

John F Ankner

List of Publications by Year in descending order

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73
papers

3,190
citations

186265

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155660

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78
all docs

78
docs citations

78
times ranked

3904
citing authors

#	ARTICLE	IF	CITATIONS
1	SMART transfer method to directly compare the mechanical response of water-supported and free-standing ultrathin polymeric films. <i>Nature Communications</i> , 2021, 12, 2347.	12.8	30
2	Dynamics and Self-Healing of Layer-by-Layer Hydrogen-Bonded Films of Linear Synthetic Polyphenols. <i>Macromolecules</i> , 2021, 54, 7469-7479.	4.8	6
3	Architecture of Hydrated Multilayer Poly(methacrylic acid) Hydrogels: The Effect of Solution pH. <i>ACS Applied Polymer Materials</i> , 2020, 2, 2260-2273.	4.4	7
4	X-ray and Neutron Reflectivity Studies of Styrene-Maleic Acid Copolymer Interactions with Galactolipid-Containing Monolayers. <i>Langmuir</i> , 2020, 36, 3970-3980.	3.5	10
5	Capacitance of thin films containing polymerized ionic liquids. <i>Science Advances</i> , 2020, 6, eaba7952.	10.3	12
6	Layer-by-Layer Hydrogen-Bonded Antioxidant Films of Linear Synthetic Polyphenols. <i>Macromolecules</i> , 2020, 53, 1033-1042.	4.8	15
7	Effect of a Competitive Solvent on Binding Enthalpy and Chain Intermixing in Hydrogen-Bonded Layer-by-Layer Films. <i>Macromolecules</i> , 2019, 52, 4432-4440.	4.8	19
8	Biocompatible Nanocoatings of Fluorinated Polyphosphazenes through Aqueous Assembly. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 9756-9764.	8.0	28
9	Ion distribution in dry polyelectrolyte multilayers: a neutron reflectometry study. <i>Soft Matter</i> , 2018, 14, 1699-1708.	2.7	32
10	Ionically Paired Layer-by-Layer Hydrogels: Water and Polyelectrolyte Uptake Controlled by Deposition Time. <i>Gels</i> , 2018, 4, 7.	4.5	13
11	Tunable Compartmentalized Morphologies of Multilayered Dual Responsive Star Block Polyampholytes. <i>Macromolecules</i> , 2018, 51, 4800-4812.	4.8	16
12	Assessing Chemical Transformation of Reactive, Interfacial Thin Films Made of End-Tethered Poly(2-vinyl-4,4-dimethyl azlactone) (PVDMA) Chains. <i>Macromolecules</i> , 2017, 50, 618-630.	4.8	15
13	Nonlinear Layer-by-Layer Films: Effects of Chain Diffusivity on Film Structure and Swelling. <i>Macromolecules</i> , 2017, 50, 6192-6201.	4.8	33
14	Monomer volume fraction profiles in pH responsive planar polyelectrolyte brushes. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2016, 54, 956-964.	2.1	28
15	Stratified Temperature-Responsive Multilayer Hydrogels of Poly(<i>N</i> -vinylpyrrolidone) and Poly(<i>N</i> -vinylcaprolactam): Effect of Hydrogel Architecture on Properties. <i>Macromolecules</i> , 2016, 49, 6953-6964.	4.8	27
16	Swelling Behavior and Nanomechanical Properties of (Peptide-Modified) Poly(2-hydroxyethyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 147 4609-4618.	4.8	19
17	Petascale Simulations of the Morphology and the Molecular Interface of Bulk Heterojunctions. <i>ACS Nano</i> , 2016, 10, 7008-7022.	14.6	25
18	Polythiophene Thin Films by Surface-Initiated Polymerization: Mechanistic and Structural Studies. <i>Chemistry of Materials</i> , 2016, 28, 4787-4804.	6.7	23

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19	Bimorph Silk Microsheets with Programmable Actuating Behavior: Experimental Analysis and Computer Simulations. ACS Applied Materials & Interfaces, 2016, 8, 17694-17706.	8.0	21
20	Thermoresponsive PNIPAM Coatings on Nanostructured Gratings for Cell Alignment and Release. ACS Applied Materials & Interfaces, 2015, 7, 11857-11862.	8.0	25
21	Microphase separation in thin films of lamellar forming polydisperse di-block copolymers. RSC Advances, 2015, 5, 21336-21348.	3.6	19
22	Diffusional Response of Layer-by-Layer Assembled Polyelectrolyte Chains to Salt Annealing. Macromolecules, 2015, 48, 3983-3990.	4.8	48
23	Chain Conformation and Dynamics in Spin-Assisted Weak Polyelectrolyte Multilayers. Langmuir, 2015, 31, 3889-3896.	3.5	23
24	Controlling Internal Organization of Multilayer Poly(methacrylic acid) Hydrogels with Polymer Molecular Weight. Macromolecules, 2015, 48, 8585-8593.	4.8	18
25	Thin Film Phase Behavior of Bottlebrush/Linear Polymer Blends. Macromolecules, 2014, 47, 5269-5276.	4.8	47
26	Molecular Weight Dependence of Polymer Chain Mobility within Multilayer Films. ACS Macro Letters, 2013, 2, 865-868.	4.8	93
27	Selective water uptake within micelle-containing layer-by-layer films of various architectures: a neutron reflectometry study. Soft Matter, 2013, 9, 410-417.	2.7	14
28	Tailoring Architecture of Nanothin Hydrogels: Effect of Layering on pH-Triggered Swelling. ACS Macro Letters, 2013, 2, 226-229.	4.8	28
29	Neutron Scattering Techniques and Applications in Structural Biology. Current Protocols in Protein Science, 2013, 72, Unit17.16.	2.8	18
30	Hydration in Weak Polyelectrolyte Brushes. ACS Macro Letters, 2013, 2, 398-402.	4.8	27
31	Adsorption of α -Synuclein to Supported Lipid Bilayers: Positioning and Role of Electrostatics. ACS Chemical Neuroscience, 2013, 4, 1339-1351.	3.5	82
32	High-pressure cell for neutron reflectometry of supercritical and subcritical fluids at solid interfaces. Review of Scientific Instruments, 2012, 83, 045108.	1.3	6
33	Manipulating Interfaces through Surface Confinement of Poly(glycidyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 187 Td (methacryl) Macromolecules, 2012, 45, 6438-6449.	4.8	39
34	“Old wine in new wineskins:” Upgrading the liquids reflectometer instrument user control software at the Spallation Neutron Source. , 2012, , .		0
35	Anisotropic Diffusion of Polyelectrolyte Chains within Multilayer Films. ACS Macro Letters, 2012, 1, 127-130.	4.8	44
36	Time-of-flight Bragg scattering from aligned stacks of lipid bilayers using the Liquids Reflectometer at the Spallation Neutron Source. Journal of Applied Crystallography, 2012, 45, 1219-1227.	4.5	9

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37	Linear versus Exponential Growth of Weak Polyelectrolyte Multilayers: Correlation with Polyelectrolyte Complexes. <i>Macromolecules</i> , 2012, 45, 3892-3901.	4.8	71
38	Interaction of Silica Nanoparticles with a Flat Silica Surface through Neutron Reflectometry. <i>Environmental Science & Technology</i> , 2012, 46, 4532-4538.	10.0	3
39	Silk Layering As Studied with Neutron Reflectivity. <i>Langmuir</i> , 2012, 28, 11481-11489.	3.5	15
40	Neutron reflectivity as a tool to understand polyelectrolyte brushes. <i>Current Opinion in Colloid and Interface Science</i> , 2012, 17, 83-89.	7.4	23
41	Localized entrapment of green fluorescent protein within nanostructured polymer films. <i>Soft Matter</i> , 2011, 7, 11453.	2.7	9
42	Steric Effects in Ionic Pairing and Polyelectrolyte Interdiffusion within Multilayered Films: A Neutron Reflectometry Study. <i>Macromolecules</i> , 2011, 44, 6518-6524.	4.8	55
43	Assembly and Characterization of Well-Defined High-Molecular-Weight Poly(<i>p</i> -phenylene) Polymer Brushes. <i>Chemistry of Materials</i> , 2011, 23, 4367-4374.	6.7	12
44	Neutron Reflectometry and QCM-D Study of the Interaction of Cellulases with Films of Amorphous Cellulose. <i>Biomacromolecules</i> , 2011, 12, 2216-2224.	5.4	43
45	Versatility of Alkyne-Modified Poly(Glycidyl Methacrylate) Layers for Click Reactions. <i>Langmuir</i> , 2011, 27, 5986-5996.	3.5	44
46	Depletion at solid/liquid interfaces: Flowing hexadecane on functionalized surfaces. <i>Journal of Chemical Physics</i> , 2011, 134, 064711.	3.0	22
47	SXNS-11. <i>Synchrotron Radiation News</i> , 2010, 23, 2-5.	0.8	0
48	Time-Resolved High Resolution Neutron Imaging Studies at the ORNL Spallation Neutron Source. <i>IEEE Transactions on Nuclear Science</i> , 2009, 56, 2493-2498.	2.0	4
49	Spin-Assisted Layer-by-Layer Assembly: Variation of Stratification as Studied with Neutron Reflectivity. <i>Langmuir</i> , 2009, 25, 14017-14024.	3.5	97
50	Dilute Solution Properties and Surface Attachment of RAFT Polymerized 2-Vinyl-4,4-dimethyl Azlactone (VDMA). <i>Macromolecules</i> , 2009, 42, 9018-9026.	4.8	46
51	Hydrogen-Bonded Polymer Multilayers Probed by Neutron Reflectivity. <i>Langmuir</i> , 2008, 24, 11346-11349.	3.5	66
52	Detergent-Associated Solution Conformations of Helical and β -Barrel Membrane Proteins. <i>Journal of Physical Chemistry B</i> , 2008, 112, 13349-13354.	2.6	14
53	pH-Induced Release of Polyanions from Multilayer Films. <i>Physical Review Letters</i> , 2008, 100, 128303.	7.8	51
54	Time-dependent measurements at the SNS liquids reflectometer. <i>Physica B: Condensed Matter</i> , 2003, 336, 68-74.	2.7	2

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55	Applications of Neutron Reflectivity Measurements to Nanoscience: Thin Films and Interfaces. MRS Bulletin, 2003, 28, 918-922.	3.5	6
56	Optical design of the SNS liquids reflectometer. , 2002, , .		1
57	Crosslinked polydimethylsiloxane exposed to oxygen plasma studied by neutron reflectometry and other surface specific techniques. Polymer, 2000, 41, 6851-6863.	3.8	437
58	Use of advanced optics in a neutron liquids reflectometer. Physica B: Condensed Matter, 2000, 283, 253-255.	2.7	2
59	Polarized-neutron reflectometry. Journal of Magnetism and Magnetic Materials, 1999, 200, 741-754.	2.3	144
60	Ordering in Blends of Diblock Copolymers. Macromolecules, 1998, 31, 3498-3508.	4.8	51
61	Selectively Swollen Films of Triblock/Diblock Copolymer Blends: Dependence of Swollen Film Structure on Blend Composition. Macromolecules, 1998, 31, 4908-4914.	4.8	10
62	Creation of Stable Poly(ethylene oxide) Surfaces on Poly(methyl methacrylate) Using Blends of Branched and Linear Polymers. Macromolecules, 1997, 30, 6947-6956.	4.8	91
63	Confinement-Induced Morphological Changes in Diblock Copolymer Films. Langmuir, 1996, 12, 6681-6690.	3.5	95
64	Compatibilization of Polymer Blends by Complexation. 2. Kinetics of Interfacial Mixing. Macromolecules, 1996, 29, 3918-3924.	4.8	29
65	Surface Modification via Chain End Segregation in Polymer Blends. Macromolecules, 1996, 29, 3982-3990.	4.8	120
66	A Monte Carlo Simulation of Asymmetric Random Copolymers at an Immiscible Interface. Macromolecules, 1996, 29, 4120-4124.	4.8	13
67	Homopolymer Interfaces Reinforced with Random Copolymers. Macromolecules, 1996, 29, 5493-5496.	4.8	84
68	Noncollinear and collinear magnetic structures in exchange coupled Fe/Cr(001) superlattices. Physical Review B, 1995, 52, 16066-16085.	3.2	136
69	Direct Observation of Non-Collinear Spin Structures in Fe/Cr(001) Superlattices. Europhysics Letters, 1995, 32, 595-600.	2.0	68
70	Long-range magnetic order in Fe ₃ O ₄ /NiO superlattices. Physical Review B, 1995, 51, 8276-8286.	3.2	62
71	Neutron Reflectivity Study of the Density Profile of a Model End-Grafted Polymer Brush: Influence of Solvent Quality. Physical Review Letters, 1994, 73, 3407-3410.	7.8	194
72	Oscillatory exchange coupling in Co/Cu(111) superlattices. Physical Review B, 1993, 47, 15334-15337.	3.2	89

#	ARTICLE	IF	CITATIONS
73	<title>Subsurface profile refinement for neutron specular reflectivity (Invited Paper)</title> . , 1992, , .		60