

Kevin D Moeller

List of Publications by Year in descending order

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115
papers

5,456
citations

76326

40
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91884

69
g-index

120
all docs

120
docs citations

120
times ranked

2560
citing authors

#	ARTICLE	IF	CITATIONS
1	Using Physical Organic Chemistry To Shape the Course of Electrochemical Reactions. <i>Chemical Reviews</i> , 2018, 118, 4817-4833.	47.7	512
2	Synthetic Applications of Anodic Electrochemistry. <i>Tetrahedron</i> , 2000, 56, 9527-9554.	1.9	468
3	Anodic Cyclization Reactions and the Mechanistic Strategies That Enable Optimization. <i>Accounts of Chemical Research</i> , 2017, 50, 2346-2352.	15.6	166
4	Insights into the Mechanism of Anodic N=C Bond Formation by Dehydrogenative Coupling. <i>Journal of the American Chemical Society</i> , 2017, 139, 12317-12324.	13.7	166
5	Intramolecular Anodic Olefin Coupling Reactions: The Use of a Nitrogen Trapping Group. <i>Journal of the American Chemical Society</i> , 2008, 130, 13542-13543.	13.7	134
6	Intramolecular Anodic Olefin Coupling Reactions and the Synthesis of Cyclic Amines. <i>Journal of the American Chemical Society</i> , 2010, 132, 2839-2844.	13.7	116
7	Paired Electrolysis in the Simultaneous Production of Synthetic Intermediates and Substrates. <i>Journal of the American Chemical Society</i> , 2016, 138, 15110-15113.	13.7	116
8	Cyclization Reactions of Anode-Generated Amidyl Radicals. <i>Journal of Organic Chemistry</i> , 2014, 79, 379-391.	3.2	100
9	Sunlight, electrochemistry, and sustainable oxidation reactions. <i>Green Chemistry</i> , 2014, 16, 69-72.	9.0	95
10	Oxidative Cyclization Based on Reversing the Polarity of Enol Ethers and Ketene Dithioacetals. Construction of a Tetrahydrofuran Ring and Application to the Synthesis of (+)-Nemorensic Acid. <i>Journal of the American Chemical Society</i> , 2002, 124, 10101-10111.	13.7	94
11	Oxidative Cyclizations: The Asymmetric Synthesis of (âˆ-) -Alliacol A. <i>Journal of the American Chemical Society</i> , 2004, 126, 9106-9111.	13.7	94
12	Electrochemical synthesis of benzoxazoles from anilides â€” a new approach to employ amidyl radical intermediates. <i>Chemical Communications</i> , 2017, 53, 2974-2977.	4.1	90
13	Intramolecular Anodic Olefin Coupling Reactions: Using Radical Cation Intermediates to Trigger New Umpolung Reactions. <i>Synlett</i> , 2009, 2009, 1208-1218.	1.8	89
14	Paired Electrochemical Reactions and the On-Site Generation of a Chemical Reagent. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 3562-3565.	13.8	88
15	From Molecules to Molecular Surfaces. Exploiting the Interplay Between Organic Synthesis and Electrochemistry. <i>Accounts of Chemical Research</i> , 2020, 53, 135-143.	15.6	85
16	Building Functionalized Peptidomimetics: Use of Electroauxiliaries for Introducing N-Acyliminium Ions into Peptides. <i>Journal of the American Chemical Society</i> , 2006, 128, 13761-13771.	13.7	78
17	Intramolecular anodic olefin coupling reactions: the use of bis enol ether substrates. <i>Journal of the American Chemical Society</i> , 1992, 114, 1033-1041.	13.7	75
18	Practical Electrochemical Anodic Oxidation of Polycyclic Lactams for Late Stage Functionalization. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 10555-10558.	13.8	74

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19	Introduction: Electrochemistry: Technology, Synthesis, Energy, and Materials. <i>Chemical Reviews</i> , 2018, 118, 4483-4484.	47.7	73
20	Intramolecular anodic olefin coupling reactions: a useful method for carbon-carbon bond formation. <i>Journal of the American Chemical Society</i> , 1991, 113, 7372-7385.	13.7	69
21	Conformationally Constrained Substance P Analogues: The Total Synthesis of a Constrained Peptidomimetic for the Phe7-Phe8 Region. <i>Journal of Organic Chemistry</i> , 2000, 65, 2484-2493.	3.2	68
22	Anodic Amide Oxidation/Olefin Metathesis Strategies: Developing a Unified Approach to the Synthesis of Bicyclic Lactam Peptidomimetics. <i>Tetrahedron</i> , 2000, 56, 10113-10125.	1.9	67
23	Reversing the Polarity of Enol Ethers: An Anodic Route to Tetrahydrofuran and Tetrahydropyran Rings. <i>Journal of the American Chemical Society</i> , 2000, 122, 5636-5637.	13.7	66
24	Intramolecular Anodic Olefin Coupling Reactions: Use of the Reaction Rate To Control Substrate/Product Selectivity. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 8004-8007.	13.8	64
25	Anodic electrochemistry and the use of a 6-volt lantern battery: A simple method for attempting electrochemically based synthetic transformations. <i>Tetrahedron Letters</i> , 1996, 37, 8317-8320.	1.4	63
26	Building Addressable Libraries: The Use of Electrochemistry for Generating Reactive Pd(II) Reagents at Preselected Sites on a Chip. <i>Journal of the American Chemical Society</i> , 2004, 126, 6212-6213.	13.7	63
27	Conformationally Restricted TRH Analogs: The Compatibility of a 6,5-Bicyclic Lactam-Based Mimetic with Binding to TRH-R. <i>Journal of the American Chemical Society</i> , 1996, 118, 10106-10112.	13.7	56
28	Organic Electrochemistry as a Tool for Synthesis: Umpolung Reactions, Reactive Intermediates, and the Design of New Synthetic Methods. <i>Electrochemical Society Interface</i> , 2002, 11, 36-42.	0.4	56
29	Intramolecular Anodic Olefin Coupling Reactions and the Use of Electron-Rich Aryl Rings. <i>Journal of Organic Chemistry</i> , 1996, 61, 1578-1598.	3.2	55
30	Anodic Coupling Reactions: A Sequential Cyclization Route to the Arteannuin Ring Skeleton. <i>Organic Letters</i> , 2007, 9, 4599-4602.	4.6	55
31	Investigating the Reactivity of Radical Cations: Experimental and Computational Insights into the Reactions of Radical Cations with Alcohol and <i>p</i> -Toluene Sulfonamide Nucleophiles. <i>Journal of the American Chemical Society</i> , 2012, 134, 18338-18344.	13.7	55
32	Anodic oxidations and polarity: exploring the chemistry of olefinic radical cations. <i>Tetrahedron</i> , 2009, 65, 10863-10875.	1.9	52
33	Anodic Coupling Reactions and the Synthesis of C-Glycosides. <i>Organic Letters</i> , 2010, 12, 2590-2593.	4.6	52
34	Intramolecular Anodic Olefin Coupling Reactions: The Effect of Polarization on Carbon-Carbon Bond Formation. <i>Journal of the American Chemical Society</i> , 2007, 129, 12414-12415.	13.7	50
35	Oxidative Cyclization Reactions: Controlling the Course of a Radical Cation-Derived Reaction with the Use of a Second Nucleophile. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 12865-12868.	13.8	50
36	Building Addressable Libraries: The Use of Electrochemistry for Spatially Isolating a Heck Reaction on a Chip. <i>Journal of the American Chemical Society</i> , 2005, 127, 1392-1393.	13.7	46

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37	Photovoltaic-driven organic electrosynthesis and efforts toward more sustainable oxidation reactions. <i>Beilstein Journal of Organic Chemistry</i> , 2015, 11, 280-287.	2.2	44
38	Organic Electrochemistry: Expanding the Scope of Paired Reactions. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 12883-12890.	13.8	44
39	Anodic amide oxidations in the presence of electron-rich phenyl rings: evidence for an intramolecular electron-transfer mechanism. <i>Journal of Organic Chemistry</i> , 1991, 56, 1058-1067.	3.2	42
40	Electrochemically Assisted Heck Reactions. <i>Organic Letters</i> , 2005, 7, 5381-5383.	4.6	42
41	Anodic cyclization reactions and the synthesis of (α^{\sim})-crobarbatic acid. <i>Tetrahedron Letters</i> , 2008, 49, 3868-3871.	1.4	42
42	Solvolysis, Electrochemistry, and Development of Synthetic Building Blocks from Sawdust. <i>Journal of Organic Chemistry</i> , 2015, 80, 11953-11962.	3.2	42
43	Anodic amide oxidations: the synthesis of two spirocyclic L-pyroglutamide building blocks. <i>Journal of Organic Chemistry</i> , 1992, 57, 6360-6363.	3.2	40
44	Intramolecular Anodic Olefin Coupling Reactions and the Use of Vinylsilanes. <i>Journal of the American Chemical Society</i> , 1994, 116, 3347-3356.	13.7	39
45	Anodic oxidations of electron-rich olefins: radical cation based approaches to the synthesis of bridged bicyclic ring skeletons. <i>Tetrahedron</i> , 2001, 57, 5183-5197.	1.9	39
46	Building Addressable Libraries: A Spatially Isolated, Chip-Based Reductive Amination Reactions. <i>Journal of the American Chemical Society</i> , 2006, 128, 70-71.	13.7	38
47	Anodic Coupling Reactions: Exploring the Generality of Curtin-Hammett Controlled Reactions. <i>Organic Letters</i> , 2011, 13, 1678-1681.	4.6	38
48	Intramolecular Anodic Olefin Coupling Reactions: The Use of Allylsilane Coupling Partners with Allylic Alkoxy Groups. <i>Journal of Organic Chemistry</i> , 1999, 64, 2805-2813.	3.2	37
49	Constrained Peptidomimetics for TRH: cis-Peptide Bond Analogs. <i>Tetrahedron</i> , 2000, 56, 9791-9800.	1.9	37
50	Building Addressable Libraries: Site Selective Coumarin Synthesis and the Real-Time Signaling of Antibody-Coumarin Binding. <i>Organic Letters</i> , 2006, 8, 709-712.	4.6	37
51	Anodic coupling of carboxylic acids to electron-rich double bonds: A surprising non-Kolbe pathway to lactones. <i>Beilstein Journal of Organic Chemistry</i> , 2013, 9, 1630-1636.	2.2	36
52	Paired Electrochemical Reactions and the On-Site Generation of a Chemical Reagent. <i>Angewandte Chemie</i> , 2019, 131, 3600-3603.	2.0	35
53	Conformationally Restricted TRH Analogs: A Probe for the Pyroglutamate Region. <i>Journal of Medicinal Chemistry</i> , 1996, 39, 1571-1574.	6.4	34
54	Microelectrode Arrays and Ceric Ammonium Nitrate: A Simple Strategy for Developing New Site-Selective Synthetic Methods. <i>Journal of the American Chemical Society</i> , 2008, 130, 11290-11291.	13.7	34

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55	Building Addressable Libraries: Site-Selective Suzuki Reactions on Microelectrode Arrays. <i>Organic Letters</i> , 2009, 11, 1273-1276.	4.6	34
56	Intramolecular carbon-carbon bond forming reactions at the anode. <i>Topics in Current Chemistry</i> , 1997, , 49-86.	4.0	34
57	Moving Known Libraries to an Addressable Array: A Site-Selective Hetero-Michael Reaction. <i>Bioconjugate Chemistry</i> , 2008, 19, 1514-1517.	3.6	33
58	Oxidative Cyclizations, the Synthesis of Aryl-Substituted C-Glycosides, and the Role of the Second Electron Transfer Step. <i>Organic Letters</i> , 2013, 15, 5818-5821.	4.6	33
59	Anodic Coupling Reactions: Probing the Stereochemistry of Tetrahydrofuran Formation. A Short, Convenient Synthesis of Linalool Oxide. <i>Organic Letters</i> , 2001, 3, 2685-2688.	4.6	31
60	Intramolecular Anodic Olefin Coupling Reactions: A New Approach to the Synthesis of Angularly Fused, Tricyclic Enones. <i>Journal of Organic Chemistry</i> , 1994, 59, 2381-2389.	3.2	30
61	Anodic cyclization reactions: probing the chemistry of N,O-ketene acetal derived radical cations. <i>Tetrahedron</i> , 2006, 62, 6536-6550.	1.9	30
62	Anodic Cyclization Reactions: Reversing the Polarity of Ketene Dithioacetal Groups. <i>Organic Letters</i> , 2001, 3, 1729-1732.	4.6	29
63	Constrained peptidomimetics: building bicyclic analogs of pyrazoline derivatives. <i>Tetrahedron</i> , 2003, 59, 8515-8523.	1.9	29
64	Site-Selectively Functionalizing Microelectrode Arrays: The Use of Cu(I)-Catalysts. <i>Langmuir</i> , 2011, 27, 11199-11205.	3.5	29
65	Anodic Cyclization Reactions: Capitalizing on an Intramolecular Electron Transfer to Trigger the Synthesis of a Key Tetrahydropyran Building Block. <i>Journal of the American Chemical Society</i> , 2002, 124, 9368-9369.	13.7	28
66	Building addressable libraries: a site-selective click-reaction strategy for rapidly assembling mass spectrometry cleavable linkers. <i>Chemical Communications</i> , 2009, , 5573.	4.1	28
67	Connecting the dots: using sunlight to drive electrochemical oxidations. <i>Green Chemistry</i> , 2011, 13, 1652.	9.0	28
68	Toward the Selective Inhibition of G Proteins: Total Synthesis of a Simplified YM-254890 Analog. <i>Organic Letters</i> , 2015, 17, 2270-2273.	4.6	28
69	Building Addressable Libraries: Site-Selective Lewis Acid (Scandium(III)) Catalyzed Reactions. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 5872-5874.	13.8	27
70	Building Addressable Libraries: Site-Selective Formation of an <i>N</i> -Acyliminium Ion Intermediate. <i>Organic Letters</i> , 2008, 10, 2501-2504.	4.6	26
71	Building Addressable Libraries: Site-Selective Use of Pd(0) Catalysts on Microelectrode Arrays. <i>Journal of the American Chemical Society</i> , 2010, 132, 16610-16616.	13.7	26
72	Site-Selective Chemistry and the Attachment of Peptides to the Surface of a Microelectrode Array. <i>Journal of the American Chemical Society</i> , 2012, 134, 16891-16898.	13.7	26

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73	Oxidative Cyclization Reactions: Amide Trapping Groups and the Synthesis of Furanones. <i>Organic Letters</i> , 2005, 7, 3553-3556.	4.6	25
74	Conformationally restricted TRH analogues. <i>Bioorganic and Medicinal Chemistry</i> , 2002, 10, 291-302.	3.0	24
75	A New Porous Reaction Layer for Developing Addressable Molecular Libraries. <i>Journal of the American Chemical Society</i> , 2009, 131, 16638-16639.	13.7	24
76	Anodic olefin coupling reactions involving ketene dithioacetals: evidence for a radical-type cyclization. <i>Tetrahedron Letters</i> , 2002, 43, 7159-7161.	1.4	23
77	The Use of UV-Cross-Linkable Di-Block Copolymers as Functional Reaction Surfaces for Microelectrode Arrays. <i>Journal of the Electrochemical Society</i> , 2013, 160, G3020-G3029.	2.9	22
78	Introduction to Microelectrode Arrays, the Site-Selective Functionalization of Electrode Surfaces, and the Real-Time Detection of Binding Events. <i>Langmuir</i> , 2015, 31, 7697-7706.	3.5	22
79	Conformationally Constrained Peptide Mimetics: The Use of a Small Lactam Ring as an HIV-1 Antigen Constraint. <i>Journal of the American Chemical Society</i> , 1997, 119, 12394-12395.	13.7	21
80	Intramolecular Anodic Olefin Coupling Reactions: Using Competition Studies to Probe the Mechanism of Oxidative Cyclization Reactions. <i>Organic Letters</i> , 2010, 12, 1720-1723.	4.6	20
81	Intramolecular anodic olefin coupling reactions: the use of allyl- and vinylsilanes in the construction of quaternary carbons. <i>Journal of Organic Chemistry</i> , 1993, 58, 3478-3479.	3.2	19
82	Microelectrode Arrays: A General Strategy for Using Oxidation Reactions To Site Selectively Modify Electrode Surfaces. <i>Langmuir</i> , 2014, 30, 2280-2286.	3.5	19
83	Chemoselectivity and the Chan-Lam Coupling Reaction: Adding Amino Acids to Polymer-Coated Microelectrode Arrays. <i>Journal of Organic Chemistry</i> , 2016, 81, 1527-1534.	3.2	19
84	Anti-hypertensive mechanisms of cyclic depsipeptide inhibitor ligands for Gq/11 class G proteins. <i>Pharmacological Research</i> , 2019, 141, 264-275.	7.1	18
85	Building constrained peptidomimetics: a convenient approach to 3-phenyl-5-vinyl substituted proline derivatives. <i>Tetrahedron</i> , 2001, 57, 6407-6415.	1.9	17
86	RGS2 squelches vascular G _{i/o} and G _q signaling to modulate myogenic tone and promote uterine blood flow. <i>Physiological Reports</i> , 2016, 4, e12692.	1.7	17
87	Electrochemistry in Synthetic Organic Chemistry. <i>Journal of Organic Chemistry</i> , 2021, 86, 15845-15846.	3.2	14
88	Site-Selective, Cleavable Linkers: Quality Control and the Characterization of Small Molecules on Microelectrode Arrays. <i>Journal of Organic Chemistry</i> , 2011, 76, 9053-9059.	3.2	13
89	Organic Electrochemistry and a Role Reversal: Using Synthesis To Optimize Electrochemical Methods. <i>Journal of the American Chemical Society</i> , 2018, 140, 7395-7398.	13.7	13
90	Competition studies and the relative reactivity of enol ether and allylsilane coupling partners toward ketene dithioacetal derived radical cations. <i>Tetrahedron Letters</i> , 2015, 56, 3595-3599.	1.4	12

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91	New Methods for the Site-Selective Placement of Peptides on a Microelectrode Array: Probing VEGF α Binding as Proof of Concept. ACS Chemical Biology, 2016, 11, 2829-2837.	3.4	12
92	Building addressable libraries: a site-selective allyl alkylation reaction. Tetrahedron Letters, 2008, 49, 5664-5667.	1.4	11
93	Intramolecular Hydroamination of Dithioacetals: An Easy Route To Cyclic Amino Acid Derivatives. Organic Letters, 2010, 12, 5174-5177.	4.6	11
94	Building Addressable Libraries: Amino Acid Derived Fluorescent Linkers. Langmuir, 2012, 28, 1689-1693.	3.5	10
95	Microelectrode Arrays and the Use of PEG-Functionalized Diblock Copolymer Coatings. Biosensors, 2014, 4, 318-328.	4.7	10
96	Considering organic mechanisms and the optimization of current flow in an electrochemical oxidative condensation reaction. Organic Chemistry Frontiers, 2016, 3, 1236-1240.	4.5	10
97	Building Addressable Libraries: The Use of "Safety-Catch" Linkers on Microelectrode Arrays. Journal of the American Chemical Society, 2010, 132, 17405-17407.	13.7	9
98	Electrochemically Generated Organometallic Reagents and Site-Selective Synthesis on a Microelectrode Array. Organometallics, 2014, 33, 4607-4616.	2.3	9
99	Electroorganic Synthesis and the Construction of Addressable Molecular Surfaces. ChemElectroChem, 2019, 6, 4134-4143.	3.4	8
100	Oxidative Cyclizations and the Synthesis of Lactones: A Streamlined Synthesis of epi-Crobarbatic Acid. Heterocycles, 2006, 67, 621.	0.7	8
101	Photoredox Catalysts: Synthesis of the Bipyrazine Ligand. Journal of Organic Chemistry, 2015, 80, 2032-2035.	3.2	7
102	Anodic Cyclizations, Seven-Membered Rings, and the Choice of Radical Cation vs. Radical Pathways. Chinese Journal of Chemistry, 2019, 37, 672-678.	4.9	7
103	The Synthesis of Bicyclic Piperazinone and Related Derivatives. , 1999, 23, 259-280.		6
104	Organic Electrochemistry: Expanding the Scope of Paired Reactions. Angewandte Chemie, 2021, 133, 12993-13000.	2.0	5
105	Anodic Olefin Coupling Reactions: Elucidating Radical Cation Mechanisms and the Interplay between Cyclization and Second Oxidation Steps. Chemical Record, 2021, 21, 2442-2452.	5.8	5
106	Microelectrode Arrays, Dihydroxylation, and the Development of an Orthogonal Safety-Catch Linker. Organic Letters, 2021, 23, 5440-5444.	4.6	4
107	Using a Combination of Electrochemical and Photoelectron Transfer Reactions to Gain New Insights into Oxidative Cyclization Reactions. Journal of the Electrochemical Society, 2020, 167, 155520.	2.9	4
108	Capitalizing on Mediated Electrolyses for the Construction of Complex, Addressable Molecular Surfaces. Journal of Organic Chemistry, 2021, 86, 15847-15865.	3.2	4

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109	Conformational Studies and Stereochemical Assignment of a Bicyclic Lactam-Containing Peptide Fragment by Two-Dimensional NMR Spectroscopy. <i>Magnetic Resonance in Chemistry</i> , 1997, 35, 267-272.	1.9	3
110	Câ€Glycosides, Arrayâ€based Addressable Libraries, and the Versatility of Constant Current Electrochemistry. <i>Electroanalysis</i> , 2016, 28, 2808-2817.	2.9	3
111	Lessons from an Array: Using an Electrode Surface to Control the Selectivity of a Solutionâ€Phase Chemical Reaction. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	3
112	APPLICATION OF HMBC AND HMQC-TOCSY NMR METHODS TO ASSIGN THE STRUCTURES OF BICYCLIC-PEPTIDE MIMETICS. <i>Journal of Coordination Chemistry</i> , 1994, 32, 135-144.	2.2	2
113	Lessons from an Array: Using an Electrode Surface to Control the Selectivity of a Solutionâ€Phase Chemical Reaction. <i>Angewandte Chemie</i> , 0, , .	2.0	0
114	15 Paired Electrolysis. , 2022, , .		0
115	Building Chemical Probes based on the Natural Products YM-254890 and FR900359: Advances Toward Scalability. <i>Synthesis</i> , 0, , .	2.3	0