

Jeffrey T Koberstein

List of Publications by Year in descending order

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papers

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citations

147801

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63
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63
docs citations

63
times ranked

4743
citing authors

#	ARTICLE	IF	CITATIONS
1	Toward the Syntheses of Universal Ligands for Metal Oxide Surfaces: Controlling Surface Functionality through Click Chemistry. <i>Journal of the American Chemical Society</i> , 2006, 128, 11356-11357.	13.7	330
2	Quantitative Analysis of Copper Oxide Nanoparticle Composition and Structure by X-ray Photoelectron Spectroscopy. <i>Chemistry of Materials</i> , 2006, 18, 6054-6058.	6.7	306
3	Construction of Linear Polymers, Dendrimers, Networks, and Other Polymeric Architectures by Copper-Catalyzed Azide-Alkyne Cycloaddition "Click" Chemistry. <i>Macromolecular Rapid Communications</i> , 2008, 29, 1052-1072.	3.9	302
4	Compatibilizing effect of block copolymers added to the polymer/polymer interface. <i>Macromolecules</i> , 1989, 22, 1449-1453.	4.8	282
5	Preferential surface adsorption in miscible blends of polystyrene and poly(vinyl methyl ether). <i>Macromolecules</i> , 1988, 21, 2166-2175.	4.8	268
6	Synthesis of Degradable Model Networks via ATRP and Click Chemistry. <i>Journal of the American Chemical Society</i> , 2006, 128, 6564-6565.	13.7	214
7	Molecular design of functional polymer surfaces. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2004, 42, 2942-2956.	2.1	176
8	Copper-free click chemistry for the in situ crosslinking of photodegradable star polymers. <i>Chemical Communications</i> , 2008, , 3064.	4.1	169
9	Synthesis of Photocleavable Linear Macromonomers by ATRP and Star Macromonomers by a Tandem ATRP-Click Reaction: Precursors to Photodegradable Model Networks. <i>Macromolecules</i> , 2007, 40, 3589-3598.	4.8	148
10	Molecular weight dependence and end-group effects on the surface tension of poly(dimethylsiloxane). <i>Macromolecules</i> , 1993, 26, 3069-3074.	4.8	135
11	Interfacial Tension Reduction in Polystyrene/Poly(dimethylsiloxane) Blends by the Addition of Poly(styrene- <i>b</i> -dimethylsiloxane). <i>Macromolecules</i> , 1995, 28, 5209-5214.	4.8	112
12	Photogenerated glycan arrays identify immunogenic sugar moieties of <i>Bacillus anthracis</i> exosporium. <i>Proteomics</i> , 2007, 7, 180-184.	2.2	98
13	Photochemical Micropatterning of Carbohydrates on a Surface. <i>Langmuir</i> , 2006, 22, 2899-2905.	3.5	97
14	End Group Effects on Surface Properties of Polymers: Semiempirical Calculations and Comparison to Experimental Surface Tensions for 1,1'-Functional Poly(dimethylsiloxanes). <i>Macromolecules</i> , 1997, 30, 4481-4490.	4.8	88
15	Photoactive Additives for Cross-Linking Polymer Films: Inhibition of Dewetting in Thin Polymer Films. <i>Langmuir</i> , 2006, 22, 7748-7754.	3.5	68
16	Preventing Alkyne-Alkyne (i.e., Glaser) Coupling Associated with the ATRP Synthesis of Alkyne-Functional Polymers/Macromonomers and for Alkynes under Click (i.e., CuAAC) Reaction Conditions. <i>Journal of the American Chemical Society</i> , 2017, 139, 3756-3766.	13.7	67
17	Effects of Low-Energy End Groups on the Dewetting Dynamics of Poly(styrene) Films on Poly(methyl Tj ETQq1 1 0.784314 rgBT /Overlo	4.8	59
18	Surface energy and surface composition of end-fluorinated polystyrene. <i>Advances in Colloid and Interface Science</i> , 2001, 94, 1-19.	14.7	59

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19	Measurement and Modeling of End Group Concentration Depth Profiles for 100% Fluorosilane Polystyrene and Its Blends. <i>Macromolecules</i> , 2003, 36, 2956-2966.	4.8	57
20	Enhanced Performance of Si MIS Photocathodes Containing Oxide-Coated Nanoparticle Electrocatalysts. <i>Nano Letters</i> , 2016, 16, 6452-6459.	9.1	55
21	End Group Effects on Monolayers of Functionally-Terminated Poly(dimethylsiloxanes) at the Air-Water Interface. <i>Langmuir</i> , 1994, 10, 1857-1864.	3.5	54
22	Optimal Chain Architectures for the Molecular Design of Functional Polymer Surfaces. <i>Macromolecules</i> , 2003, 36, 771-781.	4.8	50
23	Study of blend membranes consisting of NafionR and vinylidene fluoride-hexafluoropropylene copolymer. <i>Journal of Applied Polymer Science</i> , 1998, 70, 121-127.	2.6	47
24	Morphology of Immiscible Polymer Blend Thin Films Prepared by Spin-Coating. <i>Macromolecules</i> , 2004, 37, 5671-5681.	4.8	40
25	“Click-Functional” Block Copolymers Provide Precise Surface Functionality via Spin Coating. <i>Langmuir</i> , 2008, 24, 7450-7456.	3.5	40
26	Shedding light on surfaces—using photons to transform and pattern material surfaces. <i>Soft Matter</i> , 2009, 5, 36-50.	2.7	36
27	Polyacetals: Water-Soluble, pH-Degradable Polymers with Extraordinary Temperature Response. <i>Macromolecules</i> , 2016, 49, 1858-1864.	4.8	35
28	The effect of end groups on thermodynamics of immiscible polymer blends. 1. Interfacial tension. <i>Macromolecules</i> , 1993, 26, 4172-4178.	4.8	34
29	Surface and Interface Modification of Polymers. <i>MRS Bulletin</i> , 1996, 21, 19-23.	3.5	33
30	Patterning dewetting in thin polymer films by spatially directed photocrosslinking. <i>Journal of Colloid and Interface Science</i> , 2010, 351, 556-560.	9.4	33
31	Segregation Dynamics of Block Copolymers to Immiscible Polymer Blend Interfaces. <i>Macromolecules</i> , 2000, 33, 5245-5251.	4.8	32
32	Toward a Universal Method To Pattern Metals on a Polymer. <i>Chemistry of Materials</i> , 2008, 20, 6583-6585.	6.7	32
33	Kinetics and Mechanisms of Radical-Based Branching/Cross-Linking Reactions in Preformed Polymers Induced by Benzophenone and Bis-Benzophenone Photoinitiators. <i>Macromolecules</i> , 2013, 46, 5434-5444.	4.8	30
34	Spin-On End-Functional Diblock Copolymers for Quantitative DNA Immobilization. <i>Biomacromolecules</i> , 2008, 9, 2345-2352.	5.4	28
35	Surface Dynamics of Polymer Glasses: Sub-T _g Surface Reorganization in End-Functional Polymers. <i>Macromolecules</i> , 2012, 45, 7973-7984.	4.8	24
36	The effect of end groups on thermodynamics of immiscible polymer blends. 2. Cloud point curves. <i>Polymer</i> , 2001, 42, 9163-9172.	3.8	22

#	ARTICLE	IF	CITATIONS
37	Title is missing!. Journal of Materials Science, 2003, 11, 211-223.	1.2	22
38	Photons to illuminate the universe of sugar diversity through bioarrays. Glycoconjugate Journal, 2008, 25, 5-10.	2.7	22
39	Mixed Silane Monolayers for Controlling the Surface Areal Density of Click-Reactive Alkyne Groups: A Method to Assess Preferential Surface Adsorption on Flat Substrates and a Method to Verify Compositional Homogeneity on Nanoparticles. Langmuir, 2013, 29, 11959-11965.	3.5	20
40	Effect of Chain Architecture on Surface Segregation in Functional Polymers: Synthesis and Surface Properties of End- and Center-Functional Poly(D,L-lactide). Macromolecules, 2007, 40, 1604-1614.	4.8	19
41	Photogeneration of gelatinous networks from pre-existing polymers. Journal of Applied Polymer Science, 2011, 122, 168-174.	2.6	19
42	How good is CuAAC click chemistry for polymer coupling reactions?. Journal of Polymer Science Part A, 2018, 56, 75-84.	2.3	19
43	The effects of end groups on thermodynamics of polymer blends III LCST phase diagrams. Polymer, 2002, 43, 6527-6534.	3.8	17
44	Fabrication of Block Copolymer Monolayers by Adsorption from Supercritical Fluids: A Versatile Concept for Modification and Functionalization of Polymer Surfaces. Langmuir, 2008, 24, 10488-10493.	3.5	17
45	Sequence transferable coarse-grained model of amphiphilic copolymers. Journal of Chemical Physics, 2017, 147, 064904.	3.0	15
46	Rubber-modified epoxies: Interfacial tension and morphology. Journal of Applied Polymer Science, 1989, 37, 2627-2636.	2.6	14
47	Adhesion of PDMS Elastomers to Functional Substrates. Journal of Adhesion, 2005, 81, 765-789.	3.0	13
48	Kinetics of Polymer Interfacial Reactions: Polymer Brush Formation by Click Reactions of Alkyne End-Functional Polymers with Azide-Functional Substrates. Macromolecules, 2016, 49, 5461-5474.	4.8	13
49	Main-chain polyacetal conjugates with HIF-1 inhibitors: temperature-responsive, pH-degradable drug delivery vehicles. Journal of Materials Chemistry B, 2018, 6, 666-674.	5.8	13
50	Adjusting the Surface Areal Density of Click-Reactive Azide Groups by Kinetic Control of the Azide Substitution Reaction on Bromine-Functional SAMs. Langmuir, 2014, 30, 6071-6078.	3.5	12
51	Smart polymer enhances the efficacy of topical antimicrobial agents. Burns, 2019, 45, 1418-1429.	1.9	12
52	SELF-ADHESION HYSTERESIS IN POLYDIMETHYLSILOXANE ELASTOMERS. Journal of Adhesion, 2004, 80, 119-143.	3.0	11
53	Adhesion enhancement of polymer blend interfaces by reactive block copolymer brushes. Comptes Rendus Chimie, 2006, 9, 45-59.	0.5	10
54	Solid Phase Synthesis of Polymacromer and Copolymacromer Brushes. Macromolecules, 2012, 45, 3866-3873.	4.8	9

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55	¹ H NMR Study of Hydrogen Abstraction in Model Compound Mimics of Polymers. Photochemistry and Photobiology, 2014, 90, 394-401.	2.5	9
56	Using Light to Covalently Immobilize and Pattern Nanoparticles onto Surfaces. Langmuir, 2012, 28, 10934-10941.	3.5	6
57	Electroless Deposition of Nickel on Photografted Polymeric Microscale Patterns. Macromolecular Rapid Communications, 2017, 38, 1600564.	3.9	6
58	Photogeneration of clickable surface-bound polymer scaffolds. Journal of Polymer Science Part A, 2017, 55, 1151-1155.	2.3	4
59	ATRP Synthesis and Characterization of 1,4,1,5-tetra-allyl-terminated Macromonomers as Precursors for End-linked Gels and Hydrogels. Materials Research Society Symposia Proceedings, 2003, 774, 181.	0.1	1
60	Photochemical Immobilization of Polymers on a Surface: Controlling Film Thickness and Wettability. Photochemistry and Photobiology, 2017, 93, 1165-1169.	2.5	1