

# Surface Modification of Sylgard-184 Poly(dimethyl siloxane) by Ultraviolet/Ozone Treatment

Journal of Colloid and Interface Science

254, 306-315

DOI: [10.1006/jcis.2002.8594](https://doi.org/10.1006/jcis.2002.8594)

Citation Report

#	ARTICLE	IF	CITATIONS
4	Surface modification of poly(dimethylsiloxane) microchannels. <i>Electrophoresis</i> , 2003, 24, 3607-3619.	1.3	506
5	Fabricating Two-Dimensional Molecular Gradients via Asymmetric Deformation of Uniformly-Coated Elastomer Sheets. <i>Advanced Materials</i> , 2003, 15, 1545-1547.	11.1	36
6	Surface Micropatterning and Lithography with Poly(Ferrocenylmethylphenylsilane). <i>Chemistry of Materials</i> , 2003, 15, 3663-3668.	3.2	43
7	Yield stress and wall slip phenomena in colloidal silica gels. <i>Journal of Rheology</i> , 2003, 47, 847-868.	1.3	269
8	The Effects of Molecular Weight and Temperature on the Kinetic Friction of Silicone Rubbers. <i>Langmuir</i> , 2003, 19, 6778-6787.	1.6	129
9	Effect of a UV/Ozone Treatment on Siloxane-Containing Copolyimides: Surface Modification and Gas Transport Characteristics. <i>Chemistry of Materials</i> , 2003, 15, 2346-2353.	3.2	38
10	Electroless Nickel Deposition on Silicone-Rich Polyester Surfaces. <i>Journal of the Electrochemical Society</i> , 2004, 151, C685.	1.3	9
11	NanoLiterBioReactor: Monitoring of Long-Term Mammalian Cell Physiology at Nanofabricated Scale. <i>Materials Research Society Symposia Proceedings</i> , 2004, 823, W9.5.1/O5.5.1.	0.1	0
12	NanoLiterBioReactor: Monitoring of Long-Term Mammalian Cell Physiology at Nanofabricated Scale. <i>Materials Research Society Symposia Proceedings</i> , 2004, 820, 126.	0.1	0
13	Improved Underfill Adhesion in Flip-Chip Packages by Means of Ultraviolet Light/Ozone Treatment. <i>IEEE Transactions on Advanced Packaging</i> , 2004, 27, 179-187.	1.7	14
14	A buckling-based metrology for measuring the elastic moduli of polymeric thin films. <i>Nature Materials</i> , 2004, 3, 545-550.	13.3	1,197
15	NanoLiterBioReactor: Long-Term Mammalian Cell Culture at Nanofabricated Scale. <i>Biomedical Microdevices</i> , 2004, 6, 325-339.	1.4	90
16	Adhesive bonding of glassy polymer surfaces by an ultrathin layer of a semicrystalline polymer. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2004, 42, 3809-3821.	2.4	3
17	Ultraviolet sealing and poly(dimethylacrylamide) modification for poly(dimethylsiloxane)/glass microchips. <i>Electrophoresis</i> , 2004, 25, 914-921.	1.3	51
18	Wall coating for capillary electrophoresis on microchips. <i>Electrophoresis</i> , 2004, 25, 3589-3601.	1.3	129
19	PEDOT surface energy pattern controls fluorescent polymer deposition by dewetting. <i>Thin Solid Films</i> , 2004, 449, 125-132.	0.8	63
20	Multiphase flows in microfluidics. <i>Comptes Rendus Physique</i> , 2004, 5, 547-555.	0.3	78
21	Evaluation of the Adhesion Properties of Inorganic Materials with High Surface Energies. <i>Langmuir</i> , 2004, 20, 10174-10178.	1.6	24

#	ARTICLE	IF	CITATIONS
22	Tailoring the Surface Properties of Poly(dimethylsiloxane) Microfluidic Devices. <i>Langmuir</i> , 2004, 20, 5569-5574.	1.6	89
23	Structural Characterization of Microcontact Printed Arrays of Hexa(ethylene glycol)-Terminated Alkanethiols on Gold. <i>Langmuir</i> , 2004, 20, 6206-6215.	1.6	24
24	A Simple Approach to Micropatterning and Surface Modification of Poly(dimethylsiloxane). <i>Langmuir</i> , 2004, 20, 9607-9611.	1.6	62
25	Phase State Effect on Adhesion Behavior of Self-Assembled Monolayers. <i>Langmuir</i> , 2004, 20, 8124-8130.	1.6	49
26	Elastomer-glass micropump employing active throttles. <i>Analyst, The</i> , 2004, 129, 829.	1.7	15
27	Nanoscale Hydrophobic Recovery: A Chemical Force Microscopy Study of UV/Ozone-Treated Cross-Linked Poly(dimethylsiloxane). <i>Langmuir</i> , 2004, 20, 785-794.	1.6	272
28	Patterning of polymers: precise channel stamping by optimizing wetting properties. <i>New Journal of Physics</i> , 2004, 6, 111-111.	1.2	19
29	Templating Surfaces with Gradient Assemblies. <i>Journal of Adhesion</i> , 2005, 81, 417-435.	1.8	33
30	Rapid formation of soft hydrophilic silicone elastomer surfaces. <i>Polymer</i> , 2005, 46, 9329-9341.	1.8	60
31	Hydrophobic recovery of UV/ozone treated poly(dimethylsiloxane): adhesion studies by contact mechanics and mechanism of surface modification. <i>Applied Surface Science</i> , 2005, 239, 410-423.	3.1	264
32	Surface Nano- and Microstructuring with Organometallic Polymers. <i>Advances in Polymer Science</i> , 2005, , 91-117.	0.4	91
33	Nested self-similar wrinkling patterns in skins. <i>Nature Materials</i> , 2005, 4, 293-297.	13.3	710
34	Capillary zone electrophoresis of amino acids on a hybrid poly(dimethylsiloxane)-glass chip. <i>Electrophoresis</i> , 2005, 26, 1849-1860.	1.3	32
35	On the surface modification of microchannels for microcapillary electrophoresis chips. <i>Electrophoresis</i> , 2005, 26, 4616-4624.	1.3	43
36	Fabrication of Stable Metallic Patterns Embedded in Poly(dimethylsiloxane) and Model Applications in Non-Planar Electronic and Lab-on-a-Chip Device Patterning. <i>Advanced Functional Materials</i> , 2005, 15, 557-566.	7.8	91
37	Supramolecular Microcontact Printing and Dip-Pen Nanolithography on Molecular Printboards. <i>Chemistry - A European Journal</i> , 2005, 11, 3988-3996.	1.7	69
38	Patterning and modification of PDMS surface through laser micromachining of silicon masters and molding. <i>Applied Physics A: Materials Science and Processing</i> , 2005, 81, 51-56.	1.1	18
39	Evaluation of polydimethylsiloxane scaffolds with physiologically-relevant elastic moduli: interplay of substrate mechanics and surface chemistry effects on vascular smooth muscle cell response. <i>Biomaterials</i> , 2005, 26, 3123-3129.	5.7	310

#	ARTICLE	IF	CITATIONS
40	Characterization of Polydimethylsiloxane (PDMS) Properties for Biomedical Micro/Nanosystems. <i>Biomedical Microdevices</i> , 2005, 7, 281-293.	1.4	1,034
42	Downstream microwave ammonia plasma treatment of polydimethylsiloxane. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2005, 23, 208-214.	0.9	12
43	Continuously variable mixing-ratio micromixer with elastomer valves. <i>Journal of Micromechanics and Microengineering</i> , 2005, 15, 1885-1893.	1.5	21
44	In situ oligonucleotide synthesis on poly(dimethylsiloxane): a flexible substrate for microarray fabrication. <i>Nucleic Acids Research</i> , 2005, 33, e75-e75.	6.5	57
45	Microfluidic solid phase suspension transport with an elastomer-based, single piezo-actuator, micro throttle pump. <i>Lab on A Chip</i> , 2005, 5, 318.	3.1	23
46	Poly(oxyethylene) Based Surface Coatings for Poly(dimethylsiloxane) Microchannels. <i>Langmuir</i> , 2005, 21, 7551-7557.	1.6	115
47	Large-Area Patterning of Coinage-Metal Thin Films Using Decal Transfer Lithography. <i>Langmuir</i> , 2005, 21, 195-202.	1.6	48
48	Masterless Soft Lithography: Patterning UV/Ozone-Induced Adhesion on Poly(dimethylsiloxane) Surfaces. <i>Langmuir</i> , 2005, 21, 10096-10105.	1.6	65
49	Chemically Patterned Flat Stamps for Microcontact Printing. <i>Journal of the American Chemical Society</i> , 2005, 127, 10344-10349.	6.6	48
50	Dynamic coating for resolving rhodamine B adsorption to poly(dimethylsiloxane)/glass hybrid chip with laser-induced fluorescence detection. <i>Talanta</i> , 2005, 66, 1018-1024.	2.9	33
51	Assembly of Highly Aligned DNA Strands onto Si Chips. <i>Langmuir</i> , 2005, 21, 4180-4184.	1.6	42
52	Stable Permanently Hydrophilic Protein-Resistant Thin-Film Coatings on Poly(dimethylsiloxane) Substrates by Electrostatic Self-Assembly and Chemical Cross-Linking. <i>Analytical Chemistry</i> , 2005, 77, 3971-3978.	3.2	112
53	Manufacture of high-aspect-ratio micro-hair sensor arrays. <i>Journal of Micromechanics and Microengineering</i> , 2005, 15, 1904-1910.	1.5	30
54	Sulfonated-polydimethylsiloxane (PDMS) microdevices with enhanced electroosmotic pumping and stability. <i>Canadian Journal of Chemistry</i> , 2006, 84, 720-729.	0.6	4
55	Contact Mechanics and Interfacial Fatigue Studies Between Thin Semicrystalline and Glassy Polymer Films. , 2006, , 365-386.		0
56	Spontaneous formation of stable aligned wrinkling patterns. <i>Soft Matter</i> , 2006, 2, 324.	1.2	160
57	Patterned, Hybrid, Multilayer Nanostructures Based on Multivalent Supramolecular Interactions. <i>Chemistry of Materials</i> , 2006, 18, 2545-2551.	3.2	62
58	Kinetics of Ultraviolet and Plasma Surface Modification of Poly(dimethylsiloxane) Probed by Sum Frequency Vibrational Spectroscopy. <i>Langmuir</i> , 2006, 22, 1863-1868.	1.6	124

#	ARTICLE	IF	CITATIONS
59	Soft matter with hard skin: From skin wrinkles to templating and material characterization. <i>Soft Matter</i> , 2006, 2, 310.	1.2	773
60	Electrophoretic separations of neuromediators on microfluidic devices. <i>Talanta</i> , 2006, 70, 489-498.	2.9	18
61	Localized Plasma Treatment of Poly(dimethylsiloxane) Surfaces and Its Application to Controlled Cell Cultivation. <i>Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi]</i> , 2006, 19, 245-250.	0.1	9
62	Microcontact Printed BaTiO <sub>3</sub> and LaNiO <sub>3</sub> Thin Films for Capacitors. <i>Journal of the American Ceramic Society</i> , 2006, 89, 060612075903001-???.	1.9	23
63	Proteins modification of poly(dimethylsiloxane) microfluidic channels for the enhanced microchip electrophoresis. <i>Journal of Chromatography A</i> , 2006, 1107, 257-264.	1.8	62
64	Formation of more stable hydrophilic surfaces of PDMS by plasma and chemical treatments. <i>Microelectronic Engineering</i> , 2006, 83, 1277-1279.	1.1	331
65	A surface-modified sperm sorting device with long-term stability. <i>Biomedical Microdevices</i> , 2006, 8, 99-107.	1.4	34
66	Transformation of Poly(dimethylsiloxane) into thin surface films of SiO <sub>x</sub> by UV/Ozone treatment. Part I: Factors affecting modification. <i>Journal of Materials Science</i> , 2006, 41, 6362-6373.	1.7	36
67	Increasing and decreasing droplets velocity in microchannels. <i>Microfluidics and Nanofluidics</i> , 2006, 2, 271-274.	1.0	11
68	Integration of microcolumns and microfluidic fractionators on multitasking centrifugal microfluidic platforms for the analysis of biomolecules. <i>Analytical and Bioanalytical Chemistry</i> , 2006, 385, 596-605.	1.9	18
69	Determination of Nonsteroidal Anti-inflammatory Drugs in Serum by Microchip Capillary Electrophoresis with Electrochemical Detection. <i>Electroanalysis</i> , 2006, 18, 2202-2209.	1.5	31
70	Controlled direct patterning of V <sub>2</sub> O <sub>5</sub> nanowires onto SiO <sub>2</sub> substrates by a microcontact printing technique. <i>Nanotechnology</i> , 2006, 17, 1375-1379.	1.3	20
71	Wrinkled hard skins on polymers created by focused ion beam. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 1130-1133.	3.3	203
72	The Wetting Agent Required for Swarming in <i>Salmonella enterica</i> Serovar Typhimurium Is Not a Surfactant. <i>Journal of Bacteriology</i> , 2007, 189, 8750-8753.	1.0	50
73	Patterning colloidal monolayer films using microcontact particle stripping. <i>Nanotechnology</i> , 2007, 18, 205303.	1.3	20
74	Manipulating Siloxane Surfaces: Obtaining the Desired Surface Function via Engineering Design. <i>ACS Symposium Series</i> , 2007, , 222-255.	0.5	3
75	Chapter 2 Chip Capillary Electrophoresis and Total Genetic Analysis Systems. <i>Perspectives in Bioanalysis</i> , 2007, 2, 45-95.	0.3	3
76	Anisotropic wetting on tunable micro-wrinkled surfaces. <i>Soft Matter</i> , 2007, 3, 1163.	1.2	399

#	ARTICLE	IF	CITATIONS
77	Characterizing Polymer Brushes via Surface Wrinkling. <i>Chemistry of Materials</i> , 2007, 19, 6555-6560.	3.2	77
78	The Stability of Radio-Frequency Plasma-Treated Polydimethylsiloxane Surfaces. <i>Langmuir</i> , 2007, 23, 3118-3122.	1.6	101
79	Protein-Resistant Silicones: Incorporation of Poly(ethylene oxide) via Siloxane Tethers. <i>Biomacromolecules</i> , 2007, 8, 3244-3252.	2.6	57
80	Changes in Silicon Elastomeric Surface Properties under Stretching Induced by Three Surface Treatments. <i>Langmuir</i> , 2007, 23, 13136-13145.	1.6	30
81	Surface Modification of Elastomeric Stamps for Microcontact Printing of Polar Inks. <i>Langmuir</i> , 2007, 23, 6850-6855.	1.6	37
82	Microfluidic consecutive flow-focusing droplet generators. <i>Soft Matter</i> , 2007, 3, 986.	1.2	230
83	Biaxially Stretchable Wavy Silicon Nanomembranes. <i>Nano Letters</i> , 2007, 7, 1655-1663.	4.5	356
84	Surface Ionization State and Nanoscale Chemical Composition of UV-Irradiated Poly(dimethylsiloxane) Probed by Chemical Force Microscopy, Force Titration, and Electrokinetic Measurements. <i>Langmuir</i> , 2007, 23, 5430-5438.	1.6	42
85	Self-Supporting Hydrogel Stamps for the Microcontact Printing of Proteins. <i>Langmuir</i> , 2007, 23, 5154-5160.	1.6	24
86	Microfabrication of PDMS microchannels using SU-8/PMMA moldings and their sealing to polystyrene substrates. <i>Smart Materials and Structures</i> , 2007, 16, 367-371.	1.8	43
87	Straightforward Protein Immobilization on Sylgard 184 PDMS Microarray Surface. <i>Langmuir</i> , 2007, 23, 4523-4527.	1.6	40
88	Effect of Ultraviolet Light Irradiation on Bonding of Experimental Composite Resin Artificial Teeth. <i>Dental Materials Journal</i> , 2007, 26, 805-813.	0.8	12
89	A Self-Assembly Approach to Chemical Micropatterning of Poly(dimethylsiloxane). <i>Angewandte Chemie - International Edition</i> , 2007, 46, 6634-6637.	7.2	64
91	Improved Microcontact Printing of Proteins using Hydrophilic Thermoplastic Elastomers as Stamp Materials. <i>Advanced Engineering Materials</i> , 2007, 9, 1123-1128.	1.6	25
92	Printable Single-Crystal Silicon Micro/Nanoscale Ribbons, Platelets and Bars Generated from Bulk Wafers. <i>Advanced Functional Materials</i> , 2007, 17, 3051-3062.	7.8	114
93	Simple Patterning via Adhesion between a Buffered Oxide Etchant-Treated PDMS Stamp and a SiO <sub>2</sub> Substrate. <i>Advanced Functional Materials</i> , 2007, 17, 2125-2132.	7.8	21
94	Surface characterization of plasma-treated and PEG-grafted PDMS for micro fluidic applications. <i>Vacuum</i> , 2007, 81, 1094-1100.	1.6	63
95	(Bio)functional surface structural design of substrate materials based on self-assembled monolayers from aminocellulose derivatives and amino(organo)polysiloxanes. <i>Thin Solid Films</i> , 2007, 515, 6867-6877.	0.8	23

#	ARTICLE	IF	CITATIONS
96	Experiments on single levitated particles: a novel approach for investigations of electronic properties of structured II-VI-semiconductor nanoparticles in selected environments. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2007, 4, 3244-3259.	0.8	4
97	Poly(dimethylsiloxane)-polyimide blends in the formation of thick polyimide films. <i>Journal of Materials Science</i> , 2007, 42, 239-251.	1.7	9
98	Functionalization of poly(dimethylsiloxane) by chemisorption of copolymers: DNA microarrays for pathogen detection. <i>Sensors and Actuators B: Chemical</i> , 2008, 132, 258-264.	4.0	28
99	Sculpting on polymers using focused ion beam. <i>Surface and Coatings Technology</i> , 2008, 202, 5319-5324.	2.2	14
100	Applications of Microfluidic Devices in Food Engineering. <i>Food Biophysics</i> , 2008, 3, 1-15.	1.4	119
101	Analytical optimization of nanocomposite surface-enhanced Raman spectroscopy/scattering detection in microfluidic separation devices. <i>Electrophoresis</i> , 2008, 29, 1441-1450.	1.3	49
102	Orientational Transition of Liquid Crystal Molecules by a Photoinduced Transformation Process into a Recovery-free Silicon Oxide Layer. <i>Advanced Materials</i> , 2008, 20, 3073-3078.	11.1	45
103	Stop-Flow Lithography of Colloidal, Glass, and Silicon Microcomponents. <i>Advanced Materials</i> , 2008, 20, 4734-4739.	11.1	85
104	Development of perfusion-based micro 3-D cell culture platform and its application for high throughput drug testing. <i>Sensors and Actuators B: Chemical</i> , 2008, 129, 231-240.	4.0	67
105	Surface modification of Sylgard 184 polydimethylsiloxane by 254nm excimer radiation and characterization by contact angle goniometry, infrared spectroscopy, atomic force and scanning electron microscopy. <i>Applied Surface Science</i> , 2008, 254, 5314-5318.	3.1	43
106	Polyacrylamide brush coatings preventing microbial adhesion to silicone rubber. <i>Colloids and Surfaces B: Biointerfaces</i> , 2008, 64, 297-301.	2.5	69
107	Microfluidic biochip for chemiluminescent detection of allergen-specific antibodies. <i>Biosensors and Bioelectronics</i> , 2008, 23, 1812-1818.	5.3	79
108	Surface modification and aging studies of addition-curing silicone rubbers by oxygen plasma. <i>European Polymer Journal</i> , 2008, 44, 2130-2139.	2.6	85
109	Electroosmotic flow in rectangular microchannels with Joule heating effects. <i>Journal of Micromechanics and Microengineering</i> , 2008, 18, 025025.	1.5	18
110	Mechanical properties of silicones for MEMS. <i>Journal of Micromechanics and Microengineering</i> , 2008, 18, 065008.	1.5	347
111	Membrane-substrate interface: Phospholipid bilayers at chemically and topographically structured surfaces. <i>Biointerphases</i> , 2008, 3, FA22-FA32.	0.6	16
112	Organic Chemistry in Microreactors. , 0, , 59-209.		7
113	A method to fabricate mesoscopic freestanding polydimethylsiloxane membranes used to probe the rheology of an epithelial sheet. <i>Journal of Proteomics</i> , 2008, 70, 932-944.	2.4	16

#	ARTICLE	IF	CITATIONS
114	Complex micropatterning of periodic structures on elastomeric surfaces. <i>Soft Matter</i> , 2008, 4, 2360.	1.2	115
115	Fracture-induced alignment of surface wrinkles. <i>Soft Matter</i> , 2008, 4, 1805.	1.2	18
116	Large-Scale Regioselective Formation of Well-Defined Stable Wrinkles of Multilayered Films via Embossing. <i>Chemistry of Materials</i> , 2008, 20, 7052-7059.	3.2	36
117	Patterning Fluid and Elastomeric Surfaces Using Short-Wavelength UV Radiation and Photogenerated Reactive Oxygen Species. <i>Annual Review of Physical Chemistry</i> , 2008, 59, 411-432.	4.8	11
118	Bending Membranes on Demand: Fluid Phospholipid Bilayers on Topographically Deformable Substrates. <i>Nano Letters</i> , 2008, 8, 866-871.	4.5	54
119	One-step surface modification of poly(dimethylsiloxane) by undecylenic acid. , 2008, , .		2
121	Surface property controllable multilayered gate dielectric for low voltage organic thin film transistors. <i>Applied Physics Letters</i> , 2008, 93, 083504.	1.5	5
122	Introduction of Amino Groups on Poly(dimethylsiloxane) Surface Using Low-pressure Nitrogen-based Inductively Coupled Plasma. <i>Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi]</i> , 2008, 21, 705-710.	0.1	2
123	The analysis of surface treatment of PDMS on prostate cancer and smooth muscle cells. , 2008, , .		2
124	Effects of electric partial discharges on the rheological and chemical properties of polymers used in HV composite insulators after railway service. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2009, 16, 1444-1454.	1.8	16
126	Friction of soft elastomeric wrinkled surfaces. <i>Journal of Applied Physics</i> , 2009, 106, .	1.1	68
127	Surface modification of polymers using a multi-step plasma treatment. <i>Scripta Materialia</i> , 2009, 60, 44-47.	2.6	51
128	Formation and Properties of Responsive Siloxane-Based Polymeric Surfaces with Tunable Surface Reconstruction Kinetics. <i>Advanced Functional Materials</i> , 2009, 19, 460-469.	7.8	25
129	Microcontact Printing: Limitations and Achievements. <i>Advanced Materials</i> , 2009, 21, 2257-2268.	11.1	389
130	Fast Built and Designed Microdevices for Early-Stage Liquid-Liquid System Studies. <i>Chemical Engineering and Technology</i> , 2009, 32, 1823-1830.	0.9	2
131	Controlled wrinkling as a novel method for the fabrication of patterned surfaces. <i>Mikrochimica Acta</i> , 2009, 165, 249-263.	2.5	201
132	Fabrication and flow test of long-term hydrophilic fluidic chip without using any surface modification treatment. <i>Microfluidics and Nanofluidics</i> , 2009, 6, 853-857.	1.0	9
133	Surface molecular property modifications for poly(dimethylsiloxane) (PDMS) based microfluidic devices. <i>Microfluidics and Nanofluidics</i> , 2009, 7, 291-306.	1.0	428



#	ARTICLE	IF	CITATIONS
134	Plasma induced patterning of polydimethylsiloxane surfaces. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2009, 156, 18-23.	1.7	14
135	Simple poly(dimethylsiloxane) surface modification to control cell adhesion. <i>Surface and Interface Analysis</i> , 2009, 41, 11-16.	0.8	83
136	Fabrication of Nanowire Channels with Unidirectional Alignment and Controlled Length by a Simple, Gas-Blowing-Assisted, Selective-Transfer-Printing Technique. <i>Small</i> , 2009, 5, 727-734.	5.2	17
137	7-Octenyltrimethoxysilane, a model coupling molecule to study the adhesion promotion of a silicone elastomer on an Al 2024 alloy. <i>International Journal of Adhesion and Adhesives</i> , 2009, 29, 286-293.	1.4	26
138	One-stage fabrication of sub-micron hydrophilic microchannels on PDMS. <i>Applied Surface Science</i> , 2009, 255, 4702-4704.	3.1	21
139	Macromolecules to PDMS transfer as a general route for PDMS biochips. <i>Biosensors and Bioelectronics</i> , 2009, 24, 1146-1152.	5.3	18
140	Nanoscale Patterns of Dendrimers Obtained by Soft Lithography Using Elastomeric Stamps Spontaneously Structured by Plasma Treatment. <i>Langmuir</i> , 2009, 25, 7752-7758.	1.6	7
141	Porous Multilayer-Coated PDMS Stamps for Protein Printing. <i>Langmuir</i> , 2009, 25, 13972-13977.	1.6	26
142	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
143	Preparation of Micro Gold Devices on Poly(dimethylsiloxane) Chips with Region-Selective Electroless Plating. <i>Analytical Chemistry</i> , 2009, 81, 8649-8653.	3.2	19
144	Surface modification of PDMS via self-organization of vinyl-terminated small molecules. <i>Soft Matter</i> , 2009, 5, 2286.	1.2	33
145	Tunable Open-Channel Microfluidics on Soft Poly(dimethylsiloxane) (PDMS) Substrates with Sinusoidal Grooves. <i>Langmuir</i> , 2009, 25, 12794-12799.	1.6	147
146	Cleaning and Functionalization of Polymer Surfaces and Nanoscale Carbon Fillers by UV/Ozone Treatment: A Review. <i>Journal of Composite Materials</i> , 2009, 43, 1537-1564.	1.2	80
147	Development and Testing of Hierarchically Wrinkled Coatings for Marine Antifouling. <i>ACS Applied Materials &amp; Interfaces</i> , 2009, 1, 1031-1040.	4.0	225
148	Flow-through functionalized PDMS microfluidic channels with dextran derivative for ELISAs. <i>Lab on A Chip</i> , 2009, 9, 1243.	3.1	114
149	Microcontact Printing of Dendrimers, Proteins, and Nanoparticles by Porous Stamps. <i>Journal of the American Chemical Society</i> , 2009, 131, 797-803.	6.6	63
150	Textural guidance cues for controlling process outgrowth of mammalian neurons. <i>Lab on A Chip</i> , 2009, 9, 122-131.	3.1	76
151	Room-Temperature Nanoimprint using Liquid-Phase Hydrogen Silsesquioxane with PDMS mold. <i>Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi]</i> , 2009, 22, 193-194.	0.1	3

#	ARTICLE	IF	CITATIONS
152	Controlled Wrinkling as a Novel Method for the Fabrication of Patterned Surfaces. <i>Advances in Polymer Science</i> , 2009, , 75-99.	0.4	29
153	Biomimetic membranes and biomolecule immobilisation strategies for nanobiotechnology applications. <i>International Journal of Nanotechnology</i> , 2010, 7, 753.	0.1	8
154	Delicate Modification of Poly(dimethylsiloxane) Ultrathin Film by Low-Energy Ion Beam Treatment for Durable Intermediate Liquid Crystal Pretilt Angles. <i>Langmuir</i> , 2010, 26, 5072-5076.	1.6	10
155	Surface oxidation of rubber crumb with ozone. <i>Polymer Degradation and Stability</i> , 2010, 95, 803-810.	2.7	41
156	Increased poly(dimethylsiloxane) stiffness improves viability and morphology of mouse fibroblast cells. <i>Biochip Journal</i> , 2010, 4, 230-236.	2.5	93
157	Ablation and Deposition of Poly(dimethylsiloxane) with X-rays. <i>ChemPhysChem</i> , 2010, 11, 115-118.	1.0	11
158	Recent developments in PDMS surface modification for microfluidic devices. <i>Electrophoresis</i> , 2010, 31, 2-16.	1.3	692
159	Solvent-Assisted Decal Transfer Lithography by Oxygen Plasma Bonding and Anisotropic Swelling. <i>Advanced Materials</i> , 2010, 22, 2426-2429.	11.1	19
160	SOFT-EMI: A novel microfabrication technique integrating soft lithography and molecular imprinting for tissue engineering applications. <i>Biotechnology and Bioengineering</i> , 2010, 106, 804-817.	1.7	23
161	Improved surface wettability of polyurethane films by ultraviolet ozone treatment. <i>Journal of Applied Polymer Science</i> , 2010, 118, 3024-3033.	1.3	25
162	Fabrication of Artificial Petal Sculptures by Replication of Sub-micron Surface Wrinkles. <i>Macromolecular Chemistry and Physics</i> , 2010, 211, 259-264.	1.1	15
163	172nm pre-treatment for PDMS/PDMS replication. <i>Microelectronic Engineering</i> , 2010, 87, 1519-1521.	1.1	6
164	Separation of 1-butanol by pervaporation using a novel tri-layer PDMS composite membrane. <i>Journal of Membrane Science</i> , 2010, 363, 287-294.	4.1	160
165	Forming wrinkled stiff films on polymeric substrates at room temperature for stretchable interconnects applications. <i>Thin Solid Films</i> , 2010, 519, 818-822.	0.8	79
166	A novel platform for in situ investigation of cells and tissues under mechanical strain. <i>Acta Biomaterialia</i> , 2010, 6, 2979-2990.	4.1	34
167	Multifunctional Stretchable Plasma Polymer Modified PDMS Interface for Mechanically Responsive Materials. <i>Plasma Processes and Polymers</i> , 2010, 7, 64-77.	1.6	19
168	Fabrication of Silicon Carbide Micropillar Arrays from Polycarbosilanes. <i>Journal of the American Ceramic Society</i> , 2010, 93, 3929-3934.	1.9	10
169	Fracture-induced formation of parallel silicone strips. <i>Journal of Materials Research</i> , 2010, 25, 803-809.	1.2	8

#	ARTICLE	IF	CITATIONS
170	Dual exposure, two-photon, conformal phase mask lithography for three dimensional silicon inverse woodpile photonic crystals. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2010, 28, 783-788.	0.6	18
171	Surface texture and wetting stability of polydimethylsiloxane coated with aluminum oxide at low temperature by atomic layer deposition. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2010, 28, 1330-1337.	0.9	21
172	Room-Temperature Nanoimprinting Using Liquid-Phase Hydrogen Silsesquioxane with Hard Poly(dimethylsiloxane) Mold. Japanese Journal of Applied Physics, 2010, 49, 06GL13.	0.8	17
173	Manipulation of the Elastic Modulus of Polymers at the Nanoscale: Influence of UV <sup>â</sup> Ozone Cross-Linking and Plasticizer. ACS Nano, 2010, 4, 5357-5365.	7.3	37
174	Controlled wavelength reduction in surface wrinkling of poly(dimethylsiloxane). Soft Matter, 2010, 6, 677-684.	1.2	59
175	Wettability Patterning by UV-Initiated Graft Polymerization of Poly(acrylic acid) in Closed Microfluidic Systems of Complex Geometry. Analytical Chemistry, 2010, 82, 8848-8855.	3.2	87
176	Contribution Toward Comprehension of Contact Angle Values on Single Polydimethylsiloxane and Poly(ethylene oxide) Polymer Networks. Langmuir, 2010, 26, 17427-17434.	1.6	12
177	Reversible Soft-Contact Lamination and Delamination for Non-Invasive Fabrication and Characterization of Bulk-Heterojunction and Bilayer Organic Solar Cells. Chemistry of Materials, 2010, 22, 4931-4938.	3.2	45
178	Rapid and Efficient Assembly of Functional Silicone Surfaces Protected by PEG: Cell Adhesion to Peptide-Modified PDMS. Journal of Biomaterials Science, Polymer Edition, 2010, 21, 821-842.	1.9	22
179	Microfluidic cell culture systems for drug research. Lab on A Chip, 2010, 10, 939.	3.1	364
180	Complex Macromolecular Systems I. Advances in Polymer Science, 2010, , .	0.4	6
181	Thickness and Elastic Modulus of Plasma Treated PDMS Silica-like Surface Layer. Langmuir, 2010, 26, 3372-3375.	1.6	143
182	Simple surface modification of poly(dimethylsiloxane) for DNA hybridization. Biomicrofluidics, 2010, 4, 046504.	1.2	7
183	The molecular surface conformation of surface-tethered polyelectrolytes on PDMS surfaces. Soft Matter, 2010, , .	1.2	8
184	Guided self-assembly of microgels: from particle arrays to anisotropic nanostructures. Soft Matter, 2011, 7, 8231.	1.2	36
185	Controlled mechanical fracture for fabricating microchannels with various size gradients. Lab on A Chip, 2011, 11, 717-722.	3.1	27
186	Surface Dynamics of Amorphous Polymers Used for High-Voltage Insulators. Journal of Physical Chemistry B, 2011, 115, 13508-13512.	1.2	6
187	<sup>4</sup> He <sup>+</sup> Ion Beam Irradiation Induced Modification of Poly(dimethylsiloxane). Characterization by Infrared Spectroscopy and Ion Beam Analytical Techniques. Langmuir, 2011, 27, 3842-3848.	1.6	32

#	ARTICLE	IF	CITATIONS
188	Plasma-Induced Surface Modification of Polydimethylsiloxane Aimed at Reducing Salt and Protein Deposition. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2011, 22, 2457-2473.	1.9	2
189	Static Friction between Silicon Nanowires and Elastomeric Substrates. <i>ACS Nano</i> , 2011, 5, 7404-7410.	7.3	55
190	Effect of stress state on wrinkle morphology. <i>Soft Matter</i> , 2011, 7, 4490.	1.2	141
191	Impact of Pinning of the Triple Contact Line on Electrowetting Performance. <i>Langmuir</i> , 2011, 27, 14923-14929.	1.6	47
192	Magneto-resistive chip cytometer. <i>Lab on A Chip</i> , 2011, 11, 2255.	3.1	64
193	Improving Protein Transfer Efficiency and Selectivity in Affinity Contact Printing by Using UV-Modified Surfaces. <i>Langmuir</i> , 2011, 27, 5427-5432.	1.6	15
194	Strain-Release Assembly of Nanowires on Stretchable Substrates. <i>ACS Nano</i> , 2011, 5, 1556-1563.	7.3	94
195	Controlled 3D Buckling of Silicon Nanowires for Stretchable Electronics. <i>ACS Nano</i> , 2011, 5, 672-678.	7.3	192
196	Transport and mechanical properties of vapour grown carbon nanofibre/silicone composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2011, 42, 1335-1343.	3.8	19
197	Design Considerations for Magnetically Actuated Biomimetic Cilia. , 2011, , .		1
198	Fabrication of silica-based three-dimensional structures by changing fluence using proton beam writing. <i>Transactions of the Materials Research Society of Japan</i> , 2011, 36, 325-328.	0.2	8
199	Wettability control and patterning of PDMS using UV-ozone and water immersion. <i>Journal of Colloid and Interface Science</i> , 2011, 363, 371-378.	5.0	70
200	Rapid prototyping of microstructures in polydimethylsiloxane (PDMS) by direct UV-lithography. <i>Lab on A Chip</i> , 2011, 11, 1368.	3.1	48
201	Surface-Grafted, Covalently Cross-Linked Hydrogel Brushes with Tunable Interfacial and Bulk Properties. <i>Macromolecules</i> , 2011, 44, 5344-5351.	2.2	94
202	Dimethyl silane-modified silica in polydimethylsiloxane as gas permeation mixed matrix membrane. <i>Journal of Polymer Research</i> , 2011, 18, 2415-2424.	1.2	25
203	Prototyping of microfluidic systems using a commercial thermoplastic elastomer. <i>Microfluidics and Nanofluidics</i> , 2011, 11, 235-244.	1.0	44
204	Development and characterisation of integrated microfluidics on waveguide-based photonic platforms fabricated from hybrid materials. <i>Microfluidics and Nanofluidics</i> , 2011, 11, 283-296.	1.0	6
205	Silicones Today. <i>Silicon</i> , 2011, 3, 153-156.	1.8	4

#	ARTICLE	IF	CITATIONS
206	Adhesion of nonplanar wrinkled surfaces. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2011, 49, 179-185.	2.4	26
207	Solvent-Responsive Surface via Wrinkling Instability. <i>Advanced Materials</i> , 2011, 23, 4188-4192.	11.1	182
209	Facile and Efficient Control of Bioadhesion on Poly(dimethylsiloxane) by Using a Biomimetic Approach. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 10871-10874.	7.2	34
210	Characterisation of graphite nanoplatelets and the physical properties of graphite nanoplatelet/silicone composites for thermal interface applications. <i>Carbon</i> , 2011, 49, 4269-4279.	5.4	112
211	Surface modification of PDMS using atmospheric glow discharge polymerization of tetrafluoroethane for immobilization of biomolecules. <i>Applied Surface Science</i> , 2011, 257, 8378-8384.	3.1	14
212	Periodic patterns and energy states of buckled films on compliant substrates. <i>Journal of the Mechanics and Physics of Solids</i> , 2011, 59, 1094-1114.	2.3	274
213	PDMS surface modification using atmospheric pressure plasma. <i>Microelectronic Engineering</i> , 2011, 88, 2281-2285.	1.1	78
214	Controlling bucking structure by UV/ozone treatment for light extraction from organic light emitting diodes. <i>Organic Electronics</i> , 2011, 12, 1177-1183.	1.4	20
215	Slip-stick wetting and large contact angle hysteresis on wrinkled surfaces. <i>Journal of Colloid and Interface Science</i> , 2011, 354, 825-831.	5.0	27
216	Hydrophilicity of Surfactant-Added Poly(dimethylsiloxane) and Its Applications. <i>Japanese Journal of Applied Physics</i> , 2011, 50, 06GL04.	0.8	10
217	Incorporation of Decanethiol-Passivated Gold Nanoparticles into Cross-Linked Poly(Dimethylsiloxane) Films. <i>Smart Materials Research</i> , 2011, 2011, 1-7.	0.5	7
218	Synthesis of Bioactive Microcapsules Using a Microfluidic Device. <i>Sensors</i> , 2012, 12, 10136-10147.	2.1	15
219	Measurement of Nonlinear Mechanical Properties of Surfactant-Added Poly(dimethylsiloxane). <i>Japanese Journal of Applied Physics</i> , 2012, 51, 06FK07.	0.8	2
220	Microfabrication of polymers for bioMEMS. , 2012, , 3-45.		7
221	Hydrophilic mechanical buffer layers and stable hydrophilic finishes on polydimethylsiloxane using combined sequential vapor infiltration and atomic/molecular layer deposition. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2012, 30, .	0.9	34
222	Engineering Biomaterials for Regenerative Medicine. , 2012, , .		16
223	Evaluation of bakeout effectiveness by optical measurement of a contaminated surface. , 2012, , .		1
224	Well-Ordered Wrinkling Patterns on Chemically Oxidized Poly(dimethylsiloxane) Surfaces. <i>Macromolecules</i> , 2012, 45, 7128-7134.	2.2	50

#	ARTICLE	IF	CITATIONS
225	Inhibition of on-chip PCR using PDMS-glass hybrid microfluidic chips. <i>Microfluidics and Nanofluidics</i> , 2012, 13, 383-398.	1.0	20
226	Understanding the Self-Healing Hydrophobic Recovery of High-Voltage Insulators. <i>Journal of Physical Chemistry B</i> , 2012, 116, 7351-7356.	1.2	10
227	Adhesion of soft viscoelastic adhesives on periodic rough surfaces. <i>Soft Matter</i> , 2012, 8, 5350.	1.2	44
228	Recognition of poly(dimethylsiloxane) with phage displayed peptides. <i>RSC Advances</i> , 2012, 2, 12724.	1.7	10
229	l-3,4-dihydroxyphenylalanine-collagen modified PDMS surface for controlled cell culture. <i>Journal of Materials Chemistry</i> , 2012, 22, 10763.	6.7	20
230	Towards tailored topography: facile preparation of surface-wrinkled gradient poly(dimethyl siloxane) with continuously changing wavelength. <i>RSC Advances</i> , 2012, 2, 10185.	1.7	30
231	Transfer Printing Techniques for Materials Assembly and Micro/Nanodevice Fabrication. <i>Advanced Materials</i> , 2012, 24, 5284-5318.	11.1	727
232	Oxidative Surface Treatment of Silicone Rubber. <i>Advances in Silicon Science</i> , 2012, , 299-318.	0.6	6
233	Creating Functional Materials by Chemical and Physical Functionalization of Silicone Elastomer Networks. <i>Advances in Silicon Science</i> , 2012, , 59-94.	0.6	1
234	Sum Frequency Generation Vibrational Spectroscopy of Silicone Surfaces & Interfaces. <i>Advances in Silicon Science</i> , 2012, , 23-58.	0.6	12
235	Wrinkles with a well-ordered checkerboard pattern, created using dip-coating of poly(methyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 342	1.2	29
236	New Approaches for Bottom-Up Assembly of Tobacco Mosaic Virus-Derived Nucleoprotein Tubes on Defined Patterns on Silica- and Polymer-Based Substrates. <i>Langmuir</i> , 2012, 28, 14867-14877.	1.6	34
237	Patterning titania with the conventional and modified micromolding in capillaries technique from sol-gel and dispersion solutions. <i>Science and Technology of Advanced Materials</i> , 2012, 13, 025002.	2.8	3
238	Creating Self-Organized Submicrometer Contact Instability Patterns in Soft Elastic Bilayers with a Topographically Patterned Stamp. <i>ACS Applied Materials &amp; Interfaces</i> , 2012, 4, 355-362.	4.0	33
239	Contact of Nanoscale Stiff Films. <i>Langmuir</i> , 2012, 28, 9562-9572.	1.6	27
240	Polyurethane-based microfluidic devices for blood contacting applications. <i>Lab on A Chip</i> , 2012, 12, 960.	3.1	53
241	Effect of Surface Plasma Treatments on the Adhesion of Mars JSC 1 Simulant Dust to RTV 655, RTV 615, and Sylgard 184. <i>PLoS ONE</i> , 2012, 7, e45719.	1.1	12
242	Study of hydrophilicity and stability of chemically modified PDMS surface using piranha and KOH solution. <i>Surface and Interface Analysis</i> , 2012, 44, 62-69.	0.8	108

#	ARTICLE	IF	CITATIONS
243	Generic, Metal-Free Cross-Linking and Modification of Silicone Elastomers Using Click Ligation. <i>Macromolecules</i> , 2012, 45, 2276-2285.	2.2	42
244	Photoinitiator surface segregation induced instabilities from polymerization of a liquid coating on a rigid substrate. <i>Soft Matter</i> , 2012, 8, 5225.	1.2	36
245	Effect of nanosized carbon black on the morphology, transport, and mechanical properties of rubbery epoxy and silicone composites. <i>Journal of Applied Polymer Science</i> , 2012, 126, 641-652.	1.3	35
246	Fabrication of Three-Dimensionally Structured Titanium Oxide Thin Films by Transfer Printing. <i>Journal of the American Ceramic Society</i> , 2012, 95, 165-169.	1.9	2
247	Enhanced biocompatibility of PDMS (polydimethylsiloxane) polymer films by ion irradiation. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2012, 273, 161-163.	0.6	23
248	Surface Microdynamics Phase Transition and Internal Structure of High-Density, Ultrathin PHEMA- <i>b</i> -PNIPAM Diblock Copolymer Brushes on Silicone Rubber. <i>Macromolecules</i> , 2013, 46, 5260-5278.	2.2	28
249	Vibrational spectroscopic study of poly(dimethylsiloxane)-ZnO nanocomposites. <i>Vibrational Spectroscopy</i> , 2013, 68, 1-10.	1.2	20
250	Biocompatible composites of fibrous nanohydroxyapatite embedded in a polydimethylsiloxane. <i>Journal of Materials Science</i> , 2013, 48, 5132-5139.	1.7	9
251	RF spectroscopy of polymer-clad silica optical fibers. <i>Technical Physics Letters</i> , 2013, 39, 576-578.	0.2	2
252	Facile and Efficient Anti-Fouling Surface Construction on Poly(dimethylsiloxane) via Mussel-Inspired Chemistry. <i>Advanced Materials Research</i> , 2013, 749, 344-349.	0.3	1
253	Enhanced sediment flow in inclined settlers via surface modification or applied vibration for harvesting microalgae. <i>Algal Research</i> , 2013, 2, 369-377.	2.4	5
254	Near-Edge X-ray Absorption Fine Structure Studies of Electrospun Poly(dimethylsiloxane)/Poly(methyl) Tj ETQq1 1 0.784314 rgBT /Over	1.6	24
255	Effect of mold treatment by solvent on PDMS molding into nanoholes. <i>Nanoscale Research Letters</i> , 2013, 8, 394.	3.1	27
256	Facile Functionalization of PDMS Elastomer Surfaces Using Thiol-Ene Click Chemistry. <i>Langmuir</i> , 2013, 29, 12432-12442.	1.6	75
257	Fabrication of a Wrinkled Surface on Poly(dimethylsiloxane) Using a Thermal Curing Process. <i>Japanese Journal of Applied Physics</i> , 2013, 52, 06GK11.	0.8	4
258	Surface wrinkling by chemical modification of poly(dimethylsiloxane)-based networks during sputtering. <i>Soft Matter</i> , 2013, 9, 7797.	1.2	32
259	Silicone-coated elastomeric polylactide nanofiber filaments: mechanical properties and shape memory behavior. <i>RSC Advances</i> , 2013, 3, 20091.	1.7	11
260	Oxidizing octadecylphosphonic acid molecules without disrupting their self-assembled monolayers. <i>Analytical Methods</i> , 2013, 5, 4911.	1.3	5

#	ARTICLE	IF	CITATIONS
261	Long-term behavior of nonionic surfactant-added PDMS for self-driven microchips. <i>Microsystem Technologies</i> , 2013, 19, 143-150.	1.2	16
262	The surface structure of UV exposed poly-dimethylsiloxane (PDMS) insulator studied by slow positron beam. <i>Applied Surface Science</i> , 2013, 283, 327-331.	3.1	21
263	A simple method for fabrication of filler-free stretchable polydimethylsiloxane surfaces. <i>Applied Surface Science</i> , 2013, 270, 64-76.	3.1	10
264	Curvature-controlled wrinkle morphologies. <i>Soft Matter</i> , 2013, 9, 3624.	1.2	67
265	Stretching-induced Growth of PEDOT-rich Cores: A New Mechanism for Strain-Dependent Resistivity Change in PEDOT:PSS Films. <i>Advanced Functional Materials</i> , 2013, 23, 4020-4027.	7.8	54
267	Photo-oxidative enhancement of polymeric molecular sieve membranes. <i>Nature Communications</i> , 2013, 4, 1918.	5.8	117
268	Nano-fillers to tune Young's modulus of silicone matrix. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	0.8	22
269	Tailoring Hydrogel Adhesion to Polydimethylsiloxane Substrates Using Polysaccharide Glue. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 6949-6952.	7.2	65
270	Colloidal Surface Assemblies: Nanotechnology Meets Bioinspiration. <i>Advanced Functional Materials</i> , 2013, 23, 4529-4541.	7.8	65
271	Ion-Energy Dependency in Proton Irradiation Induced Chemical Processes of Poly(dimethylsiloxane). <i>Journal of Physical Chemistry C</i> , 2013, 117, 25884-25889.	1.5	21
272	Stem Cell Response to Spatially and Temporally Displayed and Reversible Surface Topography. <i>Advanced Healthcare Materials</i> , 2013, 2, 155-164.	3.9	81
273	Nanoimprint lithographic surface patterning of sol-gel fabricated nickel ferrite (NiFe <sub>2</sub> O <sub>4</sub> ). <i>MRS Communications</i> , 2013, 3, 207-211.	0.8	10
274	Independent Control of Amplitude and Periodicity in Buckling Structure for Light In- and Out-Coupling. <i>Applied Physics Express</i> , 2013, 6, 042001.	1.1	1
275	Invisible photonic printing: computer designing graphics, UV printing and shown by a magnetic field. <i>Scientific Reports</i> , 2013, 3, 1484.	1.6	100
276	Surface coatings for microfluidic-based biomedical devices. , 2013, , 63-99.		11
277	Hydrophilized Silicone Matrix for the Preparation of Stable Carbonyl Reductase Immobilizates. <i>ChemCatChem</i> , 2013, 5, 815-821.	1.8	10
279	Adhesion Between Cured Silicone Rubbers. <i>Nippon Gomu Kyokaishi</i> , 2013, 86, 327-332.	0.0	2
280	Adhesion between Cured Silicone Rubber. <i>International Polymer Science and Technology</i> , 2014, 41, 327-332.	0.1	2



#	ARTICLE	IF	CITATIONS
283	Stable and Homogenous Functionality on PDMS Surface and the Kinetic of Gold Nanoparticle Adsorption on Its Surface. <i>Soft Materials</i> , 2014, 12, 334-338.	0.8	2
285	Biomimetic Micro-patterning of Epoxy Coatings for Enhanced Surface Hydrophobicity and Low Friction. <i>Macromolecular Materials and Engineering</i> , 2014, 299, 237-247.	1.7	14
286	Designing Zwitterionic SiO <sub>2</sub> /NH <sub>2</sub> -Au Particles with Tunable Patchiness using Wrinkles. <i>Particle and Particle Systems Characterization</i> , 2014, 31, 871-878.	1.2	6
287	Toward the Development of a Versatile Functionalized Silicone Coating. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 22544-22552.	4.0	16
288	Development of functional biointerfaces by surface modification of polydimethylsiloxane with bioactive chlorogenic acid. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014, 116, 700-706.	2.5	18
289	Rapid and low cost replication of complex microfluidic structures with PDMS double casting technology. <i>Microsystem Technologies</i> , 2014, 20, 1933-1940.	1.2	30
290	Variation in diffusion of gases through PDMS due to plasma surface treatment and storage conditions. <i>Biomedical Microdevices</i> , 2014, 16, 91-96.	1.4	98
291	Universal hydrophilic coating of thermoplastic polymers currently used in microfluidics. <i>Biomedical Microdevices</i> , 2014, 16, 107-114.	1.4	47
292	Plasma treatment of PDMS for applications of in vitro motility assays. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014, 116, 687-694.	2.5	14
293	Surface treatment of polymer microfibrillar structures for improved surface wettability and adhesion. <i>Applied Surface Science</i> , 2014, 289, 586-591.	3.1	16
294	Hierarchical structure formation and pattern replication by capillary force lithography. <i>RSC Advances</i> , 2014, 4, 39684.	1.7	2
295	Wavefront kinetics of plasma oxidation of polydimethylsiloxane: limits for sub-1/4m wrinkling. <i>Soft Matter</i> , 2014, 10, 1155.	1.2	74
296	Magnetically responsive photonic watermarks on banknotes. <i>Journal of Materials Chemistry C</i> , 2014, 2, 3695.	2.7	134
297	Material versatility using replica molding for large-scale fabrication of high aspect-ratio, high density arrays of nano-pillars. <i>Nanotechnology</i> , 2014, 25, 285303.	1.3	10
298	Development of a Low-Cost Hemin-Based Dissolved Oxygen Sensor With Anti-Biofouling Coating for Water Monitoring. <i>IEEE Sensors Journal</i> , 2014, 14, 3400-3407.	2.4	37
299	Repetitive Cleavage of Elastomeric Membrane via Controlled Interfacial Fracture. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 11734-11740.	4.0	3
300	Modification of Silicone Elastomer with Zwitterionic Silane for Durable Antifouling Properties. <i>Langmuir</i> , 2014, 30, 11386-11393.	1.6	121
301	Dopamine-Based Copper-Free Click Kit for Efficient Surface Functionalization. <i>ACS Macro Letters</i> , 2014, 3, 1084-1087.	2.3	7

#	ARTICLE	IF	CITATIONS
302	Numerical Simulations of Stick Percolation: Application to the Study of Structured Magnetorheological Elastomers. <i>Journal of Physical Chemistry C</i> , 2014, 118, 20594-20604.	1.5	20
303	Surface studies on benzophenone doped PDMS microstructures fabricated using KrF excimer laser direct write lithography. <i>Applied Surface Science</i> , 2014, 314, 292-300.	3.1	24
304	A cost-effective two-step method for enhancing the hydrophilicity of PDMS surfaces. <i>Biochip Journal</i> , 2014, 8, 28-34.	2.5	11
305	A flexible strain gauge exhibiting reversible piezoresistivity based on an anisotropic magnetorheological polymer. <i>Smart Materials and Structures</i> , 2014, 23, 085026.	1.8	22
306	Stretchable Carbon Nanotube/Ionâ€“Gel Supercapacitors with High Durability Realized through Interfacial Microroughness. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 13578-13586.	4.0	86
307	Low-Cost, Acid/Alkaline-Resistant, and Fluorine-Free Superhydrophobic Fabric Coating from Onionlike Carbon Microspheres Converted from Waste Polyethylene Terephthalate. <i>Environmental Science &amp; Technology</i> , 2014, 48, 2928-2933.	4.6	46
308	Effect of ultraviolet/ozone treatment on the surface and bulk properties of poly(dimethyl siloxane) and poly(vinylmethyl siloxane) networks. <i>Polymer</i> , 2014, 55, 3107-3119.	1.8	59
310	Kinetic behaviour of the cells touching substrate: the interfacial stiffness guides cell spreading. <i>Scientific Reports</i> , 2014, 4, 3910.	1.6	75
311	Guided wrinkling with nanoimprinted SU-8 surfaces. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2014, 32, .	0.6	5
312	The Reactivity Between Si-OH Groups and Various Functional Groups from a Viewpoint of Adhesion of Cured Silicone Rubbers. <i>Journal of the Adhesion Society of Japan</i> , 2014, 50, 199-205.	0.0	0
313	Polymer-carbon nanotube composites: electrospinning, alignment and interactions. , 2014, , .		0
314	Low and atmospheric plasma polymerisation of nanocoatings for bio-applications. <i>Surface Innovations</i> , 2015, 3, 63-83.	1.4	39
315	Thermal wrinkling of nanoimprinted SU-8 with masked UV-exposure. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2015, 33, 06F603.	0.6	3
316	Pneumatic pump chip by 3D printing technology. , 2015, , .		0
317	Surface chemistry gradients on silicone elastomers for highâ€“throughput modulation of cellâ€“adhesive interfaces. <i>Journal of Biomedical Materials Research - Part A</i> , 2015, 103, 2066-2076.	2.1	8
318	Fabrication of hierarchical wrinkled morphologies through sequential <sc>UVO</sc> treatments. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	1.3	10
319	Facile Preparation of Highâ€“Performance Elastically Stretchable Interconnects. <i>Advanced Materials</i> , 2015, 27, 3755-3759.	11.1	34
320	Guiding the Dewetting of Thin Polymer Films by Colloidal Imprinting. <i>Advanced Materials Interfaces</i> , 2015, 2, 1500068.	1.9	5

#	ARTICLE	IF	CITATIONS
321	Scalable Microfabrication Procedures for Adhesive-Integrated Flexible and Stretchable Electronic Sensors. <i>Sensors</i> , 2015, 15, 23459-23476.	2.1	38
322	Increased Wettability and Surface Free Energy of Polyurethane by Ultraviolet Ozone Treatment. , 0, , .		8
323	3D silicone rubber interfaces for individually tailored implants. <i>Biomedical Microdevices</i> , 2015, 17, 9960.	1.4	14
324	Importance of surface modification of a micro-contact stamp for pattern fidelity of soluble organic semiconductors. , 2015, , .		1
325	Hyperthermal hydrogen induced cross-linking and fabrication of nano-wrinkle patterns in ultrathin polymer films. <i>Surface and Coatings Technology</i> , 2015, 261, 311-317.	2.2	7
326	Frontal vitrification of PDMS using air plasma and consequences for surface wrinkling. <i>Soft Matter</i> , 2015, 11, 3067-3075.	1.2	46
327	Designing Food Structure Using Microfluidics. <i>Food Engineering Reviews</i> , 2015, 7, 393-416.	3.1	33
328	A green technique to prepare uniform amine capped multi-walled carbon nanotubes to fabricate high strength, protein resistant polymer nanocomposites. <i>RSC Advances</i> , 2015, 5, 15524-15533.	1.7	11
329	Modulating surface stiffness of polydimethylsiloxane (PDMS) with kiloelectronvolt ion patterning. <i>Journal of Micromechanics and Microengineering</i> , 2015, 25, 065006.	1.5	12
330	Improved Thermal Property of a Multilayered Graphite Nanoplatelets Filled Silicone Resin Composite. <i>Journal of Materials Engineering and Performance</i> , 2015, 24, 920-929.	1.2	12
331	Hot punching of high-aspect-ratio 3D polymeric microstructures for drug delivery. <i>Lab on A Chip</i> , 2015, 15, 2576-2579.	3.1	18
332	Self-Assembly of PS- <i>b</i> -PDMS on a Tunable PDMS Template with Nanoscale Channels and Enhanced Anisotropic Wetting. <i>Langmuir</i> , 2015, 31, 4605-4611.	1.6	4
333	Cross-Linking the Surface of Cured Polydimethylsiloxane via Hyperthermal Hydrogen Projectile Bombardment. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 8515-8524.	4.0	16
334	Effect of calcium-ozone treatment on chemical and biological properties of polyethylene terephthalate. , 2015, 103, 853-860.		4
335	The modification methods of polymer fiber cladding for sensing application. , 2015, , .		0
336	Poly(ferrocenylsilanes) with Controlled Macromolecular Architecture by Anionic Polymerization: Applications in Patterning and Lithography. , 2015, , 387-427.		0
337	Preparation of anti-fouling silicone elastomers by covalent immobilization of carboxybetaine. <i>RSC Advances</i> , 2015, 5, 88456-88463.	1.7	32
338	One-step in-mould modification of PDMS surfaces and its application in the fabrication of self-driven microfluidic channels. <i>Lab on A Chip</i> , 2015, 15, 4322-4330.	3.1	32

#	ARTICLE	IF	CITATIONS
339	High-resolution patterning of silver conductive lines by adhesion contrast planography. Journal of Micromechanics and Microengineering, 2015, 25, 095002.	1.5	15
340	Modification of Silicone Elastomer Surfaces with Zwitterionic Polymers: Short-Term Fouling Resistance and Triggered Biofouling Release. ACS Applied Materials & Interfaces, 2015, 7, 25586-25591.	4.0	63
341	Optofluidic droplet router. Laser and Photonics Reviews, 2015, 9, 98-104.	4.4	54
342	Reversible biomechano-responsive surface based on green fluorescent protein genetically modified with unnatural amino acids. Chemical Communications, 2015, 51, 232-235.	2.2	20
343	Fabrication of a novel partially dissolving polymer microneedle patch for transdermal drug delivery. Journal of Materials Chemistry B, 2015, 3, 276-285.	2.9	104
344	On the origin of coercivity reduction in surface patterned magnetic thin films. Physica Status Solidi (A) Applications and Materials Science, 2015, 212, 449-458.	0.8	4
345	PDMS substrate stiffness affects the morphology and growth profiles of cancerous prostate and melanoma cells. Journal of the Mechanical Behavior of Biomedical Materials, 2015, 41, 13-22.	1.5	62
346	Photorefractive Optoelectronic Tweezers and Their Applications. Springer Theses, 2015, .	0.0	10
347	Composite membranes with surface-modifying macromolecules for halogenated hydrocarbons removal from water in membrane extraction process. Desalination and Water Treatment, 2015, 54, 3551-3559.	1.0	1
348	Deposition of Carbon Nanotube Films on Polyamide and Polypropylene Substrates: A Computer Simulation Approach. Materials Research, 2016, 19, 895-900.	0.6	3
349	A Review of Sensing Systems and Their Need for Environmental Water Monitoring. Critical Reviews in Biomedical Engineering, 2016, 44, 357-382.	0.5	12
350	Preliminary SEM Observations on the Surface of Elastomeric Impression Materials after Immersion or Ozone Disinfection. Journal of Clinical and Diagnostic Research JCDR, 2016, 10, ZC01-ZC05.	0.8	6
351	Soft Surfaces for the Reversible Control of Thin-Film Microstructure and Optical Reflectance. Advanced Materials, 2016, 28, 2595-2600.	11.1	37
352	49-4L: Late-News Paper: All-Ink-Jet-Printed Wearable Information Display Directly Fabricated onto an Elastomeric Substrate. Digest of Technical Papers SID International Symposium, 2016, 47, 672-675.	0.1	2
353	Spontaneous formation of discrete arrangement of particles by dipping ultraviolet/ozone-treated poly(dimethylsiloxane) substrate in solution. Journal of Applied Polymer Science, 2016, 133, .	1.3	3
354	DNA-magnetic bead detection using disposable cards and the anisotropic magnetoresistive sensor. Advances in Natural Sciences: Nanoscience and Nanotechnology, 2016, 7, 045006.	0.7	20
355	Nanoimprint-induced orientation of localized wrinkles with SU-8. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2016, 34, 06K402.	0.6	1
356	Flat and highly flexible composite stamps for nanoimprint, their preparation and their limits. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2016, 34, .	0.6	5

#	ARTICLE	IF	CITATIONS
357	Wrinkling micropatterns regulated by a hard skin layer with a periodic stiffness distribution on a soft material. <i>Applied Physics Letters</i> , 2016, 108, 021903.	1.5	34
358	Underlying causes of the magnetic behavior in surface patterned NiFe <sub>2</sub> O <sub>4</sub> thin films. <i>MRS Communications</i> , 2016, 6, 397-401.	0.8	1
359	Polymer electronic composites that heal by solvent vapour. <i>RSC Advances</i> , 2016, 6, 98466-98474.	1.7	10
360	Stretchable Thin Film Materials: Fabrication, Application, and Mechanics. <i>Journal of Electronic Packaging, Transactions of the ASME</i> , 2016, 138, .	1.2	68
361	Experimental design to facilitate syntactic foam development. <i>Journal of Applied Polymer Science</i> , 2016, 133, .	1.3	4
362	An investigation of the effect of silicone oil on polymer intraocular lenses by means of PALS, FT-IR and Raman spectroscopies. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2016, 167, 96-100.	2.0	15
363	Synthesis and gas permeability of highly elastic poly(dimethylsiloxane)/graphene oxide composite elastomers using telechelic polymers. <i>Polymer</i> , 2016, 93, 53-60.	1.8	34
364	Effect of anti-biofouling potential of multi-walled carbon nanotubes-filled polydimethylsiloxane composites on pioneer microbial colonization. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 145, 30-36.	2.5	17
365	All-Elastomer-Based Triboelectric Nanogenerator as a Keyboard Cover To Harvest Typing Energy. <i>ACS Nano</i> , 2016, 10, 7973-7981.	7.3	96
366	Robust superhydrophilic patterning of superhydrophobic ormosil surfaces for high-throughput on-chip screening applications. <i>RSC Advances</i> , 2016, 6, 80049-80054.	1.7	12
367	Simple and Rapid Fabrication of PDMS Microfluidic Devices Compatible with FTIR Microspectroscopy. <i>Bulletin of the Chemical Society of Japan</i> , 2016, 89, 195-202.	2.0	12
368	PDMS Surface Modification Using Biomachining Method for Biomedical Application. <i>Journal of Biomimetics, Biomaterials and Biomedical Engineering</i> , 0, 26, 66-72.	0.5	15
369	Non-volatile organic ferroelectric memory transistors fabricated using rigid polyimide islands on an elastomer substrate. <i>Journal of Materials Chemistry C</i> , 2016, 4, 4485-4490.	2.7	25
370	Anti-biofouling property studies on carboxyl-modified multi-walled carbon nanotubes filled PDMS nanocomposites. <i>World Journal of Microbiology and Biotechnology</i> , 2016, 32, 148.	1.7	8
371	Stable hydrophilic poly(dimethylsiloxane) via glycan surface functionalization. <i>Polymer</i> , 2016, 106, 1-7.	1.8	14
372	Direct Bonding of Polymer Materials Using Vacuum Ultra-violet. <i>Journal of the Adhesion Society of Japan</i> , 2016, 52, 101-106.	0.0	1
373	Silver nanowire network embedded in polydimethylsiloxane as stretchable, transparent, and conductive substrates. <i>Journal of Applied Polymer Science</i> , 2016, 133, .	1.3	34
374	Modification of poly(dimethylsiloxane) as a basis for surface wrinkle formation: Chemical and mechanical characterization. <i>Polymer</i> , 2016, 98, 327-335.	1.8	20

#	ARTICLE	IF	CITATIONS
375	Degradation of thermally-cured silicone encapsulant under terrestrial UV. <i>Solar Energy Materials and Solar Cells</i> , 2016, 157, 346-353.	3.0	15
376	Microbes based printing for fabrication of microlenses for organic light emitting diodes. <i>Organic Electronics</i> , 2016, 35, 199-207.	1.4	7
377	Helical coil buckling mechanism for a stiff nanowire on an elastomeric substrate. <i>Journal of the Mechanics and Physics of Solids</i> , 2016, 95, 25-43.	2.3	44
378	Sticky or Slippery Wetting: Network Formation Conditions Can Provide a One-Way Street for Water Flow on Platinum-cured Silicone. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 14252-14262.	4.0	30
379	Soft lithography of ceramic microparts using wettability-tunable poly(dimethylsiloxane) (PDMS) molds. <i>Journal of Micromechanics and Microengineering</i> , 2016, 26, 075001.	1.5	5
380	Multipurpose Polymeric Coating for Functionalizing Inert Polymer Surfaces. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 5694-5705.	4.0	9
381	Micropost arrays for measuring stem cell-derived cardiomyocyte contractility. <i>Methods</i> , 2016, 94, 43-50.	1.9	76
382	Electrically robust silver nanowire patterns transferrable onto various substrates. <i>Nanoscale</i> , 2016, 8, 5507-5515.	2.8	51
383	Fabrication of a flexible graphene@TiO <sub>2</sub> /PDMS photocatalytic film by combining air atmospheric pressure glow discharge treatment. <i>Chemical Engineering and Processing: Process Intensification</i> , 2016, 101, 8-15.	1.8	18
384	Surface treatment-assisted switchable transfer printing on polydimethylsiloxane films. <i>Journal of Materials Chemistry C</i> , 2016, 4, 3467-3476.	2.7	8
385	Toward 3D Printing of Medical Implants: Reduced Lateral Droplet Spreading of Silicone Rubber under Intense IR Curing. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 8239-8246.	4.0	23
386	Multi-solution processes of small molecule for flexible white organic light-emitting diodes. <i>Thin Solid Films</i> , 2016, 604, 94-101.	0.8	5
387	Complex 3D structures via hybrid processing of SU-8. <i>Microelectronic Engineering</i> , 2016, 155, 14-18.	1.1	12
388	Effect of UV irradiation and physical aging on O <sub>2</sub> and N <sub>2</sub> transport properties of thin glassy poly(arylene ether ketone) copolymer films based on tetramethyl bisphenol A and 4,4'-difluorobenzophenone. <i>Polymer</i> , 2016, 87, 202-214.	1.8	16
389	Reducing the risk of failure with flexible composite stamps. <i>Microelectronic Engineering</i> , 2016, 155, 79-84.	1.1	10
390	Wrinkling Measurement of the Mechanical Properties of Drying Salt Thin Films. <i>Langmuir</i> , 2016, 32, 2199-2207.	1.6	11
391	Rapid preparation of highly reliable PDMS double emulsion microfluidic devices. <i>RSC Advances</i> , 2016, 6, 25927-25933.	1.7	24
392	Mechanism of the Transition From In-Plane Buckling to Helical Buckling for a Stiff Nanowire on an Elastomeric Substrate. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2016, 83, .	1.1	21

#	ARTICLE	IF	CITATIONS
393	Understanding geometric instabilities in thin films via a multi-layer model. <i>Soft Matter</i> , 2016, 12, 806-816.	1.2	46
394	Residual-layer-free 3D nanoimprint using hybrid soft templates. <i>Microelectronic Engineering</i> , 2016, 149, 159-165.	1.1	8
395	Water Soluble Polysiloxanes. <i>Silicon</i> , 2017, 9, 619-628.	1.8	12
396	Partial wrinkle generation for switchable attachment and high adhesion hysteresis. <i>International Journal of Precision Engineering and Manufacturing</i> , 2017, 18, 133-137.	1.1	6
397	Thermal bonding of thermoplastic elastomer film to PMMA for microfluidic applications. <i>Surface and Coatings Technology</i> , 2017, 320, 437-440.	2.2	20
398	Sub-100 nm wrinkling of polydimethylsiloxane by double frontal oxidation. <i>Nanoscale</i> , 2017, 9, 2030-2037.	2.8	25
399	Modulation of the effective viscosity of polymer films by ultraviolet ozone treatment. <i>Polymer</i> , 2017, 116, 498-505.	1.8	9
400	Fabrication techniques for bioinspired, mechanically-durable, superliquiphobic surfaces for water, oil, and surfactant repellency. <i>Advances in Colloid and Interface Science</i> , 2017, 241, 1-23.	7.0	56
401	A study on air bubble wetting: Role of surface wettability, surface tension, and ionic surfactants. <i>Applied Surface Science</i> , 2017, 410, 117-125.	3.1	29
402	Fabrication of oriented wrinkles on polydopamine/polystyrene bilayer films. <i>Journal of Colloid and Interface Science</i> , 2017, 498, 123-127.	5.0	12
403	A simple fabrication process for stepwise gradient wrinkle pattern with spatially-controlled wavelength based on sequential oxygen plasma treatment. <i>Microelectronic Engineering</i> , 2017, 176, 101-105.	1.1	16
404	Switchable disposable passive RFID vapour sensors from inkjet printed electronic components integrated with PDMS as a stimulus responsive material. <i>Journal of Materials Chemistry C</i> , 2017, 5, 3167-3175.	2.7	25
405	Recent advances in nonbiofouling PDMS surface modification strategies applicable to microfluidic technology. <i>Technology</i> , 2017, 05, 1-12.	1.4	120
406	Effects of embedded surfactants on the surface properties of PDMS; applicability for autonomous microfluidic systems. <i>Microfluidics and Nanofluidics</i> , 2017, 21, 1.	1.0	13
407	Highly heat-resistant silicon-containing polyurethane-imide copolymers: Synthesis and thermal mechanical stability. <i>European Polymer Journal</i> , 2017, 91, 337-353.	2.6	35
408	Stress-induced surface instabilities and defects in thin films sputter deposited on compliant substrates. <i>Soft Matter</i> , 2017, 13, 4035-4046.	1.2	12
409	Bio-inspired hierarchical micro- and nano-wrinkles obtained via mechanically directed self-assembly on shape-memory polymers. <i>Soft Matter</i> , 2017, 13, 4328-4334.	1.2	41
410	Dual Imprinted Polymer Thin Films via Pattern Directed Self-Organization. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 20928-20937.	4.0	5

#	ARTICLE	IF	CITATIONS
411	Soft Robotics: Review of Fluid-Driven Intrinsically Soft Devices; Manufacturing, Sensing, Control, and Applications in Human-Robot Interaction. <i>Advanced Engineering Materials</i> , 2017, 19, 1700016.	1.6	707
412	Preparation and characterization of polymers based on PDMS and PEG-DMA as potential scaffold for cell growth. <i>Materials Science and Engineering C</i> , 2017, 78, 942-948.	3.8	13
413	Surface modification of line-patterned electron transfer layer for enhancing the performance of organic solar cells. <i>Journal of Industrial and Engineering Chemistry</i> , 2017, 52, 147-152.	2.9	5
414	Biomimetic nanostructures for the silicone-biosystem interface: tuning oxygen-plasma treatments of polydimethylsiloxane. <i>European Journal of Nanomedicine</i> , 2017, 9, .	0.6	4
415	Analytical study of wrinkling in thin-film-on-elastomer system with finite substrate thickness. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2017, 38, 469-478.	1.9	2
416	Pattern-Directed Ordering of Spin-Dewetted Liquid Crystal Micro- or Nanodroplets as Pixelated Light Reflectors and Locomotives. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 1066-1076.	4.0	19
417	Localization in an idealized heterogeneous elastic sheet. <i>Soft Matter</i> , 2017, 13, 1764-1772.	1.2	14
418	Free-standing guided-mode resonance humidity sensor in terahertz. <i>Sensors and Actuators A: Physical</i> , 2017, 268, 27-31.	2.0	10
419	Multidirectional Wrinkle Patterns Programmed by Sequential Uniaxial Strain with Conformal yet Nontraceable Masks. <i>Macromolecular Rapid Communications</i> , 2017, 38, 1700311.	2.0	7
420	Observation of chemically protected polydimethylsiloxane: towards crack-free PDMS. <i>Soft Matter</i> , 2017, 13, 6297-6303.	1.2	25
421	Harnessing Surface Wrinkling-Cracking Patterns for Tunable Optical Transmittance. <i>Advanced Optical Materials</i> , 2017, 5, 1700425.	3.6	76
422	Dynamic Triple-Mode Sorption and Outgassing in Materials. <i>Scientific Reports</i> , 2017, 7, 2942.	1.6	14
423	Oxidation-grafting surface modification of waste silicone rubber composite insulator powder: Characterizations and properties of EPDM/modified waste powder composites. <i>Journal of Applied Polymer Science</i> , 2017, 134, 45438.	1.3	9
424	Gold Layers on Elastomers near the Critical Stress Regime. <i>Advanced Materials Technologies</i> , 2017, 2, 1700105.	3.0	16
425	In Vitro Characterization of the Biomimetic Properties of Poly(dimethylsiloxane) To Simulate Oral Drug Absorption. <i>Molecular Pharmaceutics</i> , 2017, 14, 4661-4674.	2.3	7
426	Gravity-Drawn Silicone Filaments: Production, Characterization, and Wormlike Chain Dynamics. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 39916-39920.	4.0	2
427	Effects of coating solvent and thermal treatment on transport and morphological characteristics of PDMS/T orlon composite hollow fiber membrane. <i>Journal of Applied Polymer Science</i> , 2017, 134, 45418.	1.3	16
428	Influence of physico-mechanical properties of elastomeric material for different cell growth. <i>Biomedical Materials (Bristol)</i> , 2017, 12, 065002.	1.7	25



#	ARTICLE	IF	CITATIONS
429	Transparent, wear-resistant, superhydrophobic and superoleophobic poly(dimethylsiloxane) (PDMS) surfaces. <i>Journal of Colloid and Interface Science</i> , 2017, 488, 118-126.	5.0	168
430	EFFECTS OF VARIOUS TREATMENTS ON SILICONE RUBBER SURFACE. <i>Rubber Chemistry and Technology</i> , 2017, 90, 108-125.	0.6	8
431	Surface modification of PET film via a large area atmospheric pressure plasma: An optical analysis of the plasma and surface characterization of the polymer film. <i>Surface and Coatings Technology</i> , 2017, 309, 371-381.	2.2	43
432	Influence of surface-treated SiO <sub>2</sub> on the transport behavior of O <sub>2</sub> and N <sub>2</sub> through polydimethylsiloxane nanocomposite membrane. <i>Separation and Purification Technology</i> , 2017, 175, 358-364.	3.9	23
433	Preparation of a Surface-functionalized Power-free PDMS Microchip for MicroRNA Detection Utilizing Electron Beam-induced Graft Polymerization. <i>Analytical Sciences</i> , 2017, 33, 197-202.	0.8	10
434	Pattern Switching in Soft Cellular Structures and Hydrogel-Elastomer Composite Materials under Compression. <i>Polymers</i> , 2017, 9, 229.	2.0	12
435	Fabrication of Nano-Micro Hybrid Structures by Replication and Surface Treatment of Nanowires. <i>Crystals</i> , 2017, 7, 215.	1.0	4
436	Surface-tension-confined fluidics on Parylene C coated paper substrate. , 2017, , .		2
437	Fragmentation of Surface Adsorbed and Aligned DNA Molecules using Soft Lithography for Next-Generation Sequencing. <i>Journal of Biosensors &amp; Bioelectronics</i> , 2017, 08, .	0.4	2
438	Increased Surface Roughness in Polydimethylsiloxane Films by Physical and Chemical Methods. <i>Polymers</i> , 2017, 9, 331.	2.0	34
439	From 2D to 3D patches on multifunctional particles: how microcontact printing creates a new dimension of functionality. <i>Soft Matter</i> , 2018, 14, 2301-2309.	1.2	10
440	Enhanced Activation and Expansion of T Cells Using Mechanically Soft Elastomer Fibers. <i>Advanced Biology</i> , 2018, 2, 1700167.	3.0	28
441	Controlling nanoparticle crystallinity and surface enrichment in polymer (P3HT)/Nanoparticle(PCBM) blend films with tunable soft confinement. <i>Polymer</i> , 2018, 136, 37-46.	1.8	4
442	3D Printing of PDMS Improves Its Mechanical and Cell Adhesion Properties. <i>ACS Biomaterials Science and Engineering</i> , 2018, 4, 682-693.	2.6	119
443	Applying VHB acrylic elastomer as a cell culture and stretchable substrate. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2018, 67, 1096-1104.	1.8	9
444	Coupled Triboelectric Nanogenerator Networks for Efficient Water Wave Energy Harvesting. <i>ACS Nano</i> , 2018, 12, 1849-1858.	7.3	299
445	Engineering the Surface Properties of Poly(dimethylsiloxane) Utilizing Aqueous RAFT Photografting of Acrylate/Methacrylate Monomers. <i>Macromolecules</i> , 2018, 51, 306-317.	2.2	17
446	Observation of Dynamic Surfactant Adsorption Facilitated by Divalent Cation Bridging. <i>Langmuir</i> , 2018, 34, 1550-1556.	1.6	20

#	ARTICLE	IF	CITATIONS
447	Writing Wrinkles on Poly(dimethylsiloxane) (PDMS) by Surface Oxidation with a CO <sub>2</sub> Laser Engraver. ACS Applied Materials & Interfaces, 2018, 10, 4295-4304.	4.0	32
448	Custom tailoring of conductive ink/substrate properties for increased thin film deposition of poly(dimethylsiloxane) films. Journal of Materials Science: Materials in Electronics, 2018, 29, 10461-10470.	1.1	7
449	Mechanoresponsive Tuning of Anisotropic Wetting on Hierarchically Structured Patterns. Langmuir, 2018, 34, 4732-4738.	1.6	9
450	IR-Compatible PDMS microfluidic devices for monitoring of enzyme kinetics. Analytica Chimica Acta, 2018, 1021, 95-102.	2.6	29
451	Low-Temperature Variation of Acoustic Velocity in PDMS for High-Frequency Applications. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2018, 65, 862-869.	1.7	4
452	Factors affecting the adhesion of ice to polymer substrates. Journal of Applied Polymer Science, 2018, 135, 45734.	1.3	17
453	Highly Bioadhesive Polymer Membrane Continuously Releases Cytostatic and Anti-Inflammatory Drugs for Peritoneal Adhesion Prevention. ACS Biomaterials Science and Engineering, 2018, 4, 2026-2036.	2.6	65
454	Optimization of novel composite membranes for water and mineral recovery by vacuum membrane distillation. Desalination, 2018, 440, 39-47.	4.0	32
455	Spectroscopic studies of the silicone oil impact on the ophthalmic hydrogel based materials conducted in time dependent mode. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2018, 192, 1-5.	2.0	3
456	Dip coated stretchable and bendable PEDOTPSS films on low modulus micro-bumpy PDMS substrate. Journal of Polymer Engineering, 2018, 38, 469-474.	0.6	1
457	Processing of printed silver patterns on an ETFE substrate. , 2018, , .		0
458	Hierarchically Patterned Elastomeric and Thermoplastic Polymer Films through Nanoimprinting and Ultraviolet Light Exposure. ACS Omega, 2018, 3, 15426-15434.	1.6	10
459	Surface Modification of Polymers: Methods and Applications. Advanced Materials Interfaces, 2018, 5, 1801247.	1.9	198
460	Strategies for Superliquiphobic/Philic Surfaces. Springer Series in Materials Science, 2018, , 289-325.	0.4	0
461	Adhesive-free adhesion between heat-assisted plasma-treated fluoropolymers (PTFE, PFA) and plasma-jet-treated polydimethylsiloxane (PDMS) and its application. Scientific Reports, 2018, 8, 18058.	1.6	45
462	Patterning and Reversible Actuation of Liquid Gallium Alloys by Preventing Adhesion on Rough Surfaces. ACS Applied Materials & Interfaces, 2018, 10, 44686-44695.	4.0	74
463	A Solution Processed Flexible Nanocomposite Substrate with Efficient Light Extraction via Periodic Wrinkles for White Organic Light-Emitting Diodes. Advanced Optical Materials, 2018, 6, 1801015.	3.6	25
464	Ring Wrinkle Patterns with Continuously Changing Wavelength Produced Using a Controlled-Gradient Light Field. Materials, 2018, 11, 1571.	1.3	6

#	ARTICLE	IF	CITATIONS
466	Oxygen-deficient strontium titanate based stretchable resistive memories. <i>Applied Materials Today</i> , 2018, 13, 126-134.	2.3	17
467	Surface-Treated Poly(dimethylsiloxane) as a Gate Dielectric in Solution-Processed Organic Field-Effect Transistors. <i>ACS Omega</i> , 2018, 3, 11278-11285.	1.6	28
468	Reversible Chemo-Topographic Control of Adhesion in Polydopamine Nanomembranes. <i>Macromolecular Materials and Engineering</i> , 2018, 303, 1800258.	1.7	6
469	Flexible and recyclable conductive composite based on few-layered graphene with excellent self-healing capability. <i>European Polymer Journal</i> , 2018, 108, 536-541.	2.6	13
470	Multiple functional coating highly inert fiber surfaces of para-aramid filament yarn. <i>Materials Research Express</i> , 2018, 5, 095702.	0.8	2
471	High-performance multiple-layer PIM composite hollow fiber membranes for gas separation. <i>Journal of Membrane Science</i> , 2018, 563, 93-106.	4.1	102
472	Modification of Poly(dimethylsiloxane) by Mesostructured Siliceous Films for Constructing Protein-Interactive Surfaces. <i>E-Journal of Surface Science and Nanotechnology</i> , 2018, 16, 41-48.	0.1	5
473	Hydrogel ionotronics. <i>Nature Reviews Materials</i> , 2018, 3, 125-142.	23.3	1,119
474	Inducement of a spontaneously wrinkled polydimethylsiloxane surface and its potential as a cell culture substrate. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 170, 266-272.	2.5	6
475	Polyurethane nanofiber strain sensors via <i>in situ</i> polymerization of polypyrrole and application to monitoring joint flexion. <i>Smart Materials and Structures</i> , 2018, 27, 075006.	1.8	26
476	Wide range control in the elastic properties of PDMS polymer by ion beam (H <sup>+</sup> ) irradiation. <i>Polymer Degradation and Stability</i> , 2018, 152, 253-258.	2.7	12
477	Fabrication of a superhydrophobic mesh based on PDMS/SiO <sub>2</sub> nanoparticles/PVDF microparticles/KH-550 by one-step dip-coating method. <i>RSC Advances</i> , 2018, 8, 16251-16259.	1.7	32
478	The Relationship between Bulk Silicone and Benzophenone-Initiated Hydrogel Coating Properties. <i>Polymers</i> , 2018, 10, 534.	2.0	22
479	Operation of pneumatically-actuated membrane-based microdevices for <i>in situ</i> analysis of extraterrestrial organic molecules after prolonged storage and in multiple orientations with respect to Earth's gravitational field. <i>Sensors and Actuators B: Chemical</i> , 2018, 272, 229-235.	4.0	8
480	PDMS with designer functionalities—Properties, modifications strategies, and applications. <i>Progress in Polymer Science</i> , 2018, 83, 97-134.	11.8	478
481	Fast Hydrophobicity Recovery of the Surface-Hydrophilic Poly(dimethylsiloxane) Films Caused by Rechemisorption of Dimethylsiloxane Derivatives. <i>Langmuir</i> , 2019, 35, 9747-9752.	1.6	19
482	TiO <sub>2</sub> -doped polydimethylsiloxane (PDMS) and <i>Luffa cylindrica</i> -based photocatalytic nanosponge to absorb and desorb oil in diatom solar panels. <i>RSC Advances</i> , 2019, 9, 22410-22416.	1.7	18
483	Soft electrowetting. <i>Soft Matter</i> , 2019, 15, 6469-6475.	1.2	12

#	ARTICLE	IF	CITATIONS
484	Dual-Stimulus Smart Actuator and Robot Hand Based on a Vapor-Responsive PDMS Film and Triboelectric Nanogenerator. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 42504-42511.	4.0	31
485	Multilayered Glass Filament Yarn Surfaces as Sensor Yarn for In-situ Monitoring of Textile-reinforced Thermoplastic Composites. <i>Fibers and Polymers</i> , 2019, 20, 1945-1957.	1.1	0
486	Effects of ozonized carbon black on fracture and post-cracking toughness of carbon fiber-reinforced epoxy composites. <i>Composites Part B: Engineering</i> , 2019, 177, 107379.	5.9	37
487	Double replication for characterizing cracks in surface-hardened polydimethylsiloxane. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2019, 37, 061805.	0.6	1
488	Design of Polymer Coating Materials for Long-term Hydrophilic Stability of Poly(dimethylsiloxane) Surfaces. <i>Chemistry Letters</i> , 2019, 48, 1152-1155.	0.7	1
489	High Resolution Micro-patterning of Stretchable Polymer Electrodes through Directed Wetting Localization. <i>Scientific Reports</i> , 2019, 9, 13066.	1.6	13
490	Innovative Surface Modification of PTFE Using Heat-Assisted Plasma Treatment and Improvement in Adhesion Between PTFE and Different Materials. <i>Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan</i> , 2019, 70, 96-102.	0.1	0
491	The influence of plasma treatment on the elasticity of the <i>in situ</i> oxidized gradient layer in PDMS: towards crack-free wrinkling. <i>Soft Matter</i> , 2019, 15, 65-72.	1.2	37
492	Bio-Integrated Wearable Systems: A Comprehensive Review. <i>Chemical Reviews</i> , 2019, 119, 5461-5533.	23.0	822
493	Drawing and Hydrophobicity-patterning Long Polydimethylsiloxane Silicone Filaments. <i>Journal of Visualized Experiments</i> , 2019, , .	0.2	2
494	Block copolymer ordering on elastomeric substrates of tunable surface energy. <i>Emergent Materials</i> , 2019, 2, 11-22.	3.2	13
495	Fabrication of Self-cleaning Antireflective Polymer Surfaces by Mimicking Underside Leaf Hierarchical Surface Structures. <i>Journal of Bionic Engineering</i> , 2019, 16, 400-409.	2.7	9
496	Deformation of soft particles with controlled elasticity by liquid-liquid interfacial tension. <i>Soft Matter</i> , 2019, 15, 4609-4613.	1.2	4
497	Cell Culture Platforms with Controllable Stiffness for Chick Embryonic Cardiomyocytes. <i>Biomimetics</i> , 2019, 4, 33.	1.5	5
498	An explicit correspondence of modular curves. <i>Journal of Number Theory</i> , 2019, 200, 185-204.	0.2	0
499	Green Synthesis of Robust Superhydrophobic Antibacterial and UV-Blocking Cotton Fabrics by a Dual-Stage Silanization Approach. <i>Advanced Materials Interfaces</i> , 2019, 6, 1900032.	1.9	46
500	Tackling the Scalability Challenge in Plasmonics by Wrinkle-Assisted Colloidal Self-Assembly. <i>Langmuir</i> , 2019, 35, 8629-8645.	1.6	26
502	Comparative study of surface modification of polyethylene by parallel-field and cross-field atmospheric pressure plasma jets. <i>Journal of Applied Physics</i> , 2019, 125, .	1.1	8

#	ARTICLE	IF	CITATIONS
503	Bioinspired Flexible Volatile Organic Compounds Sensor Based on Dynamic Surface Wrinkling with Dual-Color Signal Response. <i>Small</i> , 2019, 15, e1900216.	5.2	37
504	Printing Hydrogels and Elastomers in Arbitrary Sequence with Strong Adhesion. <i>Advanced Functional Materials</i> , 2019, 29, 1901721.	7.8	101
505	Large and reversible myosin-dependent forces in rigidity sensing. <i>Nature Physics</i> , 2019, 15, 689-695.	6.5	31
506	A surface with stress, extensional elasticity, and bending stiffness. <i>Soft Matter</i> , 2019, 15, 3817-3827.	1.2	13
507	Wettability and dynamics of water droplet on a snail shell. <i>Journal of Colloid and Interface Science</i> , 2019, 547, 111-116.	5.0	5
508	In situ probing of switchable nanomechanical properties of responsive high-density polymer brushes on poly(dimethylsiloxane): An AFM nanoindentation approach. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2019, 93, 118-129.	1.5	7
509	Evaluation of Material Properties for Practical Microstructured Adhesives: Low Dust Adhesion and High Shear Strength. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 8654-8666.	4.0	16
510	Electrowetting of a nano-suspension on a soft solid. <i>Applied Physics Letters</i> , 2019, 114, .	1.5	13
511	Multiple Transfer of Layer-by-Layer Nanofunctional Films by Adhesion Controls. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 48476-48486.	4.0	4
512	Surface modification of silicone with colloidal polysaccharides formulations for the development of antimicrobial urethral catheters. <i>Applied Surface Science</i> , 2019, 463, 889-899.	3.1	24
513	Impact of Substrate Characteristics on Stretchable Polymer Semiconductor Behavior. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 3280-3289.	4.0	20
514	Fabrication of stable biomimetic coating on PDMS surface: Cooperativity of multivalent interactions. <i>Applied Surface Science</i> , 2019, 469, 720-730.	3.1	22
515	Active wrinkles to drive self-cleaning: A strategy for anti-thrombotic surfaces for vascular grafts. <i>Biomaterials</i> , 2019, 192, 226-234.	5.7	35
516	Facile synthesise of transparent hydrophobic nano- CaCO <sub>3</sub> based coatings for self-cleaning and anti-fogging. <i>Materials Chemistry and Physics</i> , 2020, 239, 121913.	2.0	35
517	Highly reflective aluminum films on polycarbonate substrates by physical vapor deposition. <i>Applied Surface Science</i> , 2020, 505, 144596.	3.1	11
518	Tailoring properties and processing of Sylgard 184: Curing time, adhesion, and water affinity. <i>Journal of Applied Polymer Science</i> , 2020, 137, 48530.	1.3	18
519	Characterisation of friction behaviour of intact soft solid foods and food boli. <i>Food Hydrocolloids</i> , 2020, 100, 105441.	5.6	14
520	A Macrophage Reporter Cell Assay to Examine Toll-Like Receptor-Mediated NF- $\kappa$ B/AP-1 Signaling on Adsorbed Protein Layers on Polymeric Surfaces. <i>Journal of Visualized Experiments</i> , 2020, , .	0.2	2

#	ARTICLE	IF	CITATIONS
521	Direct functionalizing of acrylonitrile-butadiene rubber surfaces through different peroxide curing. <i>Reactive and Functional Polymers</i> , 2020, 146, 104446.	2.0	4
522	Role of Trapped Air in the Attachment of <i>Staphylococcus aureus</i> on Superhydrophobic Silicone Elastomer Surfaces Textured by a Femtosecond Laser. <i>Langmuir</i> , 2020, 36, 1103-1112.	1.6	12
523	Nanofiber membranes as biomimetic and mechanically stable surface coatings. <i>Materials Science and Engineering C</i> , 2020, 108, 110417.	3.8	6
524	Orthogonal wave superposition of wrinkled, plasma-oxidised, polydimethylsiloxane surfaces. <i>Soft Matter</i> , 2020, 16, 595-603.	1.2	12
525	Ionotronic Luminescent Fibers, Fabrics, and Other Configurations. <i>Advanced Materials</i> , 2020, 32, e2005545.	11.1	63
526	General H <sub>2</sub> O Outgassing Model Applicable to Silica-Filled Silicones. <i>Industrial &amp; Engineering Chemistry Research</i> , 2020, 59, 19510-19521.	1.8	4
527	A practical guide to rapid-prototyping of PDMS-based microfluidic devices: A tutorial. <i>Analytica Chimica Acta</i> , 2020, 1135, 150-174.	2.6	43
528	Hydrophobic recovery of cross-linked polydimethylsiloxane films and its consequence in soft nano patterning. <i>Bulletin of Materials Science</i> , 2020, 43, 1.	0.8	11
529	Network Mesh Nanostructures in Cross-Linked Poly(Dimethylsiloxane) Visualized by AFM. <i>Macromolecular Chemistry and Physics</i> , 2020, 221, 2000170.	1.1	10
530	Dense Assembly of Finely Patterned Semiconducting Single-Walled Carbon Nanotubes via a Selective Transfer Method of Nanotube-Attracting Layers. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 38441-38450.	4.0	6
531	Characterization and gas transport properties of UV-irradiated polydimethylsiloxane (PDMS)-containing polyimide copolymer membranes. <i>Polymer</i> , 2020, 210, 122966.	1.8	15
532	Inverse liquid-solid chromatography to evaluate drug interactions with organosilane-modified polydimethylsiloxane for use in body-on-a-chip systems. <i>Biotechnology Progress</i> , 2020, 36, e3048.	1.3	1
533	The influence of Au nanoparticles presence in PDMS on microstructures creation by ion beam lithography. <i>Surface and Interface Analysis</i> , 2020, 52, 1040-1044.	0.8	6
534	Architectural Sustainability and Efficiency of Enhanced Waterproof Coating from Utilization of Waterborne Poly (Siloxane-Imide-Urethane) Copolymers on Roof Surfaces. <i>Sustainability</i> , 2020, 12, 4411.	1.6	5
535	Surface and mechanical analysis of metallized poly(dimethylsiloxane) gel for varifocal micromirrors. <i>Surface and Interface Analysis</i> , 2020, 52, 1163-1170.	0.8	2
536	Tunable hierarchical wrinkling: From models to applications. <i>Journal of Applied Physics</i> , 2020, 127, .	1.1	46
537	Cellular considerations for optimizing bone cell culture and remodeling in a lab-on-a-chip platform. <i>BioTechniques</i> , 2020, 68, 263-269.	0.8	6
538	Characterization of Drug-Polymer Adsorption Isotherms in Body-on-a-Chip Systems by Inverse Liquid-Solid Chromatography. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 4462-4475.	2.6	1

#	ARTICLE	IF	CITATIONS
539	In situ measurements of the structure and strain of a IË-conjugated semiconducting polymer under mechanical load. <i>Journal of Applied Physics</i> , 2020, 127, 045108.	1.1	8
540	Selective ozone treatment of PDMS printing stamps for selective Ag metallization: A new approach to improving resolution in patterned flexible/stretchable electronics. <i>Journal of Colloid and Interface Science</i> , 2020, 568, 273-281.	5.0	8
541	Bioinspired PDMSâ€“Phosphorâ€“Silicone Rubber Sandwichâ€“Structure Coatings for Combating Biofouling. <i>Advanced Materials Interfaces</i> , 2020, 7, 1901577.	1.9	28
542	Thickness estimation of the silica-like thin layers via swelling-driven wrinkling instability. <i>Thin Solid Films</i> , 2020, 697, 137812.	0.8	1
543	Roles of phase transition and surface property evolution in nanotribological behaviors of H-DLC: Effects of thermal and UV irradiation treatments. <i>Applied Surface Science</i> , 2020, 514, 145960.	3.1	19
544	Quantitative measurement of the effect of OH radicals on the surface treatment of polypropylene. <i>Plasma Processes and Polymers</i> , 2020, 17, 2000024.	1.6	8
545	An ultrahighâ€“throughput screening platform based on flow cytometric droplet sorting for mining novel enzymes from metagenomic libraries. <i>Environmental Microbiology</i> , 2021, 23, 996-1008.	1.8	11
546	Review of silicone surface modification techniques and coatings for antibacterial/antimicrobial applications to improve breast implant surfaces. <i>Acta Biomaterialia</i> , 2021, 121, 68-88.	4.1	53
547	Friction between soft contacts at nanoscale on uncoated and protein-coated surfaces. <i>Nanoscale</i> , 2021, 13, 2350-2367.	2.8	10
548	Amphiphilic, thixotropic additives for extrusion-based 3D printing of silica-reinforced silicone. <i>Soft Matter</i> , 2021, 17, 4133-4142.	1.2	10
549	Semi-interpenetrating polymeric networks based on poly(dimethylsiloxane)-chitosan-poly(vinyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 34 <i>Science</i> , 2021, 56, 1-20.	1.7	5
550	Surface Coating with Hyaluronic Acid-Gelatin-Crosslinked Hydrogel on Gelatin-Conjugated Poly(dimethylsiloxane) for Implantable Medical Device-Induced Fibrosis. <i>Pharmaceutics</i> , 2021, 13, 269.	2.0	20
551	Soft imprint lithography for liquid crystal alignment using a wrinkled UVO-treated PDMS transferring method. <i>Journal of Molecular Liquids</i> , 2021, 323, 115150.	2.3	4
552	Physicochemical defect guided dewetting of ultrathin films to fabricate nanoscale patterns. <i>Nanotechnology</i> , 2021, 32, 195303.	1.3	2
553	Multifunctional Stretchable Organicâ€“Inorganic Hybrid Electronics with Transparent Conductive Silver Nanowire/Biopolymer Hybrid Films. <i>Advanced Optical Materials</i> , 2021, 9, 2002041.	3.6	18
554	Mechanism of Adhesion of Natural Polymer Coatings to Chemically Modified Siloxane Polymer. <i>Langmuir</i> , 2021, 37, 2974-2984.	1.6	14
555	Amphiphilic Ti porous transport layer for highly effective PEM unitized regenerative fuel cells. <i>Science Advances</i> , 2021, 7, .	4.7	16
556	3D printing-based mirrored image component for seamless modular curved-edge displays. <i>Optics Express</i> , 2021, 29, 14745.	1.7	0

#	ARTICLE	IF	CITATIONS
557	Rapid prototyping of PDMS microdevices via $\mu$ PLAT on nonplanar surfaces with flexible hollow-out mask. <i>Biofabrication</i> , 2021, 13, 035003.	3.7	1
558	Highly Skin-Conformal Laser-Induced Graphene-Based Human Motion Monitoring Sensor. <i>Nanomaterials</i> , 2021, 11, 951.	1.9	33
559	Polydimethylsiloxane-based capacitive motion sensor and its readout circuit. <i>International Journal of Circuit Theory and Applications</i> , 2021, 49, 2147-2157.	1.3	2
560	Highly efficient, heat dissipating, stretchable organic light-emitting diodes based on a MoO <sub>3</sub> /Au/MoO <sub>3</sub> electrode with encapsulation. <i>Nature Communications</i> , 2021, 12, 2864.	5.8	42
561	Dynamic manipulation of droplets using mechanically tunable microtextured chemical gradients. <i>Nature Communications</i> , 2021, 12, 3114.	5.8	29
562	Universal method for fabricating PDMS microfluidic device using SU8, 3D printing and soft lithography. <i>Technology</i> , 2020, 08, 50-57.	1.4	12
563	Wireless, Skin-Interfaced Devices for Pediatric Critical Care: Application to Continuous, Noninvasive Blood Pressure Monitoring. <i>Advanced Healthcare Materials</i> , 2021, 10, e2100383.	3.9	33
564	Optimization of microwave plasma treatment conditions on polydimethylsiloxane films for further surface functionalization. <i>European Polymer Journal</i> , 2021, 150, 110416.	2.6	7
565	Layer-by-Layer Assembled Nano-Composite Multilayer Gas Barrier Film Manufactured with Stretchable Substrate. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 5794.	1.3	7
566	Soft, Conductive, Brain-Like, Coatings at Tips of Microelectrodes Improve Electrical Stability under Chronic, In Vivo Conditions. <i>Micromachines</i> , 2021, 12, 761.	1.4	8
567	Ultraviolet-Printing-Assisted Surface-Confined Growth of Silver Nanoparticles on Flexible Polymer Films for Cu <sup>2+</sup> and H <sub>2</sub> S Sensing. <i>ACS Applied Nano Materials</i> , 2021, 4, 8200-8216.	2.4	1
568	Strain-Tunable Microfluidic Devices with Crack and Wrinkle Microvalves for Microsphere Screening and Fluidic Logic Gates. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 36849-36858.	4.0	12
569	Review: Sensors for Biosignal/Health Monitoring in Electronic Skin. <i>Polymers</i> , 2021, 13, 2478.	2.0	22
570	PDMS Bonding Technologies for Microfluidic Applications: A Review. <i>Biosensors</i> , 2021, 11, 292.	2.3	90
571	Mechanically Tunable Superhydrophobic Surfaces Enabled by the Rational Manipulation of Microcrack Networks in Nanoporous Films. <i>Advanced Materials Interfaces</i> , 2021, 8, 2100869.	1.9	7
572	Photomechanical Polymer Nanocomposites for Drug Delivery Devices. <i>Molecules</i> , 2021, 26, 5376.	1.7	5
573	Convective heat transfer estimation of dilute metal oxide nanofluids in VUV surface tuned minichannel using Mach-Zehnder interferometry. <i>Applied Thermal Engineering</i> , 2021, 196, 117259.	3.0	5
574	Long-Term Thermal Aging of Modified Sylgard 184 Formulations. <i>Polymers</i> , 2021, 13, 3125.	2.0	19



#	ARTICLE	IF	CITATIONS
575	Survival of polymeric microstructures subjected to interrogatory touch. PLoS ONE, 2021, 16, e0255980.	1.1	0
576	Tunable Phase Gratings by Wrinkling of Plasma-Oxidized PDMS: Gradient Skins and Multiaxial Patterns. ACS Applied Polymer Materials, 2021, 3, 5162-5170.	2.0	9
577	Acrylic acid plasma polymerization and post-plasma ethylene diamine grafting for enhanced bone marrow mesenchymal stem cell behaviour on polycaprolactone nanofibers. Applied Surface Science, 2021, 563, 150363.	3.1	12
578	Preparation of drug microparticles with a narrow size distribution using regular dimples induced by buckling instability. Applied Surface Science, 2021, 563, 150251.	3.1	6
579	A new nanoparticle-reinforced silicone rubber composite integrating high strength and strong adhesion. Composites Part A: Applied Science and Manufacturing, 2021, 151, 106645.	3.8	19
580	Surface coatings for microfluidic biomedical devices. , 2021, , 79-123.		0
581	Insights from evaluation of surface cracks in surface-hardened polydimethylsiloxane by means of video analysis. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2021, 39, 013001.	0.6	0
582	Adhesion directed capillary origami. Soft Matter, 2021, 17, 9170-9180.	1.2	4
583	Ultrahigh Flux Composite Hollow Fiber Membrane via Highly Crosslinked PDMS for Recovery of Hydrocarbons: Propane and Propene. Macromolecular Rapid Communications, 2018, 39, 1700535.	2.0	28
584	Simple Strategies to Manipulate Hydrophilic Domains in Silicones. , 2008, , 29-38.		8
585	Adhesion Behavior of Soft Materials. , 2012, , 89-125.		2
586	Recycled PET as a PDMS-Functionalized electrospun fibrous membrane for oil-water separation. Journal of Environmental Chemical Engineering, 2020, 8, 103921.	3.3	51
588	Achieving High-Resolution Electrohydrodynamic Printing of Nanowires on Elastomeric Substrates through Surface Modification. ACS Applied Electronic Materials, 2021, 3, 192-202.	2.0	28
589	Electrical, surface, chemical, tensile, and respiratory signal properties of non-oxidized graphene/polyurethane nanoweb according to heat, ethanol, and polydimethylsiloxane treatments. Smart Materials and Structures, 2020, 29, 075028.	1.8	2
590	Slip Length Dependent Propulsion Speed of Catalytic Colloidal Swimmers near Walls. Physical Review Letters, 2020, 124, 048002.	2.9	34
591	Assembly and Function of Myosin II on Ultraviolet/Ozone Patterned Trimethylchlorosilane Substrates. Journal of Bionanoscience, 2008, 2, 35-41.	0.4	3
592	Lipid Bilayers Are Long-Lived on Solvent Cleaned Plasma-Oxidized poly(dimethyl)siloxane (ox-PDMS). PLoS ONE, 2017, 12, e0169487.	1.1	11
593	Recent Developments in Polymer Microfluidic Devices with Capillary Electrophoresis and Electrochemical Detection. Micro and Nanosystems, 2010, 2, 108-136.	0.3	8

#	ARTICLE	IF	CITATIONS
594	Biochips: non-conventional strategies for biosensing elements immobilization. <i>Frontiers in Bioscience - Landmark</i> , 2008, 13, 382.	3.0	13
595	Hydrophilicity of Surfactant-Added Poly(dimethylsiloxane) and Its Applications. <i>Japanese Journal of Applied Physics</i> , 2011, 50, 06GL04.	0.8	8
596	Measurement of Nonlinear Mechanical Properties of Surfactant-Added Poly(dimethylsiloxane). <i>Japanese Journal of Applied Physics</i> , 2012, 51, 06FK07.	0.8	2
597	Imparting Adhesion Property to Silicone Materials. <i>Reviews of Adhesion and Adhesives</i> , 2014, 2, 30-55.	3.3	5
598	A Review of Capillary Pressure Control Valves in Microfluidics. <i>Biosensors</i> , 2021, 11, 405.	2.3	18
599	Deposition of silicate coatings on poly(ethylene terephthalate) for improved scratch and solvent resistance. <i>Journal of Applied Polymer Science</i> , 2022, 139, 51800.	1.3	0
602	Functionalisation of Silicones with Polysaccharides. <i>Springer Briefs in Molecular Science</i> , 2018, , 27-68.	0.1	0
603	Helical Buckling Behaviors of the Nanowire/Substrate System. , 2018, , 1-47.		0
604	Highly compliant nanometer-thin Au electrodes exploiting the binding to thiol-functionalized polydimethylsiloxane films. , 2018, , .		0
606	Reduction of parasitic capacitance of flexible tactile sensors. , 2018, , .		0
607	Network Formation Conditions Control Water Drop Adhesion for VK100 and a Model Pt-Cured Silicone. , 2019, , 291-306.		0
608	Helical Buckling Behaviors of the Nanowire/Substrate System. , 2019, , 241-287.		0
609	PDMS Microfabrication and Design for Microfluidics and Sustainable Energy Application: Review. <i>Micromachines</i> , 2021, 12, 1350.	1.4	29
610	Organic Superhydrophobic Coatings for PV Modules. <i>Green Energy and Technology</i> , 2022, , 135-183.	0.4	0
611	Flexible, heat-resistant photodetector based on MoS <sub>2</sub> nanosheets thin film on transparent muscovite mica substrate. <i>Nanotechnology</i> , 2021, 32, 025206.	1.3	9
612	A novel Y-shaped photoiniferter used for the construction of polydimethylsiloxane surfaces with antibacterial and antifouling properties. <i>Journal of Materials Chemistry B</i> , 2022, 10, 262-270.	2.9	8
613	Injectable polydimethylsiloxane microfiller coated with zwitterionic polymer for enhanced biocompatibility. <i>Colloids and Surfaces B: Biointerfaces</i> , 2021, 210, 112223.	2.5	1
614	Immobilization of TiO <sub>2</sub> onto a polymeric support for photocatalytic oxidation of a paraben's mixture. <i>Journal of Water Process Engineering</i> , 2022, 46, 102458.	2.6	6

#	ARTICLE	IF	CITATIONS
615	A facile hydrophilic modification strategy initiated by flame treatment of silicone coatings for marine antifouling application. <i>Applied Surface Science</i> , 2022, 580, 152177.	3.1	14
616	Network structure influences bulk modulus of nearly incompressible filled silicone elastomers. <i>Extreme Mechanics Letters</i> , 2022, 52, 101616.	2.0	5
617	Dynamic multifunctional devices enabled by ultrathin metal nanocoatings with optical/photothermal and morphological versatility. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	3.3	13
618	Solar energy for liquid wastewater treatment with novel TiO <sub>2</sub> supported catalysts. <i>Energy Reports</i> , 2022, 8, 489-494.	2.5	6
619	Highly Stretchable and Mechanically Robust Silver Nanowires on Surface-Functionalized Wavy Elastomers for Wearable Healthcare Electronics. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
620	Microwave-assisted alcoholysis of silicone rubber waste with geraniol for effective elastomer damping. <i>Polymer Engineering and Science</i> , 0, , .	1.5	3
621	Characterization of a Radiofluorogenic Polymer for Low-Energy Electron Beam Penetration Depth Visualization. <i>Polymers</i> , 2022, 14, 1015.	2.0	0
622	Hydrophobic Recovery of PDMS Surfaces in Contact with Hydrophilic Entities: Relevance to Biomedical Devices. <i>Materials</i> , 2022, 15, 2313.	1.3	12
623	Synergistic enhancement of thermal conductivity in thermal interface materials by fabricating $3D\text{BN@ZnO}$ scaffolds. <i>Polymer Engineering and Science</i> , 2022, 62, 1641-1649.	1.5	7
624	Coil Formation of a Silicone String Using UV-Ozone Treatment. <i>ACS Omega</i> , 2022, 7, 11363-11370.	1.6	0
625	Robust and durable superhydrophobic and oil-absorbent silica particles with ultrahigh separation efficiency and recyclability. <i>Microporous and Mesoporous Materials</i> , 2022, 335, 111772.	2.2	6
626	Polyborosiloxane-based, dynamic shear stiffening multilayer coating for the protection of composite laminates under Low Velocity Impact. <i>Composites Science and Technology</i> , 2022, 222, 109395.	3.8	15
627	A design with natural polysaccharide particles and cationic conditioning agent as efficient emulsifier for hair care. <i>Carbohydrate Polymers</i> , 2022, 286, 119311.	5.1	4
630	Ultraviolet-Ozone-Activation-Driven Ag Nanoparticles Grown on Plastic Substrates for Antibacterial Applications. <i>ACS Applied Nano Materials</i> , 2022, 5, 8767-8774.	2.4	6
631	Laser Ablated Janus Hydrogel Composite Membrane for Draining Excessive Blood and Biofluid around Wounds. <i>Macromolecular Materials and Engineering</i> , 2022, 307, .	1.7	5
632	Microfabrication of polymers for bioMEMS. , 0, , 1-45.		0
633	Metal-vapor atom behavior on thermocurable polydimethylsiloxane films. <i>Applied Physics A: Materials Science and Processing</i> , 2022, 128, .	1.1	0
634	Highly stretchable and mechanically robust silver nanowires on surface-functionalized wavy elastomers for wearable healthcare electronics. <i>Organic Electronics</i> , 2022, 108, 106584.	1.4	4

#	ARTICLE	IF	CITATIONS
635	Initial bacterial retention on polydimethylsiloxane of various stiffnesses: The relevance of modulus (mis)match. <i>Colloids and Surfaces B: Biointerfaces</i> , 2022, 217, 112709.	2.5	5
636	A Capillary-Force-Assisted Transfer for Monolayer Transition-Metal-Dichalcogenide Crystals with High Utilization. <i>ACS Nano</i> , 2022, 16, 15016-15025.	7.3	7
637	Adhesion of fluid infused silicone elastomer to glass. <i>Soft Matter</i> , 2022, 18, 7579-7592.	1.2	1
638	The Influence of the Matrix on the Apatite-Forming Ability of Calcium Containing Polydimethylsiloxane-Based Cements for Endodontics. <i>Molecules</i> , 2022, 27, 5750.	1.7	2
639	Studying and evaluation physical characteristic of composite substrate chip and, its application. <i>Results in Engineering</i> , 2022, 15, 100533.	2.2	6
640	On the Mixed Gas Behavior of Organosilica Membranes Fabricated by Plasma-Enhanced Chemical Vapor Deposition (PECVD). <i>Membranes</i> , 2022, 12, 994.	1.4	3
641	Enhanced Flexible Mold Lifetime for Roll-to-Roll Scaled-Up Manufacturing of Adhesive Complex Microstructures. <i>Advanced Materials</i> , 2023, 35, .	11.1	8
642	A multifunctional ultra-thin acoustic membrane with self-healing properties for adaptive low-frequency noise control. <i>Scientific Reports</i> , 2022, 12, .	1.6	1
643	Introducing amphipathic copolymer into intermediate layer to fabricate ultra-thin Pebax composite membrane for efficient CO2 capture. <i>Journal of Membrane Science</i> , 2023, 667, 121183.	4.1	13
644	Facile two-step functionalization of multifunctional superhydrophobic cotton fabric for UV-blocking, self cleaning, antibacterial, and oil-water separation. <i>Separation and Purification Technology</i> , 2023, 306, 122626.	3.9	34
645	The surface structure and hydrophobic recovery of poly-dimethylsiloxane insulator after Ar plasma treatment. , 2014, 2, 011208-011208.		0
646	Advances in surface modifications of the silicone breast implant and impact on its biocompatibility and biointegration. <i>Biomaterials Research</i> , 2022, 26, .	3.2	6
647	The influence of substrate stiffness on interfacial stresses for adhesive microfibrils. <i>Journal of the Mechanics and Physics of Solids</i> , 2022, , 105175.	2.3	2
648	Studying the Physical and Chemical Properties of Polydimethylsiloxane Matrix Reinforced by Nanostructured TiO2 Supported on Mesoporous Silica. <i>Polymers</i> , 2023, 15, 81.	2.0	4
649	Crumpled Kirigami. <i>Soft Matter</i> , 2023, 19, 1081-1091.	1.2	3
650	Hydrophilic Modification Strategies to Enhance the Surface Biocompatibility of Poly(dimethylsiloxane)-Based Biomaterials for Medical Applications. <i>Advanced Materials Interfaces</i> , 2023, 10, .	1.9	10
651	Photocurable hydrogel-elastomer hybrids as an adhesive patch for meniscus repair. <i>Materials and Design</i> , 2023, 229, 111915.	3.3	3
652	Elastomeric platform with surface wrinkling patterns to control cardiac cell alignment. <i>Journal of Biomedical Materials Research - Part A</i> , 2023, 111, 1228-1242.	2.1	0

#	ARTICLE	IF	CITATIONS
669	Reverse fabrication method of thin-film composite membranes for hydrogen separation. Chemical Communications, 2024, 60, 2381-2384.	2.2	0