

Nicholas D Spencer

List of Publications by Year in descending order

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papers

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367
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docs citations

367
times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of contact geometry on the friction of acrylamide hydrogels with different surface structures. <i>Friction</i> , 2022, 10, 360-373.	3.4	13
2	Microswimmers from Toposelective Nanoparticle Attachment. <i>Advanced Functional Materials</i> , 2022, 32, 2109175.	7.8	9
3	(Invited) DNA Kirigami with Tripod-C ₆₀ Scalpel. <i>ECS Meeting Abstracts</i> , 2022, MA2022-01, 814-814.	0.0	0
4	Magnetic propulsion of colloidal microrollers controlled by electrically modulated friction. <i>Soft Matter</i> , 2021, 17, 1037-1047.	1.2	12
5	Topology and Molecular Architecture of Polyelectrolytes Determine Their pH-Responsiveness When Assembled on Surfaces. <i>ACS Macro Letters</i> , 2021, 10, 90-97.	2.3	8
6	Exploring the roles of roughness, friction and adhesion in discontinuous shear thickening by means of thermo-responsive particles. <i>Nature Communications</i> , 2021, 12, 1477.	5.8	44
7	Applying an Oleophobic/Hydrophobic Fluorinated Polymer Monolayer Coating from Aqueous Solutions. <i>Langmuir</i> , 2021, 37, 4387-4394.	1.6	4
8	Publishing Science in Tribology: The Past, Present and Future of Tribology Letters. <i>Tribology Letters</i> , 2021, 69, 1.	1.2	2
9	KAT Ligation for Rapid and Facile Covalent Attachment of Biomolecules to Surfaces. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 29113-29121.	4.0	5
10	Controlling the Friction of Gels by Regulating Interfacial Oxygen During Polymerization. <i>Tribology Letters</i> , 2021, 69, 86.	1.2	12
11	Imparting ultralow lubricity to double-network hydrogels by surface-initiated controlled radical polymerization under ambient conditions. <i>Biotribology</i> , 2021, 26, 100161.	0.9	11
12	Towards a Polymer-Brush-Based Friction Modifier for Oil. <i>Tribology Letters</i> , 2021, 69, 1.	1.2	12
13	Oxygen inhibition of free-radical polymerization is the dominant mechanism behind the "mold effect" on hydrogels. <i>Soft Matter</i> , 2021, 17, 6394-6403.	1.2	34
14	Dispersity within Brushes Plays a Major Role in Determining Their Interfacial Properties: The Case of Oligoxazoline-Based Graft Polymers. <i>Journal of the American Chemical Society</i> , 2021, 143, 19067-19077.	6.6	21
15	Reactive-Oxygen-Species-Mediated Surface Oxidation of Single-Molecule DNA Origami by an Atomic Force Microscope Tip-Mounted C60 Photocatalyst. <i>ACS Nano</i> , 2021, , .	7.3	0
16	Probing the outermost layer of thin gold films by XPS and density functional theory. <i>Applied Surface Science</i> , 2020, 507, 145084.	3.1	18
17	The hierarchical bulk molecular structure of poly(acrylamide) hydrogels: beyond the fishing net. <i>Soft Matter</i> , 2020, 16, 9789-9798.	1.2	29
18	Synthesis of Polymers Containing Potassium Acyltrifluoroborates (KATs) and Post-polymerization Ligation and Conjugation. <i>Angewandte Chemie</i> , 2020, 132, 14764-14771.	1.6	5

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19	Introduction to lateral resolution and analysis area measurements in XPS. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2020, 38, .	0.9	10
20	Single-Molecule AFM Study of DNA Damage by $^{1}O_2$ Generated from Photoexcited C_{60} . <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 7819-7826.	2.1	10
21	Mechanism and application of surface-initiated ATRP in the presence of a Zn^0 plate. <i>Polymer Chemistry</i> , 2020, 11, 7009-7014.	1.9	21
22	Synthesis of Polymers Containing Potassium Acyltrifluoroborates (KATs) and Post- ϵ -polymerization Ligation and Conjugation. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 14656-14663.	7.2	18
23	Importance of Hydration and Surface Structure for Friction of Acrylamide Hydrogels. <i>Tribology Letters</i> , 2020, 68, 1.	1.2	28
24	Topological Polymer Chemistry Enters Materials Science: Expanding the Applicability of Cyclic Polymers. <i>ACS Macro Letters</i> , 2020, 9, 1024-1033.	2.3	44
25	Functional Nanoassemblies of Cyclic Polymers Show Amplified Responsiveness and Enhanced Protein-Binding Ability. <i>ACS Nano</i> , 2020, 14, 10054-10067.	7.3	23
26	Versatile Surface Modification of Hydrogels by Surface-Initiated, Cu^0 -Mediated Controlled Radical Polymerization. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 6761-6767.	4.0	38
27	Oxygen Tolerant and Cytocompatible Iron(0)-Mediated ATRP Enables the Controlled Growth of Polymer Brushes from Mammalian Cell Cultures. <i>Journal of the American Chemical Society</i> , 2020, 142, 3158-3164.	6.6	59
28	Surface-Initiated Photoinduced ATRP: Mechanism, Oxygen Tolerance, and Temporal Control during the Synthesis of Polymer Brushes. <i>Macromolecules</i> , 2020, 53, 2801-2810.	2.2	53
29	Synthesis of acrylamide-based block-copolymer brushes under flow: monitoring real-time growth and surface restructuring upon drying. <i>Polymer Chemistry</i> , 2020, 11, 3209-3216.	1.9	5
30	Brushes, Graft Copolymers, or Bottlebrushes? The Effect of Polymer Architecture on the Nanotribological Properties of Grafted-from Assemblies. <i>Langmuir</i> , 2019, 35, 11255-11264.	1.6	23
31	Linking Friction and Surface Properties of Hydrogels Molded Against Materials of Different Surface Energies. <i>Langmuir</i> , 2019, 35, 15805-15812.	1.6	49
32	Aqueous Lubrication: Impact of Dispersity and Hydrogen Bonding on the Lubricity of Poly(acrylamide) Brushes (<i>Adv. Mater. Interfaces</i> 14/2019). <i>Advanced Materials Interfaces</i> , 2019, 6, 1970094.	1.9	2
33	Tuning and in situ monitoring of surface-initiated, atom-transfer radical polymerization of acrylamide derivatives in water-based solvents. <i>Polymer Chemistry</i> , 2019, 10, 3933-3942.	1.9	7
34	Growing Polymer Brushes from a Variety of Substrates under Ambient Conditions by Cu^0 -Mediated Surface-Initiated ATRP. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 27470-27477.	4.0	50
35	Structuring Hydrogel Surfaces for Tribology. <i>Advanced Materials Interfaces</i> , 2019, 6, 1901320.	1.9	42
36	Load and Velocity Dependence of Friction Mediated by Dynamics of Interfacial Contacts. <i>Physical Review Letters</i> , 2019, 123, 116102.	2.9	26

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37	Creating an Interface: Rendering a Double-Network Hydrogel Lubricious via Spontaneous Delamination. ACS Applied Materials & Interfaces, 2019, 11, 25427-25435.	4.0	25
38	Translating Surface-Initiated Atom Transfer Radical Polymerization into Technology: The Mechanism of Cu ⁰ -Mediated SI-ATRP under Environmental Conditions. ACS Macro Letters, 2019, 8, 865-870.	2.3	50
39	Impact of Dispersity and Hydrogen Bonding on the Lubricity of Poly(acrylamide) Brushes. Advanced Materials Interfaces, 2019, 6, 1900321.	1.9	10
40	Using Polymers to Impart Lubricity and Biopassivity to Surfaces: Are These Properties Linked?. Helvetica Chimica Acta, 2019, 102, e1900071.	1.0	28
41	Influence of Water on Tribolayer Growth When Lubricating Steel with a Fluorinated Phosphonium Dicyanamide Ionic Liquid. Lubricants, 2019, 7, 27.	1.2	9
42	Tuning Interparticle Hydrogen Bonding in Shear-Jamming Suspensions: Kinetic Effects and Consequences for Tribology and Rheology. Journal of Physical Chemistry Letters, 2019, 10, 1663-1668.	2.1	28
43	Indenting polymer brushes of varying grafting density in a viscous fluid: A gradient approach to understanding fluid confinement. Polymer, 2019, 169, 115-123.	1.8	8
44	A two-step method for rate-dependent nano-indentation of hydrogels. Polymer, 2018, 137, 276-282.	1.8	22
45	Understanding Complex Tribofilms by Means of H ₃ BO ₃ •B ₂ O ₃ Model Glasses. Langmuir, 2018, 34, 2219-2234.	1.6	22
46	Roughness-dependent tribology effects on discontinuous shear thickening. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 5117-5122.	3.3	116
47	Engineering Lubricious, Biopassive Polymer Brushes by Surface-Initiated, Controlled Radical Polymerization. Industrial & Engineering Chemistry Research, 2018, 57, 4600-4606.	1.8	5
48	Lubrication of Si-Based Tribopairs with a Hydrophobic Ionic Liquid: The Multiscale Influence of Water. Journal of Physical Chemistry C, 2018, 122, 7331-7343.	1.5	23
49	Design and characterization of ultrastable, biopassive and lubricious cyclic poly(2-alkyl-2-oxazoline) brushes. Polymer Chemistry, 2018, 9, 2580-2589.	1.9	56
50	The relationship between skin function, barrier properties, and body-dependent factors. Skin Research and Technology, 2018, 24, 165-174.	0.8	212
51	Surface Density Variation within Cyclic Polymer Brushes Reveals Topology Effects on Their Nanotribological and Biopassive Properties. ACS Macro Letters, 2018, 7, 1455-1460.	2.3	39
52	Combined Experimental and Simulation Studies of Cross-Linked Polymer Brushes under Shear. Macromolecules, 2018, 51, 10174-10183.	2.2	19
53	Chemical Design of Non-ionic Polymer Brushes as Biointerfaces: Poly(2-oxazoline)s Outperform Both Poly(2-oxazoline)s and PEG. Angewandte Chemie, 2018, 130, 11841-11846.	1.6	6
54	Chemical Design of Non-ionic Polymer Brushes as Biointerfaces: Poly(2-oxazoline)s Outperform Both Poly(2-oxazoline)s and PEG. Angewandte Chemie - International Edition, 2018, 57, 11667-11672.	7.2	110

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55	The Role of Cu ⁰ in Surface-Initiated Atom Transfer Radical Polymerization: Tuning Catalyst Dissolution for Tailoring Polymer Interfaces. <i>Macromolecules</i> , 2018, 51, 6825-6835.	2.2	44
56	<i>In situ</i> monitoring of SI-ATRP throughout multiple reinitiations under flow by means of a quartz crystal microbalance. <i>RSC Advances</i> , 2018, 8, 20048-20055.	1.7	9
57	A water-responsive, gelatine-based human skin model. <i>Tribology International</i> , 2017, 113, 316-322.	3.0	30
58	Reversible Light-Switching of Enzymatic Activity on Orthogonally Functionalized Polymer Brushes. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 9245-9249.	4.0	28
59	Physical Networks of Metal-Ion-Containing Polymer Brushes Show Fully Tunable Swelling, Nanomechanical and Nanotribological Properties. <i>Macromolecules</i> , 2017, 50, 2495-2503.	2.2	14
60	From pH- to Light-Response: Postpolymerization Modification of Polymer Brushes Grafted onto Microporous Polymeric Membranes. <i>ACS Omega</i> , 2017, 2, 455-461.	1.6	19
61	Fabrication and Microscopic and Spectroscopic Characterization of Planar, Bimetallic, Micro- and Nanopatterned Surfaces. <i>Langmuir</i> , 2017, 33, 5657-5665.	1.6	17
62	Ink-Free Reversible Optical Writing in Monolayers by Polymerization of a Trifunctional Monomer: Toward Rewritable "Molecular Paper". <i>Advanced Materials</i> , 2017, 29, 1701220.	11.1	25
63	Role of Boron in the Tribochemistry of Thermal Films Formed in the Presence of ZnDTP and Dispersant Additives. <i>Tribology Letters</i> , 2017, 65, 1.	1.2	4
64	Collective dehydration of ions in nano-pores. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 13462-13468.	1.3	9
65	Modeling soft, permeable matter with the proper generalized decomposition (PGD) approach, and verification by means of nanoindentation. <i>Soft Matter</i> , 2017, 13, 4482-4493.	1.2	17
66	Reducing Friction in the Eye: A Comparative Study of Lubrication by Surface-Anchored Synthetic and Natural Ocular Mucin Analogues. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 20150-20160.	4.0	45
67	Adsorption and Tribochemical Factors Affecting the Lubrication of Silicon-Based Materials by (Fluorinated) Ionic Liquids. <i>Journal of Physical Chemistry C</i> , 2017, 121, 7259-7275.	1.5	12
68	Fabrication and Interfacial Properties of Polymer Brush Gradients by Surface-Initiated Cu(0)-Mediated Controlled Radical Polymerization. <i>Macromolecules</i> , 2017, 50, 2436-2446.	2.2	61
69	Controlled Crosslinking Is a Tool To Precisely Modulate the Nanomechanical and Nanotribological Properties of Polymer Brushes. <i>Macromolecules</i> , 2017, 50, 2932-2941.	2.2	45
70	Modulation of Surface-Initiated ATRP by Confinement: Mechanism and Applications. <i>Macromolecules</i> , 2017, 50, 5711-5718.	2.2	21
71	Elucidating the resistance to failure under tribological tests of various boron-based films by XPS and ToF-SIMS. <i>Applied Surface Science</i> , 2017, 425, 948-964.	3.1	7
72	Tuning the surface chemistry of lubricant-derived phosphate thermal films: The effect of boron. <i>Applied Surface Science</i> , 2017, 396, 1251-1263.	3.1	12

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73	Friction Measurements on Contact Lenses in a Physiologically Relevant Environment: Effect of Testing Conditions on Friction. , 2016, 57, 5383.		35
74	Influence of Chain Stiffness, Grafting Density and Normal Load on the Tribological and Structural Behavior of Polymer Brushes: A Nonequilibrium-Molecular-Dynamics Study. <i>Polymers</i> , 2016, 8, 254.	2.0	24
75	ATR-IR Investigation of Solvent Interactions with Surface-Bound Polymers. <i>Langmuir</i> , 2016, 32, 7588-7595.	1.6	11
76	<i>In vivo</i> confirmation of hydration-induced changes in human-skin thickness, roughness and interaction with the environment. <i>Biointerphases</i> , 2016, 11, 031015.	0.6	46
77	Tribological Classification of Contact Lenses: From Coefficient of Friction to Sliding Work. <i>Tribology Letters</i> , 2016, 63, 1.	1.2	32
78	Crosslinking Polymer Brushes with Ethylene Glycol-Containing Segments: Influence on Physicochemical and Antifouling Properties. <i>Langmuir</i> , 2016, 32, 10317-10327.	1.6	51
79	Imparting Nonfouling Properties to Chemically Distinct Surfaces with a Single Adsorbing Polymer: A Multimodal Binding Approach. <i>Macromolecular Rapid Communications</i> , 2016, 37, 622-629.	2.0	25
80	Stepwise collapse of highly overlapping electrical double layers. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 24417-24427.	1.3	22
81	Proliferation, behavior, and differentiation of osteoblasts on surfaces of different microroughness. <i>Dental Materials</i> , 2016, 32, 1374-1384.	1.6	119
82	Effect of the environmental humidity on the bulk, interfacial and nanoconfined properties of an ionic liquid. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 22719-22730.	1.3	51
83	Mechanical and tribological properties of boron oxide and zinc borate glasses. <i>Journal of Commonwealth Law and Legal Education</i> , 2016, 57, 233-244.	0.2	5
84	Effect of Crosslinking on the Microtribological Behavior of Model Polymer Brushes. <i>Tribology Letters</i> , 2016, 63, 1.	1.2	22
85	Understanding the effect of hydrophobic protecting blocks on the stability and biopassivity of polymer brushes in aqueous environments: A Tiramis� for cell-culture applications. <i>Polymer</i> , 2016, 98, 470-480.	1.8	33
86	Layering of ionic liquids on rough surfaces. <i>Nanoscale</i> , 2016, 8, 4094-4106.	2.8	48
87	Influence of Environmental Humidity on the Wear and Friction of a Silica/Silicon Tribopair Lubricated with a Hydrophilic Ionic Liquid. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 2961-2973.	4.0	31
88	The influence of surface grafting on the growth rate of polymer chains. <i>Polymer Chemistry</i> , 2016, 7, 302-309.	1.9	46
89	The role of nanostructures and hydrophilicity in osseointegration: <i>In vitro</i> protein adsorption and blood interaction studies. <i>Journal of Biomedical Materials Research - Part A</i> , 2015, 103, 2661-2672.	2.1	112
90	Effects of Tailored Surface Chemistry on Desorption Electrospray Ionization Mass Spectrometry: a Surface-Analytical Study by XPS and AFM. <i>Journal of the American Society for Mass Spectrometry</i> , 2015, 26, 1311-1319.	1.2	11

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91	Fabrication of Thiolâ€“ene â€“clickableâ€“ Copolymer-Brush Nanostructures on Polymeric Substrates via Extreme Ultraviolet Interference Lithography. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 11337-11345.	4.0	25
92	Capillary assembly of cross-gradient particle arrays using a microfluidic chip. <i>Microelectronic Engineering</i> , 2015, 141, 12-16.	1.1	9
93	Versatile method for AFM-tip functionalization with biomolecules: fishing a ligand by means of an in situ click reaction. <i>Nanoscale</i> , 2015, 7, 6599-6606.	2.8	9
94	Ultrathin, freestanding, stimuli-responsive, porous membranes from polymer hydrogel-brushes. <i>Nanoscale</i> , 2015, 7, 13017-13025.	2.8	39
95	Direct, Robust Technique for the Measurement of Friction between Microspheres. <i>Langmuir</i> , 2015, 31, 8809-8817.	1.6	25
96	Orthogonal Morphological Feature Size and Density Gradients for Exploring Synergistic Effects in Biology. <i>Langmuir</i> , 2015, 31, 8446-8452.	1.6	5
97	Irreversible structural change of a dry ionic liquid under nanoconfinement. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 13613-13624.	1.3	62
98	Polymer Brushes under Shear: Molecular Dynamics Simulations Compared to Experiments. <i>Langmuir</i> , 2015, 31, 4798-4805.	1.6	53
99	Osteogenic differentiation of human mesenchymal stem cells in the absence of osteogenic supplements: A surface-roughness gradient study. <i>Acta Biomaterialia</i> , 2015, 28, 64-75.	4.1	124
100	Spontaneous Blinking from a Tribological Viewpoint. <i>Ocular Surface</i> , 2015, 13, 236-249.	2.2	84
101	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.	4.0	37
102	Aqueous Lubrication with Polymer Brushes. , 2014, , 183-218.		5
103	Effect of Leaving Group on the Structures of Alkylsilane SAMs. <i>Langmuir</i> , 2014, 30, 14824-14831.	1.6	38
104	Environmental Influence on the Surface Chemistry of Ionic-Liquid-Mediated Lubrication in a Silica/Silicon Tribopair. <i>Journal of Physical Chemistry C</i> , 2014, 118, 29389-29400.	1.5	30
105	Light-Responsive Polymer Surfaces via Postpolymerization Modification of Grafted Polymer-Brush Structures. <i>Langmuir</i> , 2014, 30, 14971-14981.	1.6	33
106	Stratified Polymer Grafts: Synthesis and Characterization of Layered â€“Brushâ€“™ and â€“Gelâ€“™ Structures. <i>Advanced Materials Interfaces</i> , 2014, 1, 1300007.	1.9	44
107	Patterning Gradients. <i>Methods in Cell Biology</i> , 2014, 119, 91-121.	0.5	1
108	Molecular-Weight Determination of Polymer Brushes Generated by SI-ATRP on Flat Surfaces. <i>Macromolecules</i> , 2014, 47, 269-275.	2.2	76

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109	Polymeric Thin Films: Stratified Polymer Grafts: Synthesis and Characterization of Layered "Brush" and "Gel" Structures (Adv. Mater. Interfaces 1/2014). Advanced Materials Interfaces, 2014, 1, n/a-n/a.	1.9	1
110	Delineating Fibronectin Bioadhesive Micropatterns by Photochemical Immobilization of Polystyrene and Poly(vinylpyrrolidone). ACS Applied Materials & Interfaces, 2014, 6, 18683-18692.	4.0	5
111	Impact of chain morphology on the lubricity of surface-grafted polysaccharides. RSC Advances, 2014, 4, 21497-21503.	1.7	16
112	Tailoring SU-8 Surfaces: Covalent Attachment of Polymers by Means of Nitrene Insertion. Langmuir, 2014, 30, 10107-10111.	1.6	14
113	General In Vitro Method to Analyze the Interactions of Synthetic Polymers with Human Antibody Repertoires. Biomacromolecules, 2014, 15, 113-121.	2.6	10
114	Microslips to "Avalanches" in Confined, Molecular Layers of Ionic Liquids. Journal of Physical Chemistry Letters, 2014, 5, 179-184.	2.1	107
115	Ionic Liquids Confined in Hydrophilic Nanocontacts: Structure and Lubricity in the Presence of Water. Journal of Physical Chemistry C, 2014, 118, 6491-6503.	1.5	98
116	Differential regulation of osteogenic differentiation of stem cells on surface roughness gradients. Biomaterials, 2014, 35, 9023-9032.	5.7	226
117	Cascaded Assembly of Complex Multiparticle Patterns. Langmuir, 2014, 30, 90-95.	1.6	30
118	Aqueous Lubrication with Poly(Ethylene Glycol) Brushes. Tribology Online, 2014, 9, 143-153.	0.2	16
119	ToF-SIMS of polyphosphate glasses. Surface and Interface Analysis, 2013, 45, 579-582.	0.8	5
120	Photocatalytic Nanolithography of Self-Assembled Monolayers and Proteins. ACS Nano, 2013, 7, 7610-7618.	7.3	25
121	Understanding the role of viscous solvent confinement in the tribological behavior of polymer brushes: a bioinspired approach. Soft Matter, 2013, 9, 10572.	1.2	35
122	Ion Depletion Near a Solution Surface: Is Image-Charge Repulsion Sufficient?. Physical Review Letters, 2013, 111, 266102.	2.9	2
123	Exploring Lubrication Regimes at the Nanoscale: Nanotribological Characterization of Silica and Polymer Brushes in Viscous Solvents. Langmuir, 2013, 29, 10149-10158.	1.6	37
124	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.	7.3	176
125	Friction of Rubber with Surfaces Patterned with Rigid Spherical Asperities. Tribology Letters, 2013, 49, 135-144.	1.2	14
126	Polymer-Brush Lubrication in Oil: Sliding Beyond the Stribeck Curve. Tribology Letters, 2013, 49, 263-272.	1.2	56

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127	Ultrathin, Oil-Compatible, Lubricious Polymer Coatings: A Comparison of Grafting-To and Grafting-From Strategies. <i>Tribology Letters</i> , 2013, 49, 273-280.	1.2	21
128	Sugars Communicate through Water: Oriented Glycans Induce Water Structuring. <i>Biophysical Journal</i> , 2013, 104, 2686-2694.	0.2	20
129	Impact of solvation on equilibrium conformation of polymer brushes in solvent mixtures. <i>Soft Matter</i> , 2013, 9, 4045.	1.2	30
130	Adsorption and Friction Behavior of Amphiphilic Polymers on Hydrophobic Surfaces. <i>Langmuir</i> , 2013, 29, 4760-4771.	1.6	8
131	Nonfouling Response of Hydrophilic Uncharged Polymers. <i>Advanced Functional Materials</i> , 2013, 23, 5706-5718.	7.8	65
132	Tuning Surface Mechanical Properties by Amplified Polyelectrolyte Self-Assembly: Where "Grafting-from" Meets "Grafting-to". <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 4913-4920.	4.0	12
133	Study of Adhesion and Friction Properties on a Nanoparticle Gradient Surface: Transition from JKR to DMT Contact Mechanics. <i>Langmuir</i> , 2013, 29, 175-182.	1.6	42
134	Adhesion and Friction Properties of Polymer Brushes on Rough Surfaces: A Gradient Approach. <i>Langmuir</i> , 2013, 29, 15251-15259.	1.6	38
135	Template-Stripped, Ultraflat Gold Surfaces with Coplanar, Embedded Titanium Micropatterns. <i>Langmuir</i> , 2013, 29, 9935-9943.	1.6	2
136	Photochemically Prepared, Two-Component Polymer-Concentration Gradients. <i>Langmuir</i> , 2013, 29, 13031-13041.	1.6	10
137	Multiple Transmission-Reflection IR Spectroscopy Shows that Surface Hydroxyls Play Only a Minor Role in Alkylsilane Monolayer Formation on Silica. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 2745-2751.	2.1	51
138	Two-Fluid Model for the Interpretation of Quartz Crystal Microbalance Response: Tuning Properties of Polymer Brushes with Solvent Mixtures. <i>Journal of Physical Chemistry C</i> , 2013, 117, 4533-4543.	1.5	25
139	Microscopic Mechanism for Shear Thickening of Non-Brownian Suspensions. <i>Physical Review Letters</i> , 2013, 111, 108301.	2.9	207
140	Effects of surface microtopography on the assembly of the osteoclast resorption apparatus. <i>Journal of the Royal Society Interface</i> , 2012, 9, 1599-1608.	1.5	39
141	Influence of Solutes on Hydration and Lubricity of Dextran Brushes. <i>Chimia</i> , 2012, 66, 192-195.	0.3	3
142	Orthogonal nanometer-micrometer roughness gradients probe morphological influences on cell behavior. <i>Biomaterials</i> , 2012, 33, 8055-8061.	5.7	48
143	Effect of Chain-Length and Countersurface on the Tribochemistry of Bulk Zinc Polyphosphate Glasses. <i>Tribology Letters</i> , 2012, 48, 393-406.	1.2	30
144	Response of Osteoclasts to Titanium Surfaces with Increasing Surface Roughness: An In Vitro Study. <i>Biointerphases</i> , 2012, 7, 34.	0.6	44

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145	Impact of Hydrophilic/Hydrophobic Surface Chemistry on Hydration Forces in the Absence of Confinement. <i>Langmuir</i> , 2012, 28, 6589-6594.	1.6	46
146	Tribochemistry of Triphenyl Phosphorothionate (TPPT) by In Situ Attenuated Total Reflection (ATR/FT-IR) Tribometry. <i>Journal of Physical Chemistry C</i> , 2012, 116, 5614-5627.	1.5	29
147	Protein and Nanoparticle Adsorption on Orthogonal, Charge-Density-Versus-Net-Charge Surface-Chemical Gradients. <i>Langmuir</i> , 2012, 28, 3159-3166.	1.6	19
148	Anisotropic Wetting of Microstructured Surfaces as a Function of Surface Chemistry. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 123-130.	4.0	81
149	Poly(acrylamide) films at the solvent-induced glass transition: adhesion, tribology, and the influence of crosslinking. <i>Soft Matter</i> , 2012, 8, 9092.	1.2	43
150	Chain-length-identification strategy in zinc polyphosphate glasses by means of XPS and ToF-SIMS. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 403, 1415-1432.	1.9	102
151	Oriented Assembly of Gold Nanorods on the Single-Particle Level. <i>Advanced Functional Materials</i> , 2012, 22, 702-708.	7.8	140
152	Self-Assembly: Oriented Assembly of Gold Nanorods on the Single-Particle Level (<i>Adv. Funct. Mater.</i>)	7.8	140
153	In Situ Attenuated Total Reflection (ATR/FT-IR) Tribometry: A Powerful Tool for Investigating Tribochemistry at the Lubricant-Substrate Interface. <i>Tribology Letters</i> , 2012, 45, 207-218.	1.2	21
154	Lubrication with Oil-Compatible Polymer Brushes. <i>Tribology Letters</i> , 2012, 45, 477-487.	1.2	64
155	Chemical Reactivity of Triphenyl Phosphorothionate (TPPT) with Iron: An ATR/FT-IR and XPS Investigation. <i>Journal of Physical Chemistry C</i> , 2011, 115, 1339-1354.	1.5	57
156	Versatile Wettability Gradients Prepared by Chemical Modification of Polymer Brushes on Polymer Foils. <i>Langmuir</i> , 2011, 27, 6855-6861.	1.6	16
157	Load-Induced Transitions in the Lubricity of Adsorbed Poly(L-lysine)-dextran as a Function of Polysaccharide Chain Density. <i>ACS Applied Materials & Interfaces</i> , 2011, 3, 3020-3025.	4.0	41
158	Precise Placement of Gold Nanorods by Capillary Assembly. <i>Langmuir</i> , 2011, 27, 6305-6310.	1.6	54
159	Directed Placement of Gold Nanorods Using a Removable Template for Guided Assembly. <i>Nano Letters</i> , 2011, 11, 3957-3962.	4.5	72
160	Controlling Adhesion Force by Means of Nanoscale Surface Roughness. <i>Langmuir</i> , 2011, 27, 9972-9978.	1.6	84
161	Coupling plowing of cartilage explants with gene expression in models for synovial joints. <i>Journal of Biomechanics</i> , 2011, 44, 2472-2476.	0.9	9
162	Effects of athletic conditioning on horses with degenerative suspensory ligament desmitis: A preliminary report. <i>Veterinary Journal</i> , 2011, 189, 49-57.	0.6	15

#	ARTICLE	IF	CITATIONS
163	The role of plasma proteins in cell adhesion to PEG surface-density-gradient-modified titanium oxide. <i>Biomaterials</i> , 2011, 32, 8968-8978.	5.7	69
164	Surface-Grafted, Covalently Cross-Linked Hydrogel Brushes with Tunable Interfacial and Bulk Properties. <i>Macromolecules</i> , 2011, 44, 5344-5351.	2.2	94
165	Friction Measurements on Contact Lenses in Their Operating Environment. <i>Tribology Letters</i> , 2011, 44, 387-397.	1.2	89
166	Functionalization of Fluoropolymers and Polyolefins via Grafting of Polyelectrolyte Brushes From Atmospheric-Pressure Plasma Activated Surfaces. <i>Plasma Processes and Polymers</i> , 2011, 8, 512-522.	1.6	14
167	Influence of metallic and oxidized iron/steel on the reactivity of triphenyl phosphorothionate in oil solution. <i>Tribology International</i> , 2011, 44, 670-683.	3.0	30
168	Macrotribological Studies of Poly(L-lysine)-graft-Poly(ethylene glycol) in Aqueous Glycerol Mixtures. <i>Tribology Letters</i> , 2010, 37, 541-552.	1.2	60
169	Latex on Glass: an Appropriate Model for Cartilage-Lubrication Studies?. <i>Tribology Letters</i> , 2010, 38, 267-273.	1.2	7
170	Tribochemistry of Bulk Zinc Metaphosphate Glasses. <i>Tribology Letters</i> , 2010, 39, 121-134.	1.2	66
171	Substituent Effect on the Reactivity of Alkylated Triphenyl Phosphorothionates in Oil Solution in the Presence of Iron Particles. <i>Tribology Letters</i> , 2010, 40, 375-394.	1.2	8
172	Selective Assembly of Sub-Micrometer Polymer Particles. <i>Advanced Materials</i> , 2010, 22, 2804-2808.	11.1	16
173	Nanoparticle Arrays: Selective Assembly of Sub-Micrometer Polymer Particles (<i>Adv. Mater.</i> 25/2010). <i>Advanced Materials</i> , 2010, 22, n/a-n/a.	11.1	0
174	Functionalization of fluoropolymer surfaces with nanopatterned polyelectrolyte brushes. <i>Polymer</i> , 2010, 51, 4037-4043.	1.8	17
175	A comparison of osteoclast resorption pits on bone with titanium and Zirconia surfaces. <i>Biomaterials</i> , 2010, 31, 7321-7331.	5.7	52
176	Fabricating Chemical Gradients on Oxide Surfaces by Means of Fluorinated, Catechol-Based, Self-Assembled Monolayers. <i>Langmuir</i> , 2010, 26, 16211-16220.	1.6	84
177	Cassie-State Wetting Investigated by Means of a Hole-to-Pillar Density Gradient. <i>Langmuir</i> , 2010, 26, 9465-9473.	1.6	47
178	Orthogonal, Three-Component, Alkanethiol-Based Surface-Chemical Gradients on Gold. <i>Langmuir</i> , 2010, 26, 8392-8399.	1.6	17
179	Friction, lubrication, and polymer transfer between UHMWPE and CoCrMo hip-implant materials: A fluorescence microscopy study. <i>Journal of Biomedical Materials Research - Part A</i> , 2009, 89A, 1011-1018.	2.1	31
180	A novel low-friction surface for biomedical applications: Modification of poly(dimethylsiloxane) (PDMS) with polyethylene glycol(PEG)-DOPA-lysine. <i>Journal of Biomedical Materials Research - Part A</i> , 2009, 90A, 742-749.	2.1	81

#	ARTICLE	IF	CITATIONS
181	Bacterially induced degradation of aqueous solutions of poly(L-lysine)-graft-poly(ethylene glycol) and poly(L-lysine)-graft-dextran: consequences for their lubrication properties. <i>Lubrication Science</i> , 2009, 21, 415-425.	0.9	6
182	The adsorption and lubrication behavior of synovial fluid proteins and glycoproteins on the bearing-surface materials of hip replacements. <i>Biomaterials</i> , 2009, 30, 2072-2078.	5.7	73
183	End-grafted Sugar Chains as Aqueous Lubricant Additives: Synthesis and Macrotribological Tests of Poly(L-lysine)-graft-Dextran (PLL-g-dex) Copolymers. <i>Tribology Letters</i> , 2009, 33, 83-96.	1.2	36
184	Fabrication, Characterisation and Tribological Investigation of Artificial Skin Surface Lipid Films. <i>Tribology Letters</i> , 2009, 34, 81-93.	1.2	38
185	Aqueous Lubrication of SiC and Si ₃ N ₄ Ceramics Aided by a Brush-like Copolymer Additive, Poly(L-lysine)-graft-poly(ethylene glycol). <i>Tribology Letters</i> , 2009, 34, 201-210.	1.2	45
186	Reactivity of Triphenyl Phosphorothionate in Lubricant Oil Solution. <i>Tribology Letters</i> , 2009, 35, 31-43.	1.2	30
187	Skin's textile friction and skin elasticity in young and aged persons. <i>Skin Research and Technology</i> , 2009, 15, 288-298.	0.8	98
188	Spatial Tuning of the Metal Work Function by Means of Alkanethiol and Fluorinated Alkanethiol Gradients. <i>Journal of Physical Chemistry C</i> , 2009, 113, 5620-5628.	1.5	51
189	Adsorption and Lubricating Properties of Poly(L-lysine)-graft-poly(ethylene glycol) on Human-Hair Surfaces. <i>ACS Applied Materials & Interfaces</i> , 2009, 1, 1938-1945.	4.0	39
190	Tribological Properties of Poly(L-lysine)-graft-poly(ethylene glycol) Films: Influence of Polymer Architecture and Adsorbed Conformation. <i>ACS Applied Materials & Interfaces</i> , 2009, 1, 1224-1230.	4.0	82
191	Room-Temperature, Aqueous-Phase Fabrication of Poly(methacrylic acid) Brushes by UV-LED-Induced, Controlled Radical Polymerization with High Selectivity for Surface-Bound Species. <i>Macromolecules</i> , 2009, 42, 9124-9132.	2.2	76
192	Influence of Salt on the Aqueous Lubrication Properties of End-Grafted, Ethylene Glycol-Based Self-Assembled Monolayers. <i>ACS Applied Materials & Interfaces</i> , 2009, 1, 1105-1112.	4.0	44
193	Study of skin's fabric interactions of relevance to decubitus: friction and contact pressure measurements. <i>Skin Research and Technology</i> , 2008, 14, 77-88.	0.8	66
194	The Influence of Anchoring-Group Structure on the Lubricating Properties of Brush-Forming Graft Copolymers in an Aqueous Medium. <i>Tribology Letters</i> , 2008, 31, 119-128.	1.2	31
195	Structural Evolution of Self-Assembled Alkanephosphate Monolayers on TiO ₂ . <i>ChemPhysChem</i> , 2008, 9, 1979-1981.	1.0	29
196	Reactions of zinc-free anti-wear additives in DLC/DLC and steel/steel contacts. <i>Tribology International</i> , 2008, 41, 1090-1096.	3.0	46
197	Gradients of topographical structure in thin polymer films. <i>Applied Surface Science</i> , 2008, 254, 6820-6825.	3.1	19
198	Tribofilm formation from ZnDTP on diamond-like carbon. <i>Wear</i> , 2008, 264, 316-321.	1.5	131

#	ARTICLE	IF	CITATIONS
199	A Biomimetic Alternative to Poly(ethylene glycol) as an Antifouling Coating: Resistance to Nonspecific Protein Adsorption of Poly(L-lysine)-graft-dextran. <i>Langmuir</i> , 2008, 24, 8850-8856.	1.6	147
200	Beyond the Lotus Effect: Roughness Influences on Wetting over a Wide Surface-Energy Range. <i>Langmuir</i> , 2008, 24, 5411-5417.	1.6	175
201	Influence of epidermal hydration on the friction of human skin against textiles. <i>Journal of the Royal Society Interface</i> , 2008, 5, 1317-1328.	1.5	261
202	Adsorption Properties of Poly(L-lysine)-graft-poly(ethylene glycol) (PLL-g-PEG) at a Hydrophobic Interface: Influence of Tribological Stress, pH, Salt Concentration, and Polymer Molecular Weight. <i>Langmuir</i> , 2008, 24, 9479-9488.	1.6	63
203	Matrix effects on the surface plasmon resonance of dry supported gold nanocrystals. <i>Optics Letters</i> , 2008, 33, 806.	1.7	4
204	Poly(L-lysine)-graft-poly(ethylene glycol): a versatile aqueous lubricant additive for tribosystems involving thermoplastics. <i>Lubrication Science</i> , 2008, 20, 21-34.	0.9	28
205	Surface-chemical and -morphological gradients. <i>Soft Matter</i> , 2008, 4, 419.	1.2	222
206	Nanotribology of Surface-Grafted PEG Layers in an Aqueous Environment. <i>Langmuir</i> , 2008, 24, 1484-1488.	1.6	109
207	The Effect of Surface Ions on Water Adsorption to Mica. <i>Langmuir</i> , 2008, 24, 1566-1569.	1.6	78
208	Sweet, Hairy, Soft, and Slippery. <i>Science</i> , 2008, 319, 575-576.	6.0	221
209	Reactivity of alkylated phosphorothionates with steel: a tribological and surface analytical study. <i>Lubrication Science</i> , 2008, 20, 79-102.	0.9	27
210	Achieving Ultralow Friction by Aqueous, Brush-Assisted Lubrication. , 2007, , 365-396.		13
211	Sliding friction of polyethylene on snow and ice: Contact area and modeling. <i>Cold Regions Science and Technology</i> , 2007, 47, 276-289.	1.6	75
212	Capabilities of Femtosecond Laser Ablation Inductively Coupled Plasma Mass Spectrometry for Depth Profiling of Thin Metal Coatings. <i>Analytical Chemistry</i> , 2007, 79, 2325-2333.	3.2	53
213	Functionalizable Nanomorphology Gradients via Colloidal Self-Assembly. <i>Langmuir</i> , 2007, 23, 5929-5935.	1.6	55
214	Fabrication of Multiscale Surface-Chemical Gradients by Means of Photocatalytic Lithography. <i>Langmuir</i> , 2007, 23, 3489-3494.	1.6	58
215	Influence of Alkyl Chain Length on Phosphate Self-Assembled Monolayers. <i>Langmuir</i> , 2007, 23, 8053-8060.	1.6	195
216	Systematic study of osteoblast and fibroblast response to roughness by means of surface-morphology gradients. <i>Biomaterials</i> , 2007, 28, 2175-2182.	5.7	442

#	ARTICLE	IF	CITATIONS
217	Systematic study of osteoblast response to nanotopography by means of nanoparticle-density gradients. <i>Biomaterials</i> , 2007, 28, 5000-5006.	5.7	158
218	Nanoparticle printing with single-particle resolution. <i>Nature Nanotechnology</i> , 2007, 2, 570-576.	15.6	410
219	XPS study of the influence of temperature on ZnDTP tribofilm composition. <i>Tribology Letters</i> , 2007, 25, 185-196.	1.2	97
220	Macroscopic Tribological Testing of Alkanethiol Self-assembled Monolayers (SAMs): Pin-on-disk Tribometry with Elastomeric Sliding Contacts. <i>Tribology Letters</i> , 2007, 28, 229-239.	1.2	16
221	Pressure Dependence of ZnDTP Tribochemical Film Formation: A Combinatorial Approach. <i>Tribology Letters</i> , 2007, 28, 209-222.	1.2	55
222	Poly(L-lysine)-grafted-poly(ethylene glycol)-based surface-chemical gradients. Preparation, characterization, and first applications. <i>Biointerphases</i> , 2006, 1, 156-165.	0.6	42
223	Order and Composition of Methyl-Carboxyl and Methyl-Hydroxyl Surface-Chemical Gradients. <i>Langmuir</i> , 2006, 22, 4184-4189.	1.6	30
224	Submicrometer Structure of Surface-Chemical Gradients Prepared by a Two-Step Immersion Method. <i>Langmuir</i> , 2006, 22, 2706-2711.	1.6	45
225	Fabrication of material-independent morphology gradients for high-throughput applications. <i>Applied Surface Science</i> , 2006, 253, 2148-2153.	3.1	47
226	Surface reactivity of tributyl thiophosphate: effects of temperature and mechanical stress. <i>Tribology Letters</i> , 2006, 23, 197-208.	1.2	51
227	Self-healing behavior of a polyelectrolyte-based lubricant additive for aqueous lubrication of oxide materials. <i>Tribology Letters</i> , 2006, 24, 217-223.	1.2	53
228	Sliding friction of polyethylene on ice: tribometer measurements. <i>Tribology Letters</i> , 2006, 24, 77-84.	1.2	76
229	Nitrilotriacetic Acid Functionalized Graft Copolymers: A Polymeric Interface for Selective and Reversible Binding of Histidine-Tagged Proteins. <i>Advanced Functional Materials</i> , 2006, 16, 243-251.	7.8	116
230	Aqueous lubrication of polymers: Influence of surface modification. <i>Tribology International</i> , 2005, 38, 922-930.	3.0	89
231	Protein-mediated boundary lubrication in arthroplasty. <i>Biomaterials</i> , 2005, 26, 1165-1173.	5.7	158
232	Closing the Gap Between Self-Assembly and Microsystems Using Self-Assembly, Transfer, and Integration of Particles. <i>Advanced Materials</i> , 2005, 17, 2438-2442.	11.1	73
233	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. <i>Langmuir</i> , 2005, 21, 6508-6520.	1.6	125
234	Influence of Surface Modification on Aqueous Lubrication of Elastomers. , 2005, , 457.		0

#	ARTICLE	IF	CITATIONS
235	Diffusion of Alkanethiols in PDMS and Its Implications on Microcontact Printing (¼CP). <i>Langmuir</i> , 2005, 21, 622-632.	1.6	61
236	Preferential Solvation and Its Effect on the Lubrication Properties of a Surface-Bound, Brushlike Copolymer. <i>Macromolecules</i> , 2005, 38, 3861-3866.	2.2	84
237	Compressing PEG Brushes. <i>Macromolecules</i> , 2005, 38, 5254-5259.	2.2	78
238	Lubrication Properties of a Brushlike Copolymer as a Function of the Amount of Solvent Absorbed within the Brush. <i>Macromolecules</i> , 2005, 38, 5706-5713.	2.2	134
239	Printing Chemical Gradients. <i>Langmuir</i> , 2005, 21, 7796-7804.	1.6	85
240	Interaction Forces and Morphology of a Protein-Resistant Poly(ethylene glycol) Layer. <i>Biophysical Journal</i> , 2005, 88, 495-504.	0.2	143
241	Effects of Ionic Strength and Surface Charge on Protein Adsorption at PEGylated Surfaces. <i>Journal of Physical Chemistry B</i> , 2005, 109, 17545-17552.	1.2	289
242	Porcine Gastric Mucin (PGM) at the Water/Poly(Dimethylsiloxane) (PDMS) Interface: Influence of pH and Ionic Strength on Its Conformation, Adsorption, and Aqueous Lubrication Properties. <i>Langmuir</i> , 2005, 21, 8344-8353.	1.6	157
243	Surface analytical studies of surface-additive interactions, by means of in situ and combinatorial approaches. <i>Wear</i> , 2004, 256, 578-584.	1.5	40
244	A Tribological Model for Chocolate in the Mouth: General Implications for Slurry-Lubricated Hard/Soft Sliding Counterfaces. <i>Tribology Letters</i> , 2004, 16, 239-249.	1.2	64
245	Reduction of Friction at Oxide Interfaces upon Polymer Adsorption from Aqueous Solutions. <i>Langmuir</i> , 2004, 20, 423-428.	1.6	88
246	Influence of Molecular Architecture on the Adsorption of Poly(ethylene oxide)-Poly(propylene) Tj ETQqO O O rgBT /Overlock 10 Tf 50 30. <i>Macromolecules</i> , 2004, 37, 8349-8356.	2.2	78
247	Scanning Probe Microscopy in Materials Science. <i>MRS Bulletin</i> , 2004, 29, 443-448.	1.7	19
248	The Influence of Molecular Architecture on the Macroscopic Lubrication Properties of the Brush-Like Co-polyelectrolyte Poly(L-lysine)-g-poly(ethylene glycol) (PLL-g-PEG) Adsorbed on Oxide Surfaces. <i>Tribology Letters</i> , 2003, 15, 395-405.	1.2	139
249	Combined in situ (ATR FT-IR) and ex situ (XPS) Study of the ZnDTP-Iron Surface Interaction. <i>Tribology Letters</i> , 2003, 15, 181-191.	1.2	87
250	Title is missing!. <i>Tribology Letters</i> , 2003, 15, 199-209.	1.2	70
251	A Combinatorial Approach to Elucidating Tribochemical Mechanisms. <i>Tribology Letters</i> , 2003, 15, 193-198.	1.2	15
252	Title is missing!. <i>Tribology Letters</i> , 2003, 15, 231-239.	1.2	136

#	ARTICLE	IF	CITATIONS
253	Surface modification of PLGA microspheres. Journal of Biomedical Materials Research - Part A, 2003, 66A, 55-61.	2.1	70
254	Chemically patterned, metal oxide based surfaces produced by photolithographic techniques for studying protein and cell surface interactions I: Microfabrication and surface characterization. Biomaterials, 2003, 24, 1133-1145.	5.7	56
255	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. Langmuir, 2003, 19, 9216-9225.	1.6	382
256	Microcontact Printing of Macromolecules with Submicrometer Resolution by Means of Polyolefin Stamps. Langmuir, 2003, 19, 6104-6109.	1.6	93
257	A Simple, Reproducible Approach to the Preparation of Surface-Chemical Gradients. Langmuir, 2003, 19, 10459-10462.	1.6	148
258	Block Copolymer Thermoplastic Elastomers for Microcontact Printing. Langmuir, 2003, 19, 10957-10961.	1.6	67
259	Biotribological approaches to the lubrication of engineering systems. Tribology Series, 2003, , 411-416.	0.1	5
260	Surface chemistry in tribology. Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 2002, 216, 443-461.	1.0	67
261	Boundary lubrication: from simple fatty acids to synovial fluid. Tribology Series, 2002, , 61-66.	0.1	1
262	In situ attenuated total reflection (ATR) spectroscopic analysis of tribological phenomena. Tribology Series, 2002, 40, 199-206.	0.1	3
263	Additive-surface interaction in boundary lubrication: A combinatorial approach. Tribology Series, 2002, 40, 49-57.	0.1	3
264	Density fluctuations in confined cyclohexane both in the absence and the presence of shear. Tribology Series, 2002, 40, 75-81.	0.1	1
265	Boundary lubrication and friction of polyethylene and polyamides under protein-containing solutions. Tribology Series, 2002, 40, 361-366.	0.1	3
266	A Novel Approach To Produce Biologically Relevant Chemical Patterns at the Nanometer Scale: Selective Molecular Assembly Patterning Combined with Colloidal Lithography. Langmuir, 2002, 18, 8580-8586.	1.6	124
267	Covalent Attachment of Novel Poly(ethylene glycol)-Poly(DL-lactic acid) Copolymeric Micelles to TiO ₂ Surfaces. Langmuir, 2002, 18, 252-258.	1.6	45
268	Growth of Tribological Films: In Situ Characterization Based on Attenuated Total Reflection Infrared Spectroscopy. Langmuir, 2002, 18, 6606-6613.	1.6	62
269	Selective Molecular Assembly Patterning: A New Approach to Micro- and Nanochemical Patterning of Surfaces for Biological Applications. Langmuir, 2002, 18, 3281-3287.	1.6	151
270	Biotin-Derivatized Poly(L-lysine)-g-poly(ethylene glycol): A Novel Polymeric Interface for Bioaffinity Sensing. Langmuir, 2002, 18, 220-230.	1.6	261

#	ARTICLE	IF	CITATIONS
271	New Single-Source Precursors for the MOCVD of High- $\hat{\rho}$ Dielectric Zirconium Silicates to Replace SiO ₂ in Semiconducting Devices. <i>Chemical Vapor Deposition</i> , 2002, 8, 171.	1.4	28
272	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.	2.5	608
273	Nanochemical surface analyzer in CMOS technology. <i>Ultramicroscopy</i> , 2002, 91, 21-27.	0.8	17
274	Optical grating coupler biosensors. <i>Biomaterials</i> , 2002, 23, 3699-3710.	5.7	375
275	Chocolate at a Sliding Interface. <i>Journal of Food Science</i> , 2002, 67, 2712-2717.	1.5	29
276	Self-Assembled Monolayers of Dodecyl and Hydroxy-dodecyl Phosphates on Both Smooth and Rough Titanium and Titanium Oxide Surfaces. <i>Langmuir</i> , 2002, 18, 3537-3548.	1.6	197
277	Comparative investigation of the surface properties of commercial titanium dental implants. Part I: chemical composition. <i>Journal of Materials Science: Materials in Medicine</i> , 2002, 13, 535-548.	1.7	170
278	Poly(L-lysine)-g-poly(ethylene glycol) Layers on Metal Oxide Surfaces: A Surface-Analytical Characterization and Resistance to Serum and Fibrinogen Adsorption. <i>Langmuir</i> , 2001, 17, 489-498.	1.6	490
279	Alkyl Phosphate Monolayers, Self-Assembled from Aqueous Solution onto Metal Oxide Surfaces. <i>Langmuir</i> , 2001, 17, 4014-4020.	1.6	248
280	Imaging of Surface Heterogeneity by the Microdroplet Condensation Technique. <i>Langmuir</i> , 2001, 17, 4123-4125.	1.6	13
281	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.	1.1	32
282	Title is missing!. <i>Tribology Letters</i> , 2001, 10, 111-116.	1.2	106
283	Density Fluctuations Under Confinement: When Is a Fluid Not a Fluid?. <i>Science</i> , 2001, 292, 905-908.	6.0	165
284	Zinc Diisopropyl Dithiophosphate by XPS. <i>Surface Science Spectra</i> , 2001, 8, 97-104.	0.3	5
285	XPS, AES and ToF-SIMS investigation of surface films and the role of inclusions on pitting corrosion in austenitic stainless steels. <i>Surface and Interface Analysis</i> , 2000, 29, 460-467.	0.8	67
286	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.	1.5	70
287	Feasibility study of an online toxicological sensor based on the optical waveguide technique. <i>Biosensors and Bioelectronics</i> , 2000, 15, 423-429.	5.3	52
288	Structural Chemistry of Self-Assembled Monolayers of Octadecylphosphoric Acid on Tantalum Oxide Surfaces. <i>Langmuir</i> , 2000, 16, 3257-3271.	1.6	256

#	ARTICLE	IF	CITATIONS
289	Sources and control of instrumental drift in the surface forces apparatus. Review of Scientific Instruments, 2000, 71, 4502.	0.6	13
290	Gallium enrichment and film detachment during anodizing of an Al-Ga alloy. Corrosion Science, 2000, 42, 405-419.	3.0	8
291	Poly(L-lysine)-g-Poly(ethylene glycol) Layers on Metal Oxide Surfaces: Attachment Mechanism and Effects of Polymer Architecture on Resistance to Protein Adsorption. Journal of Physical Chemistry B, 2000, 104, 3298-3309.	1.2	620
292	XPS, AES and ToF-SIMS investigation of surface films and the role of inclusions on pitting corrosion in austenitic stainless steels. , 2000, 29, 460.		1
293	Surface Nanochemical Studies of Polymers and Other Organic Surfaces by Scanning Force Microscopy. ACS Symposium Series, 1999, , 272-283.	0.5	1
294	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.	1.7	286
295	Microstructured bioreactive surfaces: covalent immobilization of proteins on Au(111)/silicon via aminoreactive alkanethiolate self-assembled monolayers. Journal of Materials Science: Materials in Medicine, 1999, 10, 255-263.	1.7	16
296	Characterization of anodic spark-converted titanium surfaces for biomedical applications. Journal of Materials Science: Materials in Medicine, 1999, 10, 453-457.	1.7	150
297	The implant material, Ti6Al7Nb: surface microstructure, composition and properties. Journal of Materials Science: Materials in Medicine, 1999, 10, 191-198.	1.7	59
298	Composition and Microstructure of Zirconia Films Obtained by MOCVD with a New, Liquid, Mixed Acetylacetonato-Alcoholato Precursor. Chemical Vapor Deposition, 1999, 5, 151-158.	1.4	29
299	Probing Resistance to Protein Adsorption of Oligo(ethylene glycol)-Terminated Self-Assembled Monolayers by Scanning Force Microscopy. Journal of the American Chemical Society, 1999, 121, 10134-10141.	6.6	262
300	Preparation and Characterization of Ultrathin Layers of Substituted Oligo- and Poly(p-phenylene)s and Mixed Layers with Octadecanethiol on Gold and Copper. Langmuir, 1999, 15, 6333-6342.	1.6	10
301	Highly Oriented, Self-Assembled Alkanephosphate Monolayers on Tantalum(V) Oxide Surfaces. Langmuir, 1999, 15, 4324-4327.	1.6	101
302	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.	1.0	20
303	Characterization of nanoscale metal structures obtained by template synthesis. Fresenius' Journal of Analytical Chemistry, 1998, 361, 684-686.	1.5	13
304	Plasma protein adsorption on titanium: comparative in situ studies using optical waveguide lightmode spectroscopy and ellipsometry. Colloids and Surfaces B: Biointerfaces, 1998, 11, 187-201.	2.5	69
305	Surface forces, surface chemistry and tribology. Tribology International, 1998, 31, 99-105.	3.0	29
306	Covalent Attachment of Cell-Adhesive, (Arg-Gly-Asp)-Containing Peptides to Titanium Surfaces. Langmuir, 1998, 14, 5507-5516.	1.6	291

#	ARTICLE	IF	CITATIONS
307	Toward a Force Spectroscopy of Polymer Surfaces. <i>Langmuir</i> , 1998, 14, 372-378.	1.6	89
308	Rubbing and Scrubbing. <i>Physics Today</i> , 1998, 51, 22-27.	0.3	27
309	Instrumental improvements in optical waveguide light mode spectroscopy for the study of biomolecule adsorption. <i>Review of Scientific Instruments</i> , 1997, 68, 2172-2176.	0.6	79
310	Immobilization of the cell-adhesive peptide Arg-Gly-Asp-Cys (RGDC) on titanium surfaces by covalent chemical attachment. <i>Journal of Materials Science: Materials in Medicine</i> , 1997, 8, 867-872.	1.7	193
311	Surface activation of polyetheretherketone (PEEK) and formation of calcium phosphate coatings by precipitation. <i>Journal of Materials Science: Materials in Medicine</i> , 1997, 8, 683-690.	1.7	111
312	Title is missing!. <i>Tribology Letters</i> , 1997, 3, 359-365.	1.2	29
313	Adsorption and surface chemistry in tribology. <i>Tribology International</i> , 1997, 30, 881-888.	3.0	74
314	Self-Assembled Hexasaccharides: A Surface Characterization of Thiol-Terminated Sugars Adsorbed on a Gold Surface. <i>Langmuir</i> , 1996, 12, 6074-6082.	1.6	39
315	Orientation and electronic structure of methylene blue on mica: A near edge X-ray absorption fine structure spectroscopy study. <i>Journal of Chemical Physics</i> , 1996, 104, 7749-7757.	1.2	91
316	Self-Assembled Layers of Substituted Poly(p-phenylene)s on Gold and Copper Investigated by Soft X-ray Spectroscopy. <i>Langmuir</i> , 1996, 12, 719-725.	1.6	17
317	Reduced frictional resistance of polyurethane catheter by means of a surface coating procedure. <i>Journal of Applied Polymer Science</i> , 1996, 61, 1939-1948.	1.3	18
318	Characterization of titania surface area in titania/silica SCR catalysts by temperature-programmed reaction of 2-propanol. <i>Applied Catalysis A: General</i> , 1996, 139, 175-187.	2.2	11
319	Sensitivity of Frictional Forces to pH on a Nanometer Scale: A Lateral Force Microscopy Study. <i>Langmuir</i> , 1995, 11, 4632-4635.	1.6	123
320	Effect of alkali metal cations on the structure of Mo(VI)/SiO ₂ catalysts and its relevance to the selective oxidation of methane and methanol. <i>Journal of Catalysis</i> , 1994, 146, 204-210.	3.1	61
321	High critical current densities in ultrathin YBa ₂ Cu ₃ O _{7-x} films sandwiched between (Pr _x Y _{1-x})Ba ₂ Cu ₃ O _{7-x} layers. <i>Applied Physics Letters</i> , 1993, 62, 1289-1291.	1.5	42
322	Multifilament BPSCCO superconductor: fabrication and heat treatment study. <i>IEEE Transactions on Applied Superconductivity</i> , 1993, 3, 942-945.	1.1	12
323	Superconducting and magnetic phase boundaries in Bi ₂ Sr ₂ Ca _{1-x} M _x Cu ₂ O ₈ , with M=Y, Gd, and Pr. <i>Physical Review B</i> , 1992, 45, 7436-7443.	1.1	82
324	Simulation of methane partial oxidation over silica-supported MoO ₃ and V ₂ O ₅ . <i>AIChE Journal</i> , 1991, 37, 87-97.	1.8	51

#	ARTICLE	IF	CITATIONS
325	Fabrication of thin-film superconductors by bulk processing. Applied Physics Letters, 1991, 58, 1917-1919.	1.5	9
326	Critical currents and magnetization in c-axis textured Bi-Pb-Sr-Ca-Cu superconductors. Applied Physics Letters, 1991, 58, 868-870.	1.5	77
327	Processing tetramethylammonium-carbonate-coprecipitated slurries to obtain small-particle-size $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$. Journal of Materials Research, 1991, 6, 220-226.	1.2	6
328	The effect of sodium on the $\text{MoO}_3/\text{SiO}_2$ -catalyzed partial oxidation of methane. Journal of Catalysis, 1990, 126, 546-554.	3.1	62
329	High temperature superconducting powders. Physica C: Superconductivity and Its Applications, 1990, 169, 257-264.	0.6	7
330	Specific heat and magnetic susceptibility of the high- T_c superconductor $(\text{Bi, Pb, Sb})_2\text{Sr}_2\text{Ca}_2\text{Cu}_3\text{O}_{10}$. Physica C: Superconductivity and Its Applications, 1990, 165, 340-346.	0.6	13
331	Irreversibility temperatures in c-axis-oriented powders of $\text{YBa}_2\text{Cu}_3\text{O}_7$, $\text{Bi}_2\text{Sr}_2\text{Ca}_2\text{Cu}_2\text{O}_8$, and $\text{Bi}_2\text{Sr}_2\text{Ca}_2\text{Cu}_3\text{O}_{10}$. Physical Review B, 1990, 42, 8756-8759.	1.1	64
332	A controllable vibratory calciner for processing high-temperature superconductors and other ceramic powders. Review of Scientific Instruments, 1990, 61, 1525-1527.	0.6	1
333	Alkali-metal-free carbonate coprecipitation: an effective synthetic route to bismuth-based oxide superconductors. Chemistry of Materials, 1990, 2, 708-712.	3.2	7
334	Low detectability of excess yttrium or barium by X-ray diffraction in $\text{YBa}_2\text{Cu}_3\text{O}_7$ prepared by coprecipitation. Materials Letters, 1990, 9, 537-541.	1.3	7
335	Silicon interfaces with high temperature superconductors. Surface Science, 1990, 236, 377-384.	0.8	11
336	Resonant inverse photoemission of $\text{Bi}_2\text{Ca}_{1+x}\text{Sr}_2\text{Cu}_2\text{O}_8$ and $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$, unoccupied oxygen states, and plasmons. Physical Review B, 1989, 39, 2928-2931.	1.1	61
337	Solution-Phase Preparation and Characterization of $\text{Bi}_{1.6}\text{Pb}_{0.3}\text{Sb}_{0.1}\text{Ca}_2\text{Sr}_2\text{Cu}_3\text{O}_{10}$. Japanese Journal of Applied Physics, 1989, 28, L1564-L1567.	0.8	26
338	Synthesis and Properties of Superconducting Mixed Rare Earth $\text{LnBa}_2\text{Cu}_3\text{O}_{7-x}$ Compounds. Japanese Journal of Applied Physics, 1989, 28, L757-L758.	0.8	4
339	$\text{V}_2\text{O}_5/\text{SiO}_2$ -catalyzed methane partial oxidation with molecular oxygen. Journal of Catalysis, 1989, 116, 399-406.	3.1	137
340	Grain size dependence of microwave absorption in $\text{YBa}_2\text{Cu}_3\text{O}_7$ powders near T_c . Physica C: Superconductivity and Its Applications, 1988, 156, 555-558.	0.6	25
341	Partial oxidation of methane to formaldehyde by means of molecular oxygen. Journal of Catalysis, 1988, 109, 187-197.	3.1	177
342	Physical Properties and Phase Identification in Yttrium-Alkaline Earth-Bismuth-Copper Oxide Systems. ACS Symposium Series, 1988, , 145-154.	0.5	1

#	ARTICLE	IF	CITATIONS
343	Partial oxidation of CH ₄ to HCHO over a MoO ₃ -SiO ₂ catalyst: A kinetic study. <i>AIChE Journal</i> , 1987, 33, 1808-1812.	1.8	61
344	A simple, controllable source for dosing molecular halogens in UHV. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1983, 1, 1554-1555.	0.9	150
345	Improved instrumentation to carry out surface analysis and to monitor chemical surface reactions in situ on small area catalysts over a wide pressure range (10 ⁻⁸ –10 ⁵ Torr). <i>Review of Scientific Instruments</i> , 1982, 53, 1888-1893.	0.6	58
346	Rhenium: an ammonia synthesis catalyst. <i>The Journal of Physical Chemistry</i> , 1982, 86, 3493-3494.	2.9	16
347	Molecular beam reactive scattering of Br ₂ from Pd(111) using an electrochemical effusive source. <i>Surface Science</i> , 1982, 120, 413-426.	0.8	10
348	Ammonia synthesis catalyzed by rhenium. <i>Journal of Catalysis</i> , 1982, 78, 142-146.	3.1	31
349	Cyanide chemistry of rubidium-dosed silver and the use of cyanogen as a titrant for surface alkali. <i>Surface Science</i> , 1981, 104, 63-73.	0.8	9
350	Chlorine chemisorption and surface chloride formation on Au(111). <i>Surface Science</i> , 1981, 107, 237-248.	0.8	58
351	Identification of atomic and molecular oxygen surface species on rubidium-dosed Ag(111). <i>Chemical Physics Letters</i> , 1981, 83, 388-390.	1.2	15
352	Structure sensitivity in the iron single-crystal catalysed synthesis of ammonia. <i>Nature</i> , 1981, 294, 643-644.	13.7	86
353	A single crystal study of the initial stages of silver sulphidation: The chemisorption and reactivity of molecular sulphur (S ₂) on Ag(111). <i>Surface Science</i> , 1979, 81, 273-284.	0.8	90
354	Summary of ISO/TC 201 International Standard ISO 18516:2019 Surface chemical analysis – Determination of lateral resolution and sharpness in beam-based methods with a range from nanometres to micrometres and its implementation for imaging laboratory X-ray photoelectron spectrometers (XPS). <i>Surface and Interface Analysis</i> , 0, , .	0.8	4