

Evangelos Gogolides

List of Publications by Year in descending order

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270
papers

7,719
citations

50170

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h-index

76769

74
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274
all docs

274
docs citations

274
times ranked

6250
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanisms of Oxygen Plasma Nanotexturing of Organic Polymer Surfaces: From Stable Super Hydrophilic to Super Hydrophobic Surfaces. <i>Langmuir</i> , 2009, 25, 11748-11759.	1.6	311
2	From Superamphiphobic to Amphiphilic Polymeric Surfaces with Ordered Hierarchical Roughness Fabricated with Colloidal Lithography and Plasma Nanotexturing. <i>Langmuir</i> , 2011, 27, 3960-3969.	1.6	212
3	Durable superhydrophobic and superamphiphobic polymeric surfaces and their applications: A review. <i>Advances in Colloid and Interface Science</i> , 2017, 250, 132-157.	7.0	203
4	Continuum modeling of radio-frequency glow discharges. I. Theory and results for electropositive and electronegative gases. <i>Journal of Applied Physics</i> , 1992, 72, 3971-3987.	1.1	187
5	Nanotexturing of poly(dimethylsiloxane) in plasmas for creating robust super-hydrophobic surfaces. <i>Nanotechnology</i> , 2006, 17, 3977-3983.	1.3	187
6	Hierarchical micro and nano structured, hydrophilic, superhydrophobic and superoleophobic surfaces incorporated in microfluidics, microarrays and lab on chip microsystems. <i>Microelectronic Engineering</i> , 2015, 132, 135-155.	1.1	187
7	Hydrophobic and superhydrophobic surfaces fabricated using atmospheric pressure cold plasma technology: A review. <i>Advances in Colloid and Interface Science</i> , 2018, 254, 1-21.	7.0	179
8	Plasma Micro-Nanotextured, Scratch, Water and Hexadecane Resistant, Superhydrophobic, and Superamphiphobic Polymeric Surfaces with Perfluorinated Monolayers. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 6510-6524.	4.0	165
9	Smart polymeric microfluidics fabricated by plasma processing: controlled wetting, capillary filling and hydrophobic valving. <i>Lab on A Chip</i> , 2010, 10, 462-469.	3.1	164
10	Nanotextured super-hydrophobic transparent poly(methyl methacrylate) surfaces using high-density plasma processing. <i>Nanotechnology</i> , 2007, 18, 125304.	1.3	150
11	Controlling roughness: from etching to nanotexturing and plasma-directed organization on organic and inorganic materials. <i>Journal Physics D: Applied Physics</i> , 2011, 44, 174021.	1.3	110
12	Quantification of line-edge roughness of photoresists. II. Scaling and fractal analysis and the best roughness descriptors. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2003, 21, 1019.	1.6	103
13	Is There a Threshold in the Antibacterial Action of Superhydrophobic Surfaces?. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 39781-39789.	4.0	102
14	Control of Nanotexture and Wetting Properties of Polydimethylsiloxane from Very Hydrophobic to Super-Hydrophobic by Plasma Processing. <i>Plasma Processes and Polymers</i> , 2007, 4, 398-405.	1.6	96
15	Line edge roughness and critical dimension variation: Fractal characterization and comparison using model functions. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2004, 22, 1974.	1.6	94
16	Comparison of experimental measurements and model predictions for radio-frequency Ar and SF ₆ discharges. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1989, 7, 1001-1006.	0.9	85
17	RF Plasmas in Methane: Prediction of Plasma Properties and Neutral Radical Densities with Combined Gas-Phase Physics and Chemistry Model. <i>Japanese Journal of Applied Physics</i> , 1995, 34, 261-270.	0.8	83
18	A global model for C ₄ F ₈ plasmas coupling gas phase and wall surface reaction kinetics. <i>Journal Physics D: Applied Physics</i> , 2008, 41, 195211.	1.3	82

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19	Superamphiphobic Polymeric Surfaces Sustaining Ultrahigh Impact Pressures of Aqueous High- and Low-Surface-Tension Mixtures, Tested with Laser-Induced Forward Transfer of Drops. <i>Advanced Materials</i> , 2015, 27, 2231-2235.	11.1	78
20	Surface and plasma simulation of deposition processes: CH ₄ plasmas for the growth of diamondlike carbon. <i>Journal of Applied Physics</i> , 1996, 79, 3718-3729.	1.1	77
21	A review of line edge roughness and surface nanotexture resulting from patterning processes. <i>Microelectronic Engineering</i> , 2006, 83, 1067-1072.	1.1	75
22	Quantification of line-edge roughness of photoresists. I. A comparison between off-line and on-line analysis of top-down scanning electron microscopy images. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2003, 21, 1008.	1.6	74
23	Biomimetic, antireflective, superhydrophobic and oleophobic PMMA and PMMA-coated glass surfaces fabricated by plasma processing. <i>Microelectronic Engineering</i> , 2014, 121, 33-38.	1.1	73
24	Etching of SiO ₂ and Si in fluorocarbon plasmas: A detailed surface model accounting for etching and deposition. <i>Journal of Applied Physics</i> , 2000, 88, 5570-5584.	1.1	72
25	Sub-micrometre luminescent porous silicon structures using lithographically patterned substrates. <i>Thin Solid Films</i> , 1995, 255, 329-333.	0.8	69
26	A global model for SF ₆ plasmas coupling reaction kinetics in the gas phase and on the surface of the reactor walls. <i>Journal Physics D: Applied Physics</i> , 2009, 42, 055209.	1.3	67
27	Plasma nanotextured polymeric lab-on-a-chip for highly efficient bacteria capture and lysis. <i>Lab on A Chip</i> , 2016, 16, 120-131.	3.1	67
28	Plasma processing for polymeric microfluidics fabrication and surface modification: Effect of super-hydrophobic walls on electroosmotic flow. <i>Microelectronic Engineering</i> , 2008, 85, 1124-1127.	1.1	65
29	Radio-frequency plasmas in CF ₄ : Self-consistent modeling of the plasma physics and chemistry. <i>Journal of Applied Physics</i> , 1995, 77, 6169-6180.	1.1	63
30	Hierarchical, Plasma Nanotextured, Robust Superamphiphobic Polymeric Surfaces Structurally Stabilized Through a Wetting-drying Cycle. <i>Plasma Processes and Polymers</i> , 2012, 9, 304-315.	1.6	63
31	Surface passivation effect by fluorine plasma treatment on ZnO for efficiency and lifetime improvement of inverted polymer solar cells. <i>Journal of Materials Chemistry A</i> , 2016, 4, 11844-11858.	5.2	62
32	Simulation of SiO ₂ and Si feature etching for microelectronics and microelectromechanical systems fabrication: A combined simulator coupling modules of surface etching, local flux calculation, and profile evolution. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2004, 22, 1896-1902.	0.9	59
33	Plasma Nanotextured PMMA Surfaces for Protein Arrays: Increased Protein Binding and Enhanced Detection Sensitivity. <i>Langmuir</i> , 2010, 26, 13883-13891.	1.6	59
34	Controlled protein adsorption on microfluidic channels with engineered roughness and wettability. <i>Sensors and Actuators B: Chemical</i> , 2012, 161, 216-222.	4.0	58
35	Atmospheric plasma etching of polymers: A palette of applications in cleaning/ashing, pattern formation, nanotexturing and superhydrophobic surface fabrication. <i>Microelectronic Engineering</i> , 2018, 194, 109-115.	1.1	58
36	Three-dimensional plasma micro-nanotextured cyclo-olefin-polymer surfaces for biomolecule immobilization and environmentally stable superhydrophobic and superoleophobic behavior. <i>Chemical Engineering Journal</i> , 2016, 300, 394-403.	6.6	56

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37	Superhydrophobic Paper by Facile and Fast Atmospheric Pressure Plasma Etching. Plasma Processes and Polymers, 2017, 14, 1600069.	1.6	56
38	Visible luminescence from one- and two-dimensional silicon structures produced by conventional lithographic and reactive ion etching techniques. Applied Physics Letters, 1995, 66, 1114-1116.	1.5	55
39	Effects of photoresist polymer molecular weight on line-edge roughness and its metrology probed with Monte Carlo simulations. Microelectronic Engineering, 2004, 75, 297-308.	1.1	55
40	Polyhedral Oligomeric Silsesquioxane (POSS) Based Resists: Material Design Challenges and Lithographic Evaluation at 157 nm. Chemistry of Materials, 2004, 16, 2567-2577.	3.2	55
41	Dual nanoscale roughness on plasma-etched Si surfaces: Role of etch inhibitors. Physical Review B, 2007, 76, .	1.1	55
42	Effect of surface nanostructuring of PDMS on wetting properties, hydrophobic recovery and protein adsorption. Microelectronic Engineering, 2009, 86, 1321-1324.	1.1	55
43	Ultra-high aspect ratio Si nanowires fabricated with plasma etching: plasma processing, mechanical stability analysis against adhesion and capillary forces and oleophobicity. Nanotechnology, 2014, 25, 035302.	1.3	55
44	Plasma directed assembly and organization: bottom-up nanopatterning using top-down technology. Nanotechnology, 2010, 21, 085302.	1.3	53
45	Tailoring the surface topography and wetting properties of oxygen-plasma treated polydimethylsiloxane. Journal of Applied Physics, 2005, 98, 113502.	1.1	51
46	Nano-texturing of poly(methyl methacrylate) polymer using plasma processes and applications in wetting control and protein adsorption. Microelectronic Engineering, 2009, 86, 1424-1427.	1.1	48
47	Continuum modeling of radio-frequency glow discharges. II. Parametric studies and sensitivity analysis. Journal of Applied Physics, 1992, 72, 3988-4002.	1.1	45
48	Modelling of radio frequency plasmas in tetrafluoromethane (CF ₄): the gas phase physics and the role of negative ion detachment. Journal Physics D: Applied Physics, 1994, 27, 1878-1886.	1.3	44
49	Photosensitive poly(dimethylsiloxane) materials for microfluidic applications. Microelectronic Engineering, 2007, 84, 1104-1108.	1.1	44
50	Si etching in high-density SF ₆ plasmas for microfabrication: surface roughness formation. Microelectronic Engineering, 2004, 73-74, 312-318.	1.1	43
51	Micro-nano-bio acoustic system for the detection of foodborne pathogens in real samples. Biosensors and Bioelectronics, 2018, 111, 52-58.	5.3	43
52	Mesh-assisted colloidal lithography and plasma etching: A route to large-area, uniform, ordered nano-pillar and nanopost fabrication on versatile substrates. Microelectronic Engineering, 2011, 88, 2547-2551.	1.1	41
53	Tailoring Wetting Properties at Extremes States to Obtain Antifogging Functionality. Advanced Functional Materials, 2021, 31, .	7.8	41
54	A novel microfluidic integration technology for PCB-based devices: Application to microflow sensing. Microelectronic Engineering, 2009, 86, 1382-1384.	1.1	40

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55	Effect of Cold Atmospheric Plasma processing on quality and shelf-life of ready-to-eat rocket leafy salad. <i>Innovative Food Science and Emerging Technologies</i> , 2020, 66, 102502.	2.7	40
56	How Different Are Fog Collection and Dew Water Harvesting on Surfaces with Different Wetting Behaviors?. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 48322-48332.	4.0	40
57	Selective plasma-induced deposition of fluorocarbon films on metal surfaces for actuation in microfluidics. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2004, 22, 1546-1551.	0.9	39
58	Tunable Poly(dimethylsiloxane) Topography in O ₂ or Ar Plasmas for Controlling Surface Wetting Properties and Their Ageing. <i>Japanese Journal of Applied Physics</i> , 2007, 46, 744-750.	0.8	39
59	Plasma Nanotextured Polymeric Surfaces for Controlling Cell Attachment and Proliferation: A Short Review. <i>Plasma Chemistry and Plasma Processing</i> , 2016, 36, 107-120.	1.1	39
60	Lab-on-Chip platform and protocol for rapid foodborne pathogen detection comprising on-chip cell capture, lysis, DNA amplification and surface-acoustic-wave detection. <i>Sensors and Actuators B: Chemical</i> , 2020, 320, 128345.	4.0	39
61	Polyhedral oligomeric silsesquioxane (POSS) acrylate copolymers for microfabrication: properties and formulation of resist materials. <i>Microelectronic Engineering</i> , 2004, 73-74, 238-243.	1.1	38
62	Stable superhydrophobic surfaces induced by dual-scale topography on SU-8. <i>Microelectronic Engineering</i> , 2010, 87, 782-785.	1.1	37
63	Roughness threshold for cell attachment and proliferation on plasma micro-nanotextured polymeric surfaces: the case of primary human skin fibroblasts and mouse immortalized 3T3 fibroblasts. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 304002.	1.3	37
64	Integrated framework for the flux calculation of neutral species inside trenches and holes during plasma etching. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2006, 24, 2008-2020.	0.9	36
65	Micro and nano structuring and texturing of polymers using plasma processes: potential manufacturing applications. <i>International Journal of Nanomanufacturing</i> , 2010, 6, 152.	0.3	36
66	Direct Covalent Biomolecule Immobilization on Plasma-Nanotextured Chemically Stable Substrates. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 14670-14681.	4.0	36
67	A Review of Fabrication Methods, Properties and Applications of Superhydrophobic Metals. <i>Processes</i> , 2021, 9, 666.	1.3	35
68	Absorbance and outgassing of photoresist polymeric materials for UV lithography below 193 nm including 157 nm lithography. <i>Microelectronic Engineering</i> , 2000, 53, 123-126.	1.1	34
69	Superhydrophobic, passive microvalves with controllable opening threshold: exploiting plasma nanotextured microfluidics for a programmable flow switchboard. <i>Microfluidics and Nanofluidics</i> , 2014, 17, 489-498.	1.0	34
70	A modular integrated lab-on-a-chip platform for fast and highly efficient sample preparation for foodborne pathogen screening. <i>Sensors and Actuators B: Chemical</i> , 2019, 288, 171-179.	4.0	34
71	Radio-frequency glow discharges in methane gas: modelling of the gas-phase physics and chemistry. <i>Journal Physics D: Applied Physics</i> , 1994, 27, 818-825.	1.3	33
72	Plasma Directed Organization of Nanodots on Polymers: Effects of Polymer Type and Etching Time on Morphology and Order. <i>Plasma Processes and Polymers</i> , 2012, 9, 866-872.	1.6	33

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73	Plasma Etching of Poly(dimethylsiloxane): Roughness Formation, Mechanism, Control, and Application in the Fabrication of Microfluidic Structures. <i>Plasma Processes and Polymers</i> , 2013, 10, 29-40.	1.6	32
74	Optical properties of high aspect ratio plasma etched silicon nanowires: fabrication-induced variability dramatically reduces reflectance. <i>Nanotechnology</i> , 2015, 26, 085301.	1.3	32
75	Direct calculation of time-periodic states of continuum models of radio-frequency plasmas. <i>Chemical Engineering Science</i> , 1992, 47, 3839-3855.	1.9	31
76	Photoresist line-edge roughness analysis using scaling concepts. <i>Journal of Micro/ Nanolithography, MEMS, and MOEMS</i> , 2004, 3, 429.	1.0	31
77	Nano-textured polymer surfaces with controlled wetting and optical properties using plasma processing. <i>International Journal of Nanotechnology</i> , 2009, 6, 196.	0.1	31
78	Nanomechanical and nanotribological properties of plasma nanotextured superhydrophilic and superhydrophobic polymeric surfaces. <i>Nanotechnology</i> , 2012, 23, 505711.	1.3	31
79	How to Achieve Reversible Electrowetting on Superhydrophobic Surfaces. <i>Langmuir</i> , 2018, 34, 4173-4179.	1.6	31
80	Deep learning denoising of SEM images towards noise-reduced LER measurements. <i>Microelectronic Engineering</i> , 2019, 216, 111051.	1.1	31
81	Highly anisotropic silicon reactive ion etching for nanofabrication using mixtures of SF ₆ /CHF ₃ gases. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 1997, 15, 640.	1.6	30
82	Highly anisotropic room-temperature sub-half-micron Si reactive ion etching using fluorine only containing gases. <i>Microelectronic Engineering</i> , 1995, 27, 449-452.	1.1	29
83	Etching behavior of Si-containing polymers as resist materials for bilayer lithography: The case of poly-dimethyl siloxane. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2003, 21, 174.	1.6	29
84	TiO ₂ –ZrO ₂ affinity chromatography polymeric microchip for phosphopeptide enrichment and separation. <i>Lab on A Chip</i> , 2011, 11, 3113.	3.1	29
85	Material and process effects on line-edge-roughness of photoresists probed with a fast stochastic lithography simulator. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2005, 23, 1371.	1.6	27
86	Plasma oxidation of polyhedral oligomeric silsesquioxane polymers. <i>Journal of Vacuum Science & Technology B</i> , 2006, 24, 2678.	1.3	27
87	Formation and metrology of dual scale nano-morphology on SF ₆ plasma etched silicon surfaces. <i>Nanotechnology</i> , 2008, 19, 255301.	1.3	27
88	Radio frequency atmospheric plasma source on a printed circuit board for large area, uniform processing of polymeric materials. <i>Plasma Sources Science and Technology</i> , 2016, 25, 025015.	1.3	27
89	Evaluation of siloxane and polyhedral silsesquioxane copolymers for 157 nm lithography. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2002, 20, 2902.	1.6	26
90	Electrowetting on plasma-deposited fluorocarbon hydrophobic films for biofluid transport in microfluidics. <i>Journal of Applied Physics</i> , 2007, 101, 103306.	1.1	26

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91	Optimization of Antibacterial Properties of “Hybrid”-Metal-Sputtered Superhydrophobic Surfaces. <i>Coatings</i> , 2020, 10, 25.	1.2	26
92	Comparative Study on the Effect of Cold Atmospheric Plasma, Ozonation, Pulsed Electromagnetic Fields and High-Pressure Technologies on Sea Bream Fillet Quality Indices and Shelf Life. <i>Food Engineering Reviews</i> , 2021, 13, 175-184.	3.1	26
93	Characterization and modeling of line width roughness (LWR). , 2005, 5752, 1227.		25
94	Stochastic simulation studies of molecular resists. <i>Microelectronic Engineering</i> , 2007, 84, 1062-1065.	1.1	25
95	High-aspect-ratio plasma-induced nanotextured poly(dimethylsiloxane) surfaces with enhanced protein adsorption capacity. <i>Journal of Vacuum Science & Technology B</i> , 2008, 26, 2543-2548.	1.3	25
96	Creating highly dense and uniform protein and DNA microarrays through photolithography and plasma modification of glass substrates. <i>Biosensors and Bioelectronics</i> , 2012, 34, 273-281.	5.3	25
97	Surface and line-edge roughness in solution and plasma developed negative tone resists: Experiment and simulation. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2000, 18, 3292.	1.6	24
98	Plasma micro-nanotextured polymeric micromixer for DNA purification with high efficiency and dynamic range. <i>Analytica Chimica Acta</i> , 2016, 942, 58-67.	2.6	24
99	Etching of SiO ₂ features in fluorocarbon plasmas: Explanation and prediction of gas-phase-composition effects on aspect ratio dependent phenomena in trenches. <i>Journal of Applied Physics</i> , 2002, 91, 2697-2707.	1.1	23
100	Surface modification of Si-containing polymers during etching for bilayer lithography. <i>Microelectronic Engineering</i> , 2002, 61-62, 901-906.	1.1	23
101	The challenges of 157 nm nanolithography: surface morphology of silicon-based copolymers. <i>Materials Science and Engineering C</i> , 2003, 23, 995-999.	3.8	23
102	Partially Fluorinated, Polyhedral Oligomeric Silsesquioxane-Functionalized (Meth)Acrylate Resists for 193 nm Bilayer Lithography. <i>Chemistry of Materials</i> , 2006, 18, 4040-4048.	3.2	23
103	Roughness Formation During Plasma Etching of Composite Materials: A Kinetic Monte Carlo Approach. <i>IEEE Transactions on Plasma Science</i> , 2007, 35, 1359-1369.	0.6	23
104	Characterization and global modelling of low-pressure hydrogen-based RF plasmas suitable for surface cleaning processes. <i>Journal Physics D: Applied Physics</i> , 2013, 46, 475206.	1.3	23
105	Photolithography and plasma processing of polymeric lab on chip for wetting and fouling control and cell patterning. <i>Microelectronic Engineering</i> , 2014, 124, 47-52.	1.1	23
106	Atmospheric Plasma Nanotexturing of Organic-Inorganic Nanocomposite Coatings for Multifunctional Surface Fabrication. <i>ACS Applied Nano Materials</i> , 2019, 2, 2969-2978.	2.4	23
107	Mass spectroscopic and degassing characteristics of polymeric materials for 157 nm photolithography. <i>Applied Physics A: Materials Science and Processing</i> , 1999, 69, S929-S933.	1.1	22
108	Roughness analysis of lithographically produced nanostructures: off-line measurement and scaling analysis. <i>Microelectronic Engineering</i> , 2003, 67-68, 319-325.	1.1	22

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109	Effects of model polymer chain architectures and molecular weight of conventional and chemically amplified photoresists on line-edge roughness. Stochastic simulations. <i>Microelectronic Engineering</i> , 2006, 83, 1078-1081.	1.1	22
110	A flexible capacitive device for pressure and tactile sensing. <i>Procedia Chemistry</i> , 2009, 1, 867-870.	0.7	22
111	The potential of ion-driven etching with simultaneous deposition of impurities for inducing periodic dots on surfaces. <i>Journal Physics D: Applied Physics</i> , 2012, 45, 165204.	1.3	22
112	A Synthetic Approach to RF Plasma Modeling Verified by Experiments: Demonstration of a Predictive and Complete Plasma Simulator. <i>Japanese Journal of Applied Physics</i> , 1997, 36, 2435-2442.	0.8	21
113	Characterization and simulation of surface and line-edge roughness in photoresists. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2001, 19, 2694.	1.6	21
114	A novel microfabrication technology on organic substrates – application to a thermal flow sensor. <i>Journal of Physics: Conference Series</i> , 2007, 92, 012046.	0.3	21
115	Roughness characterization in positive and negative resists. <i>Microelectronic Engineering</i> , 2002, 61-62, 793-801.	1.1	20
116	Effects of Photoresist Polymer Molecular Weight and Acid-Diffusion on Line-Edge Roughness. <i>Japanese Journal of Applied Physics</i> , 2005, 44, 6341-6348.	0.8	20
117	Bactericidal Action of Smooth and Plasma Micro-Nanotextured Polymeric Surfaces with Varying Wettability, Enhanced by Incorporation of a Biocidal Agent. <i>Macromolecular Materials and Engineering</i> , 2021, 306, 2000694.	1.7	20
118	Patterning of thick polymeric substrates for the fabrication of microfluidic devices. <i>Journal of Physics: Conference Series</i> , 2005, 10, 293-296.	0.3	19
119	High-density protein patterning through selective plasma-induced fluorocarbon deposition on Si substrates. <i>Biosensors and Bioelectronics</i> , 2009, 24, 2979-2984.	5.3	19
120	Contact line dynamics of a superhydrophobic surface: application for immersion lithography. <i>Microfluidics and Nanofluidics</i> , 2011, 10, 1351-1357.	1.0	19
121	Motion of Drops with Different Viscosities on Micro-Nanotextured Surfaces of Varying Topography and Wetting Properties. <i>Advanced Functional Materials</i> , 2019, 29, 1902905.	7.8	19
122	Nanoscale Roughness Effects at the Interface of Lithography and Plasma Etching: Modeling of Line-Edge-Roughness Transfer During Plasma Etching. <i>IEEE Transactions on Plasma Science</i> , 2009, 37, 1705-1714.	0.6	18
123	High-capacity and high-intensity DNA microarray spots using oxygen-plasma nanotextured polystyrene slides. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 403, 2757-2764.	1.9	18
124	A comparative study of CH ₄ and CF ₄ rf discharges using a consistent plasma physics and chemistry simulator. <i>Plasma Chemistry and Plasma Processing</i> , 1996, 16, 301-327.	1.1	17
125	Highly anisotropic silicon and polysilicon room-temperature etching using fluorine-based high density plasmas. <i>Microelectronic Engineering</i> , 1998, 41-42, 411-414.	1.1	17
126	Simulation of surface and line-edge roughness formation in resists. <i>Microelectronic Engineering</i> , 2001, 57-58, 563-569.	1.1	17

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127	Plasma etch rate measurements of thin PMMA films and correlation with the glass transition temperature. <i>Journal of Physics: Conference Series</i> , 2005, 10, 405-408.	0.3	17
128	Nanoscale Mechanical and Tribological Properties of Plasma Nanotextured COP Surfaces with Hydrophobic Coatings. <i>Plasma Processes and Polymers</i> , 2015, 12, 1271-1283.	1.6	17
129	Transition between stable hydrophilization and fast etching/hydrophilization of poly(methyl)methacrylate polymer using a novel atmospheric pressure dielectric barrier discharge source. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2017, 35, 041303.	0.9	17
130	Superhydrophobic Fabrics with Mechanical Durability Prepared by a Two-Step Plasma Processing Method. <i>Coatings</i> , 2018, 8, 351.	1.2	17
131	Fabrication of a 3D microfluidic cell culture device for bone marrow-on-a-chip. <i>Micro and Nano Engineering</i> , 2020, 9, 100075.	1.4	17
132	Enhanced antibacterial activity of ZnO-PMMA nanocomposites by selective plasma etching in atmospheric pressure. <i>Micro and Nano Engineering</i> , 2021, 13, 100098.	1.4	17
133	Surface segregation of photoresist copolymers containing polyhedral oligomeric silsesquioxanes studied by x-ray photoelectron spectroscopy. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2004, 22, 2526.	1.6	16
134	Protein arrays on high-surface-area plasma-nanotextured poly(dimethylsiloxane)-coated glass slides. <i>Colloids and Surfaces B: Biointerfaces</i> , 2011, 83, 270-276.	2.5	16
135	Superhydrophobic, hierarchical, plasma-nanotextured polymeric microchannels sustaining high-pressure flows. <i>Microfluidics and Nanofluidics</i> , 2013, 14, 247-255.	1.0	16
136	Parylene C Surface Functionalization and Patterning with pH-Responsive Microgels. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 15708-15715.	4.0	16
137	Micro-bead immunoassays for the detection of IL6 and PDGF-2 proteins on a microfluidic platform, incorporating superhydrophobic passive valves. <i>Microelectronic Engineering</i> , 2017, 175, 73-80.	1.1	16
138	n+Polysilicon Etching in CCl ₄ /He Discharges: Characterization and Modeling. <i>Journal of the Electrochemical Society</i> , 1989, 136, 1147-1154.	1.3	15
139	Surface roughness induced by plasma etching of Si-containing polymers. <i>Journal of Adhesion Science and Technology</i> , 2003, 17, 1083-1091.	1.4	15
140	Toward a complete description of linewidth roughness: a comparison of different methods for vertical and spatial LER and LWR analysis and CD variation. , 2004, , .		15
141	Electrical and optical characterization of an atmospheric pressure, uniform, large-area processing, dielectric barrier discharge. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 135204.	1.3	15
142	Ultra-low friction, superhydrophobic, plasma micro-nanotextured fluorinated ethylene propylene (FEP) surfaces. <i>Micro and Nano Engineering</i> , 2022, 14, 100104.	1.4	15
143	Multiwavelength interferometry and competing optical methods for the thermal probing of thin polymeric films. <i>Journal of Applied Polymer Science</i> , 2006, 102, 4764-4774.	1.3	14
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