	12
192	Bioinspired, nanoscale approaches in contemporary bioanalytics (Review). <i>Biointerphases</i> , 2018, 13, 040801.	1.6	12
193	Automated time-resolved analysis of bacteria–substrate interactions using functionalized microparticles and flow cytometry. <i>Biomaterials</i> , 2011, 32, 4347-4357.	11.4	11
194	–Docking Sites– Nanometer-Scale Organization of a Reactive, Protein-resistant, Graft Copolymer-Based Interface for Macromolecule Immobilization.. <i>Biomacromolecules</i> , 2011, 12, 4213-4220.	5.4	9
195	Surface assembly of poly(l:C) on PEGylated microspheres to shield from adverse interactions with fibroblasts. <i>Journal of Controlled Release</i> , 2012, 159, 204-214.	9.9	9
196	Gallium enrichment and film detachment during anodizing of an Al–Ga alloy. <i>Corrosion Science</i> , 2000, 42, 405-419.	6.6	8
197	Ligand–ligand interactions and the structures of simple binary carbonyls. <i>Journal of the Chemical Society Chemical Communications</i> , 1976, , 1047-1048.	2.0	7
198	Nanomedicine In Focus: Opportunities and Challenges Ahead. <i>Biointerphases</i> , 2012, 7, 19.	1.6	7

#	ARTICLE	IF	CITATIONS
199	ToF-SIMS analysis of poly(L-lysine)-graft-poly(2-methyl-2-oxazoline) ultrathin adlayers. Analytical and Bioanalytical Chemistry, 2014, 406, 1509-1517.	3.7	7
200	Microarray spotting of nanoparticles. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2009, 346, 61-65.	4.7	6
201	Biotribological approaches to the lubrication of engineering systems. Tribology Series, 2003, , 411-416.	0.1	5
202	NTA-Functionalized Poly(L-lysine)-g-Poly(Ethylene Glycol): A Polymeric Interface for Binding and Studying 6 His-tagged Proteins. , 2005, 2006, 1036-8.		4
203	Enhanced optical waveguide light mode spectroscopy via detection of fluorophore absorbance. Review of Scientific Instruments, 2006, 77, 103105.	1.3	3
204	Design of a high-throughput device for screening surface modification protocols. Progress in Organic Coatings, 2010, 67, 20-27.	3.9	3
205	Electrically-Assisted Formation and Desorption of Dodecyl Phosphate Self-Assembled Monolayers on Indium Tin Oxide Surfaces. ECS Transactions, 2006, 1, 29-43.	0.5	1
206	Nanobiointerfaces: a themed collection. Biomaterials Science, 2018, 6, 706-707.	5.4	0
207	Use of Molecular Assembly Techniques for Tailoring Chemical Properties of Smooth and Rough Titanium Surfaces. , 2003, , .		0