

Jason L Locklin

List of Publications by Year in descending order

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97
papers

5,624
citations

53794

45
h-index

79698

73
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103
all docs

103
docs citations

103
times ranked

7528
citing authors

#	ARTICLE	IF	CITATIONS
1	A review of the recent advances in antimicrobial coatings for urinary catheters. <i>Acta Biomaterialia</i> , 2017, 50, 20-40.	8.3	332
2	Water-stable organic transistors and their application in chemical and biological sensors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 12134-12139.	7.1	327
3	High-Performance Organic Thin-Film Transistors through Solution-Sheared Deposition of Small-Molecule Organic Semiconductors. <i>Advanced Materials</i> , 2008, 20, 2588-2594.	21.0	275
4	High Density Orthogonal Surface Immobilization via Photoactivated Copper-Free Click Chemistry. <i>Journal of the American Chemical Society</i> , 2010, 132, 11024-11026.	13.7	203
5	Self-Assembly and Characterization of Polyaniline and Sulfonated Polystyrene Multilayer-Coated Colloidal Particles and Hollow Shells. <i>Langmuir</i> , 2003, 19, 8550-8554.	3.5	175
6	Formation of Photochromic Spiropyran Polymer Brushes via Surface-Initiated, Ring-Opening Metathesis Polymerization: Reversible Photocontrol of Wetting Behavior and Solvent Dependent Morphology Changes. <i>Langmuir</i> , 2008, 24, 9558-9565.	3.5	164
7	A First Synthesis of Thiophene Dendrimers. <i>Organic Letters</i> , 2002, 4, 2067-2070.	4.6	152
8	Advances in smart materials: Stimuli-responsive hydrogel thin films. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2013, 51, 1084-1099.	2.1	151
9	Characterization, Supramolecular Assembly, and Nanostructures of Thiophene Dendrimers. <i>Journal of the American Chemical Society</i> , 2004, 126, 8735-8743.	13.7	150
10	Organic Thin Film Transistors Based on Cyclohexyl-Substituted Organic Semiconductors. <i>Chemistry of Materials</i> , 2005, 17, 3366-3374.	6.7	125
11	Ambipolar Organic Thin Film Transistor-like Behavior of Cationic and Anionic Phthalocyanines Fabricated Using Layer-by-Layer Deposition from Aqueous Solution. <i>Chemistry of Materials</i> , 2003, 15, 1404-1412.	6.7	119
12	Exact ligand cone angles. <i>Journal of Computational Chemistry</i> , 2013, 34, 1189-1197.	3.3	112
13	Reversible colorimetric ion sensors based on surface initiated polymerization of photochromic polymers. <i>Chemical Communications</i> , 2008, , 6288.	4.1	109
14	SuFEx on the Surface: A Flexible Platform for Postpolymerization Modification of Polymer Brushes. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 13370-13373.	13.8	99
15	One-Step Photochemical Synthesis of Permanent, Nonleaching, Ultrathin Antimicrobial Coatings for Textiles and Plastics. <i>ACS Applied Materials & Interfaces</i> , 2011, 3, 2830-2837.	8.0	98
16	Photoreactive Polymer Brushes for High-Density Patterned Surface Derivatization Using a Diels-Alder Photoclick Reaction. <i>Journal of the American Chemical Society</i> , 2012, 134, 179-182.	13.7	93
17	Conjugated Oligothiophene-Dendron-Capped CdSe Nanoparticles: Synthesis and Energy Transfer. <i>Chemistry of Materials</i> , 2004, 16, 5187-5193.	6.7	92
18	Thiol-isocyanate click-reactions: rapid development of functional polymeric surfaces. <i>Polymer Chemistry</i> , 2011, 2, 88-90.	3.9	91

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19	Spectroscopic Analysis of Metal Ion Binding in Spiropyran Containing Copolymer Thin Films. <i>Analytical Chemistry</i> , 2010, 82, 3306-3314.	6.5	90
20	Polymer Brushes Grafted from Clay Nanoparticles Adsorbed on a Planar Substrate by Free Radical Surface-Initiated Polymerization. <i>Langmuir</i> , 2003, 19, 916-923.	3.5	88
21	Formation of conjugated polymer brushes by surface-initiated catalyst-transfer polycondensation. <i>Chemical Communications</i> , 2009, , 3354.	4.1	86
22	Surface-initiated polymerization of conjugated polymers. <i>Chemical Communications</i> , 2011, 47, 5681.	4.1	86
23	A multi-defense strategy: Enhancing bactericidal activity of a medical grade polymer with a nitric oxide donor and surface-immobilized quaternary ammonium compound. <i>Acta Biomaterialia</i> , 2017, 58, 421-431.	8.3	78
24	Effect of morphology on organic thin film transistor sensors. <i>Analytical and Bioanalytical Chemistry</i> , 2005, 384, 336-342.	3.7	73
25	Biodegradation of Poly(3-hydroxybutyrate- <i>co</i> -3-hydroxyhexanoate) Plastic under Anaerobic Sludge and Aerobic Seawater Conditions: Gas Evolution and Microbial Diversity. <i>Environmental Science & Technology</i> , 2018, 52, 5700-5709.	10.0	72
26	Correlating Molecular Structure to Field-Effect Mobility: The Investigation of Side-Chain Functionality in Phenylene-Thiophene Oligomers and Their Application in Field Effect Transistors. <i>Chemistry of Materials</i> , 2007, 19, 2342-2351.	6.7	69
27	Thiophene Dendron Jacketed Poly(amidoamine) Dendrimers: Nanoparticle Synthesis and Adsorption on Graphite. <i>Journal of the American Chemical Society</i> , 2005, 127, 1744-1751.	13.7	64
28	Covalent Grafting of Antifouling Phosphorylcholine-Based Copolymers with Antimicrobial Nitric Oxide Releasing Polymers to Enhance Infection-Resistant Properties of Medical Device Coatings. <i>Langmuir</i> , 2017, 33, 13105-13113.	3.5	64
29	Signal Enhancement and Tuning of Surface Plasmon Resonance in Au Nanoparticle/Polyelectrolyte Ultrathin Films. <i>Journal of Physical Chemistry C</i> , 2007, 111, 18687-18694.	3.1	63
30	Solution-Assisted Assembly of Organic Semiconducting Single Crystals on Surfaces with Patterned Wettability. <i>Langmuir</i> , 2007, 23, 7428-7432.	3.5	62
31	Fabrication of nanostructures using polymer brushes. <i>Journal of Materials Chemistry</i> , 2011, 21, 14135.	6.7	62
32	Fabrication of Spiropyran-Containing Thin Film Sensors Used for the Simultaneous Identification of Multiple Metal Ions. <i>Langmuir</i> , 2011, 27, 12253-12260.	3.5	58
33	High Density Scaffolding of Functional Polymer Brushes: Surface Initiated Atom Transfer Radical Polymerization of Active Esters. <i>Langmuir</i> , 2010, 26, 2136-2143.	3.5	57
34	Preparation of Gold Nanoparticles from a Polyelectrolyte Complex Solution of Terthiophene Amphiphiles. <i>Langmuir</i> , 2001, 17, 4681-4683.	3.5	56
35	Switching the Adhesive State of Catecholic Hydrogels using Phototitration. <i>Macromolecules</i> , 2013, 46, 8882-8887.	4.8	55
36	A Dynamic Duo: Pairing Click Chemistry and Postpolymerization Modification To Design Complex Surfaces. <i>Accounts of Chemical Research</i> , 2014, 47, 2999-3008.	15.6	55

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37	Optimizing the Thin Film Morphology of Organic Field-Effect Transistors: The Influence of Molecular Structure and Vacuum Deposition Parameters on Device Performance. <i>Journal of Macromolecular Science - Reviews in Macromolecular Chemistry and Physics</i> , 2006, 46, 79-101.	2.2	54
38	Rate Determination of Azide Click Reactions onto Alkyne Polymer Brush Scaffolds: A Comparison of Conventional and Catalyst-Free Cycloadditions for Tunable Surface Modification. <i>Langmuir</i> , 2012, 28, 14693-14702.	3.5	52
39	Surface-Initiated Poly(3-methylthiophene) as a Hole-Transport Layer for Polymer Solar Cells with High Performance. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 5069-5073.	8.0	51
40	SuFEx Click: New Materials from SO _x F and Silyl Ethers. <i>Chemistry - A European Journal</i> , 2016, 22, 16348-16354.	3.3	50
41	Ingested Micronizing Plastic Particle Compositions and Size Distributions within Stranded Post-Hatchling Sea Turtles. <i>Environmental Science & Technology</i> , 2018, 52, 10307-10316.	10.0	50
42	Substituted Poly(p-phenylene) Thin Films via Surface-Initiated Kumada-Type Catalyst Transfer Polycondensation. <i>Macromolecules</i> , 2010, 43, 2137-2144.	4.8	49
43	Utilizing click chemistry to design functional interfaces through post-polymerization modification. <i>Journal of Materials Chemistry</i> , 2012, 22, 19357.	6.7	49
44	Surface Grafted Antimicrobial Polymer Networks with High Abrasion Resistance. <i>ACS Biomaterials Science and Engineering</i> , 2016, 2, 1169-1179.	5.2	49
45	Surface-Confined Nickel Mediated Cross-Coupling Reactions: Characterization of Initiator Environment in Kumada Catalyst-Transfer Polycondensation. <i>Langmuir</i> , 2011, 27, 12033-12041.	3.5	48
46	Palladium-Mediated Surface-Initiated Kumada Catalyst Polycondensation: A Facile Route Towards Oriented Conjugated Polymers. <i>Macromolecular Rapid Communications</i> , 2012, 33, 2115-2120.	3.9	46
47	Multifunctional Surface Manipulation Using Orthogonal Click Chemistry. <i>Langmuir</i> , 2016, 32, 6600-6605.	3.5	45
48	Photo-click chemistry strategies for spatiotemporal control of metal-free ligation, labeling, and surface derivatization. <i>Pure and Applied Chemistry</i> , 2013, 85, 1499-1513.	1.9	42
49	Nanostructured Soft Matter with Magnetic Nanoparticles. <i>Advanced Functional Materials</i> , 2016, 26, 3761-3782.	14.9	41
50	Solution deposited liquid crystalline semiconductors on a photoalignment layer for organic thin-film transistors. <i>Applied Physics Letters</i> , 2007, 90, 232108.	3.3	38
51	Evidence for the Phospholipid Sponge Effect as the Biocidal Mechanism in Surface-Bound Polyquaternary Ammonium Coatings with Variable Cross-Linking Density. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 7745-7751.	8.0	37
52	Engineering of Spin Injection and Spin Transport in Organic Spin Valves Using π -Conjugated Polymer Brushes. <i>Advanced Functional Materials</i> , 2016, 26, 3999-4006.	14.9	36
53	Nanostructured Ultrathin Films of Water-Soluble Sexithiophene Bolaform Amphiphiles Prepared by Layer-by-Layer Self-Assembly. <i>Langmuir</i> , 2002, 18, 877-883.	3.5	33
54	π -Complexation in Nickel-Catalyzed Cross-Coupling Reactions. <i>Journal of Organic Chemistry</i> , 2014, 79, 1836-1841.	3.2	33

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55	Tuning chelating groups and comonomers in spiropyran-containing copolymer thin films for color-specific metal ion binding. <i>Polymer Chemistry</i> , 2014, 5, 2094.	3.9	33
56	Durable defense: robust and varied attachment of non-leaching poly(ε-caprolactone)-bactericidal coatings to reactive and inert surfaces. <i>Chemical Communications</i> , 2014, 50, 9433-9442.	4.1	33
57	SuFEx Postpolymerization Modification Kinetics and Reactivity in Polymer Brushes. <i>Macromolecules</i> , 2018, 51, 297-305.	4.8	32
58	Distinct Aggregation and Fluorescence Properties of a Water-Soluble Oligothiophene (6TN) Bolaform Amphiphile. <i>Langmuir</i> , 2002, 18, 955-957.	3.5	31
59	Comparative Aminolysis Kinetics of Different Active Ester Polymer Brush Platforms in Postpolymerization Modification with Primary and Aromatic Amines. <i>Macromolecules</i> , 2012, 45, 5444-5450.	4.8	30
60	On the Role of Disproportionation Energy in Kumada Catalyst-Transfer Polycondensation. <i>ACS Macro Letters</i> , 2012, 1, 995-1000.	4.8	29
61	Nanopatterning and Nanocharge Writing in Layer-by-Layer Quinquethiophene/Phthalocyanine Ultrathin Films. <i>Journal of Physical Chemistry B</i> , 2006, 110, 42-45.	2.6	28
62	Direct grafting of poly(pentafluorophenyl acrylate) onto oxides: versatile substrates for reactive microcapillary printing and self-sorting modification. <i>Chemical Communications</i> , 2014, 50, 5307-5309.	4.1	28
63	Tunable Thin-Film Crystalline Structures and Field-Effect Mobility of Oligofluorene-Thiophene Derivatives. <i>Chemistry of Materials</i> , 2007, 19, 5882-5889.	6.7	26
64	Nanostructured Sexithiophene/Clay Hybrid Multilayers: A Comparative Structural and Morphological Characterization. <i>Chemistry of Materials</i> , 2002, 14, 2184-2191.	6.7	25
65	Permanently grafted icephobic nanocomposites with high abrasion resistance. <i>Journal of Materials Chemistry A</i> , 2016, 4, 11719-11728.	10.3	25
66	Nanocomposite Hydrogen-Bonded Multilayer Ultrathin Films by Simultaneous Sexithiophene and Au Nanoparticle Formation. <i>Chemistry of Materials</i> , 2004, 16, 5063-5070.	6.7	24
67	Exact Ligand Solid Angles. <i>Journal of Chemical Theory and Computation</i> , 2013, 9, 5734-5744.	5.3	24
68	Reductive Electrografting of Benzene (p-Bisdiazonium Hexafluorophosphate): A Simple and Effective Protocol for Creating Diazonium-Functionalized Thin Films. <i>Langmuir</i> , 2011, 27, 13367-13373.	3.5	22
69	Transparent Grafted Zwitterionic Copolymer Coatings That Exhibit Both Antifogging and Self-Cleaning Properties. <i>ACS Omega</i> , 2018, 3, 17743-17750.	3.5	21
70	Multipronged Approach to Combat Catheter-Associated Infections and Thrombosis by Combining Nitric Oxide and a Polyzwitterion: a 7 Day In Vivo Study in a Rabbit Model. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 9070-9079.	8.0	21
71	Thermal Conductance of Poly(3-methylthiophene) Brushes. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 25578-25585.	8.0	19
72	Ring-Walking of Zerovalent Nickel on Aryl Halides. <i>Journal of Chemical Theory and Computation</i> , 2017, 13, 1706-1711.	5.3	19

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73	Self-Sorting Click Reactions That Generate Spatially Controlled Chemical Functionality on Surfaces. <i>Langmuir</i> , 2013, 29, 5920-5926.	3.5	18
74	Magnetic-Field-Assisted Fabrication and Manipulation of Nonspherical Polymer Particles in Ferrofluid-Based Droplet Microfluidics. <i>Langmuir</i> , 2015, 31, 8531-8534.	3.5	18
75	Direct functionalization of Kevlar® with copolymers containing sulfonyl nitrenes. <i>Polymer Chemistry</i> , 2015, 6, 3090-3097.	3.9	18
76	Oligothiophene based organic semiconductors with cross-linkable benzophenone moieties. <i>Synthetic Metals</i> , 2008, 158, 958-963.	3.9	16
77	Nanoscale Surface Creasing Induced by Post-polymerization Modification. <i>ACS Nano</i> , 2015, 9, 10961-10969.	14.6	16
78	Sialylated Receptor Setting Influences <i>Mycoplasma pneumoniae</i> Attachment and Gliding Motility. <i>Molecular Microbiology</i> , 2018, 109, 735-744.	2.5	16
79	Blends of Poly(butylene glutarate) and Poly(lactic acid) with Enhanced Ductility and Composting Performance. <i>ACS Applied Polymer Materials</i> , 2021, 3, 1652-1663.	4.4	14
80	Fully Synthetic Heparan Sulfate-Based Neural Tissue Construct That Maintains the Undifferentiated State of Neural Stem Cells. <i>ACS Chemical Biology</i> , 2019, 14, 1921-1929.	3.4	11
81	Degradable Polycaprolactone and Polylactide Homopolymer and Block Copolymer Brushes Prepared by Surface-Initiated Polymerization with Triazabicyclodecene and Zirconium Catalysts. <i>Langmuir</i> , 2015, 31, 10183-10189.	3.5	10
82	Morphology, Structure, and Enhanced Intramolecular Conduction in Ultralong Conjugated Polymer Brushes. <i>Journal of Physical Chemistry C</i> , 2018, 122, 7586-7596.	3.1	10
83	Rapid Electrochemical Reduction of Ni(II) Generates Reactive Monolayers for Conjugated Polymer Brushes in One Step. <i>Langmuir</i> , 2014, 30, 10465-10470.	3.5	9
84	SuFEx-based strategies for the preparation of functional particles and cation exchange resins. <i>Chemical Communications</i> , 2019, 55, 3891-3894.	4.1	7
85	Comparative Study of the Biological Degradation of Poly(3-Hydroxybutyrate-co-3-Hydroxyhexanoate) Microbeads in Municipal Wastewater in Environmental and Controlled Laboratory Conditions. <i>Environmental Science & Technology</i> , 2021, 55, 11646-11656.	10.0	6
86	Distinct <i>Mycoplasma pneumoniae</i> Interactions with Sulfated and Sialylated Receptors. <i>Infection and Immunity</i> , 2020, 88, .	2.2	5
87	Semi-aromatic biobased polyesters derived from lignin and cyclic carbonates. <i>Green Chemistry</i> , 2021, 23, 9658-9668.	9.0	5
88	Versatile Methodology for Glycosurfaces: Direct Ligation of Nonderivatized Reducing Saccharides to Poly(pentafluorophenyl acrylate) Grafted Surfaces via Hydrazide Conjugation. <i>Langmuir</i> , 2017, 33, 8821-8828.	3.5	4
89	Photocross-linking Kinetics Study of Benzophenone Containing Zwitterionic Copolymers. <i>ACS Omega</i> , 2020, 5, 9204-9211.	3.5	4
90	Energy Transfer in Poly(3-thiopheneacetic acid) and Oligothiophene Polyelectrolyte~Surfactant Complexes. <i>Langmuir</i> , 2003, 19, 8119-8121.	3.5	3

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91	Formation of Photo-Responsive Surfaces by Surface-Initiated Ring Opening Metathesis Polymerization and Atom Transfer Radical Polymerization: Reversible Optodes for Metal Ion Sensors. ACS Symposium Series, 2010, , 73-85.	0.5	3
92	Functionalization of Reactive End Groups in Surface-Initiated Kumada Catalyst-Transfer Polycondensation. Macromolecular Symposia, 2015, 351, 27-36.	0.7	3
93	The Formation and Evolution of Creased Morphologies Using Reactive Diffusion in Ultrathin Polymer Brush Platforms. Advanced Materials Interfaces, 2017, 4, 1700084.	3.7	3
94	Ferrofluidic platform for cell and droplet manipulation. , 2013, , .		1
95	The relationship between molecular structure and field effect mobility in organic semiconductors. , 2008, , .		0
96	A First Synthesis of Thiophene Dendrimers.. ChemInform, 2002, 33, 70-70.	0.0	0
97	Bolaform Amphiphiles, Semiconducting and Photoreactive: Layer-by-Layer Assembly. , 0, , 519-532.		0