

# Rebecca L Melen

## List of Publications by Year in descending order

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80  
papers

2,444  
citations

201674

27  
h-index

223800

46  
g-index

83  
all docs

83  
docs citations

83  
times ranked

1776  
citing authors

#	ARTICLE	IF	CITATIONS
1	Borane Catalyzed Selective Diazo Cross-Coupling Towards Pyrazoles. <i>Advanced Synthesis and Catalysis</i> , 2022, 364, 773-780.	4.3	10
2	Hydroelementation of diynes. <i>Chemical Society Reviews</i> , 2022, 51, 869-994.	38.1	38
3	Understanding the Influence of Donor-Acceptor Diazo Compounds on the Catalyst Efficiency of B(C <sub>6</sub> F <sub>5</sub> ) <sub>3</sub> Towards Carbene Formation. <i>Chemistry - A European Journal</i> , 2022, 28, .	3.3	11
4	Triarylborane Catalyzed Carbene Transfer Reactions Using Diazo Precursors. <i>ACS Catalysis</i> , 2022, 12, 442-452.	11.2	25
5	Borane promoted aryl transfer reaction for the synthesis of $\hat{1}$ -aryl functionalised $\hat{2}$ -hydroxy and $\hat{2}$ -keto esters. <i>Organic and Biomolecular Chemistry</i> , 2022, 20, 4298-4302.	2.8	2
6	Lewis Acid Assisted Brønsted Acid Catalysed Decarbonylation of Isocyanates: A Combined DFT and Experimental Study. <i>Chemistry - A European Journal</i> , 2022, , .	3.3	3
7	Recent applications of fluorinated arylborane derivatives. <i>Advances in Organometallic Chemistry</i> , 2022, , .	1.0	0
8	An International Study Evaluating Elemental Analysis. <i>ACS Central Science</i> , 2022, 8, 855-863.	11.3	33
9	Frustrated Radical Pairs: Insights from EPR Spectroscopy. <i>Angewandte Chemie</i> , 2021, 133, 53-65.	2.0	10
10	Frustrated Radical Pairs: Insights from EPR Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 53-65.	13.8	45
11	Frustrated Lewis Pairs in Organic Synthesis. , 2021, , .		0
12	Electron deficient borane-mediated hydride abstraction in amines: stoichiometric and catalytic processes. <i>Chemical Society Reviews</i> , 2021, 50, 3720-3737.	38.1	54
13	Borane catalysed cyclopropanation of arylacetylenes. <i>Chemical Communications</i> , 2021, 57, 6736-6739.	4.1	20
14	Frustrated Lewis pairs in catalysis. , 2021, , .		0
15	Reactions promoted by hypervalent iodine reagents and boron Lewis acids. <i>Organic and Biomolecular Chemistry</i> , 2021, 19, 4852-4865.	2.8	29
16	Site-Selective C <sup>sp3</sup> -C <sup>sp</sup> /C <sup>sp3</sup> -C <sup>sp2</sup> Cross-Coupling Reactions Using Frustrated Lewis Pairs. <i>Journal of the American Chemical Society</i> , 2021, 143, 4451-4464.	13.7	28
17	Tris(pentafluorophenyl)borane-Catalyzed Carbenium Ion Generation and Autocatalytic Pyrazole Synthesis-A Computational and Experimental Study. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 24395-24399.	13.8	18
18	Comparative study of fluorinated triarylalanes and their borane counterparts. <i>Cell Reports Physical Science</i> , 2021, 2, 100595.	5.6	5

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19	Lewis Acidic Boranes in Frustrated Lewis Pair Chemistry. <i>Molecular Catalysis</i> , 2021, , 209-235.	1.3	2
20	Borane-Catalyzed Stereoselective C-H Insertion, Cyclopropanation, and Ring-Opening Reactions. <i>Chem</i> , 2020, 6, 2364-2381.	11.7	70
21	Radical Reactivity of Frustrated Lewis Pairs with Diaryl Esters. <i>Cell Reports Physical Science</i> , 2020, 1, 100016.	5.6	40
22	Synthesis and Reactivity of Fluorinated Triaryl Aluminum Complexes. <i>Inorganic Chemistry</i> , 2020, 59, 14891-14898.	4.0	15
23	Frontispiece: Diazaphospholene and Diazaarsolene Derived Homogeneous Catalysis. <i>Chemistry - A European Journal</i> , 2020, 26, .	3.3	0
24	Triarylborane catalysed <i>N</i> -alkylation of amines with aryl esters. <i>Catalysis Science and Technology</i> , 2020, 10, 7523-7530.	4.1	8
25	Triarylboran-katalysierte Alkenylierungen von Arylestern mit Diazoverbindungen. <i>Angewandte Chemie</i> , 2020, 132, 15621-15626.	2.0	5
26	Triarylborane-Catalyzed Alkenylation Reactions of Aryl Esters with Diazo Compounds. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 15492-15496.	13.8	32
27	Halogenated triarylboranes: synthesis, properties and applications in catalysis. <i>Chemical Society Reviews</i> , 2020, 49, 1706-1725.	38.1	115
28	Asymmetric ketone hydroboration catalyzed by alkali metal complexes derived from BINOL ligands. <i>Dalton Transactions</i> , 2020, 49, 2417-2420.	3.3	13
29	1,3-Carboboration of iodonium ylides. <i>Chemical Communications</i> , 2020, 56, 3345-3348.	4.1	12
30	B(C <sub>6</sub> F <sub>5</sub> ) <sub>3</sub> -Catalyzed Direct C3 Alkylation of Indoles and Oxindoles. <i>ACS Catalysis</i> , 2020, 10, 4835-4840.	11.2	53
31	Computational design of an intramolecular frustrated lewis pair catalyst for enantioselective hydrogenation. <i>Journal of Theoretical and Computational Chemistry</i> , 2020, 19, 2050009.	1.8	0
32	Diazaphospholene and Diazaarsolene Derived Homogeneous Catalysis. <i>Chemistry - A European Journal</i> , 2020, 26, 9835-9845.	3.3	19
33	Reactions of hydrazones and hydrazides with Lewis acidic boranes. <i>Dalton Transactions</i> , 2019, 48, 12391-12395.	3.3	4
34	Structure-property-reactivity studies on dithiaphospholes. <i>Dalton Transactions</i> , 2019, 48, 16922-16935.	3.3	11
35	Borane-Catalyzed Heterocycle Synthesis. <i>Trends in Chemistry</i> , 2019, 1, 625-626.	8.5	6
36	Frontiers in molecular p-block chemistry: From structure to reactivity. <i>Science</i> , 2019, 363, 479-484.	12.6	179

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37	Electrophilic boron carboxylate and phosphinate complexes. Dalton Transactions, 2019, 48, 2038-2045.	3.3	1
38	Unlocking the catalytic potential of tris(3,4,5-trifluorophenyl)borane with microwave irradiation. Chemical Communications, 2019, 55, 318-321.	4.1	48
39	Innentitelbild: Metallfreie Tandem-Umlagerung/Lactonisierung: Zugang zu 3,3-disubstituierten Benzofuran-2(3H)-onen (Angew. Chem. 23/2019). Angewandte Chemie, 2019, 131, 7578-7578.	2.0	0
40	Illuminating Lewis Acidity Strength. Chem, 2019, 5, 1362-1363.	11.7	9
41	Metallfreie Tandem-Umlagerung/Lactonisierung: Zugang zu 3,3-disubstituierten Benzofuran-2(3H)-onen. Angewandte Chemie, 2019, 131, 7943-7947.	2.0	14
42	Metal-Free Tandem Rearrangement/Lactonization: Access to 3,3-Disubstituted Benzofuran-2(3H)-ones. Angewandte Chemie - International Edition, 2019, 58, 7861-7865.	13.8	47
43	Push and pull: the potential role of boron in N<sub>2</sub> activation. Dalton Transactions, 2018, 47, 10377-10381.	3.3	30
44	Metallfreie Stickstoffaktivierung: Ein neues Kapitel in der Chemie frustrierter Lewis-Paare. Angewandte Chemie, 2018, 130, 890-892.	2.0	27
45	Divergent Elementoboration: 1,3-Haloboration versus 1,1-Carboboration of Propargyl Esters. Chemistry - A European Journal, 2018, 24, 7364-7368.	3.3	7
46	Investigations into the Photophysical and Electronic Properties of Pnictoles and Their Pnictenium Counterparts. Organometallics, 2018, 37, 712-719.	2.3	28
47	A Step Closer to Metal-Free Dinitrogen Activation: A New Chapter in the Chemistry of Frustrated Lewis Pairs. Angewandte Chemie - International Edition, 2018, 57, 880-882.	13.8	77
48	Alternative Strategies with Iodine: Fast Access to Previously Inaccessible Iodine(III) Compounds. Angewandte Chemie - International Edition, 2018, 57, 8306-8309.	13.8	21
49	Alternative Strategien mit Iod: schneller Zugang zu bisher unzugänglichen Iod(III)-Verbindungen. Angewandte Chemie, 2018, 130, 8438-8442.	2.0	8
50	Synthesis and photophysical properties of imine borane adducts towards vapochromic materials. Dalton Transactions, 2018, 47, 12656-12660.	3.3	11
51	FLP-Catalyzed Transfer Hydrogenation of Silyl Enol Ethers. Angewandte Chemie, 2018, 130, 12536-12539.	2.0	7
52	FLP-Catalyzed Transfer Hydrogenation of Silyl Enol Ethers. Angewandte Chemie - International Edition, 2018, 57, 12356-12359.	13.8	41
53	Lewis and Brønsted basicity of phosphine-diazomethane derivatives. Dalton Transactions, 2018, 47, 12742-12749.	3.3	11
54	Arsenic Catalysis: Hydroboration of Aldehydes Using a Benzo-Fused Diaza-benzyloxy-carsole. Chemistry - A European Journal, 2018, 24, 15201-15204.	3.3	27

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55	Tris(pentafluorophenyl)borane and Beyond: Modern Advances in Borylation Chemistry. <i>Inorganic Chemistry</i> , 2017, 56, 8627-8643.	4.0	183
56	Exploring Multistep Continuous-Flow Hydrosilylation Reactions Catalyzed by Tris(pentafluorophenyl)borane. <i>Advanced Synthesis and Catalysis</i> , 2017, 359, 2580-2584.	4.3	12
57	BAr <sup>F</sup> <sub>3</sub> -Catalyzed Imine Hydroboration with Pinacolborane Not Requiring the Assistance of an Additional Lewis Base. <i>Organometallics</i> , 2017, 36, 2381-2384.	2.3	65
58	Amidine functionalized phosphines: tuneable ligands for transition metals. <i>Dalton Transactions</i> , 2017, 46, 14234-14243.	3.3	8
59	Frustrated Lewis Pair (FLP)-Catalyzed Hydrogenation of Aza-Morita-Baylis-Hillman Adducts and Sequential Organo-FLP Catalysis. <i>ACS Catalysis</i> , 2017, 7, 7748-7752.	11.2	33
60	Stoichiometrische und katalytische C-C- und C-H-Bindungsbildung mit B(C <sub>6</sub> F <sub>5</sub> ) <sub>3</sub> über kationische Zwischenstufen. <i>Angewandte Chemie</i> , 2017, 129, 12157-12161.	2.0	9
61	Tris(2,4,6-trifluorophenyl)borane: An Efficient Hydroboration Catalyst. <i>Chemistry - A European Journal</i> , 2017, 23, 10997-11000.	3.3	109
62	Stoichiometric and Catalytic C-C and C-H Bond Formation with B(C <sub>6</sub> F <sub>5</sub> ) <sub>3</sub> via Cationic Intermediates. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 11995-11999.	13.8	44
63	Supramolecular aggregation in dithia-arsoles: chlorides, cations and N-centred paddlewheels. <i>CrystEngComm</i> , 2017, 19, 4696-4699.	2.6	10
64	Reactions of biologically inspired hydride sources with B(C <sub>6</sub> F <sub>5</sub> ) <sub>3</sub> . <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2017, 375, 20170009.	3.4	7
65	Gegensätzliche Reaktivität frustrierter Lewis-Paare mit Selen- und Bor-basierten Lewis-Säuren. <i>Angewandte Chemie</i> , 2016, 128, 11462-11465.	2.0	5
66	Synthesis and reactivity of N,N'-1,4-diazabutadiene derived borocations. <i>Dalton Transactions</i> , 2016, 45, 16177-16181.	3.3	8
67	Contrasting Frustrated Lewis Pair Reactivity with Selenium- and Boron-Based Lewis Acids. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 11292-11295.	13.8	34
68	The Propargyl Rearrangement to Functionalised Allyl-Boron and Borocation Compounds. <i>Chemistry - A European Journal</i> , 2016, 22, 14618-14624.	3.3	22
69	Main group transformations. <i>Dalton Transactions</i> , 2016, 45, 5879-5879.	3.3	0
70	Lewis acid-base 1,2-addition reactions: synthesis of pyrylium borates from en-ynoate precursors. <i>Dalton Transactions</i> , 2016, 45, 5929-5932.	3.3	22
71	Dehydrocoupling routes to element-element bonds catalysed by main group compounds. <i>Chemical Society Reviews</i> , 2016, 45, 775-788.	38.1	109
72	Cycloaddition reactions of (C <sub>6</sub> F <sub>5</sub> ) <sub>2</sub> BN <sub>3</sub> with dialkyl acetylenedicarboxylates. <i>Dalton Transactions</i> , 2015, 44, 5045-5048.	3.3	6

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73	Pathways to Functionalized Heterocycles: Propargyl Rearrangement using B(C <sub>6</sub> F <sub>5</sub> ) <sub>3</sub> . <i>Organometallics</i> , 2015, 34, 5298-5309.	2.3	27
74	Diverging Pathways in the Activation of Allenes with Lewis Acids and Bases: Addition, 1,2-Carboboration, and Cyclization. <i>Organometallics</i> , 2015, 34, 4127-4137.	2.3	43
75	Cyclopropanation/Carboboration Reactions of Enynes with B(C <sub>6</sub> F <sub>5</sub> ) <sub>3</sub> . <i>Journal of the American Chemical Society</i> , 2015, 137, 15469-15477.	13.7	77
76	Applications of pentafluorophenyl boron reagents in the synthesis of heterocyclic and aromatic compounds. <i>Chemical Communications</i> , 2014, 50, 1161-1174.	4.1	101
77	Activation of Alkynes with B(C <sub>6</sub> F <sub>5</sub> ) <sub>3</sub> – Boron Allylation Reagents Derived from Propargyl Esters. <i>Journal of the American Chemical Society</i> , 2014, 136, 777-782.	13.7	71
78	B(C <sub>6</sub> F <sub>5</sub> ) <sub>3</sub> promoted cyclisation of internal propargyl esters: structural characterisation of 1,3-dioxolium compounds. <i>Chemical Communications</i> , 2014, 50, 7243-7245.	4.1	33
79	Cyclisation versus 1,1-Carboboration: Reactions of B(C <sub>6</sub> F <sub>5</sub> ) <sub>3</sub> with Propargyl Amides. <i>Chemistry - A European Journal</i> , 2013, 19, 11928-11938.	3.3	71
80	Tris(pentafluorophenyl)borane Catalyzed Carbenium Ion Generation and Autocatalytic Pyrazole Synthesis – A Computational and Experimental Study. <i>Angewandte Chemie</i> , 0, , .	2.0	2