

Eric Drockenmuller

List of Publications by Year in descending order

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92
papers

5,615
citations

94381

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76872

74
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92
all docs

92
docs citations

92
times ranked

5630
citing authors

#	ARTICLE	IF	CITATIONS
1	A Generalized Approach to the Modification of Solid Surfaces. <i>Science</i> , 2005, 308, 236-239.	6.0	500
2	Development of Thermal and Photochemical Strategies for Thiol-ene Click Polymer Functionalization. <i>Macromolecules</i> , 2008, 41, 7063-7070.	2.2	430
3	Reprocessing and Recycling of Highly Cross-Linked Ion-Conducting Networks through Transalkylation Exchanges of C-N Bonds. <i>Journal of the American Chemical Society</i> , 2015, 137, 6078-6083.	6.6	407
4	Structurally Diverse Dendritic Libraries: A Highly Efficient Functionalization Approach Using Click Chemistry. <i>Macromolecules</i> , 2005, 38, 3663-3678.	2.2	363
5	Orthogonal Approaches to the Simultaneous and Cascade Functionalization of Macromolecules Using Click Chemistry. <i>Journal of the American Chemical Society</i> , 2005, 127, 14942-14949.	6.6	322
6	Defect-Free Nanoporous Thin Films from ABC Triblock Copolymers. <i>Journal of the American Chemical Society</i> , 2006, 128, 7622-7629.	6.6	292
7	Random heteropolymers preserve protein function in foreign environments. <i>Science</i> , 2018, 359, 1239-1243.	6.0	196
8	Tuning the Viscosity Profile of Ionic Vitrimers Incorporating 1,2,3-Triazolium Cross-Links. <i>Advanced Functional Materials</i> , 2017, 27, 1703258.	7.8	153
9	Rheological Properties of Covalent Adaptable Networks with 1,2,3-Triazolium Cross-Links: The Missing Link between Vitrimers and Dissociative Networks. <i>Macromolecules</i> , 2020, 53, 1884-1900.	2.2	131
10	1,2,3-Triazolium-Based Poly(ionic liquid)s with Enhanced Ion Conducting Properties Obtained through a Click Chemistry Polyaddition Strategy. <i>Chemistry of Materials</i> , 2014, 26, 1720-1726.	3.2	121
11	Role of architecture and molecular weight in the formation of tailor-made ultrathin multilayers using dendritic macromolecules and click chemistry. <i>Journal of Polymer Science Part A</i> , 2007, 45, 2835-2846.	2.5	113
12	A Modular Approach to Functionalized and Expanded Crown Ether Based Macrocycles Using Click Chemistry. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 6654-6658.	7.2	93
13	Precise Synthesis of Molecularly Defined Oligomers and Polymers by Orthogonal Iterative Divergent/Convergent Approaches. <i>Macromolecular Rapid Communications</i> , 2011, 32, 147-168.	2.0	93
14	Polymer Brushes Grafted to Passivated Silicon Substrates Using Click Chemistry. <i>Langmuir</i> , 2008, 24, 2732-2739.	1.6	92
15	Covalent stabilization of nanostructures: Robust block copolymer templates from novel thermoreactive systems. <i>Journal of Polymer Science Part A</i> , 2005, 43, 1028-1037.	2.5	82
16	A Thermal and Manufacturable Approach to Stabilized Diblock Copolymer Templates. <i>Macromolecules</i> , 2005, 38, 7676-7683.	2.2	82
17	Main-chain 1,2,3-Triazolium-based poly(ionic liquid)s issued from AB + AB click chemistry polyaddition. <i>Journal of Polymer Science Part A</i> , 2013, 51, 34-38.	2.5	79
18	Fabrication of densely packed, well-ordered, high-aspect-ratio silicon nanopillars over large areas using block copolymer lithography. <i>Thin Solid Films</i> , 2006, 513, 289-294.	0.8	72

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19	Enhanced Ionic Conductivity of a 1,2,3-Triazolium-Based Poly(siloxane ionic liquid) Homopolymer. ACS Macro Letters, 2016, 5, 1283-1286.	2.3	70
20	Surface Modification with Cross-Linked Random Copolymers: A Minimum Effective Thickness. Macromolecules, 2007, 40, 4296-4300.	2.2	67
21	Synthesis of a New Stable $\hat{\text{I}}^2$ -Sulfinyl Nitroxide and the Corresponding Alkoxyamine for Living/Controlled Radical Polymerization of Styrene: A Kinetic and ESR Studies. Macromolecules, 2002, 35, 2461-2466.	2.2	61
22	Kinetic study of copper(I)-catalyzed click chemistry step-growth polymerization. Journal of Polymer Science Part A, 2008, 46, 5506-5517.	2.5	59
23	Influence of Progressive Cross-Linking on Dewetting of Polystyrene Thin Films. Langmuir, 2008, 24, 1884-1890.	1.6	54
24	Synthesis and polymerization of C-vinyl- and N-vinyl-1,2,3-triazoles. Polymer Chemistry, 2012, 3, 1680-1692.	1.9	54
25	Fluorinated Poly(ionic liquid) Diblock Copolymers Obtained by Cobalt-Mediated Radical Polymerization-Induced Self-Assembly. ACS Macro Letters, 2017, 6, 121-126.	2.3	54
26	Structure-Properties Relationship of Biosourced Stereocontrolled Polytriazoles from Click Chemistry Step Growth Polymerization of Diazide and Dialkyne Dianhydrohexitols. Biomacromolecules, 2010, 11, 2797-2803.	2.6	53
27	Enhancing Properties of Anionic Poly(ionic liquid)s with 1,2,3-Triazolium Counter Cations. ACS Macro Letters, 2014, 3, 658-662.	2.3	52
28	Living/Controlled Radical Polymerization of Ethyl and n-Butyl Acrylates at 90 $\hat{\text{A}}^\circ\text{C}$ Mediated by $\hat{\text{I}}^2$ -Sulfinyl Nitroxides: Influence of the Persistent Radical Stereochemistry. Macromolecules, 2004, 37, 2076-2083.	2.2	48
29	Accelerated Solvent- and Catalyst-Free Synthesis of 1,2,3-Triazolium-Based Poly(Ionic Liquid)s. Macromolecular Rapid Communications, 2014, 35, 794-800.	2.0	46
30	Biobased vinyl levulinate as styrene replacement for unsaturated polyester resins. Journal of Polymer Science Part A, 2014, 52, 3356-3364.	2.5	46
31	Design of crosslinked hybrid multilayer thin films from azido-functionalized polystyrenes and platinum nanoparticles. Soft Matter, 2009, 5, 586-592.	1.2	44
32	Unconventional poly(ionic liquid)s combining motionless main chain 1,2,3-triazolium cations and high ionic conductivity. Polymer Chemistry, 2015, 6, 4299-4308.	1.9	44
33	Solving the loss of orthogonality during the polyaddition of $\hat{\text{I}}^2$ -azide-alkyne monomers catalyzed by $\text{Cu}(\text{PPh}_3)_3\text{Br}$: Application to the synthesis of high-molar mass polytriazoles. Journal of Polymer Science Part A, 2010, 48, 2470-2476.	2.5	43
34	Poly(ethylene glycol) brushes grafted to silicon substrates by click chemistry: influence of PEG chain length, concentration in the grafting solution and reaction time. Polymer Chemistry, 2011, 2, 348-354.	1.9	43
35	Highly Ordered Nanoporous Films from Supramolecular Diblock Copolymers with Hydrogen Bonding Junctions. Angewandte Chemie - International Edition, 2015, 54, 11117-11121.	7.2	43
36	Triethylene glycol-based poly(1,2,3-triazolium acrylate)s with enhanced ionic conductivity. Polymer Chemistry, 2015, 6, 3521-3528.	1.9	40

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37	Bio-Sourced Networks from Thermal Polyaddition of a Starch-Derived 1,2,3-Triazolium-Alkyne AB Monomer with an Aliphatic Cross-linker. <i>Macromolecules</i> , 2010, 43, 5672-5678.	2.2	38
38	1,2,3-Triazolium-Based Poly(ionic liquid)s Obtained Through Click Chemistry Polyaddition. <i>Macromolecular Chemistry and Physics</i> , 2014, 215, 2229-2236.	1.1	38
39	Functionalized random copolymers from versatile one-pot click chemistry/ATRP tandems approaches. <i>Journal of Polymer Science Part A</i> , 2009, 47, 3803-3813.	2.5	37
40	Click Chemistry Grafting of Poly(ethylene glycol) Brushes to Alkyne-Functionalized Pseudobrushes. <i>Langmuir</i> , 2010, 26, 1304-1310.	1.6	37
41	1,2,3-Triazolium-based poly(acrylate ionic liquid)s. <i>Polymer</i> , 2014, 55, 3314-3319.	1.8	37
42	Synthesis of thermosensitive guar-based hydrogels with tunable physicochemical properties by click chemistry. <i>Journal of Polymer Science Part A</i> , 2010, 48, 2733-2742.	2.5	36
43	Macromolecules of controlled architecture. <i>Journal of Materials Chemistry</i> , 2003, 13, 2653-2660.	6.7	35
44	(Co)Polymerization of vinyl levulinate by cobalt-mediated radical polymerization and functionalization by ketoxime click chemistry. <i>Polymer Chemistry</i> , 2014, 5, 2973-2979.	1.9	35
45	Highly cross-linked polyether-based 1,2,3-triazolium ion conducting membranes with enhanced gas separation properties. <i>European Polymer Journal</i> , 2016, 84, 65-76.	2.6	35
46	RAFT Polymerization of Bio-Based 1-Vinyl-4-dianhydrohexitol-1,2,3-triazole Stereoisomers Obtained via Click Chemistry. <i>Biomacromolecules</i> , 2012, 13, 4138-4145.	2.6	34
47	Tuning the Viscosity Profiles of High- <i>T_g</i> Poly(1,2,3-triazolium) Covalent Adaptable Networks by the Chemical Structure of the N-Substituents. <i>Macromolecules</i> , 2021, 54, 3281-3292.	2.2	33
48	Influence of nitroxide structure on polystyrene brushes grafted from silicon wafers. <i>Journal of Polymer Science Part A</i> , 2008, 46, 3367-3374.	2.5	32
49	Versatile click functionalization of poly(1,2,3-triazolium ionic liquid)s. <i>European Polymer Journal</i> , 2015, 62, 331-337.	2.6	32
50	Conformation of Intramolecularly Cross-Linked Polymer Nanoparticles on Solid Substrates. <i>Nano Letters</i> , 2005, 5, 1704-1709.	4.5	31
51	Synthesis of Temperature Responsive Biohybrid Guar-Based Grafted Copolymers by Click Chemistry. <i>Macromolecules</i> , 2010, 43, 6843-6852.	2.2	31
52	Poly(ethylene) brushes grafted to silicon substrates. <i>Polymer Chemistry</i> , 2012, 3, 1838-1845.	1.9	31
53	1,2,3-Triazolium-Based Epoxy-Amine Networks: Ion-Conducting Polymer Electrolytes. <i>Macromolecular Rapid Communications</i> , 2016, 37, 1168-1174.	2.0	31
54	UV-Patterning of Ion Conducting Negative Tone Photoresists Using Azide-Functionalized Poly(Ionic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	2.3	27

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55	Friction of Polymers: from PDMS Melts to PDMS Elastomers. <i>ACS Macro Letters</i> , 2018, 7, 112-115.	2.3	27
56	Toward tunable amphiphilic copolymers via CuAAC click chemistry of oligocaprolactones onto starch backbone. <i>Carbohydrate Polymers</i> , 2013, 96, 259-269.	5.1	23
57	Expanding the structural variety of poly(1,2,3-triazolium)s obtained by simultaneous 1,3-dipolar Huisgen polyaddition and N-alkylation. <i>Polymer</i> , 2015, 79, 309-315.	1.8	22
58	Direct Molecular Evidence of the Origin of Slip of Polymer Melts on Grafted Brushes. <i>Macromolecules</i> , 2016, 49, 2348-2353.	2.2	22
59	Cationic and dicationic 1,2,3-triazolium-based poly(ethylene glycol ionic liquid)s. <i>Polymer Chemistry</i> , 2017, 8, 910-917.	1.9	22
60	Probing the effect of anion structure on the physical properties of cationic 1,2,3-triazolium-based poly(ionic liquid)s. <i>Journal of Polymer Science Part A</i> , 2016, 54, 2191-2199.	2.5	21
61	Photo-crosslinked fluorinated thin films from azido-functionalized random copolymers. <i>Journal of Polymer Science Part A</i> , 2010, 48, 3888-3895.	2.5	20
62	Quantitative Analysis of Interdigitation Kinetics between a Polymer Melt and a Polymer Brush. <i>Macromolecules</i> , 2013, 46, 6955-6962.	2.2	19
63	New amphiphilic glycopolymers by click functionalization of random copolymers – application to the colloidal stabilisation of polymer nanoparticles and their interaction with concanavalin A lectin. <i>Beilstein Journal of Organic Chemistry</i> , 2010, 6, 58.	1.3	18
64	Crosslinked PDMS elastomers and coatings from the thermal curing of vinyl-functionalized PDMS and a diazide aliphatic crosslinker. <i>Journal of Polymer Science Part A</i> , 2012, 50, 98-107.	2.5	18
65	1,4:3,6-Dianhydrohexitols: Original platform for the design of biobased polymers using robust, efficient, and orthogonal chemistry. <i>Pure and Applied Chemistry</i> , 2012, 85, 511-520.	0.9	17
66	Biosourced 1,2,3-triazolium ionic liquids derived from isosorbide. <i>New Journal of Chemistry</i> , 2016, 40, 740-747.	1.4	17
67	Partially Biosourced Poly(1,2,3-triazolium)-Based Diblock Copolymers Derived from Levulinic Acid. <i>Macromolecules</i> , 2018, 51, 5820-5830.	2.2	17
68	Efficient Approaches for the Surface Modification of Platinum Nanoparticles via Click Chemistry. <i>Macromolecules</i> , 2010, 43, 9371-9375.	2.2	16
69	1,2,3-Triazolium-based linear ionic polyurethanes. <i>Polymer Chemistry</i> , 2017, 8, 5148-5156.	1.9	14
70	Comparison of the Slip of a PDMS Melt on Weakly Adsorbing Surfaces Measured by a New Photobleaching-Based Technique. <i>Macromolecules</i> , 2017, 50, 5592-5598.	2.2	13
71	Temperature-Controlled Slip of Polymer Melts on Ideal Substrates. <i>Physical Review Letters</i> , 2018, 121, 177802.	2.9	12
72	Structurally Related Scaling Behavior in Ionic Systems. <i>Journal of Physical Chemistry B</i> , 2020, 124, 1240-1244.	1.2	12

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73	Reusable Enzymatic Fiber Mats for Neurotoxin Remediation in Water. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 44216-44220.	4.0	11
74	Main-chain poly(1,2,3-triazolium hydroxide)s obtained through AA+BB click polyaddition as anion exchange membranes. <i>Polymer International</i> , 2019, 68, 1591-1598.	1.6	11
75	Fast secondary dynamics for enhanced charge transport in polymerized ionic liquids. <i>Physical Review E</i> , 2020, 101, 032606.	0.8	10
76	Comparison of poly(ethylene glycol)-based networks obtained by cationic ring opening polymerization of neutral and 1,2,3-triazolium diepoxy monomers. <i>Polymer Chemistry</i> , 2020, 11, 1894-1905.	1.9	9
77	Synthesis of \hat{I}^2 -sulfinyl nitroxides. <i>Tetrahedron Letters</i> , 2001, 42, 9011-9013.	0.7	8
78	Photochemical isomerization of norbornadiene-containing polytriazoles obtained by click chemistry polyaddition. <i>Journal of Polymer Science Part A</i> , 2014, 52, 223-231.	2.5	8
79	A 1,2,3-triazolate lithium salt with ionic liquid properties at room temperature. <i>Chemical Communications</i> , 2018, 54, 9035-9038.	2.2	8
80	Access to Thermodynamic and Viscoelastic Properties of Poly(ionic liquid)s Using High-Pressure Conductivity Measurements. <i>ACS Macro Letters</i> , 2019, 8, 996-1001.	2.3	8
81	Effects of repeat unit charge density on the physical and electrochemical properties of novel heterocationic poly(ionic liquid)s. <i>New Journal of Chemistry</i> , 2021, 45, 53-65.	1.4	8
82	Synthesis of well-defined poly(dimethylsiloxane) telechelics having nitrobenzoxadiazole fluorescent chain-ends via thiol-ene coupling. <i>Journal of Polymer Science Part A</i> , 2012, 50, 1827-1833.	2.5	7
83	Cross-linked polymer microparticles with tunable surface properties by the combination of suspension free radical copolymerization and Click chemistry. <i>Journal of Colloid and Interface Science</i> , 2022, 607, 1687-1698.	5.0	7
84	Improving the control of styrene polymerization at 60 °C using a dialkylated \hat{I}^2 -hydrogenated nitroxide. <i>Journal of Polymer Science Part A</i> , 2012, 50, 3750-3757.	2.5	6
85	Viscoelasticity-Induced Onset of Slip at the Wall for Polymer Fluids. <i>ACS Macro Letters</i> , 2020, 9, 924-928.	2.3	6
86	Synthesis and characterization of novel biosourced building blocks from isosorbide. <i>Designed Monomers and Polymers</i> , 2016, 19, 108-118.	0.7	5
87	Exchange Process in the Dielectric Loss of Molecular and Macromolecular Ionic Conductors in the Interfacial Layers Formed by Electrode Polarization Effects. <i>Journal of Physical Chemistry B</i> , 2019, 123, 8532-8542.	1.2	5
88	Studies on ion dynamics of polymerized ionic liquids through the free volume theory. <i>Polymer</i> , 2021, 212, 123286.	1.8	5
89	Photoresponsive polyamides containing pentamethylated norbornadiene moieties: Synthesis and photochemical properties under sunlight irradiation. <i>Journal of Polymer Science Part A</i> , 2013, 51, 4650-4656.	2.5	4
90	Multiscale Structure of Poly(ionic liquid)s in Bulk and Solutions by Small-Angle Neutron Scattering. <i>Macromolecules</i> , 2022, 55, 4111-4118.	2.2	4

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91	Synthesis and Structure/Properties Correlations of Fluorinated Poly(1,2,3-triazolium)s. Chemistry Africa, 2020, 3, 759-768.	1.2	2
92	Slip and Friction Mechanisms at Polymer Semi-Dilute Solutions/Solid Interfaces. Macromolecules, 2021, 54, 4910-4917.	2.2	1