

Mark D Foster

List of Publications by Year in descending order

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172457

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52
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110
all docs

110
docs citations

110
times ranked

3204
citing authors

#	ARTICLE	IF	CITATIONS
1	Epoxy-Terminated Self-Assembled Monolayers: A Molecular Glues for Polymer Layers. <i>Langmuir</i> , 2000, 16, 504-516.	3.5	187
2	Photoresponsive Monolayers Containing In-Chain Azobenzene. <i>Langmuir</i> , 1996, 12, 5838-5844.	3.5	166
3	Grafting of Polypeptides on Solid Substrates by Initiation of N-Carboxyanhydride Polymerization by Amino-Terminated Self-Assembled Monolayers. <i>Langmuir</i> , 1997, 13, 723-728.	3.5	150
4	Nano-Raman spectroscopy with side-illumination optics. <i>Journal of Raman Spectroscopy</i> , 2005, 36, 1068-1075.	2.5	131
5	Synthesis and Characterization of Stimuli-Responsive Semifluorinated Polymer Brushes Prepared by Atom Transfer Radical Polymerization. <i>Macromolecules</i> , 2004, 37, 2790-2796.	4.8	120
6	Atomic Force Microscopy and X-ray Reflectivity Studies of Albumin Adsorbed onto Self-Assembled Monolayers of Hexadecyltrichlorosilane. <i>Langmuir</i> , 1998, 14, 4535-4544.	3.5	115
7	Synthesis, Characterization, and Properties of Polyelectrolyte Block Copolymer Brushes Prepared by Atom Transfer Radical Polymerization and Their Use in the Synthesis of Metal Nanoparticles. <i>Macromolecules</i> , 2003, 36, 9539-9548.	4.8	110
8	High contrast scanning nano-Raman spectroscopy of silicon. <i>Journal of Raman Spectroscopy</i> , 2007, 38, 789-796.	2.5	99
9	Structure of symmetric polyolefin block copolymer thin films. <i>Journal of Chemical Physics</i> , 1992, 96, 8605-8615.	3.0	87
10	Structure of Poly(ferrocenyldimethylsilane) in Electrospun Nanofibers. <i>Macromolecules</i> , 2001, 34, 6156-6158.	4.8	84
11	Highly Stable, Protected Plasmonic Nanostructures for Tip Enhanced Raman Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2009, 113, 8158-8161.	3.1	70
12	A Neutron Reflectometry Study of Human Serum Albumin Adsorption in Situ. <i>Langmuir</i> , 1996, 12, 2256-2262.	3.5	67
13	Ultrathin layers and supramolecular architecture of isopentylcellulose. <i>Macromolecules</i> , 1995, 28, 1221-1228.	4.8	64
14	X-Ray Scattering Methods for the Study of Polymer Interfaces. <i>Critical Reviews in Analytical Chemistry</i> , 1993, 24, 179-241.	3.5	60
15	Study of the Surface Adhesion of Pressure-Sensitive Adhesives by Atomic Force Microscopy and Spherical Indenter Tests. <i>Macromolecules</i> , 2000, 33, 1878-1881.	4.8	59
16	Thermoresponsive Behavior of Semifluorinated Polymer Brushes. <i>Macromolecules</i> , 2005, 38, 3263-3270.	4.8	59
17	Anionic Synthesis of Block Copolymer Brushes Grafted from a 1,1-Diphenylethylene Monolayer. <i>Macromolecules</i> , 2002, 35, 9964-9974.	4.8	51
18	Synthesis of Cyclic Polystyrenes Using Living Anionic Polymerization and Metathesis Ring-Closure. <i>Macromolecules</i> , 2011, 44, 7538-7545.	4.8	51

#	ARTICLE	IF	CITATIONS
19	Changes in Protein Adsorption on Self-Assembled Monolayers with Monolayer Order: A Comparison of Human Serum Albumin and Human Gamma Globulin. <i>Langmuir</i> , 2001, 17, 7645-7651.	3.5	43
20	Structure and Thermal Stability of Langmuir-Blodgett-Kuhn Layers of Hairy-Rod Polymers Probed with Neutron and X-ray Reflectometry. <i>Macromolecules</i> , 1994, 27, 6893-6902.	4.8	38
21	Anomalous Surface Relaxations of Branched-Polymer Melts. <i>Physical Review Letters</i> , 2013, 111, 068303.	7.8	38
22	Differentiation of Linear and Cyclic Polymer Architectures by MALDI Tandem Mass Spectrometry (MALDI-MS ²). <i>Journal of the American Society for Mass Spectrometry</i> , 2013, 24, 74-82.	2.8	38
23	Microindentation and Nanoindentation Studies of Aging in Pressure-Sensitive Adhesives. <i>Macromolecules</i> , 2001, 34, 2269-2276.	4.8	36
24	Effective χ and surface segregation in blends of star and linear polystyrene. <i>Macromolecular Symposia</i> , 2000, 149, 263-268.	0.7	34
25	Effect of Chain Topology on Ordered Structure in Block Copolymers: A Comparison of a Heteroarm A2B2Star with Its Linear Diblock Analog. <i>Macromolecules</i> , 1998, 31, 4372-4375.	4.8	33
26	Title is missing!. <i>Journal of Inorganic and Organometallic Polymers</i> , 1999, 9, 189-198.	1.5	33
27	Self-Organization of Polymer Brush Layers in a Poor Solvent. <i>Journal De Physique II</i> , 1995, 5, 1441-1456.	0.9	31
28	Confinement Effects with Molten Thin Cyclic Polystyrene Films. <i>ACS Macro Letters</i> , 2016, 5, 999-1003.	4.8	30
29	Variation in Tenacity of Protein Adsorption on Self-Assembled Monolayers with Monolayer Order As Observed by X-ray Reflectivity. <i>Langmuir</i> , 1997, 13, 1881-1883.	3.5	29
30	Effective interaction parameter between branched and linear polystyrene. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2001, 39, 2549-2561.	2.1	29
31	Influence of Humidity on Surface Behavior of Pressure Sensitive Adhesives Studied Using Scanning Probe Microscopy. <i>Langmuir</i> , 2002, 18, 8108-8115.	3.5	29
32	Detection of Surface Enrichment Driven by Molecular Weight Disparity in Virtually Monodisperse Polymers. <i>ACS Macro Letters</i> , 2018, 7, 487-492.	4.8	29
33	Stability and Modification of Polyglutamate Langmuir-Blodgett Bilayer Films. <i>Macromolecules</i> , 1994, 27, 1274-1280.	4.8	28
34	Probing Surface Concentration of Cyclic/Linear Blend Films Using Surface Layer MALDI-TOF Mass Spectrometry. <i>ACS Macro Letters</i> , 2012, 1, 1024-1027.	4.8	28
35	Neutron and X-ray Reflectivity Studies of Human Serum Albumin Adsorption onto Functionalized Surfaces of Self-Assembled Monolayers. <i>Biotechnology Progress</i> , 1997, 13, 635-639.	2.6	27
36	The Role of Specific Binding in Human Serum Albumin Adsorption to Self-Assembled Monolayers. <i>Langmuir</i> , 2002, 18, 557-561.	3.5	27

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37	Synthesis and Characterization of Well-Defined, Regularly Branched Polystyrenes Utilizing Multifunctional Initiators. <i>Macromolecules</i> , 2005, 38, 5381-5392.	4.8	27
38	Morphology of Langmuir-Blodgett films from polyglutamate observed by atomic force microscopy. <i>Langmuir</i> , 1993, 9, 3538-3547.	3.5	26
39	Nonuniversal Behavior of the Thermodynamic Interaction Parameter in Blends of Star and Linear Polybutadiene. <i>Macromolecules</i> , 2002, 35, 9763-9772.	4.8	25
40	Effects of Branch Points and Chain Ends on the Thermodynamic Interaction Parameter in Binary Blends of Regularly Branched and Linear Polymers. <i>Macromolecules</i> , 2006, 39, 5113-5121.	4.8	25
41	Surface Dynamics of "Dry" Homopolymer Brushes. <i>Macromolecules</i> , 2009, 42, 737-741.	4.8	25
42	Effect of Flow on Human Serum Albumin Adsorption to Self-Assembled Monolayers of Varying Packing Density. <i>Langmuir</i> , 2003, 19, 5464-5474.	3.5	24
43	Synthesis of 4-, 8-, 12-arm star-branched polybutadienes with three different chain-end functionalities using a functionalized initiator. <i>Polymer</i> , 2004, 45, 873-880.	3.8	24
44	Protecting TERS probes from degradation: extending mechanical and chemical stability. <i>Journal of Raman Spectroscopy</i> , 2013, 44, 710-716.	2.5	24
45	Surface segregation driven by molecular architecture asymmetry in polymer blends. <i>Physical Review Letters</i> , 2014, 113, 225702.	7.8	24
46	Self-Diffusion of "Hairy Rod" Molecules in Langmuir-Blodgett-Kuhn Multilayers Probed with Neutron and X-ray Reflectometry. <i>Langmuir</i> , 1994, 10, 3820-3826.	3.5	23
47	Glass Transition Behavior of Polystyrene Blocks in the Cores of Collapsed Dry Micelles Tethered by Poly(Dimethylsiloxane) Coronae in a PS-b-PDMS Diblock Copolymer. <i>Chemistry of Materials</i> , 2003, 15, 2129-2135.	6.7	23
48	Tip-induced heating in apertureless near-field optics. <i>Journal of Raman Spectroscopy</i> , 2009, 40, 1349-1354.	2.5	23
49	Dynamics of Surface Fluctuations on Macrocyclic Melts. <i>Macromolecules</i> , 2012, 45, 6210-6219.	4.8	22
50	Precision Synthesis of β -Branch, End-Functionalized Comb Polystyrenes Using Living Anionic Polymerization and Thiol-ene "Click" Chemistry. <i>Macromolecules</i> , 2012, 45, 9233-9242.	4.8	22
51	Influence of molecular architecture on fast and segmental dynamics and the glass transition in polybutadiene. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2002, 40, 2431-2439.	2.1	21
52	Prolonged Blinking with TERS Probes. <i>Journal of Physical Chemistry C</i> , 2011, 115, 8900-8905.	3.1	20
53	Competitive adsorption of human serum albumin and gamma-globulin from a binary protein mixture onto hexadecyltrichlorosilane coated glass. <i>Journal of Biomaterials Science, Polymer Edition</i> , 1998, 9, 151-161.	3.5	19
54	Polymer Film Surface Fluctuation Dynamics in the Limit of Very Dense Branching. <i>Macromolecules</i> , 2013, 46, 3190-3197.	4.8	18

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55	Supramolecular Elastomers. Particulate \hat{I}^2 -Sheet Nanocrystal-Reinforced Synthetic Elastic Networks. <i>Macromolecules</i> , 2016, 49, 2688-2697.	4.8	18
56	Near Surface Nanomechanical Behavior of Pressure-Sensitive Adhesives Using Lateral Modulation Scanning Probe Microscopy. <i>Langmuir</i> , 2002, 18, 1865-1871.	3.5	17
57	Scanning probe microscopy study of dynamic adhesion behavior of polymer adhesive blends. <i>Polymer</i> , 2004, 45, 5951-5959.	3.8	17
58	RAGE Signaling Significantly Impacts Tumorigenesis and Hepatic Tumor Growth in Murine Models of Colorectal Carcinoma. <i>Journal of Gastrointestinal Surgery</i> , 2010, 14, 1680-1690.	1.7	17
59	Stability of Cadmium Arachidate Langmuir-Blodgett Multilayers as Determined by Neutron and X-ray Reflectivity. <i>Langmuir</i> , 1996, 12, 5156-5164.	3.5	16
60	Architecture-driven thermodynamic interactions in blends of star-branched and linear poly(methyl) Tj ETQq0 0 0 rgBT/Overlock 10 Tf 50	2.1	16
61	Tunable, Liquid Resistant Tip Enhanced Raman Spectroscopy Probes: Toward Label-Free Nano-Resolved Imaging of Biological Systems. <i>Langmuir</i> , 2017, 33, 7818-7825.	3.5	16
62	Surface Layer Matrix-Assisted Laser Desorption Ionization Mass Spectrometry Imaging: A Surface Imaging Technique for the Molecular-Level Analysis of Synthetic Material Surfaces. <i>Analytical Chemistry</i> , 2018, 90, 13427-13433.	6.5	15
63	Influence of Silane Coupling Agents on Filler Network Structure and Stress-Induced Particle Rearrangement in Elastomer Nanocomposites. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 47891-47901.	8.0	15
64	Monolayers of Perfluoropolyethers with a Hydrophilic Head Group. <i>Langmuir</i> , 1994, 10, 4209-4218.	3.5	14
65	Temperature-Dependent Behavior of Langmuir Monolayers of Octadecyl-Substituted Preformed Polyimides. <i>Langmuir</i> , 2000, 16, 9792-9796.	3.5	13
66	Interface structure of photonic multilayers prepared by plasma enhanced chemical vapor deposition. <i>Polymer</i> , 2004, 45, 3175-3184.	3.8	13
67	Internal Structure of Ultrathin Diblock Copolymer Brushes. <i>Macromolecules</i> , 2009, 42, 8411-8422.	4.8	13
68	Scaling Behavior and Segment Concentration Profile of Densely Grafted Polymer Brushes Swollen in Vapor. <i>Langmuir</i> , 2016, 32, 5623-5628.	3.5	13
69	Synthesis and Characterization of Phenol- and Chlorophenol-Terminated Monolayers. <i>Langmuir</i> , 1999, 15, 6856-6861.	3.5	12
70	Thermodynamic interaction parameter of star-star polybutadiene blends. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2003, 41, 247-257.	2.1	12
71	Effect of Butadiene End-Capping of Arms in a Star Polystyrene on Solution Properties, Bulk Dynamics, and Bulk Thermodynamic Interactions in Binary Blends. <i>Macromolecules</i> , 2004, 37, 10199-10204.	4.8	12
72	<i>In Situ</i> Nanoscale Characterization of Water Penetration through Plasma Polymerized Coatings. <i>Langmuir</i> , 2018, 34, 9634-9644.	3.5	12

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73	Extending lifetime of plasmonic silver structures designed for high-resolution chemical imaging or chemical and biological sensing. , 2008, , .		11
74	Evidence and Limits of Universal Topological Surface Segregation of Cyclic Polymers. Physical Review Letters, 2017, 118, 167801.	7.8	11
75	Proximity to Graphene Dramatically Alters Polymer Dynamics. Macromolecules, 2019, 52, 5074-5085.	4.8	11
76	Structural Study of Monolayers of Alkyl Side Chain Substituted Poly(ferrocenylsilane). Langmuir, 1998, 14, 3921-3925.	3.5	10
77	Aging of Model Pressure Sensitive Adhesives Studied with Scanning Probe Microscopy. Journal of Adhesion, 2001, 75, 145-160.	3.0	10
78	Self-Affine Surfaces of Polymer Brushes. Macromolecules, 2007, 40, 6361-6369.	4.8	10
79	Effect of tethering on the surface dynamics of a thin polymer melt layer. Soft Matter, 2016, 12, 5372-5377.	2.7	10
80	Efficient synthesis of well-defined cyclic polystyrenes using anionic polymerization, silicon chloride linking chemistry and metathesis ring closure. Polymer Chemistry, 2016, 7, 5840-5848.	3.9	10
81	Synthesis and Isomeric Characterization of Well-Defined 8-Shaped Polystyrene Using Anionic Polymerization, Silicon Chloride Linking Chemistry, and Metathesis Ring Closure. Macromolecules, 2017, 50, 5779-5789.	4.8	10
82	Modifying Surface Fluctuations of Polymer Melt Films with Substrate Modification. ACS Macro Letters, 2017, 6, 915-919.	4.8	10
83	Anomalous Confinement Slows Surface Fluctuations of Star Polymer Melt Films. ACS Macro Letters, 2018, 7, 834-839.	4.8	10
84	Thin Plasma-Polymerized Coatings as a Primer with Polyurethane Topcoat for Improved Corrosion Resistance. Langmuir, 2020, 36, 837-843.	3.5	10
85	Mobility of a tackifying resin in a pressure-sensitive adhesive. Journal of Polymer Science, Part B: Polymer Physics, 1998, 36, 373-381.	2.1	9
86	Variations in cross-link density with deposition pressure in ultrathin plasma polymerized benzene and octafluorocyclobutane films. Polymer, 2010, 51, 4390-4397.	3.8	9
87	Identification of individual isotopes in a polymer blend using tip enhanced Raman spectroscopy. Journal of Raman Spectroscopy, 2015, 46, 447-450.	2.5	9
88	Surface Fluctuations of Polymer Brushes Swollen in Good Solvent Vapor. Macromolecules, 2016, 49, 7308-7313.	4.8	9
89	Interface Roughness Correlation in Diblock Copolymer Brushes Synthesized by Atom Transfer Radical Polymerization. Macromolecules, 2005, 38, 8614-8616.	4.8	8
90	Subtle End Group Functionalization of Polymer Chains Drives Surface Depletion of Entire Polymer Chains. ACS Macro Letters, 2018, 7, 795-800.	4.8	8

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91	Structure of copolymer films created by plasma enhanced chemical vapor deposition. <i>Polymer</i> , 2010, 51, 3971-3977.	3.8	7
92	Manipulation of Polymer/Polymer Interface Width from Nonequilibrium Deposition. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 2976-2984.	8.0	7
93	Synthesis and Characterization of Well-Defined, Tadpole-Shaped Polystyrene with a Single Atom Junction Point. <i>Macromolecules</i> , 2018, 51, 9509-9518.	4.8	7
94	Temporal Stability of a Bilayer in a Langmuir-Blodgett Multilayer and Its Dependence on Multilayer Structure. <i>Langmuir</i> , 1996, 12, 3015-3023.	3.5	6
95	Ultrathin Polyimide Films from Preformed Polymers. <i>Langmuir</i> , 1997, 13, 3202-3205.	3.5	6
96	A New Methodology for the Synthesis of Star Polymers Utilizing the Reaction of Living Polymers with Alkoxysilyl-Functionalized Polymers. <i>Macromolecules</i> , 2004, 37, 6385-6394.	4.8	6
97	Structure and Stability of Two-Component Langmuir-Blodgett Multilayers Containing Cadmium Arachidate and Polyglutamate Determined by Reflectivity. <i>Langmuir</i> , 1997, 13, 1712-1717.	3.5	5
98	Surface fluctuations of polymer brushes probed by diffuse X-ray scattering. <i>Polymer</i> , 2005, 46, 2331-2337.	3.8	5
99	Control of Interface Nanoscale Structure Created by Plasma-Enhanced Chemical Vapor Deposition. <i>ACS Applied Materials & Interfaces</i> , 2011, 3, 3375-3383.	8.0	5
100	Extending nanoscale spectroscopy with titanium nitride probes. <i>Journal of Raman Spectroscopy</i> , 2016, 47, 1332-1336.	2.5	5
101	Resolving lateral variations in the frequency dependence of adhesive properties at the surface of a model pressure sensitive adhesive. <i>Journal of Applied Polymer Science</i> , 2002, 84, 400-404.	2.6	4
102	Surfactant displacement of human serum albumin adsorbed on loosely packed self-assembled monolayers: cetyltrimethylammonium bromide versus sodium dodecyl sulfate. <i>Journal of Colloid and Interface Science</i> , 2003, 261, 273-282.	9.4	4
103	The effect of fluorosurfactant, copolymer latex, and cross-linker on the surface properties of floor polishes: An investigation using AFM with adhesion mapping. <i>Progress in Organic Coatings</i> , 2013, 76, 1279-1287.	3.9	4
104	Altering surface fluctuations by blending tethered and untethered chains. <i>Soft Matter</i> , 2017, 13, 8264-8270.	2.7	3
105	Following the Morphological Disruption by an Electrolyte of a Buried Interface. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 3555-3564.	8.0	3
106	Design of Interfacial Crowding for Elastomeric Reinforcement with Nanocrystals. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 10349-10358.	8.0	3
107	X-modulation: Instrumentation and optimization. <i>Scanning</i> , 2005, 27, 44-48.	1.5	1
108	Robust probes for high resolution chemical detection and imaging. <i>Proceedings of SPIE</i> , 2012, , .	0.8	1

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109	Structure and stability of Langmuir-Blodgett-Kuhn multilayers containing α -hairy-rod copolymers. <i>Macromolecular Symposia</i> , 1994, 87, 35-43.	0.7	0
110	Effect of RAGE signaling on colorectal liver metastases. <i>Journal of the American College of Surgeons</i> , 2007, 205, S88-S89.	0.5	0