

# Mark Geoghegan

## List of Publications by Year in descending order

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117  
papers

3,736  
citations

147566

31  
h-index

149479

56  
g-index

124  
all docs

124  
docs citations

124  
times ranked

4918  
citing authors

#	ARTICLE	IF	CITATIONS
1	Weak polyelectrolyte brushes. <i>Soft Matter</i> , 2022, 18, 2500-2511.	1.2	12
2	Optical Gain in Semiconducting Polymer Nano and Mesoparticles. <i>Molecules</i> , 2021, 26, 1138.	1.7	0
3	Lateral diffusion of single poly(ethylene oxide) chains on the surfaces of glassy and molten polymer films. <i>Journal of Chemical Physics</i> , 2021, 154, 164902.	1.2	1
4	Combined specular and off-specular reflectometry: elucidating the complex structure of soft buried interfaces. <i>Journal of Applied Crystallography</i> , 2021, 54, 924-948.	1.9	11
5	2D reflectometry for the investigation of polymer interfaces: off-specular neutron scattering. <i>Journal of Physics Condensed Matter</i> , 2021, 33, 364002.	0.7	3
6	The Role of Extracellular DNA in Microbial Attachment to Oxidized Silicon Surfaces in the Presence of Ca <sup>2+</sup> and Na <sup>+</sup> . <i>Langmuir</i> , 2021, 37, 9838-9850.	1.6	6
7	Sustainable Team Design: A Challenge to Traditional Beliefs in Information-Intensive Service Industries. <i>Sustainability</i> , 2021, 13, 13552.	1.6	0
8	Adhesion of Grafted-to Polyelectrolyte Brushes Functionalized with Calix[4]resorcinarene and Deposited as a Monolayer. <i>Langmuir</i> , 2020, 36, 13843-13852.	1.6	4
9	Glycan-glycan interactions determine Leishmania attachment to the midgut of permissive sand fly vectors. <i>Chemical Science</i> , 2020, 11, 10973-10983.	3.7	4
10	Adhesion between oppositely charged polyelectrolytes in salt solution. <i>Journal of Applied Polymer Science</i> , 2020, 137, 49130.	1.3	11
11	Distinct Binding Interactions of $\alpha 5 \beta 1$ -Integrin and Proteoglycans with Fibronectin. <i>Biophysical Journal</i> , 2019, 117, 688-695.	0.2	14
12	Size-Dependent Photophysical Behavior of Low Bandgap Semiconducting Polymer Particles. <i>Frontiers in Chemistry</i> , 2019, 7, 409.	1.8	4
13	Application of mean-field theory to the spin casting of polystyrene and poly(methyl methacrylate) blend films from toluene. <i>Polymer</i> , 2019, 178, 121578.	1.8	2
14	Extracellular DNA Provides Structural Integrity to a <i>Micrococcus luteus</i> Biofilm. <i>Langmuir</i> , 2019, 35, 6468-6475.	1.6	22
15	Slow polymer diffusion on brush-patterned surfaces in aqueous solution. <i>Nanoscale</i> , 2019, 11, 6052-6061.	2.8	3
16	Salt Dependence of the Tribological Properties of a Surface-Grafted Weak Polycation in Aqueous Solution. <i>Tribology Letters</i> , 2018, 66, 11.	1.2	11
17	Temperature-dependent structure and dynamics of highly-branched poly( <i>N</i> -isopropylacrylamide) in aqueous solution. <i>Soft Matter</i> , 2018, 14, 1482-1491.	1.2	6
18	Polymers and biopolymers at interfaces. <i>Reports on Progress in Physics</i> , 2018, 81, 036601.	8.1	26

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19	Adhesion between oppositely charged polyelectrolytes. <i>Journal of Adhesion</i> , 2018, 94, 58-76.	1.8	6
20	Highly-ordered onion micelles made from amphiphilic highly-branched copolymers. <i>Polymer Chemistry</i> , 2018, 9, 5617-5629.	1.9	3
21	Blob Size Controls Diffusion of Free Polymer in a Chemically Identical Brush in Semidilute Solution. <i>Macromolecules</i> , 2018, 51, 6312-6317.	2.2	5
22	Nanotribological Investigation of Polymer Brushes with Lithographically Defined and Systematically Varying Grafting Densities. <i>Langmuir</i> , 2017, 33, 706-713.	1.6	6
23	The swelling of weak polyelectrolytes at low salt concentrations in dilute solution. <i>Polymer</i> , 2017, 112, 414-417.	1.8	5
24	From spin coating to roll-to-roll: investigating the challenge of upscaling lead halide perovskite solar cells. <i>IET Renewable Power Generation</i> , 2017, 11, 546-549.	1.7	25
25	Influence of salt on the solution dynamics of a phosphorylcholine-based polyzwitterion. <i>European Polymer Journal</i> , 2017, 87, 449-457.	2.6	12
26	Polymer Surfaces: Segregation. , 2016, , .		1
27	Effect of Salt on Phosphorylcholine-based Zwitterionic Polymer Brushes. <i>Langmuir</i> , 2016, 32, 5048-5057.	1.6	73
28	Double-network hydrogels improve pH-switchable adhesion. <i>Soft Matter</i> , 2016, 12, 5022-5028.	1.2	24
29	The Substrate is a pH-Controlled Second Gate of Electrolyte-Gated Organic Field-Effect Transistor. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 31783-31790.	4.0	17
30	The pH-responsive behaviour of poly(acrylic acid) in aqueous solution is dependent on molar mass. <i>Soft Matter</i> , 2016, 12, 2542-2549.	1.2	297
31	Characterization of Diblock Copolymer Order-Order Transitions in Semidilute Aqueous Solution Using Fluorescence Correlation Spectroscopy. <i>Macromolecular Rapid Communications</i> , 2015, 36, 1572-1577.	2.0	13
32	Determination of the molar mass of surface-grafted weak polyelectrolyte brushes using force spectroscopy. <i>Polymer</i> , 2015, 67, 111-117.	1.8	13
33	Measurement of molecular mixing at a conjugated polymer interface by specular and off-specular neutron scattering. <i>Soft Matter</i> , 2015, 11, 9393-9403.	1.2	8
34	Nanoscale Contact Mechanics between Two Grafted Polyelectrolyte Surfaces. <i>Macromolecules</i> , 2015, 48, 6272-6279.	2.2	29
35	Effect of extracellular polymeric substances on the mechanical properties of <i>Rhodococcus</i> . <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2015, 1848, 518-526.	1.4	25
36	Dynamics of polymer film formation during spin coating. <i>Journal of Applied Physics</i> , 2014, 116, .	1.1	44

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37	Frictional properties of a polycationic brush. <i>Soft Matter</i> , 2014, 10, 2759.	1.2	21
38	Reduced curvilinear velocity of boar sperm on substrates with increased hydrophobicity. <i>Theriogenology</i> , 2014, 81, 764-769.	0.9	0
39	Nanoscale Contact Mechanics of Biocompatible Polyzwitterionic Brushes. <i>Langmuir</i> , 2013, 29, 10684-10692.	1.6	32
40	All-polymer field-effect transistors using a brush gate dielectric. <i>Journal of Materials Chemistry C</i> , 2013, 1, 7736.	2.7	7
41	Crystallization-Driven Enhancement in Photovoltaic Performance through Block Copolymer Incorporation into P3HT:PCBM Blends. <i>Macromolecules</i> , 2013, 46, 3015-3024.	2.2	38
42	Phase separation-driven stratification in conventional and inverted P3HT:PCBM organic solar cells. <i>Organic Electronics</i> , 2013, 14, 1249-1254.	1.4	31
43	The mechanics of nanometre-scale molecular contacts. <i>Faraday Discussions</i> , 2012, 156, 325.	1.6	15
44	Symmetric and asymmetric instability of buried polymer interfaces. <i>Physical Review E</i> , 2012, 86, 032801.	0.8	8
45	Diffusion of dextran within poly(methacrylic acid) hydrogels. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2012, 50, 1286-1292.	2.4	10
46	Structure of films of poly(3,4-ethylene dioxythiophene)-poly(styrene sulfonate) crosslinked with glycerol. <i>Journal of Materials Chemistry</i> , 2011, 21, 19324.	6.7	12
47	Effect of Brush Thickness and Solvent Composition on the Friction Force Response of Poly(2-(methacryloyloxy)ethylphosphorylcholine) Brushes. <i>Langmuir</i> , 2011, 27, 2514-2521.	1.6	74
48	Optimization of the Bulk Heterojunction Composition for Enhanced Photovoltaic Properties: Correlation between the Molecular Weight of the Semiconducting Polymer and Device Performance. <i>Journal of Physical Chemistry B</i> , 2011, 115, 12717-12727.	1.2	55
49	The influence of directed $\pi$ - $\pi$ interactions in solution on the thin film organic semiconductor device properties of small molecule polymer blends. <i>Soft Matter</i> , 2011, 7, 7065.	1.2	14
50	Contact Mechanics of Nanometer-Scale Molecular Contacts: Correlation between Adhesion, Friction, and Hydrogen Bond Thermodynamics. <i>Journal of the American Chemical Society</i> , 2011, 133, 8625-8632.	6.6	30
51	Single Macromolecule Diffusion in Confined Environments. <i>Macromolecular Rapid Communications</i> , 2011, 32, 1411-1418.	2.0	7
52	Magnetic field dependence of the diffusion of single dextran molecules within a hydrogel containing magnetite nanoparticles. <i>Journal of Chemical Physics</i> , 2011, 134, 094901.	1.2	14
53	Quantitative evaluation of evaporation rate during spin-coating of polymer blend films: Control of film structure through defined-atmosphere solvent-casting. <i>European Physical Journal E</i> , 2010, 33, 283-289.	0.7	77
54	Adhesive and conformational behaviour of mycolic acid monolayers. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2010, 1798, 1829-1839.	1.4	14

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55	Observation of the complete rupture of a buried polymer layer by off-specular neutron reflectometry. <i>Europhysics Letters</i> , 2009, 86, 36005.	0.7	8
56	The Impact of Interfacial Mixing on Förster Transfer at Conjugated Polymer Heterojunctions. <i>Advanced Functional Materials</i> , 2009, 19, 157-163.	7.8	22
57	Synthesis, characterization and swelling behaviour of poly(methacrylic acid) brushes synthesized using atom transfer radical polymerization. <i>Polymer</i> , 2009, 50, 1005-1014.	1.8	76
58	Creation of dense polymer brush layers by the controlled deposition of an amphiphilic responsive comb polymer. <i>Polymer</i> , 2009, 50, 4829-4836.	1.8	14
59	Composition depth profiling of polystyrene/poly(vinyl ethyl ether) blend thin films by angle resolved XPS. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2009, 171, 57-63.	0.8	6
60	Directed Single Molecule Diffusion Triggered by Surface Energy Gradients. <i>ACS Nano</i> , 2009, 3, 3235-3243.	7.3	38
61	Organic Semiconductor-Polymer Insulator Blends: a Morphological Study of the Guest-Host Interactions. <i>E-Journal of Surface Science and Nanotechnology</i> , 2009, 7, 455-458.	0.1	3
62	Organic Thin Film Transistors with Polymer Brush Gate Dielectrics Synthesized by Atom Transfer Radical Polymerization. <i>Advanced Functional Materials</i> , 2008, 18, 36-43.	7.8	51
63	The interfacial behaviour of single poly(N,N-dimethylacrylamide) chains as a function of pH. <i>Nanotechnology</i> , 2008, 19, 035505.	1.3	12
64	Organic field effect transistors from ambient solution processed low molar mass semiconductor-insulator blends. <i>Journal of Materials Chemistry</i> , 2008, 18, 3230.	6.7	116
65	The polymer physics and chemistry of microbial cell attachment and adhesion. <i>Faraday Discussions</i> , 2008, 139, 85.	1.6	59
66	Control of roughness at interfaces and the impact on charge mobility in all-polymer field-effect transistors. <i>Soft Matter</i> , 2008, 4, 2220.	1.2	29
67	Conformation of Poly(methacrylic acid) Chains in Dilute Aqueous Solution. <i>Macromolecules</i> , 2008, 41, 2203-2211.	2.2	85
68	Switching Layer Stability in a Polymer Bilayer by Thickness Variation. <i>Physical Review Letters</i> , 2007, 98, 267802.	2.9	70
69	Generation of Molecular-Scale Compositional Gradients in Self-Assembled Monolayers. <i>Nano Letters</i> , 2007, 7, 3747-3752.	4.5	22
70	Thermally responsive polymeric hydrogel brushes: synthesis, physical properties and use for the culture of chondrocytes. <i>Journal of the Royal Society Interface</i> , 2007, 4, 117-126.	1.5	45
71	Controlling Network-Brush Interactions to Achieve Switchable Adhesion. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 6460-6463.	7.2	67
72	Avantages de la réflectométrie des neutrons pour l'étude des polymères en couches minces. <i>Revue de la Société Française de La Neutronique</i> , 2007, 12, 103-113.	0.2	1

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73	The pH-induced swelling and collapse of a polybase brush synthesized by atom transfer radical polymerization. <i>Soft Matter</i> , 2006, 2, 1076-1080.	1.2	53
74	Interfacial Structure in Conjugated Polymers:Â Characterization and Control of the Interface between Poly(9,9-dioctylfluorene) and Poly(9,9-dioctylfluorene-alt-benzothiadiazole). <i>Macromolecules</i> , 2006, 39, 6699-6707.	2.2	18
75	Controlled growth of poly (2-(diethylamino)ethyl methacrylate) brushes via atom transfer radical polymerisation on planar silicon surfaces. <i>Polymer International</i> , 2006, 55, 808-815.	1.6	24
76	Generic Methodologies for Nanotechnology: Classification and Fabrication. , 2005, , 1-55.		5
77	Processing and Properties of Inorganic Nanomaterials. , 2005, , 237-281.		1
78	Macromolecules at Interfaces and Structured Organic Films. , 2005, , 377-418.		1
79	Bionanotechnology. , 2005, , 419-445.		0
80	The interplay between the optical and electronic properties of light-emitting-diode applicable conjugated polymer blends and their phase-separated morphology. <i>Organic Electronics</i> , 2005, 6, 35-45.	1.4	53
81	Block copolymer adsorption from a homopolymer melt to an amine-terminated surface. <i>European Physical Journal E</i> , 2005, 18, 159-166.	0.7	7
82	Thin polymer films on chemically patterned, corrugated substrates. <i>Journal of Physics Condensed Matter</i> , 2005, 17, S389-S402.	0.7	19
83	Surface segregation and self-stratification in blends of spin-cast polyfluorene derivatives. <i>Journal of Physics Condensed Matter</i> , 2005, 17, 1319-1328.	0.7	51
84	Current-induced chain migration in semiconductor polymer blends. <i>Physical Review B</i> , 2005, 71, .	1.1	19
85	Inorganic Semiconductor Nanostructures. , 2005, , 130-202.		1
86	Nanomagnetic Materials and Devices. , 2005, , 203-236.		1
87	Electronic and Electro-Optic Molecular Materials and Devices. , 2005, , 282-342.		4
88	Self-Assembling Nanostructured Molecular Materials and Devices. , 2005, , 343-376.		2
89	Kinetics of Surface Crystallization in Thin Films of Poly(ethylene terephthalate). <i>Macromolecules</i> , 2005, 38, 2315-2320.	2.2	51
90	Responsive brushes and gels as components of soft nanotechnology. <i>Faraday Discussions</i> , 2005, 128, 55-74.	1.6	90

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91	Mechanical Actuation by Responsive Polyelectrolyte Brushes and Triblock Gels. Journal of Macromolecular Science - Physics, 2005, 44, 1103-1121.	0.4	28
92	Generic Methodologies for Nanotechnology: Characterization. , 2005, , 56-129.		1
93	Structural features in aligned poly(3-alkylthiophene) films revealed by grazing incidence X-ray diffraction. Polymer, 2004, 45, 4133-4138.	1.8	18
94	Controlling the Surface Composition of Poly(3,4-ethylene dioxythiophene)â€“Poly(styrene sulfonate) Blends by Heat Treatment. Advanced Materials, 2004, 16, 807-811.	11.1	52
95	Applications of grazing incidence diffraction to polymer surfaces. Radiation Physics and Chemistry, 2004, 71, 811-815.	1.4	10
96	Wetting at polymer surfaces and interfaces. Progress in Polymer Science, 2003, 28, 261-302.	11.8	392
97	Correlating structure with fluorescence emission in phase-separated conjugated-polymer blends. Nature Materials, 2003, 2, 616-621.	13.3	178
98	Block Copolymer Adsorption from a Homopolymer Melt to Silicon Oxide:â€‰ Effects of Nonadsorbing Block Length and Anchoring Blockâˆ™Substrate Interaction. Macromolecules, 2003, 36, 9897-9904.	2.2	28
99	Equilibrium Swelling of Polystyrene Networks by Linear Polystyrene. Macromolecules, 2003, 36, 127-141.	2.2	26
100	Interfacial structure in semiconducting polymer devices. Journal of Materials Chemistry, 2003, 13, 2814-2818.	6.7	50
101	A neutron reflectometry study of the interface between poly(9,9-dioctylfluorene) and poly(methyl) Tj ETQq1 1 0.784314 rgBT /Overlock	1.5	16
102	Scaling model for the anomalous swelling of polymer networks in a polymer solvent. Europhysics Letters, 2002, 57, 32-38.	0.7	13
103	Dewetting at a Polymerâˆ™Polymer Interface:Â Film Thickness Dependence. Langmuir, 2001, 17, 6269-6274.	1.6	81
104	Thermodynamic Suppression of Brownian Motion. Physical Review Letters, 2001, 86, 2581-2584.	2.9	2
105	Surface segregation from polystyrene networks. Journal of Physics Condensed Matter, 2000, 12, 5129-5142.	0.7	12
106	Wetting in a phase separating polymer blend film:â€‰fQuench depth dependence. Physical Review E, 2000, 62, 940-950.	0.8	60
107	Interdiffusion in blends of deuterated polystyrene and poly(Î±-methylstyrene). Polymer, 1999, 40, 2323-2329.	1.8	20
108	High resolution elastic recoil detection analysis of polystyrene depth profiles using carbon ions. Nuclear Instruments & Methods in Physics Research B, 1998, 143, 371-380.	0.6	12

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109	Tracer diffusion of deuterated polystyrene into polystyreneâ€“poly( $\hat{1}\pm$ -methyl styrene) studied by nuclear reaction analysis. <i>Polymer</i> , 1998, 39, 3623-3629.	1.8	7
110	Kinetics of Surface Segregation and the Approach to Wetting in an Isotopic Polymer Blend. <i>Macromolecules</i> , 1997, 30, 4220-4227.	2.2	34
111	Experimental study of surface segregation and wetting in films of a partially miscible polymer blend. <i>Physical Review E</i> , 1996, 53, 825-837.	0.8	32
112	The morphology of as-cast films of a polymer blend: Dependence on polymer molecular weight. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1995, 33, 1307-1311.	2.4	20
113	Surface directed spinodal decomposition in a partially miscible polymer blend. <i>Journal of Chemical Physics</i> , 1995, 103, 2719-2724.	1.2	60
114	Lamellar structure in a thin polymer blend film. <i>Polymer</i> , 1994, 35, 2019-2027.	1.8	57
115	Linear Polymers in Networks: Swelling, Diffusion, and Interdigitation. , 0, , 29-44.		2
116	The self assembly of polymer films. , 0, , 134-148.		0
117	Block Copolymers at Interfaces. , 0, , 275-290.		0