Jason L Locklin

List of Publications by Year
in descending order

97 papers	5,624 citations	53751 45 h-index	79644 73 g-index
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. Acta Biomaterialia, 2017, 50, 20-40.	4.1	332
2	Water-stable organic transistors and their application in chemical and biological sensors. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 12134-12139.	3.3	327
3	Highâ€Performance Organic Thinâ€Film Transistors through Solutionâ€Sheared Deposition of Smallâ€Molecule Organic Semiconductors. Advanced Materials, 2008, 20, 2588-2594.	11.1	275
4	High Density Orthogonal Surface Immobilization via Photoactivated Copper-Free Click Chemistry. Journal of the American Chemical Society, 2010, 132, 11024-11026.	6.6	203
5	Self-Assembly and Characterization of Polyaniline and Sulfonated Polystyrene Multilayer-Coated Colloidal Particles and Hollow Shells. Langmuir, 2003, 19, 8550-8554.	1.6	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. Langmuir, 2008, 24, 9558-9565.	1.6	164
7	A First Synthesis of Thiophene Dendrimers. Organic Letters, 2002, 4, 2067-2070.	2.4	152
8	Advances in smart materials: Stimuliâ€responsive hydrogel thin films. Journal of Polymer Science, Part B: Polymer Physics, 2013, 51, 1084-1099.	2.4	151
9	Characterization, Supramolecular Assembly, and Nanostructures of Thiophene Dendrimers. Journal of the American Chemical Society, 2004, 126, 8735-8743.	6.6	150
10	Organic Thin Film Transistors Based on Cyclohexyl-Substituted Organic Semiconductors. Chemistry of Materials, 2005, 17, 3366-3374.	3.2	125
11	Ambipolar Organic Thin Film Transistor-like Behavior of Cationic and Anionic Phthalocyanines Fabricated Using Layer-by-Layer Deposition from Aqueous Solution. Chemistry of Materials, 2003, 15, 1404-1412.	3.2	119
12	Exact ligand cone angles. Journal of Computational Chemistry, 2013, 34, 1189-1197.	1.5	112
13	Reversible colorimetric ion sensors based on surface initiated polymerization of photochromic polymers. Chemical Communications, 2008, , 6288.	2.2	109
14	SuFEx on the Surface: A Flexible Platform for Postpolymerization Modification of Polymer Brushes. Angewandte Chemie - International Edition, 2015, 54, 13370-13373.	7.2	99
15	One-Step Photochemical Synthesis of Permanent, Nonleaching, Ultrathin Antimicrobial Coatings for Textiles and Plastics. ACS Applied Materials & Interfaces, 2011, 3, 2830-2837.	4.0	98
16	Photoreactive Polymer Brushes for High-Density Patterned Surface Derivatization Using a Dielsâ€“Alder Photoclick Reaction. Journal of the American Chemical Society, 2012, 134, 179-182.	6.6	93
17	Conjugated Oligothiophene-Dendron-Capped CdSe Nanoparticles:Â Synthesis and Energy Transfer. Chemistry of Materials, 2004, 16, 5187-5193.	3.2	92
18	Thiolâ€“isocyanate â€œclickâ€•reactions: rapid development of functional polymeric surfaces. Polymer Chemistry, 2011, 2, 88-90.	1.9	91

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19	Spectroscopic Analysis of Metal Ion Binding in Spiropyran Containing Copolymer Thin Films. Analytical Chemistry, 2010, 82, 3306-3314.	3.2	90
20	Polymer Brushes Grafted from Clay Nanoparticles Adsorbed on a Planar Substrate by Free Radical Surface-Initiated Polymerization. Langmuir, 2003, 19, 916-923.	1.6	88
21	Formation of conjugated polymer brushes by surface-initiated catalyst-transfer polycondensation. Chemical Communications, 2009, , 3354.	2.2	86
22	Surface-initiated polymerization of conjugated polymers. Chemical Communications, 2011, 47, 5681.	2.2	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. Acta Biomaterialia, 2017, 58, 421-431.	4.1	78
24	Effect of morphology on organic thin film transistor sensors. Analytical and Bioanalytical Chemistry, 2005, 384, 336-342.	1.9	73
25	Biodegradation of Poly(3-hydroxybutyrate-co-3-hydroxyhexanoate) Plastic under Anaerobic Sludge and Aerobic Seawater Conditions: Gas Evolution and Microbial Diversity. Environmental Science & Technology, 2018, 52, 5700-5709.	4.6	72
26	Correlating Molecular Structure to Field-Effect Mobility:Â The Investigation of Side-Chain Functionality in Phenyleneâ^'Thiophene Oligomers and Their Application in Field Effect Transistors. Chemistry of Materials, 2007, 19, 2342-2351.	3.2	69
27	Thiophene Dendron Jacketed Poly(amidoamine) Dendrimers:Â Nanoparticle Synthesis and Adsorption on Graphite. Journal of the American Chemical Society, 2005, 127, 1744-1751.	6.6	64
28	Covalent Grafting of Antifouling Phosphorylcholine-Based Copolymers with Antimicrobial Nitric Oxide Releasing Polymers to Enhance Infection-Resistant Properties of Medical Device Coatings. Langmuir, 2017, 33, 13105-13113.	1.6	64
29	Signal Enhancement and Tuning of Surface Plasmon Resonance in Au Nanoparticle/Polyelectrolyte Ultrathin Films. Journal of Physical Chemistry C, 2007, 111, 18687-18694.	1.5	63
30	Solution-Assisted Assembly of Organic Semiconducting Single Crystals on Surfaces with Patterned Wettability. Langmuir, 2007, 23, 7428-7432.	1.6	62
31	Fabrication of nanostructures using polymer brushes. Journal of Materials Chemistry, 2011, 21, 14135.	6.7	62
32	Fabrication of Spiropyran-Containing Thin Film Sensors Used for the Simultaneous Identification of Multiple Metal Ions. Langmuir, 2011, 27, 12253-12260.	1.6	58
33	High Density Scaffolding of Functional Polymer Brushes: Surface Initiated Atom Transfer Radical Polymerization of Active Esters. Langmuir, 2010, 26, 2136-2143.	1.6	57
34	Preparation of Gold Nanoparticles from a Polyelectrolyte Complex Solution of Terthiophene Amphiphiles. Langmuir, 2001, 17, 4681-4683.	1.6	56
35	Switching the Adhesive State of Catecholic Hydrogels using Photititration. Macromolecules, 2013, 46, 8882-8887.	2.2	55
36	A Dynamic Duo: Pairing Click Chemistry and Postpolymerization Modification To Design Complex Surfaces. Accounts of Chemical Research, 2014, 47, 2999-3008.	7.6	55

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37	Optimizing the Thin Film Morphology of Organic Fieldâ€Effect Transistors: The Influence of Molecular Structure and Vacuum Deposition Parameters on Device Performance. Journal of Macromolecular Science - Reviews in Macromolecular Chemistry and Physics, 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. Langmuir, 2012, 28, 14693-14702.	1.6	52
39	Surface-Initiated Poly(3-methylthiophene) as a Hole-Transport Layer for Polymer Solar Cells with High Performance. ACS Applied Materials & Interfaces, 2012, 4, 5069-5073.	4.0	51
40	SuFEx Click: New Materials from SO x F and Silyl Ethers. Chemistry - A European Journal, 2016, 22, 16348-16354.	1.7	50
41	Ingested Micronizing Plastic Particle Compositions and Size Distributions within Stranded Post-Hatchling Sea Turtles. Environmental Science & Technology, 2018, 52, 10307-10316.	4.6	50
42	Substituted Poly(p-phenylene) Thin Films via Surface-Initiated Kumada-Type Catalyst Transfer Polycondensation. Macromolecules, 2010, 43, 2137-2144.	2.2	49
43	Utilizing click chemistry to design functional interfaces through post-polymerization modification. Journal of Materials Chemistry, 2012, 22, 19357.	6.7	49
44	Surface Grafted Antimicrobial Polymer Networks with High Abrasion Resistance. ACS Biomaterials Science and Engineering, 2016, 2, 1169-1179.	2.6	49
45	Surface-Confined Nickel Mediated Cross-Coupling Reactions: Characterization of Initiator Environment in Kumada Catalyst-Transfer Polycondensation. Langmuir, 2011, 27, 12033-12041.	1.6	48
46	Palladiumâ€Mediated Surfaceâ€Initiated Kumada Catalyst Polycondensation: A Facile Route Towards Oriented Conjugated Polymers. Macromolecular Rapid Communications, 2012, 33, 2115-2120.	2.0	46
47	Multifunctional Surface Manipulation Using Orthogonal Click Chemistry. Langmuir, 2016, 32, 6600-6605.	1.6	45
48	Photo-click chemistry strategies for spatiotemporal control of metal-free ligation, labeling, and surface derivatization. Pure and Applied Chemistry, 2013, 85, 1499-1513.	0.9	42
49	Nanostructured Soft Matter with Magnetic Nanoparticles. Advanced Functional Materials, 2016, 26, 3761-3782.	7.8	41
50	Solution deposited liquid crystalline semiconductors on a photoalignment layer for organic thin-film transistors. Applied Physics Letters, 2007, 90, 232108.	1.5	38
51	Evidence for the Phospholipid Sponge Effect as the Biocidal Mechanism in Surface-Bound Polyquaternary Ammonium Coatings with Variable Cross-Linking Density. ACS Applied Materials & Interfaces, 2017, 9, 7745-7751.	4.0	37
52	Engineering of Spin Injection and Spin Transport in Organic Spin Valves Using Ï€â€Conjugated Polymer Brushes. Advanced Functional Materials, 2016, 26, 3999-4006.	7.8	36
53	Nanostructured Ultrathin Films of Water-Soluble Sexithiophene Bolaform Amphiphiles Prepared by Layer-by-Layer Self-Assembly. Langmuir, 2002, 18, 877-883.	1.6	33
54	Ï€-Complexation in Nickel-Catalyzed Cross-Coupling Reactions. Journal of Organic Chemistry, 2014, 79, 1836-1841.	1.7	33

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55	Tuning chelating groups and comonomers in spiropyran-containing copolymer thin films for color-specific metal ion binding. Polymer Chemistry, 2014, 5, 2094.	1.9	33
56	Durable defense: robust and varied attachment of non-leaching polyâ€œ-oniumâ€•bactericidal coatings to reactive and inert surfaces. Chemical Communications, 2014, 50, 9433-9442.	2.2	33
57	SuFEx Postpolymerization Modification Kinetics and Reactivity in Polymer Brushes. Macromolecules, 2018, 51, 297-305.	2.2	32
58	Distinct Aggregation and Fluorescence Properties of a Water-Soluble Oligothiophene (6TN) Bolaform Amphiphile. Langmuir, 2002, 18, 955-957.	1.6	31
59	Comparative Aminolysis Kinetics of Different Active Ester Polymer Brush Platforms in Postpolymerization Modification with Primary and Aromatic Amines. Macromolecules, 2012, 45, 5444-5450.	2.2	30
60	On the Role of Disproportionation Energy in Kumada Catalyst-Transfer Polycondensation. ACS Macro Letters, 2012, 1, 995-1000.	2.3	29
61	Nanopatterning and Nanocharge Writing in Layer-by-Layer Quinquethiophene/Phthalocyanine Ultrathin Films. Journal of Physical Chemistry B, 2006, 110, 42-45.	1.2	28
62	Direct grafting of poly(pentafluorophenyl acrylate) onto oxides: versatile substrates for reactive microcapillary printing and self-sorting modification. Chemical Communications, 2014, 50, 5307-5309.	2.2	28
63	Tunable Thin-Film Crystalline Structures and Field-Effect Mobility of Oligofluoreneâ€“Thiophene Derivatives. Chemistry of Materials, 2007, 19, 5882-5889.	3.2	26
64	Nanostructured Sexithiophene/Clay Hybrid Mutilayers:Â A Comparative Structural and Morphological Characterization. Chemistry of Materials, 2002, 14, 2184-2191.	3.2	25
65	Permanently grafted icephobic nanocomposites with high abrasion resistance. Journal of Materials Chemistry A, 2016, 4, 11719-11728.	5.2	25
66	Nanocomposite Hydrogen-Bonded Multilayer Ultrathin Films by Simultaneous Sexithiophene and Au Nanoparticle Formation. Chemistry of Materials, 2004, 16, 5063-5070.	3.2	24
67	Exact Ligand Solid Angles. Journal of Chemical Theory and Computation, 2013, 9, 5734-5744.	2.3	24
68	Reductive Electrografting of Benzene (p-Bisdiazonium Hexafluorophosphate): A Simple and Effective Protocol for Creating Diazonium-Functionalized Thin Films. Langmuir, 2011, 27, 13367-13373.	1.6	22
69	Transparent Grafted Zwitterionic Copolymer Coatings That Exhibit Both Antifogging and Self-Cleaning Properties. ACS Omega, 2018, 3, 17743-17750.	1.6	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. ACS Applied Materials & Interfaces, 2020, 12, 9070-9079.	4.0	21
71	Thermal Conductance of Poly(3-methylthiophene) Brushes. ACS Applied Materials & Interfaces, 2016, 8, 25578-25585.	4.0	19
72	Ring-Walking of Zerovalent Nickel on Aryl Halides. Journal of Chemical Theory and Computation, 2017, 13, 1706-1711.	2.3	19

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73	Self-Sorting Click Reactions That Generate Spatially Controlled Chemical Functionality on Surfaces. Langmuir, 2013, 29, 5920-5926.	1.6	18
74	Magnetic-Field-Assisted Fabrication and Manipulation of Nonspherical Polymer Particles in Ferrofluid-Based Droplet Microfluidics. Langmuir, 2015, 31, 8531-8534.	1.6	18
75	Direct functionalization of KevlarÂ® with copolymers containing sulfonyl nitrenes. Polymer Chemistry, 2015, 6, 3090-3097.	1.9	18
76	Oligothiophene based organic semiconductors with cross-linkable benzophenone moieties. Synthetic Metals, 2008, 158, 958-963.	2.1	16
77	Nanoscale Surface Creasing Induced by Post-polymerization Modification. ACS Nano, 2015, 9, 10961-10969.	7.3	16
78	Sialylated Receptor Setting InfluencesMycoplasma pneumoniaeAttachment and Gliding Motility. Molecular Microbiology, 2018, 109, 735-744.	1.2	16
79	Blends of Poly(butylene glutarate) and Poly(lactic acid) with Enhanced Ductility and Composting Performance. ACS Applied Polymer Materials, 2021, 3, 1652-1663.	2.0	14
80	Fully Synthetic Heparan Sulfate-Based Neural Tissue Construct That Maintains the Undifferentiated State of Neural Stem Cells. ACS Chemical Biology, 2019, 14, 1921-1929.	1.6	11
81	Degradable Polycaprolactone and Polylactide Homopolymer and Block Copolymer Brushes Prepared by Surface-Initiated Polymerization with Triazabicyclodecene and Zirconium Catalysts. Langmuir, 2015, 31, 10183-10189.	1.6	10
82	Morphology, Structure, and Enhanced Intramolecular Conduction in Ultralong Conjugated Polymer Brushes. Journal of Physical Chemistry C, 2018, 122, 7586-7596.	1.5	10
83	Rapid Electrochemical Reduction of Ni(II) Generates Reactive Monolayers for Conjugated Polymer Brushes in One Step. Langmuir, 2014, 30, 10465-10470.	1.6	9
84	SuFEx-based strategies for the preparation of functional particles and cation exchange resins. Chemical Communications, 2019, 55, 3891-3894.	2.2	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. Environmental Science & Technology, 2021, 55, 11646-11656.	4.6	6
86	Distinct Mycoplasma pneumoniae Interactions with Sulfated and Sialylated Receptors. Infection and Immunity, 2020, 88, .	1.0	5
87	Semi-aromatic biobased polyesters derived from lignin and cyclic carbonates. Green Chemistry, 2021, 23, 9658-9668.	4.6	5
88	Versatile Methodology for Glycosurfaces: Direct Ligation of Nonderivatized Reducing Saccharides to Poly(pentafluorophenyl acrylate) Grafted Surfaces via Hydrazide Conjugation. Langmuir, 2017, 33, 8821-8828.	1.6	4
89	Photocross-linking Kinetics Study of Benzophenone Containing Zwitterionic Copolymers. ACS Omega, 2020, 5, 9204-9211.	1.6	4
90	Energy Transfer in Poly(3-thiopheneacetic acid) and Oligothiophene Polyelectrolyteâ^'Surfactant Complexes. Langmuir, 2003, 19, 8119-8121.	1.6	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 Surfaceâ€Initiated Kumada Catalystâ€Transfer Polycondensation. Macromolecular Symposia, 2015, 351, 27-36.	0.4	3
93	The Formation and Evolution of Creased Morphologies Using Reactive Diffusion in Ultrathin Polymer Brush Platforms. Advanced Materials Interfaces, 2017, 4, 1700084.	1.9	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.	0.1	0
97	Bolaform Amphiphiles, Semiconducting and Photoreactive: Layer-by-Layer Assembly. , 0, , 519-532.		0