

Igor V Alabugin

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2054724/publications.pdf>

Version: 2024-02-01

200
papers

9,871
citations

23500

58
h-index

46693

89
g-index

247
all docs

247
docs citations

247
times ranked

6765
citing authors

#	ARTICLE	IF	CITATIONS
1	Electronic Basis of Improper Hydrogen Bonding: A Subtle Balance of Hyperconjugation and Rehybridization. <i>Journal of the American Chemical Society</i> , 2003, 125, 5973-5987.	6.6	700
2	Cyclizations of Alkynes: Revisiting Baldwin's Rules for Ring Closure. <i>Chemical Reviews</i> , 2011, 111, 6513-6556.	23.0	448
3	Stereoelectronic Effects and General Trends in Hyperconjugative Acceptor Ability of σ Bonds. <i>Journal of the American Chemical Society</i> , 2002, 124, 3175-3185.	6.6	268
4	Hyperconjugation. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , 2011, 1, 109-141.	6.2	267
5	Stereoelectronic Interactions in Cyclohexane, 1,3-Dioxane, 1,3-Oxathiane, and 1,3-Dithiane: W-Effect, σ^*C-H Interactions, Anomeric Effect What Is Really Important?. <i>Journal of Organic Chemistry</i> , 2000, 65, 3910-3919.	1.7	210
6	Concerted Reactions That Produce Diradicals and Zwitterions: Electronic, Steric, Conformational, and Kinetic Control of Cycloaromatization Processes. <i>Chemical Reviews</i> , 2013, 113, 7089-7129.	23.0	184
7	Rules for Anionic and Radical Ring Closure of Alkynes. <i>Journal of the American Chemical Society</i> , 2011, 133, 12608-12623.	6.6	143
8	Finding the right path: Baldwin's Rules for Ring Closure and stereoelectronic control of cyclizations. <i>Chemical Communications</i> , 2013, 49, 11246.	2.2	142
9	Homoanomeric Effects in Six-Membered Heterocycles. <i>Journal of the American Chemical Society</i> , 2003, 125, 14014-14031.	6.6	134
10	Control of Kinetics and Thermodynamics of [1,5]-Shifts by Aromaticity: A View through the Prism of Marcus Theory. <i>Journal of the American Chemical Society</i> , 2003, 125, 9329-9342.	6.6	131
11	Moderating Strain without Sacrificing Reactivity: Design of Fast and Tunable Noncatalyzed Alkyne-Azide Cycloadditions via Stereoelectronically Controlled Transition State Stabilization. <i>Journal of the American Chemical Society</i> , 2013, 135, 1558-1569.	6.6	120
12	The Baldwin rules: revised and extended. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , 2016, 6, 487-514.	6.2	120
13	1,2-Dications in Organic Main Group Systems. <i>Chemical Reviews</i> , 2003, 103, 229-282.	23.0	114
14	Orbital hybridization: a key electronic factor in control of structure and reactivity. <i>Journal of Physical Organic Chemistry</i> , 2015, 28, 147-162.	0.9	109
15	5-Exo-dig Radical Cyclization of Eneynes: The First Synthesis of Tin-Substituted Benzofulvenes. <i>Organic Letters</i> , 2004, 6, 2457-2460.	2.4	107
16	Selective Transition State Stabilization via Hyperconjugative and Conjugative Assistance: Stereoelectronic Concept for Copper-Free Click Chemistry. <i>Journal of Organic Chemistry</i> , 2012, 77, 75-89.	1.7	107
17	Photoinduced Phase Transfer of Luminescent Quantum Dots to Polar and Aqueous Media. <i>Journal of the American Chemical Society</i> , 2012, 134, 16370-16378.	6.6	102
18	Reactant Destabilization in the Bergman Cyclization and Rational Design of Light- and pH-Activated Eneynes. <i>Journal of Physical Chemistry A</i> , 2003, 107, 3363-3371.	1.1	100

#	ARTICLE	IF	CITATIONS
19	“Two Functional Groups in One Package” Using Both Alkyne π -Bonds in Cascade Transformations. <i>Journal of Organic Chemistry</i> , 2013, 78, 7777-7784.	1.7	100
20	Tuning Rate of the Bergman Cyclization of Benzannelated Enediyne with Ortho Substituents. <i>Organic Letters</i> , 2002, 4, 1119-1122.	2.4	98
21	Stereoelectronic Chameleons: The Donor–Acceptor Dichotomy of Functional Groups. <i>Chemistry - A European Journal</i> , 2017, 23, 3225-3245.	1.7	95
22	Traceless Directing Groups in Radical Cascades: From Oligoalkynes to Fused Helicenes without Tethered Initiators. <i>Journal of the American Chemical Society</i> , 2015, 137, 1165-1180.	6.6	94
23	Polyaromatic Ribbon/Benzofuran Fusion via Consecutive Endo Cyclizations of Enediyne. <i>Organic Letters</i> , 2012, 14, 6032-6035.	2.4	91
24	Radical Cascade Transformations of Tris(<i>o</i> -aryleneethynyls) into Substituted Benzo[<i>a</i>]indeno[2,1- <i>c</i>]fluorenes. <i>Journal of the American Chemical Society</i> , 2008, 130, 11535-11545.	6.6	90
25	Radical-Anionic Cyclizations of Enediyne: Remarkable Effects of Benzannelation and Remote Substituents on Cycloaromatization Reactions. <i>Journal of the American Chemical Society</i> , 2003, 125, 4495-4509.	6.6	89
26	Thermodynamic and Strain Effects in the Competition between 5-Exo-dig and 6-Endo-dig Cyclizations of Vinyl and Aryl Radicals. <i>Journal of the American Chemical Society</i> , 2005, 127, 12583-12594.	6.6	88
27	Alkenes as Alkyne Equivalents in Radical Cascades Terminated by Fragmentations: Overcoming Stereoelectronic Restrictions on Ring Expansions for the Preparation of Expanded Polyaromatics. <i>Journal of the American Chemical Society</i> , 2015, 137, 6335-6349.	6.6	88
28	How to Lose a Bond in Two Ways – The Diradical/Zwitterion Dichotomy in Cycloaromatization Reactions. <i>European Journal of Organic Chemistry</i> , 2013, 2505-2527.	1.2	86
29	Hybridization Trends for Main Group Elements and Expanding the Bent’s Rule Beyond Carbon: More than Electronegativity. <i>Journal of Physical Chemistry A</i> , 2014, 118, 3663-3677.	1.1	86
30	C1 \rightarrow C5 Photochemical Cyclization of Enediyne. <i>Journal of the American Chemical Society</i> , 2002, 124, 9052-9053.	6.6	84
31	Effect of Double-Hyperconjugation on the Apparent Donor Ability of π -Bonds: Insights from the Relative Stability of $\dot{\text{I}}$ -Substituted Cyclohexyl Cations. <i>Journal of Organic Chemistry</i> , 2004, 69, 9011-9024.	1.7	83
32	Alkyne Origami: Folding Oligoalkynes into Polyaromatics. <i>Accounts of Chemical Research</i> , 2018, 51, 1206-1219.	7.6	83
33	Hyperconjugation. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , 2019, 9, e1389.	6.2	80
34	Stereoelectronic power of oxygen in control of chemical reactivity: the anomeric effect is not alone. <i>Chemical Society Reviews</i> , 2021, 50, 10253-10345.	18.7	80
35	Stereoelectronic source of the anomalous stability of bis-peroxides. <i>Chemical Science</i> , 2015, 6, 6783-6791.	3.7	79
36	Aromatic Transition States in Nonpericyclic Reactions: Anionic 5-Endo Cyclizations Are Aborted Sigmatropic Shifts. <i>Journal of the American Chemical Society</i> , 2012, 134, 10584-10594.	6.6	78

#	ARTICLE	IF	CITATIONS
37	Coupling Nâ€“H Deprotonation, Câ€“H Activation, and Oxidation: Metal-Free C(sp³)-â€“H Aminations with Unprotected Anilines. <i>Journal of the American Chemical Society</i> , 2017, 139, 16210-16221.	6.6	78
38	Anomeric effect, hyperconjugation and electrostatics: lessons from complexity in a classic stereoelectronic phenomenon. <i>Chemical Society Reviews</i> , 2021, 50, 10212-10252.	18.7	78
39	Ortho Effect in the Bergman Cyclization:Â Comparison of Experimental Approaches and Dissection of Cycloaromatization Kinetics. <i>Journal of Organic Chemistry</i> , 2006, 71, 962-975.	1.7	77
40	Triplet Acetylenes as Synthetic Equivalents of 1,2-Bicarbenes:Â Phantom n,ï€* State Controls Reactivity in Triplet Photocycloaddition. <i>Journal of the American Chemical Society</i> , 2005, 127, 4270-4285.	6.6	75
41	Drawing Catalytic Power from Charge Separation: Stereoelectronic and Zwitterionic Assistance in the Au(I)-Catalyzed Bergman Cyclization. <i>Journal of the American Chemical Society</i> , 2017, 139, 3406-3416.	6.6	73
42	Polyaromatic Ribbons from Oligo-Alkynes via Selective Radical Cascade: Stitching Aromatic Rings with Polyacetylene Bridges. <i>Journal of the American Chemical Society</i> , 2012, 134, 9609-9614.	6.6	72
43	Rehybridization as a general mechanism for maximizing chemical and supramolecular bonding and a driving force for chemical reactions. <i>Journal of Computational Chemistry</i> , 2007, 28, 373-390.	1.5	71
44	Blue-Shifted and Red-Shifted Hydrogen Bonds in Hypervalent Rare-Gas FRgã~HÂˆÂˆY Sandwiches. <i>Journal of Physical Chemistry A</i> , 2004, 108, 4720-4730.	1.1	70
45	In Search of Efficient 5-Endo-dig Cyclization of a Carbon-Centered Radical: 40 Years from a Prediction to Another Success for the Baldwin Rules. <i>Journal of the American Chemical Society</i> , 2008, 130, 10984-10995.	6.6	67
46	The Missing C₁-â€“C₅ Cycloaromatization Reaction: Triplet State Antiaromaticity Relief and Self-Terminating Photorelease of Formaldehyde for Synthesis of Fulvenes from Enynes. <i>Journal of the American Chemical Society</i> , 2015, 137, 15441-15450.	6.6	67
47	5-Endo-Dig Radical Cyclizations:Â â€œThe Poor Cousinsâ€ of the Radical Cyclizations Family. <i>Journal of the American Chemical Society</i> , 2005, 127, 9534-9545.	6.6	66
48	Tuning Selectivity of Anionic Cyclizations: Competition between 5-Exo and 6-Endo-Dig Closures of Hydrazides of o-Acetylenyl Benzoic Acids and Based-Catalyzed Fragmentation/Recyclization of the Initial 5-Exo-Dig Products. <i>Journal of Organic Chemistry</i> , 2009, 74, 8106-8117.	1.7	66
49	Hybrids of amino acids and acetylenic DNA-photocleavers: optimising efficiency and selectivity for cancer phototherapy. <i>Organic and Biomolecular Chemistry</i> , 2012, 10, 3974.	1.5	66
50	Stereoelectronic Interactions as a Probe for the Existence of the Intramolecular Î±-Effect. <i>Journal of the American Chemical Society</i> , 2017, 139, 10799-10813.	6.6	66
51	Regioselective Oneâ€Pot Synthesis of Triptycenes via Tripleâ€Cycloadditions of Arynes to Ynolates. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 1298-1302.	7.2	65
52	Design of Leaving Groups in Radical Cï¿C Fragmentations: Throughâ€Bond 2câ€3e Interactions in Selfâ€Terminating Radical Cascades. <i>Chemistry - A European Journal</i> , 2014, 20, 8664-8669.	1.7	64
53	Interrupted Baeyerâ€Villiger Rearrangement: Building A Stereoelectronic Trap for the Criegee Intermediate. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 3372-3376.	7.2	64
54	Alkynes as Linchpins for the Additive Annulation of Biphenyls: Convergent Construction of Functionalized Fused Helicenes. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 12054-12058.	7.2	62

#	ARTICLE	IF	CITATIONS
55	C-Lysine Conjugates: pH-Controlled Light-Activated Reagents for Efficient Double-Stranded DNA Cleavage with Implications for Cancer Therapy. <i>Journal of the American Chemical Society</i> , 2009, 131, 11458-11470.	6.6	61
56	Upconversion of Reductants. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 5532-5550.	7.2	61
57	Synthesis of selectively deuterated fulvenes and indenenes from enediyne. <i>Organic and Biomolecular Chemistry</i> , 2005, 3, 218.	1.5	60
58	Conformationally Gated Fragmentations and Rearrangements Promoted by Interception of the Bergman Cyclization through Intramolecular H-Abstraction: A Possible Mechanism of Auto-Resistance to Natural Eneidyne Antibiotics?. <i>Journal of the American Chemical Society</i> , 2010, 132, 967-979.	6.6	60
59	Lysine-enediyne conjugates as photochemically triggered DNA double-strand cleavage agents. <i>Chemical Communications</i> , 2005, , 1444-1446.	2.2	59
60	Synthesis of Functionalized Phenanthrenes via Regioselective Oxidative Radical Cyclization. <i>Journal of Organic Chemistry</i> , 2015, 80, 11706-11717.	1.7	59
61	Dissecting Alkynes: Full Cleavage of Polarized C \equiv C Moiety via Sequential Bis-Michael Addition/Retro-Mannich Cascade. <i>Journal of Organic Chemistry</i> , 2011, 76, 7482-7490.	1.7	56
62	Ortho Effect in the Bergman Cyclization: Interception of p-Benzyne Intermediate by Intramolecular Hydrogen Abstraction. <i>Journal of Organic Chemistry</i> , 2006, 71, 954-961.	1.7	55
63	Drawing from a Pool of Radicals for the Design of Selective Enyne Cyclizations. <i>Organic Letters</i> , 2013, 15, 5650-5653.	2.4	53
64	Isonitriles as Stereoelectronic Chameleons: The Donor-Acceptor Dichotomy in Radical Additions. <i>Journal of the American Chemical Society</i> , 2018, 140, 14272-14288.	6.6	53
65	Coupling cyclizations with fragmentations for the preparation of heteroaromatics: quinolines from o-alkenyl arylisocyanides and boronic acids. <i>Chemical Communications</i> , 2015, 51, 12831-12834.	2.2	50
66	Ortho Effect in the Bergman Cyclization: Electronic and Steric Effects in Hydrogen Abstraction by 1-Substituted Naphthalene 5,8-Diradicals. <i>Journal of Physical Chemistry A</i> , 2006, 110, 2517-2526.	1.1	48
67	Radical O \rightarrow C Transposition: A Metal-Free Process for Conversion of Phenols into Benzoates and Benzamides. <i>Journal of Organic Chemistry</i> , 2011, 76, 1521-1537.	1.7	47
68	Strain-Promoted Azide-Alkyne Cycloadditions of Benzocyclononynes. <i>Journal of Organic Chemistry</i> , 2012, 77, 2093-2097.	1.7	47
69	Phosphorylated allenes: structure and interaction with electrophiles. <i>Russian Chemical Reviews</i> , 1997, 66, 205-224.	2.5	46
70	Efficient synthesis of the first betulonic acid-acetylene hybrids and their hepatoprotective and anti-inflammatory activity. <i>Bioorganic and Medicinal Chemistry</i> , 2009, 17, 5164-5169.	1.4	46
71	Gold(I)-Catalyzed Claisen Rearrangement of Allenyl Vinyl Ethers: Missing Transition States Revealed through Evolution of Aromaticity, Au(I) as an Oxophilic Lewis Acid, and Lower Energy Barriers from a High Energy Complex. <i>Journal of Organic Chemistry</i> , 2013, 78, 2059-2073.	1.7	46
72	Gold(I)-Catalyzed Allenyl Cope Rearrangement: Evolution from Asynchronicity to Trappable Intermediates Assisted by Stereoelectronic Switching. <i>Journal of the American Chemical Society</i> , 2016, 138, 2769-2779.	6.6	46

#	ARTICLE	IF	CITATIONS
73	Alkynes as Synthetic Equivalents of Ketones and Aldehydes: A Hidden Entry into Carbonyl Chemistry. <i>Molecules</i> , 2019, 24, 1036.	1.7	46
74	Rapid access to new bioconjugates of betulonic acid via click chemistry. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2011, 21, 62-65.	1.0	45
75	UV and Sunlight Driven Photoligation of Quantum Dots: Understanding the Photochemical Transformation of the Ligands. <i>Journal of the American Chemical Society</i> , 2015, 137, 2704-2714.	6.6	45
76	Two-Photon Excitation of Substituted Eneidyne. <i>Journal of Physical Chemistry A</i> , 2006, 110, 241-251.	1.1	44
77	Domino Fragmentations in Traceless Directing Groups of Radical Cascades: Evidence for the Formation of Alkoxy Radicals via C–O Scission. <i>Journal of Organic Chemistry</i> , 2016, 81, 6007-6017.	1.7	44
78	Stereoelectronic Control in the Ozone-Free Synthesis of Ozonides. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 4955-4959.	7.2	44
79	Coupling Radical Homoallylic Expansions with C–C Fragmentations for the Synthesis of Heteroaromatics: Quinolines from Reactions of <i>o</i> -Alkenylarylonitriles with Aryl, Alkyl, and Perfluoroalkyl Radicals. <i>Journal of Organic Chemistry</i> , 2017, 82, 4265-4278.	1.7	44
80	Ozone-Free Synthesis of Ozonides: Assembling Bicyclic Structures from 1,5-Diketones and Hydrogen Peroxide. <i>Journal of Organic Chemistry</i> , 2018, 83, 4402-4426.	1.7	44
81	Protected 32P-Labels in Deoxyribonucleotides: Investigation of Sequence Selectivity of DNA Photocleavage by Eneidyne, Fulvene, and Acetylene-Lysine Conjugates. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 3666-3670.	7.2	42
82	An Unexpected Rearrangement That Disassembles Alkyne Moiety Through Formal Nitrogen Atom Insertion between Two Acetylenic Carbons and Related Cascade Transformations: New Approach to <i>Sampangine</i> Derivatives and Polycyclic Aromatic Amides. <i>Journal of Organic Chemistry</i> , 2009, 74, 6143-6150.	1.7	42
83	Combining Ligand Design with Photoligation to Provide Compact, Colloidally Stable, and Easy to Conjugate Quantum Dots. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 2861-2869.	4.0	42
84	Regioselective One-Pot Synthesis of Triptycenes via Triple-Cycloadditions of Arynes to Ynolates. <i>Angewandte Chemie</i> , 2017, 129, 1318-1322.	1.6	40
85	Electrochemical behavior of <i>N</i> -oxyphthalimides: Cascades initiating self-sustaining catalytic reductive <i>N</i> -O bond cleavage. <i>Journal of Physical Organic Chemistry</i> , 2017, 30, e3744.	0.9	40
86	Substituted anilines: The tug-of-war between pyramidalization and resonance inside and outside of crystal cavities. <i>Computational and Theoretical Chemistry</i> , 2007, 813, 21-27.	1.5	39
87	Strain and stereoelectronics in cycloalkyne click chemistry. <i>Mendeleev Communications</i> , 2019, 29, 237-248.	0.6	39
88	Orbital Crossings Activated through Electron Injection: Opening Communication between Orthogonal Orbitals in Anionic C1–C5 Cyclizations of Eneidyne. <i>Journal of the American Chemical Society</i> , 2016, 138, 15617-15628.	6.6	38
89	Radical Alkyne <i>peri</i> -Annulation Reactions for the Synthesis of Functionalized Phenalenes, Benzanthenes, and Olympicene. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 3651-3655.	7.2	38
90	Impact of Excited-State Antiaromaticity Relief in a Fundamental Benzene Photoreaction Leading to Substituted Bicyclo[3.1.0]hexenes. <i>Journal of the American Chemical Society</i> , 2020, 142, 10942-10954.	6.6	37

#	ARTICLE	IF	CITATIONS
91	Double C-H amination by consecutive SET oxidations. <i>Chemical Communications</i> , 2016, 52, 7138-7141.	2.2	35
92	Fast Oxy-Cope Rearrangements of Bis-alkynes: Competition with Central C-C Bond Fragmentation and Incorporation in Tunable Cascades Diverging from a Common Bis-allenic Intermediate. <i>Journal of Organic Chemistry</i> , 2010, 75, 8689-8692.	1.7	34
93	CO ₂ or SO ₂ : Should It Stay, or Should It Go?. <i>Journal of Organic Chemistry</i> , 2019, 84, 6232-6243.	1.7	34
94	Comment on "Single-Crystal X-ray Structure of 1,3-Dimethylcyclobutadiene by Confinement in a Crystalline Matrix". <i>Science</i> , 2010, 330, 1047-1047.	6.0	33
95	Divergent Cyclizations of 1-R-Ethynyl-9,10-anthraquinones: Use of Thiourea as a S ²⁺ Equivalent in an "Anchor-Relay" Addition Mediated by Formal C-H Activation. <i>Journal of Organic Chemistry</i> , 2013, 78, 2074-2082.	1.7	33
96	Twisted Cycloalkynes and Remote Activation of "Click" Reactivity. <i>Chem</i> , 2017, 3, 629-640.	5.8	33
97	Organocatalyzed synthesis of fluorinated poly(aryl thioethers). <i>Nature Communications</i> , 2017, 8, 166.	5.8	33
98	Engineering pH-Gated Transitions for Selective and Efficient Double-Strand DNA Photocleavage in Hypoxic Tumors. <i>Journal of Medicinal Chemistry</i> , 2011, 54, 8501-8516.	2.9	32
99	Combining Traceless Directing Groups with Hybridization Control of Radical Reactivity: From Skipped Enynes to Defect-Free Hexagonal Frameworks. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 11633-11637.	7.2	32
100	Negative Charge as a Lens for Concentrating Antiaromaticity: Using a Pentagonal "Defect" and Helicene Strain for Cyclizations. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 1256-1262.	7.2	32
101	DNA damage-site recognition by lysine conjugates. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 13016-13021.	3.3	30
102	Stereocontrolled Synthesis of (E,Z)-Dienals via Tandem Rh(I)-Catalyzed Rearrangement of Propargyl Vinyl Ethers. <i>Organic Letters</i> , 2013, 15, 4462-4465.	2.4	30
103	Rerouting Radical Cascades: Intercepting the Homoallyl Ring Expansion in Enyne Cyclizations via S Scission. <i>Journal of Organic Chemistry</i> , 2014, 79, 7491-7501.	1.7	30
104	Alkynyl Crown Ethers as a Scaffold for Hyperconjugative Assistance in Nuncatalyzed Azide-Alkyne Click Reactions: Ion Sensing through Enhanced Transition-State Stabilization. <i>Journal of Organic Chemistry</i> , 2014, 79, 6221-6232.	1.7	30
105	Testing the limits of radical-anionic CH-amination: a 10-million-fold decrease in basicity opens a new path to hydroxyisoindolines via a mixed N/O-forming cascade. <i>Chemical Science</i> , 2020, 11, 6539-6555.	3.7	30
106	Oxidative Properties of Triflic Anhydride. Oxidation of Alcohols and Sulfides. <i>Journal of Organic Chemistry</i> , 1997, 62, 2483-2486.	1.7	29
107	Metal-Free Transformation of Phenols into Substituted Benzamides: A Highly Selective Radical 1,2-O ⁺ C Transposition in Aryl-N-phenylthiocarbamates. <i>Chemistry - A European Journal</i> , 2010, 16, 12316-12320.	1.7	29
108	Rh(I)-Catalyzed Transformation of Propargyl Vinyl Ethers into (E,Z)-Dienals: Stereoelectronic Role of trans Effect in a Metal-Mediated Pericyclic Process and a Shift from Homogeneous to Heterogeneous Catalysis During a One-Pot Reaction. <i>Journal of Organic Chemistry</i> , 2014, 79, 352-364.	1.7	29

#	ARTICLE	IF	CITATIONS
109	Twofold π -Extension of Polyarenes via Double and Triple Radical Alkyne <i>peri</i> -Annulations: Radical Cascades Converging on the Same Aromatic Core. <i>Journal of the American Chemical Society</i> , 2020, 142, 8352-8366.	6.6	28
110	<i>Exo</i> - π -Dig Radical Cascades of Skipped Enediynes: Building a Naphthalene Moiety within a Polycyclic Framework. <i>Chemistry - A European Journal</i> , 2014, 20, 390-393.	1.7	27
111	Dramatic Effects of Crystal Morphology on Solid State Reaction Course; Control by Crystal Disorder; Mechanistic and Exploratory Organic Photochemistry. <i>Journal of the American Chemical Society</i> , 1999, 121, 11930-11931.	6.6	25
112	Strain control in nucleophilic cyclizations: reversal of <i>exo</i> -selectivity in cyclizations of hydrazides of acetylenyl carboxylic acids by annealing to a pyrazole scaffold. <i>Journal of Physical Organic Chemistry</i> , 2012, 25, 998-1005.	0.9	25
113	σ -Stereoelectronic Umpolung: Converting a <i>p</i> -Donor into a π -Acceptor via Electron Injection and a Conformational Change. <i>Organic Letters</i> , 2013, 15, 2238-2241.	2.4	25
114	Formation of Alcohols and Carbonyl Compounds From Hexane and Cyclohexane With Water in a Liquid Film Plasma Reactor. <i>IEEE Transactions on Plasma Science</i> , 2014, 42, 1195-1205.	0.6	25
115	Lithium Salt Dissociation in Diblock Copolymer Electrolyte Using Fourier Transform Infrared Spectroscopy. <i>Frontiers in Energy Research</i> , 2020, 8, .	1.2	25
116	Expanding Stereoelectronic Limits of <i>endo</i> - <i>tet</i> Cyclizations: Synthesis of Benz[<i>b</i>]azepines from Donor-Acceptor Cyclopropanes. <i>Journal of the American Chemical Society</i> , 2021, 143, 13952-13961.	6.6	25
117	Radical 1,2- $\text{O}^{\dagger}\text{C}$ Transposition for Conversion of Phenols into Benzoates by Neophyl Rearrangement/Fragmentation Cascade. <i>Chemistry - A European Journal</i> , 2010, 16, 7683-7687.	1.7	24
118	Photochemical Activation of Enediyne Warheads: A Potential Tool for Targeted Antitumor Therapy. <i>Molecular Pharmaceutics</i> , 2018, 15, 768-797.	2.3	24
119	Experimental and Theoretical Host-Guest Photochemistry; Control of Reactivity with Host Variation and Theoretical Treatment With a Stress Shaped Reaction Cavity; Mechanistic and Exploratory Organic Photochemistry 1,2. <i>Tetrahedron</i> , 2000, 56, 6821-6831.	1.0	23
120	Overriding the alkynophilicity of gold: catalytic pathways from higher energy Au(I)-substrate complexes and reactant deactivation via unproductive complexation in the gold(I)-catalyzed propargyl Claisen rearrangement. <i>Organic and Biomolecular Chemistry</i> , 2013, 11, 1624.	1.5	23
121	Alkynes as Linchpins for the Additive Annulation of Biphenyls: Convergent Construction of Functionalized Fused Helicenes. <i>Angewandte Chemie</i> , 2016, 128, 12233-12237.	1.6	23
122	Convenient Ambient Temperature Generation of Sulfonyl Radicals. <i>Australian Journal of Chemistry</i> , 2013, 66, 336.	0.5	22
123	Synthesis of unstrained Criegee intermediates: inverse β -effect and other protective stereoelectronic forces can stop Baeyer-Villiger rearrangement of β -hydroperoxy- β -peroxylactones. <i>Chemical Science</i> , 2020, 11, 5313-5322.	3.7	22
124	Chameleonic Reactivity of Vicinal Diazonium Salt of Acetylenyl-9,10-anthraquinones: Synthetic Application toward Two Heterocyclic Targets. <i>Journal of Organic Chemistry</i> , 2011, 76, 8737-8748.	1.7	21
125	Five Roads That Converge at the Cyclic Peroxy-Criegee Intermediates: BF_3 -Catalyzed Synthesis of β -Hydroperoxy- β -peroxylactones. <i>Journal of Organic Chemistry</i> , 2018, 83, 13427-13445.	1.7	20
126	How to Build Rigid Oxygen-Rich Tricyclic Heterocycles from Triketones and Hydrogen Peroxide: Control of Dynamic Covalent Chemistry with Inverse β -Effect. <i>Journal of the American Chemical Society</i> , 2020, 142, 14588-14607.	6.6	20

#	ARTICLE	IF	CITATIONS
127	Urea as an organic solvent and reagent for the addition/cyclization/fragmentation cascades leading to 2-R-7H-dibenzo[de,h]quinolin-7-one analogues of Aporphinoid alkaloids. <i>RSC Advances</i> , 2011, 1, 1745.	1.7	19
128	Optimizing Amine-Mediated Alkyne-Allene Isomerization to Improve Benzannulation Cascades: Synergy between Theory and Experiments. <i>European Journal of Organic Chemistry</i> , 2019, 2019, 512-518.	1.2	19
129	Fine-tuning alkyne cycloadditions: Insights into photochemistry responsible for the double-strand DNA cleavage via structural perturbations in diaryl alkyne conjugates. <i>Beilstein Journal of Organic Chemistry</i> , 2011, 7, 813-823.	1.3	18
130	Antiaromaticity Gain Activates Tropone and Nonbenzenoid Aromatics as Normal-Electron-Demand Diels-Alder Dienes. <i>Organic Letters</i> , 2020, 22, 7083-7087.	2.4	18
131	Marriage of Peroxides and Nitrogen Heterocycles: Selective Three-Component Assembly, Peroxide-Preserving Rearrangement, and Stereoelectronic Source of Unusual Stability of Bridged Azaazonides. <i>Journal of the American Chemical Society</i> , 2021, 143, 6634-6648.	6.6	18
132	Mapping C ⁺ -H ⁺ ...M Interactions in Confined Spaces: (C ⁺ Me) ⁺ Au, Ag, Cu Complexes Reveal σ -Contraelectrostatic H Bonds Masquerading as Anagostic Interactions*. <i>Chemistry - A European Journal</i> , 2021, 27, 8127-8142.	1.7	18
133	Inverse \pm -Effect as the Ariadne's Thread on the Way to Tricyclic Aminoperoxides: Avoiding Thermodynamic Traps in the Labyrinth of Possibilities. <i>Journal of the American Chemical Society</i> , 2022, 144, 7264-7282.	6.6	17
134	Interrupted Baeyer-Villiger Rearrangement: Building A Stereoelectronic Trap for the Criegee Intermediate. <i>Angewandte Chemie</i> , 2018, 130, 3430-3434.	1.6	16
135	Cycloaromatization reactions: the testing ground for theory and experiment. <i>Advances in Physical Organic Chemistry</i> , 2007, , 1-33.	0.5	16
136	Excited State Energy Distribution and Redistribution and Chemical Reactivity; Mechanistic and Exploratory Organic Photochemistry 1,2. <i>Journal of the American Chemical Society</i> , 2000, 122, 952-953.	6.6	15
137	Conformational Flexibility of Fused Tetracenedione Propellers Obtained from One-Pot Reductive Dimerization of Acetylenic Quinones. <i>Journal of Organic Chemistry</i> , 2015, 80, 1618-1631.	1.7	15
138	Oxidized Derivatives of n-Hexane from a Water/Argon Continuous Flow Electrical Discharge Plasma Reactor. <i>Plasma Chemistry and Plasma Processing</i> , 2016, 36, 553-584.	1.1	15
139	Stereoelectronic Control in the Ozone-Free Synthesis of Ozonides. <i>Angewandte Chemie</i> , 2017, 129, 5037-5041.	1.6	15
140	Peroxy-carbenium Ions as the σ -Gatekeepers in Reaction Design: Assistance from Inverse Alpha-Effect in Three-Component β -Alkoxy- β -peroxylactones Synthesis. <i>Chemistry - A European Journal</i> , 2019, 25, 14460-14468.	1.7	15
141	Oxidative Photocyclization of Aromatic Schiff Bases in Synthesis of Phenanthridines and Other Aza-PAHs. <i>International Journal of Molecular Sciences</i> , 2020, 21, 5868.	1.8	15
142	Phenalenannulations: Three-Point Double Annulation Reactions that Convert Benzenes into Pyrenes. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 14352-14357.	7.2	15
143	Localized Antiaromaticity Hotspot Drives Reductive Dehydrogenative Cyclizations in Bis- and Mono-Helicenes. <i>Journal of the American Chemical Society</i> , 2022, 144, 12321-12338.	6.6	15
144	Triplet Acetylenes as Synthetic Equivalents of 1,2-Bicarbenes, Part II: New Supramolecular Scaffolds from Photochemical Cycloaddition of Diarylacetylenes to 1,4-Cyclohexadienes. <i>Chemistry - A European Journal</i> , 2005, 11, 4953-4960.	1.7	14

#	ARTICLE	IF	CITATIONS
145	Fused Catechol Ethers from Gold(I)-Catalyzed Intramolecular Reaction of Propargyl Ethers with Acetals. <i>Organic Letters</i> , 2016, 18, 928-931.	2.4	14
146	Hochkonversion von Reduktionsmitteln. <i>Angewandte Chemie</i> , 2019, 131, 5588-5607.	1.6	14
147	Tandem Nucleophilic Addition/Fragmentation of Vinylogous Acyl Nonaflates for the Synthesis of Functionalized Alkynes, with New Mechanistic Insight. <i>Synthesis</i> , 2012, 44, 1818-1824.	1.2	13
148	Carboxylate as a Non-innocent L-Ligand: Computational and Experimental Search for Metal-Bound Carboxylate Radicals. <i>Organic Letters</i> , 2022, 24, 3817-3822.	2.4	13
149	Alkenylsulfenylchlorides: Synthesis and AdE reactions of 2-alkoxy-2-oxo-3-R-4-chlorothio-1,2-oxaphosphol-3-enes. <i>Tetrahedron Letters</i> , 1994, 35, 8275-8278.	0.7	12
150	Energy Distribution and Redistribution and Chemical Reactivity. The Generalized Delta Overlap-Density Method for Ground State and Electron Transfer Reactions: A New Quantitative Counterpart of Electron-Pushing. <i>Journal of the American Chemical Society</i> , 2001, 123, 2265-2270.	6.6	12
151	Synthesis of Substituted Biaryls through Gold-Catalyzed Petasis-Ferrier Rearrangement of Propargyl Ethers. <i>European Journal of Organic Chemistry</i> , 2014, 2014, 3986-3990.	1.2	12
152	Radical Alkyne pericyclic Annulation Reactions for the Synthesis of Functionalized Phenalenes, Benzanthrenes, and Olympicene. <i>Angewandte Chemie</i> , 2018, 130, 3713-3717.	1.6	12
153	Negative Charge as a Lens for Concentrating Antiaromaticity: Using a Pentagonal Defect and Helicene Strain for Cyclizations. <i>Angewandte Chemie</i> , 2020, 132, 1272-1278.	1.6	12
154	Unmasking of aminoanthroquinone moiety through a ring opening in the presence of copper salts and a subsequent cross-coupling/recyclization cascade. <i>Tetrahedron Letters</i> , 2007, 48, 1867-1870.	0.7	11
155	Full Cleavage of C-C Bond in Electron-Deficient Alkynes via Reaction with Ethylenediamine. <i>Australian Journal of Chemistry</i> , 2017, 70, 421.	0.5	11
156	Formaldehyde-Extruding Homolytic Aromatic Substitution via C-O Transposition: Selective Traceless Linker™ access to Congested Biaryl Bonds. <i>Chemistry - A European Journal</i> , 2017, 23, 9091-9097. ^{1.7}		11
157	Substituent effects on stereoselectivity of dihalocarbene reactions with cyclohexadiene and on the reactivity of bis-dihalocyclopropanes in electrophilic nitrations en route to pyrimidine N-oxides. <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 9433-9441.	1.5	11
158	Determination of the pKa values of trans-Resveratrol, a Triphenolic Stilbene, by Singular Value Decomposition. Comparison with Theory. <i>Journal of Physical Chemistry A</i> , 2020, 124, 6294-6302.	1.1	11
159	Intracellular DNA Damage by Lysine-Acetylene Conjugates. <i>Journal of Nucleic Acids</i> , 2010, 2010, 1-6.	0.8	10
160	Combining Traceless Directing Groups with Hybridization Control of Radical Reactivity: From Skipped Enynes to Defect-Free Hexagonal Frameworks. <i>Angewandte Chemie</i> , 2016, 128, 11805-11809.	1.6	10
161	Changing the path of least resistance, or access to endo-dig products via a sequence of three exo-trig transition states: electronic effects in homoallylic ring expansion cascades of alkenyl isonitriles. <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 4135-4143.	1.5	10
162	Making endo-cyclizations favorable again: a conceptually new synthetic approach to benzotriazoles via azide group directed lithiation/cyclization of 2-azidoaryl bromides. <i>Organic and Biomolecular Chemistry</i> , 2019, 17, 4523-4534.	1.5	10

#	ARTICLE	IF	CITATIONS
163	A CO ₂ Cloak for the Cyanide Dagger. <i>Science</i> , 2014, 344, 45-46.	6.0	9
164	Stereoelectronic Influence of a α -Spectator-Propargylic Substituent Can Override Aromaticity Effects in Radical <i>peri</i> -Cyclizations en Route to Expanded Polyaromatics. <i>Journal of Organic Chemistry</i> , 2019, 84, 1853-1862.	1.7	9
165	Oxidative coupling of alkynes mediated by nitroxyl radicals under Sonogashira conditions and Pd-free catalytic approach to stable radicals of 3-imidazoline family with triple bonds. <i>Tetrahedron Letters</i> , 2007, 48, 8246-8249.	0.7	8
166	Opening Ene-diyne Scissors Wider: pH-Dependent DNA Photocleavage by <i>meta</i> -Diyne Lysine Conjugates. <i>Photochemistry and Photobiology</i> , 2015, 91, 748-758.	1.3	8
167	Optimizing Protonation States for Selective Double-Strand DNA Photocleavage in Hypoxic Tumors: pH-Gated Transitions of Lysine Dipeptides. <i>Journal of Medicinal Chemistry</i> , 2016, 59, 8634-8647.	2.9	8
168	Controlled Evolution of the Cope Rearrangement: Transition from Concerted to Interrupted and Aborted Pericyclic Reactions Regulated by a Switch Built from an Intramolecular Frustrated Lewis Pair. <i>Journal of Organic Chemistry</i> , 2019, 84, 14844-14853.	1.7	8
169	Stalling chromophore synthesis of the fluorescent protein Venus reveals the molecular basis of the final oxidation step. <i>Chemical Science</i> , 2021, 12, 7735-7745.	3.7	8
170	Photoredox-Initiated Radical Cascades Enabling Collective Synthesis of 33 Natural Products. <i>CheM</i> , 2017, 2, 753-755.	5.8	6
171	Organocatalytic sulfoxidation. <i>Tetrahedron</i> , 2021, 78, 131784.	1.0	6
172	Click chemistry on diterpenes: anti-inflammatory activity of the acetylenic derivatives of levopimaric acid and products of their transformations. <i>Arkivoc</i> , 2014, 2014, 145-157.	0.3	6
173	Single Molecule Conductance of Bipyridyl Ethynes: The Role of Surface Binding Modes. <i>Journal of Physical Chemistry B</i> , 2010, 114, 14189-14193.	1.2	5
174	Reinvestigation of the Single-Crystal X-ray Structure of 1,3-dimethylcyclobutadiene. <i>Chemistry - A European Journal</i> , 2013, 19, 4942-4945.	1.7	5
175	Reaction of β -alkynylketones with β -amino alcohols: pseudoephedrine-assisted cleavage of triple bond via formal internal redox process. <i>Mendeleev Communications</i> , 2015, 25, 377-379.	0.6	5
176	Stereoelectronic Effects: Analysis by Computational and Theoretical Methods. , 2018, , 451-502.		5
177	[1,5]-Sigmatropic Shifts Regulated by Built-in Frustration. <i>Journal of Physical Chemistry A</i> , 2020, 124, 6016-6028.	1.1	5
178	ALKENYLSULFENYLCHLORIDES. II. INTERACTION OF β , β -DISUBSTITUTED PHOSPHORUS-CONTAINING ALLENES WITH SULFUR DICHLORIDE. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 1996, 119, 61-75.	0.8	4
179	Synthetic and mechanistic aspects of cross-coupling of nitroxyl radicals of 3-imidazoline series with terminal alkynes. <i>Tetrahedron</i> , 2008, 64, 8807-8814.	1.0	4
180	Remote Stereoelectronic Effects in Pyrrolidone- and Caprolactam-Substituted Phenols: Discrepancies in Antioxidant Properties Evaluated by Electrochemical Oxidation and H-Atom Transfer Reactivity. <i>Journal of Organic Chemistry</i> , 2022, 87, 5371-5384.	1.7	4

#	ARTICLE	IF	CITATIONS
181	Frontispiece: Stereoelectronic Chameleons: The Donor–Acceptor Dichotomy of Functional Groups. <i>Chemistry - A European Journal</i> , 2017, 23, .	1.7	3
182	3-Trifluoromethylbenzynes: Precise Orientation in Cycloaddition Reaction Enabled Regioselective Synthesis of Trifluoromethylated Triptycenes. <i>Synthesis</i> , 2022, 54, 4971-4978.	1.2	3
183	Photochemical Bergman Cyclization and Related Photoreactions of Enediyne. , 2012, , 549-592.		2
184	Phenalenannulations: Three–Point Double Annulation Reactions that Convert Benzenes into Pyrenes. <i>Angewandte Chemie</i> , 2020, 132, 14458-14463.	1.6	2
185	How to Review a Paper. <i>Journal of Chemical Health and Safety</i> , 2021, 28, 14-18.	1.1	2
186	Cascade Transformations of 1-R-Ethynyl-9,10-anthraquinones with Amidines: Expanding Access to Isoalloxazine Alkaloids. <i>Molecules</i> , 2021, 26, 6883.	1.7	2
187	SO ₃ -Mediated reaction of phenylselenenylamide with 1,2-alkadienylphosphonates. <i>Russian Chemical Bulletin</i> , 1996, 45, 739-740.	0.4	1
188	Chapter 7.2. Organochalcogen Multication Species. , 2007, , 417-453.		1
189	Synthesis of the first acetylene derivatives of betulonic acid. <i>Doklady Chemistry</i> , 2009, 424, 39-42.	0.2	1
190	Chemical reactions in pulsed plasma with organic liquid spray. , 2013, , .		1
191	Organic synthesis with continuous flow water film pulsed plasma discharge. , 2014, , .		1
192	Tribute to Josef Michl. <i>Chemistry</i> , 2021, 3, 440-443.	0.9	1
193	New heterocycles via an intriguing visible-light-promoted 5-endo-dig cyclization. <i>Chem Catalysis</i> , 2021, 1, 976-977.	2.9	1
194	1,2-Dications in Organic Main Group Systems. <i>ChemInform</i> , 2003, 34, no.	0.1	0
195	5-Exo-dig Radical Cyclization of Enediyne: The First Synthesis of Tin-Substituted Benzofulvenes.. <i>ChemInform</i> , 2004, 35, no.	0.1	0
196	Outstanding Reviewers for Chemical Science in 2019. <i>Chemical Science</i> , 2020, 11, 5853-5854.	3.7	0
197	Cycloaromatization reactions. , 2021, , 339-375.		0
198	4.1 Strain-Promoted Azide–Alkyne Cycloaddition (SPAAC): Background, Substrate Preparation, and Reactivity. , 2022, , .		0

#	ARTICLE	IF	CITATIONS
199	A Special Issue in Honor of Professor Josef Michl. Chemistry, 2022, 4, 270-271.	0.9	0
200	A Swiss Army knife for surface chemistry. Science, 2022, 377, 261-262.	6.0	0