Nicolas Blanchard

List of Publications by Year
in descending order

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108 papers	6,243 citations	76196 40 h-index	71532 76 g-index
155 all docs	155 docs citations	155 times ranked	5459 citing authors

#	Article	IF	Citations
1	Copper-Mediated Coupling Reactions and Their Applications in Natural Products and Designed Biomolecules Synthesis. Chemical Reviews, 2008, 108, 3054-3131.	23.0	1,916
2	Green Bulb Light Source Induced Epoxy Cationic Polymerization under Air Using Tris(2,2â€²-bipyridine)ruthenium(II) and Silyl Radicals. Macromolecules, 2010, 43, 10191-10195.	2.2	240
3	Efficient dual radical/cationic photoinitiator under visible light: a new concept. Polymer Chemistry, 2011, 2, 1986.	1.9	174
4	Subtle Ligand Effects in Oxidative Photocatalysis with Iridium Complexes: Application to Photopolymerization. Chemistry - A European Journal, 2011, 17, 15027-15031.	1.7	162
5	Taming sulfur dioxide: a breakthrough for its wide utilization in chemistry and biology. Organic and Biomolecular Chemistry, 2013, 11, 5393.	1.5	161
6	Iridium Photocatalysts in Free Radical Photopolymerization under Visible Lights. ACS Macro Letters, 2012, 1, 286-290.	2.3	136
7	Boron chemistry in a new light. Chemical Science, 2015, 6, 5366-5382.	3.7	131
8	Tunable Organophotocatalysts for Polymerization Reactions Under Visible Lights.. Macromolecules, 2012, 45, 1746-1752.	2.2	128
9	New Photoinitiators Based on the Silyl Radical Chemistry: Polymerization Ability, ESR Spin Trapping, and Laser Flash Photolysis Investigation. Macromolecules, 2008, 41, 4180-4186.	2.2	103
10	A Novel Photopolymerization Initiating System Based on an Iridium Complex Photocatalyst. Macromolecular Rapid Communications, 2011, 32, 917-920.	2.0	103
11	Mycolactone subverts immunity by selectively blocking the Sec61 translocon. Journal of Experimental Medicine, 2016, 213, 2885-2896.	4.2	101
12	Organic Photocatalyst for Polymerization Reactions: 9,10-Bis[(triisopropylsilyl)ethynyl]anthracene. ACS Macro Letters, 2012, 1, 198-203.	2.3	93
13	New thioxanthone and xanthone photoinitiators based on silyl radical chemistry. Polymer Chemistry, 2011, 2, 1077-1084.	1.9	83
14	A Journey in the Chemistry of Ynamides: From Synthesis to Applications. Chemistry Letters, 2016, 45, 574-585.	0.7	79
15	Photopolymerization of Cationic Monomers and Acrylate/Divinylether Blends under Visible Light Using Pyrromethene Dyes. Macromolecules, 2012, 45, 6864-6868.	2.2	75
16	Acid Fluorides in Transitionâ€Metal Catalysis: A Good Balance between Stability and Reactivity. Angewandte Chemie - International Edition, 2019, 58, 6814-6817.	7.2	74
17	Soft Photopolymerizations Initiated by Dye-Sensitized Formation of NHC-Boryl Radicals under Visible Light. Macromolecules, 2013, 46, 43-48.	2.2	72
18	Mechanistic and Preparative Studies of Radical Chain Homolytic Substitution Reactions of N-Heterocyclic Carbene Boranes and Disulfides. Journal of the American Chemical Society, 2013, 135, 10484-10491.	6.6	71

#	Article	IF	Citations
19	Dielsâ€“Alder and Formal Dielsâ€“Alder Cycloaddition Reactions of Ynamines and Ynamides. European Journal of Organic Chemistry, 2017, 2017, 6816-6830.	1.2	70
20	Total Synthesis of Zincophorin and Its Methyl Ester. Journal of Organic Chemistry, 2004, 69, 4626-4647.	1.7	58
21	A Diverted Total Synthesis of Mycolactone Analogues: An Insight into Buruli Ulcer Toxins. Chemistry - A European Journal, 2011, 17, 14413-14419.	1.7	58
22	Ipomoeassin F Binds Sec61Î± to Inhibit Protein Translocation. Journal of the American Chemical Society, 2019, 141, 8450-8461.	6.6	58
23	Daucus carota L. mediated bioreduction of prochiral ketones. Organic and Biomolecular Chemistry, 2006, 4, 2348.	1.5	57
24	New Boryl Radicals Derived from Nâ€Heteroaryl Boranes: Generation and Reactivity. Chemistry - A European Journal, 2010, 16, 12920-12927.	1.7	57
25	Formation of N-Heterocyclic Carbeneâ€“Boryl Radicals through Electrochemical and Photochemical Cleavage of the Bâ€“S bond in N-Heterocyclic Carbeneâ€“Boryl Sulfides. Journal of the American Chemical Society, 2013, 135, 16938-16947.	6.6	57
26	Lewis Acid-Promoted Hetero Dielsâ^'Alder Cycloaddition of Î±-Acetoxynitroso Dienophiles. Organic Letters, 2004, 6, 2449-2451.	2.4	56
27	Domino Metathesis of 3,6-Dihydro-1,2-oxazine:â€‰ Access to Isoxazolo[2,3-a]pyridin-7-ones. Organic Letters, 2007, 9, 1485-1488.	2.4	55
28	Metathesis of heteroatom-substituted olefins and alkynes: Current scope and limitations. Journal of Organometallic Chemistry, 2006, 691, 5078-5108.	0.8	52
29	New Photoiniferters: Respective Role of the Initiating and Persistent Radicals. Macromolecules, 2008, 41, 2347-2352.	2.2	52
30	Ligand-Controlled Regiodivergent Palladium-Catalyzed Hydrogermylation of Ynamides. Journal of the American Chemical Society, 2020, 142, 11153-11164.	6.6	52
31	Practical Methods for the Synthesis of Trifluoromethylated Alkynes: Oxidative Trifluoromethylation of Copper Acetylides and Alkynes. Advanced Synthesis and Catalysis, 2014, 356, 2051-2060.	2.1	50
32	Total Synthesis of Formamicin. Journal of the American Chemical Society, 2004, 126, 9307-9317.	6.6	49
33	Effect of Lewis base coordination on boryl radical reactivity: investigation using laser flash photolysis and kinetic ESR. Journal of Physical Organic Chemistry, 2009, 22, 986-993.	0.9	49
34	History, biology and chemistry of Mycobacterium ulcerans infections (Buruli ulcer disease). Natural Product Reports, 2013, 30, 1527.	5.2	48
35	BODIPY derivatives and boranil as new photoinitiating systems of cationic polymerization exhibiting a tunable absorption in the 400â€“600Ânm spectral range. Polymer, 2013, 54, 2071-2076.	1.8	48
36	Stereoselective Synthesis of Polypropionate Units and Heterocyclic Compounds by Cyclopropylcarbinol Ring-Opening with Mercury(II) Salts. Accounts of Chemical Research, 2003, 36, 766-772.	7.6	47

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37	Tris(trimethylsilyl)silyl versus tris(trimethylsilyl)germyl: Radical reactivity and oxidation ability. Journal of Organometallic Chemistry, 2008, 693, 3643-3649.	0.8	47
38	Near UVâ€“visible light induced cationic photopolymerization reactions: A three component photoinitiating system based on acridinedione/silane/iodonium salt. European Polymer Journal, 2010, 46, 2138-2144.	2.6	46
39	Stereodivergent Hydrogermylations of Î±-Trifluoromethylated Alkynes and Their Applications in Cross-Coupling Reactions. Organic Letters, 2015, 17, 1794-1797.	2.4	46
40	Shaping mycolactone for therapeutic use against inflammatory disorders. Science Translational Medicine, 2015, 7, 289ra85.	5.8	44
41	Household LED irradiation under air: cationic polymerization using iridium or ruthenium complex photocatalysts. Polymer Bulletin, 2012, 68, 341-347.	1.7	42
42	Ruthenium-Catalyzed Nucleophilic Ring-Opening Reactions of a 3-Aza-2-oxabicyclo[2.2.1]hept-5-ene with Alcohols. Organic Letters, 2009, 11, 2077-2080.	2.4	38
43	Silyl Radical Chemistry and Conventional Photoinitiators: A Route for the Design of Efficient Systems. Macromolecules, 2009, 42, 6031-6037.	2.2	37
44	Controlled synthesis of branched poly(vinyl acetate)s by xanthate-mediated RAFT self-condensing vinyl (co)polymerization. Polymer Chemistry, 2011, 2, 2231.	1.9	37
45	Inverse Electron-Demand [4 + 2]-Cycloadditions of Ynamides: Access to Novel Pyridine Scaffolds. Organic Letters, 2016, 18, 1610-1613.	2.4	37
46	Total Synthesis of Zincophorin Methyl Ester. Organic Letters, 2003, 5, 4037-4040.	2.4	36
47	2-Deoxy-2-iodo-Î²-glucopyranosyl Fluorides:â€‰ Mild and Highly Stereoselective Glycosyl Donors for the Synthesis of 2-Deoxy-Î²-glycosides from Î²-Hydroxy Ketones. Organic Letters, 2003, 5, 81-84.	2.4	35
48	Bis(germyl)ketones: Toward a New Class of Type I Photoinitiating Systems Sensitive Above 500 nm?. Macromolecular Rapid Communications, 2010, 31, 473-478.	2.0	35
49	Intermolecular nitroso Dielsâ€“Alder cycloaddition of Î±-acetoxynitroso derivatives in aqueous medium. Organic and Biomolecular Chemistry, 2005, 3, 4395.	1.5	33
50	Total Synthesis of the Formamicin Aglycon, Formamicinone. Organic Letters, 2003, 5, 377-379.	2.4	29
51	Decatungstate (W₁₀O)/Silane: A New and Promising Radical Source Under Soft Light Irradiation. Macromolecular Rapid Communications, 2011, 32, 838-843.	2.0	29
52	Rhodium-Catalyzed Ring-Opening Reactions of a 3-Aza-2-oxabicyclo[2.2.1]hept-5-ene with Arylboronic Acids. Journal of Organic Chemistry, 2009, 74, 7261-7266.	1.7	27
53	A Synthetic Approach towards the C1â€“C9 Subunit of Zincophorin. Angewandte Chemie - International Edition, 2002, 41, 2144.	7.2	26
54	Photoredox Catalysis for Polymerization Reactions. Chimia, 2012, 66, 439.	0.3	26

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55	Turning unreactive copper acetylides into remarkably powerful and mild alkyne transfer reagents by oxidative umpolung. Chemical Communications, 2014, 50, 10008-10018.	2.2	26
56	Synthetic Variants of Mycolactone Bind and Activate Wiskottâ€“Aldrich Syndrome Proteins. Journal of Medicinal Chemistry, 2014, 57, 7382-7395.	2.9	26
57	Synthesis and Physicochemical Properties of 2-SF₅-(Aza)Indoles, a New Family of SF₅ Heterocycles. ACS Organic & Inorganic Au, 2021, 1, 43-50.	1.9	25
58	Diastereoselective Hydroboration of Isopropenylcyclopropanes. Journal of Organic Chemistry, 1999, 64, 2608-2609.	1.7	21
59	Synthesis of Stereotriads by Oxymercuration of Substituted Cyclopropylcarbinols. Organic Letters, 2001, 3, 2567-2569.	2.4	21
60	Stereodivergent Hydrosilylation, Hydrostannylation, and Hydrogermylation of Î±-Trifluoromethylated Alkynes and Their Synthetic Applications. Synthesis, 2016, 48, 3317-3330.	1.2	21
61	Efficient cleavage of the Nâ€“O bond of 3,6-dihydro-1,2-oxazines mediated by some Î±-hetero substituted carbonyl compounds in mild conditions. Organic and Biomolecular Chemistry, 2008, 6, 1063.	1.5	20
62	Synthesis of spiroketals under neutral conditions via a type III ring-rearrangement metathesis strategy. Chemical Communications, 2011, 47, 10284.	2.2	20
63	Synthesis of cyclopropanated [2.2.1] heterobicycloalkenes: An improved procedure. Synthetic Communications, 2016, 46, 55-62.	1.1	20
64	Intramolecular Inverse Electron-Demand [4 + 2] Cycloadditions of Ynamides with Pyrimidines: Scope and Density Functional Theory Insights. Journal of Organic Chemistry, 2017, 82, 1726-1742.	1.7	20
65	Aryl transition metal chemical warheads for protein bioconjugation. Chemical Science, 2018, 9, 5132-5144.	3.7	20
66	Chopping unfunctionalized carbonâ€“carbon bonds: a new paradigm for the synthesis of organonitriles. Organic Chemistry Frontiers, 2014, 1, 825-833.	2.3	19
67	Fluorescent Brighteners as Visible LED-Light Sensitive Photoinitiators for Free Radical Photopolymerizations. Macromolecular Rapid Communications, 2016, 37, 840-844.	2.0	19
68	DABCOâ€promoted Diaryl Thioether Formation by Metalâ€catalyzed Coupling of Sodium Sulfinates and Aryl Iodides. Advanced Synthesis and Catalysis, 2020, 362, 2326-2331.	2.1	18
69	Synthesis of Isopropenylcyclopropanes â^' Revision of the Relative Configuration of Cyclopropyl Ketones Obtained by 1,3-Elimination of Î³-Epoxy Ketones. European Journal of Organic Chemistry, 2001, 2001, 339-348.	1.2	17
70	On the Synthesis, Characterization and Reactivity of Nâ€Heteroarylâ€“Boryl Radicals, a New Radical Class Based on Fiveâ€Membered Ring Ligands. Chemistry - A European Journal, 2014, 20, 5054-5063.	1.7	17
71	Diastereoselectivity in the dihydroxylation of isopropenyl substituted three-membered rings. Tetrahedron Letters, 1999, 40, 8361-8364.	0.7	15
72	Î±-Acyloxynitroso dienophiles in [4+2] hetero Dielsâ€“Alder cycloadditions: mechanistic insights. Tetrahedron, 2010, 66, 2969-2980.	1.0	15

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73	Nusbiarylins, a new class of antimicrobial agents: Rational design of bacterial transcription inhibitors targeting the interaction between the NusB and NusE proteins. Bioorganic Chemistry, 2019, 92, 103203.	2.0	15
74	Activating Pyrimidines by Pre-distortion for the General Synthesis of 7-Aza-indazoles from 2-Hydrazonylpyrimidines via Intramolecular Dielsâ€“Alder Reactions. Journal of the American Chemical Society, 2019, 141, 15901-15909.	6.6	15
75	Design, synthesis and biological evaluation of antimicrobial diarylimine and â€“amine compounds targeting the interaction between the bacterial NusB and NusE proteins. European Journal of Medicinal Chemistry, 2019, 178, 214-231.	2.6	15
76	Synthesis of polypropionate subunits from cyclopropanes. Tetrahedron, 2005, 61, 7632-7653.	1.0	13
77	An Approach Toward Homocalystegines and Silyl-homocalystegines. Acid-Mediated Migrations of Acetates in Seven-Membered Ring Systems. Journal of Organic Chemistry, 2011, 76, 791-799.	1.7	13
78	A Straightforward Entry to Î³-Trifluoromethylated Allenamides and Their Synthetic Applications. Synlett, 2016, 27, 2575-2580.	1.0	13
79	SÃurefluoride in der Ãœbergangsmetallkatalyse: Balance von StabilitÃt und ReaktivitÃt. Angewandte Chemie, 2019, 131, 6886-6889.	1.6	13
80	Directing Effect of a Neighboring Aromatic Group in the Cyclopropanation of Allylic Alcohols. Journal of Organic Chemistry, 1998, 63, 5728-5729.	1.7	12
81	Reaction between aminoalkyl radicals and akyl halides: Dehalogenation by electron transfer?. Chemical Physics Letters, 2011, 511, 156-158.	1.2	12
82	Modular total syntheses of mycolactone A/B and its [²H]-isotopologue. Organic and Biomolecular Chemistry, 2017, 15, 7518-7522.	1.5	12
83	Novel applications of fluorescent brighteners in aqueous visible-light photopolymerization: high performance water-based coating and LED-assisted hydrogel synthesis. Polymer Chemistry, 2018, 9, 3952-3958.	1.9	12
84	In situ Bragg coherent X-ray diffraction during tensile testing of an individual Au nanowire. Journal of Applied Crystallography, 2018, 51, 781-788.	1.9	11
85	Synthesis and further use of SF5-alkynes as platforms for the design of more complex SF5-containing products. Tetrahedron, 2022, 117-118, 132814.	1.0	11
86	Total synthesis of zincophorin. Pure and Applied Chemistry, 2005, 77, 1131-1137.	0.9	10
87	Ruthenium-catalyzed [2+2] cycloaddition reactions of a 2-oxa-3-azabicyclo[2.2.1]hept-5-ene with unsymmetrical alkynes. Canadian Journal of Chemistry, 2011, 89, 1494-1505.	0.6	10
88	Total Syntheses of Mycolactone A/B and its Analogues for the Exploration of the Biology of Buruli Ulcer. Chimia, 2017, 71, 836.	0.3	10
89	Stereoselective oxymercuration of cyclopropylcarbinols with anchimeric assistance by aromatic groups. Tetrahedron Letters, 2002, 43, 1801-1805.	0.7	9
90	Tandem cationic and solâ€“gel photopolymerizations of a vinyl ether alkoxysilane. Polymer Engineering and Science, 2011, 51, 1466-1475.	1.5	9

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91	Silyloxyamines as sources of silyl radicals: ESR spinâ€trapping, laser flash photolysis investigation, and photopolymerization ability. Journal of Physical Organic Chemistry, 2011, 24, 342-350.	0.9	9
92	Recombinant Antibodies against Mycolactone. Toxins, 2019, 11, 346.	1.5	9
93	Spatiotemporal analysis of mycolactone distribution in vivo reveals partial diffusion in the central nervous system. PLoS Neglected Tropical Diseases, 2020, 14, e0008878.	1.3	7
94	Optimized Synthesis of 7-Azaindazole by a Dielsâ€“Alder Cascade and Associated Process Safety. Organic Process Research and Development, 2020, 24, 776-786.	1.3	6
95	Copper-mediated synthesis of N-vinyl ynamides from N-vinyl carbamates. Tetrahedron Letters, 2018, 59, 3349-3352.	0.7	5
96	Synthetic strategies towards mycolactone A/B, an exotoxin secreted by Mycobacterium ulcerans. Organic Chemistry Frontiers, 2017, 4, 2380-2386.	2.3	4
97	Molecular Mechanisms Underpinning the Circulation and Cellular Uptake of Mycobacterium ulcerans Toxin Mycolactone. Frontiers in Pharmacology, 2021, 12, 733496.	1.6	4
98	Synthesis of Polysubstituted Pyrroles from Nitroso-Diels-Alder Cycloadducts. Synthesis, 2005, 2005, 3346-3354.	1.2	3
99	2,2-Dimethyl-5-nitroso-1,3-dioxan-5-yl benzoate, 2,2-dimethyl-5-nitroso-1,3-dioxan-5-yl 4-chlorobenzoate and 5-nitroso-1,3-dioxan-5-yl 4-chlorobenzoate. Acta Crystallographica Section C: Crystal Structure Communications, 2007, 63, o365-o368.	0.4	3
100	Sonogashira reactions for the synthesis of polarized pentacene derivatives. Turkish Journal of Chemistry, 2015, 39, 1180-1189.	0.5	3
101	Intramolecular inverse electron-demand [4+2] cycloadditions of ynamidyl-tethered pyrimidines: Comparative studies in trifluorotoluene and sulfolane. Comptes Rendus Chimie, 2017, 20, 643-647.	0.2	3
102	Chapter 10 Total synthesis of zincophorin and its methyl ester. Strategies and Tactics in Organic Synthesis, 2004, , 303-352.	0.1	1
103	A Walk Across Africa with Captain Grant. Strategies and Tactics in Organic Synthesis, 2015, , 85-117.	0.1	1
104	Acid-catalyzed ring-opening reactions of a cyclopropanated 3-aza-2-oxabicyclo[2.2.1]hept-5-ene with alcohols. Beilstein Journal of Organic Chemistry, 2017, 13, 2888-2894.	1.3	1
105	Stereoselective Synthesis of Polypropionate Units and Heterocyclic Compounds by Cyclopropylcarbinol Ring-Opening with Mercury(II) Salts. ChemInform, 2004, 35, no.	0.1	0
106	Lewis Acid Promoted Hetero Dielsâ€"Alder Cycloaddition of Î±-Acetoxynitroso Dienophiles.. ChemInform, 2004, 35, no.	0.1	0
107	Total Synthesis of Zincophorin and Its Methyl Ester. ChemInform, 2005, 36, no.	0.1	0
108	Ruthenium-catalyzed ring-opening reaction of a 3-aza-2-oxabicyclo[2.2.1]hept-5-ene with amines â€" an unexpected mode of ring-opening. Canadian Journal of Chemistry, 2019, 97, 310-316.	0.6	0