

# Alexandra Friedrich

## List of Publications by Citations

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101  
papers

1,898  
citations

24  
h-index

37  
g-index

118  
ext. papers

2,370  
ext. citations

5.6  
avg, IF

4.99  
L-index

#	Paper	IF	Citations
101	Preparing (Multi)Fluoroarenes as Building Blocks for Synthesis: Nickel-Catalyzed Borylation of Polyfluoroarenes via C-F Bond Cleavage. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 5250-3	16.4	136
100	Novel rhenium nitrides. <i>Physical Review Letters</i> , <b>2010</b> , 105, 085504	7.4	134
99	Synthesis of Binary Transition Metal Nitrides, Carbides and Borides from the Elements in the Laser-Heated Diamond Anvil Cell and Their Structure-Property Relations. <i>Materials</i> , <b>2011</b> , 4, 1648-1692	3.5	87
98	Pyrene Molecular Orbital Shuffle-Controlling Excited State and Redox Properties by Changing the Nature of the Frontier Orbitals. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 13164-13180	4.8	70
97	NHC Nickel-Catalyzed Suzuki-Miyaura Cross-Coupling Reactions of Aryl Boronate Esters with Perfluorobenzenes. <i>Journal of Organic Chemistry</i> , <b>2016</b> , 81, 5789-94	4.2	65
96	B-B bond activation and NHC ring-expansion reactions of diboron(4) compounds, and accurate molecular structures of B(NMe), Beg, Bneop and Bpin. <i>Dalton Transactions</i> , <b>2017</b> , 46, 3661-3680	4.3	50
95	Stability field of the high-(P, T) Re <sub>2</sub> C phase and properties of an analogous osmium carbide phase. <i>Journal of Alloys and Compounds</i> , <b>2009</b> , 481, 577-581	5.7	48
94	Preparation, Properties, and Structures of the Radical Anions and Dianions of Azapentacenes. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 15968-15976	16.4	46
93	In situ observation of the reaction of tantalum with nitrogen in a laser heated diamond anvil cell. <i>Journal of Alloys and Compounds</i> , <b>2010</b> , 502, 5-12	5.7	44
92	Reaction of rhenium and carbon at high pressures and temperatures. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , <b>2008</b> , 223,	1	38
91	Single-crystal structure of HoBaCo <sub>4</sub> O <sub>7</sub> at ambient conditions, at low temperature, and at high pressure. <i>Physical Review B</i> , <b>2009</b> , 79,	3.3	36
90	Phase Stability of Lanthanum Orthovanadate at High Pressure. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 13749-13762	3.8	36
89	Synthesis, Photophysical, and Electrochemical Properties of Pyrenes Substituted with Donors or Acceptors at the 4- or 4,9-Positions. <i>Journal of Organic Chemistry</i> , <b>2018</b> , 83, 3599-3606	4.2	35
88	Persistent Room Temperature Phosphorescence from Triarylboranes: A Combined Experimental and Theoretical Study. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 17137-17144	16.4	34
87	Bromination Improves the Electron Mobility of Tetraazapentacene. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 9543-9547	16.4	32
86	Optimization of Aqueous Stability versus EConjugation in Tetracationic Bis(triarylborane) Chromophores: Applications in Live-Cell Fluorescence Imaging. <i>Chemistry - A European Journal</i> , <b>2019</b> , 25, 7679-7688	4.8	30
85	Ni-Catalyzed Traceless, Directed C <sup>3</sup> -Selective C-H Borylation of Indoles. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 13136-13144	16.4	30

84	Reaction of titanium with carbon in a laser heated diamond anvil cell and reevaluation of a proposed pressure-induced structural phase transition of TiC. <i>Journal of Alloys and Compounds</i> , <b>2009</b> , 478, 392-397	5.7	30
83	Copper-Catalyzed Triboration of Terminal Alkynes Using B pin : Efficient Synthesis of 1,1,2-Triborylalkenes. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 304-309	16.4	28
82	Synthesis, photophysical and electronic properties of tetra-donor- or acceptor-substituted -perylene displaying four reversible oxidations or reductions. <i>Chemical Science</i> , <b>2019</b> , 10, 7516-7534	9.4	26
81	High-pressure behavior of the ternary bismuth oxides , and. <i>Journal of Solid State Chemistry</i> , <b>2009</b> , 182, 767-777	3.3	26
80	Catalyst-free room-temperature iClick reaction of molybdenum(ii) and tungsten(ii) azide complexes with electron-poor alkynes: structural preferences and kinetic studies. <i>Dalton Transactions</i> , <b>2017</b> , 46, 13386-13396	4.3	25
79	Diamond formation from CaCO <sub>3</sub> at high pressure and temperature. <i>European Journal of Mineralogy</i> , <b>2010</b> , 22, 29-34	2.2	25
78	Copper-Catalysed Suzuki-Miyaura Cross-Coupling of Highly Fluorinated Aryl Boronate Esters with Aryl Iodides and Bromides and Fluoroarene-Arene $\pi$ -Stacking Interactions in the Products. <i>ChemCatChem</i> , <b>2019</b> , 11, 5387-5396	5.2	24
77	Structural compression and vibrational properties of Bi <sub>12</sub> SiO <sub>20</sub> sillenite from experiment and theory. <i>Journal of Physics Condensed Matter</i> , <b>2010</b> , 22, 505401	1.8	24
76	Thermal expansion of mullite-type Bi <sub>2</sub> Al <sub>4</sub> O <sub>9</sub> : A study by X-ray diffraction, vibrational spectroscopy and density functional theory. <i>Journal of Solid State Chemistry</i> , <b>2015</b> , 229, 87-96	3.3	23
75	Computationally Guided Molecular Design to Minimize the LE/CT Gap in D- $\pi$ -A Fluorinated Triarylboranes for Efficient TADF via D and $\pi$ -Bridge Tuning. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2002064	15.6	23
74	Vibrational properties of Re <sub>3</sub> N from experiment and theory. <i>Physical Review B</i> , <b>2010</b> , 82,	3.3	23
73	Persistence of the stereochemical activity of the Bi <sup>3+</sup> lone electron pair in Bi <sub>2</sub> Ga <sub>4</sub> O <sub>9</sub> up to 50 GPa and crystal structure of the high-pressure phase. <i>Acta Crystallographica Section B: Structural Science</i> , <b>2010</b> , 66, 323-37		23
72	Highly Stable, Readily Reducible, Fluorescent, Trifluoromethylated 9-Borafluorenes. <i>Chemistry - A European Journal</i> , <b>2020</b> , 26, 12794-12808	4.8	22
71	The CO release properties of $\eta^1$ , $\eta^2$ Mn(I) tricarbonyl photoCORMs with tridentate benzimidazole coligands. <i>Inorganic Chemistry Frontiers</i> , <b>2017</b> , 4, 1517-1524	6.8	21
70	Single-crystal structure refinement of diaspore at 50 GPa. <i>American Mineralogist</i> , <b>2007</b> , 92, 1640-1644	2.9	21
69	Pressure-Induced Polymerization of Polycyclic Arene-Perfluoroarene Cocrystals: Single Crystal X-ray Diffraction Studies, Reaction Kinetics, and Design of Columnar Hydrofluorocarbons. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 18907-18923	16.4	19
68	Triarylborane-Based Helical Donor-Acceptor Compounds: Synthesis, Photophysical, and Electronic Properties. <i>Chemistry - A European Journal</i> , <b>2019</b> , 25, 10845-10857	4.8	18
67	Palladium-Catalyzed Homocoupling of Highly Fluorinated Arylboronates: Studies of the Influence of Strongly vs Weakly Coordinating Solvents on the Reductive Elimination Process. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 6036-6050	16.4	18

66	Copper-Catalyzed Triboration: Straightforward, Atom-Economical Synthesis of 1,1,1-Triborylalkanes from Terminal Alkynes and HBpin. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 18923-18927	16.4	18
65	Synthesis, Photophysical and Electronic Properties of New Red-to-NIR Emitting Donor-Acceptor Pyrene Derivatives. <i>Chemistry - A European Journal</i> , <b>2020</b> , 26, 438-453	4.8	17
64	Dispersion Relation of an OH-Stretching Vibration from Inelastic X-Ray Scattering. <i>Physical Review Letters</i> , <b>2008</b> , 101, 065501	7.4	16
63	Structure, compressibility, hydrogen bonding, and dehydration of the tetragonal Mn <sup>3+</sup> hydrogarnet, henritermierite. <i>American Mineralogist</i> , <b>2001</b> , 86, 147-158	2.9	16
62	Regio- and Stereoselective Synthesis of 1,1-Diborylalkenes via Brønsted Base-Catalyzed Mixed Diboration of Alkynyl Esters and Amides with BpinBdan. <i>European Journal of Organic Chemistry</i> , <b>2020</b> , 2020, 1941-1946	3.2	15
61	Crystal chemistry of the new mineral brandholzite, Mg(H <sub>2</sub> O) <sub>6</sub> [Sb(OH) <sub>6</sub> ] <sub>2</sub> , and of the synthetic analogues M <sub>2</sub> +(H <sub>2</sub> O) <sub>6</sub> [Sb(OH) <sub>6</sub> ] <sub>2</sub> (M <sub>2</sub> + = Mg, Co). <i>American Mineralogist</i> , <b>2000</b> , 85, 593-599	2.9	15
60	In situ synchrotron X-ray diffraction study of the formation of TaB <sub>2</sub> from the elements in a laser heated diamond anvil cell. <i>Solid State Sciences</i> , <b>2010</b> , 12, 2059-2064	3.4	14
59	FBpin and its adducts and their role in catalytic borylations. <i>Faraday Discussions</i> , <b>2019</b> , 220, 350-363	3.6	13
58	Tetracationic Bis-Triarylborane 1,3-Butadiyne as a Combined Fluorimetric and Raman Probe for Simultaneous and Selective Sensing of Various DNA, RNA, and Proteins. <i>Chemistry - A European Journal</i> , <b>2020</b> , 26, 6017-6028	4.8	13
57	High-pressure behavior of sillimanite and kyanite: Compressibility, decomposition and indications of a new high-pressure phase. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , <b>2004</b> , 219, 324-329	1	13
56	Phenylpyridyl-Fused Boroles: A Unique Coordination Mode and Weak B-N Coordination-Induced Dual Fluorescence. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 4833-4840	16.4	13
55	Tetrabromtetraazapentacen: erhöhte Elektronenbeweglichkeit. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 9688-9692	9.6	13
54	Comparison Study of the Site-Effect on Regioisomeric Pyridyl-Pyrene Conjugates: Synthesis, Structures, and Photophysical Properties. <i>Journal of Organic Chemistry</i> , <b>2020</b> , 85, 4256-4266	4.2	12
53	Materials Properties of Ultra-Incompressible Re <sub>2</sub> P. <i>Chemistry of Materials</i> , <b>2012</b> , 24, 3240-3246	9.6	12
52	An Iterative Divergent Approach to Conjugated Starburst Borane Dendrimers. <i>Chemistry - A European Journal</i> , <b>2020</b> , 26, 12951-12963	4.8	12
51	Blue-light induced CO releasing properties of thiourea based manganese(I) carbonyl complexes. <i>Polyhedron</i> , <b>2017</b> , 131, 13-21	2.7	11
50	N-Heterocyclic Olefins as Electron Donors in Combination with Triarylborane Acceptors: Synthesis, Optical and Electronic Properties of D-π-A Compounds. <i>Chemistry - A European Journal</i> , <b>2019</b> , 25, 13777-13784	4.8	11
49	Formation of scandium carbides and scandium oxycarbide from the elements at high-(P, T) conditions. <i>Journal of Solid State Chemistry</i> , <b>2010</b> , 183, 975-983	3.3	11

48	Virtual crystal approximation study of nitridosilicates and oxonitridoaluminosilicates. <i>Journal of Physics and Chemistry of Solids</i> , <b>2008</b> , 69, 1861-1868	3.9	11
47	The Borono-Strecker Reaction: Synthesis of $\beta$ -Aminoboronates via a Multicomponent Reaction of Carbonyl Compounds, Amines, and Bpin. <i>Organic Letters</i> , <b>2020</b> , 22, 365-370	6.2	11
46	Copper-Catalyzed Oxidative Cross-Coupling of Electron-Deficient Polyfluorophenylboronate Esters with Terminal Alkynes. <i>Chemistry - A European Journal</i> , <b>2020</b> , 26, 17267-17274	4.8	11
45	Hydrogen-bond-mediated structural variation of metal guanidinium formate hybrid perovskites under pressure. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2019</b> , 377, 20180227	3	10
44	Cytotoxicity of photoactivatable bromo tricarbonyl manganese(i) compounds against human liver carcinoma cells. <i>Dalton Transactions</i> , <b>2020</b> , 49, 9294-9305	4.3	10
43	Pressure-induced spin collapse of octahedrally coordinated Fe <sup>3+</sup> in Ca <sub>3</sub> Fe <sub>2</sub> [SiO <sub>4</sub> ] <sub>3</sub> from experiment and theory. <i>Physical Review B</i> , <b>2014</b> , 90,	3.3	9
42	Experimental evidence for the structural models of Re <sub>2</sub> N and Re <sub>2</sub> C from micro-Raman spectroscopy. <i>Physical Review B</i> , <b>2012</b> , 86,	3.3	9
41	Phase transitions in KIO(3). <i>Journal of Physics Condensed Matter</i> , <b>2012</b> , 24, 325401, 1-11	1.8	9
40	Kupfer-katalysierte Triborierung terminaler Alkine mit B <sub>2</sub> pin <sub>2</sub> : Effiziente Synthese von 1,1,2-Triborylalkenen. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 311-316	3.6	9
39	IClick cycloaddition reaction of light-triggered manganese(i) carbonyl complexes. <i>New Journal of Chemistry</i> , <b>2018</b> , 42, 18418-18425	3.6	9
38	High-pressure phase transition of Bi <sub>2</sub> Fe <sub>4</sub> O <sub>9</sub> . <i>Journal of Physics Condensed Matter</i> , <b>2012</b> , 24, 145401	1.8	8
37	Bis(phenylethynyl)arene Linkers in Tetracationic Bis-triarylborane Chromophores Control Fluorimetric and Raman Sensing of Various DNAs and RNAs. <i>Chemistry - A European Journal</i> , <b>2021</b> , 27, 5142-5159	4.8	8
36	Electronically Driven Regioselective Iridium-Catalyzed C-H Borylation of Donor-Acceptor Chromophores Containing Triarylboron Acceptors. <i>Chemistry - A European Journal</i> , <b>2020</b> , 26, 10626-10633	4.8	7
35	Compression behavior of Sm <sub>2</sub> Ti <sub>2</sub> O <sub>7</sub> -pyrochlore up to 50 GPa: single-crystal X-ray diffraction and density functional theory calculations. <i>Science Bulletin</i> , <b>2014</b> , 59, 5278-5282		7
34	Compression behaviour of nitridocarbidosilicates studied with X-ray diffraction and ab initio calculations. <i>Journal of Physics and Chemistry of Solids</i> , <b>2009</b> , 70, 97-106	3.9	7
33	Synthesis and Structure of an o-Carboranyl-Substituted Three-Coordinate Borane Radical Anion. <i>Chemistry - A European Journal</i> , <b>2021</b> , 27, 8159-8167	4.8	7
32	High-pressure optical spectroscopy study of natural siderite. <i>Physics and Chemistry of Minerals</i> , <b>2017</b> , 44, 537-546	1.6	6
31	Persistent Room Temperature Phosphorescence from Triarylboranes: A Combined Experimental and Theoretical Study. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 17285-17292	3.6	6

30	Concise synthesis of amino cyclic boronates via multicomponent coupling of salicylaldehydes, amines, and B <sub>2</sub> (OH) <sub>4</sub> . <i>Green Chemistry</i> , <b>2020</b> , 22, 2184-2190	10	6
29	Highly Conjugated Systems Arising from Cannibalistic Hexahydro-Diels-Alder Couplings: Cleavage of C-C Single and Triple Bonds. <i>Chemistry - A European Journal</i> , <b>2020</b> , 26, 15989-16000	4.8	6
28	Elastic properties of single crystal Bi <sub>12</sub> SiO <sub>20</sub> as a function of pressure and temperature and acoustic attenuation effects in Bi <sub>12</sub> MO <sub>20</sub> (M = Si, Ge and Ti). <i>Materials Research Express</i> , <b>2020</b> ,	1.7	6
27	Evidence of Increased Hydrophobicity and Dynamics inside the Tail Region of Glycolipid Self-Assemblies Using 2-Alkyl-Pyrene Derivatives to Probe Different Locations. <i>Langmuir</i> , <b>2019</b> , 35, 9584-9592 <sup>6</sup>	4.8	6
26	High pressure powder X-ray diffraction of sillenites Bi <sub>12</sub> MO <sub>20</sub> (M=Si, Ge, Ti) and Bi <sub>4</sub> Ti <sub>3</sub> O <sub>12</sub> . <i>Journal of Solid State Chemistry</i> , <b>2013</b> , 208, 35-42	3.3	6
25	Pressure-induced spin collapse of octahedrally coordinated Mn <sup>3+</sup> in the tetragonal hydrogarnet henritermierite Ca <sub>3</sub> Mn <sub>2</sub> [SiO <sub>4</sub> ] <sub>2</sub> [O <sub>4</sub> H <sub>4</sub> ]. <i>Physical Review B</i> , <b>2015</b> , 92,	3.3	6
24	High-pressure behavior of Ba(OH) <sub>2</sub> : Phase transitions and bulk modulus. <i>Physical Review B</i> , <b>2002</b> , 66,	3.3	6
23	Direct observation of benzyne formation in photochemical hexahydro-Diels-Alder (HDDA) reactions. <i>Chemical Science</i> , <b>2020</b> , 11, 9198-9208	9.4	6
22	2,2',6,6'-Terpyridine switches from tridentate to monodentate coordination in a gold(III) terpy complex upon reaction with sodium azide. <i>Chemical Communications</i> , <b>2019</b> , 55, 8142-8145	5.8	5
21	Mono- and Dianion of a Bis(benzobuta)tetraazapentacene Derivative. <i>Chemistry - A European Journal</i> , <b>2019</b> , 25, 9840-9845	4.8	5
20	In situ study of the formation of rhenium borides from the elements at high-(p, T) conditions: Extreme incompressibility of Re <sub>7</sub> B <sub>3</sub> and formation of new phases. <i>Solid State Sciences</i> , <b>2013</b> , 25, 85-92	3.4	5
19	Temperature-dependent neutron powder diffraction study of the Ba(OD) <sub>2</sub> polymorphs: a new low-temperature phase. <i>Acta Crystallographica Section B: Structural Science</i> , <b>2001</b> , 57, 747-58		5
18	Highly Emissive 9-Borafluorene Derivatives: Synthesis, Photophysical Properties and Device Fabrication. <i>Chemistry - A European Journal</i> , <b>2021</b> , 27, 6274-6282	4.8	5
17	Ni-Catalyzed Borylation of Aryl Sulfoxides. <i>Chemistry - A European Journal</i> , <b>2021</b> , 27, 8149-8158	4.8	5
16	2- and 2,7-Substituted para-N-Methylpyridinium Pyrenes: Syntheses, Molecular and Electronic Structures, Photophysical, Electrochemical, and Spectroelectrochemical Properties and Binding to Double-Stranded (ds) DNA. <i>Chemistry - A European Journal</i> , <b>2021</b> , 27, 2837-2853	4.8	5
15	Bithiophene-Cored, mono-, bis-, and tris-(Trimethylammonium)-Substituted, bis-Triarylborane Chromophores: Effect of the Number and Position of Charges on Cell Imaging and DNA/RNA Sensing. <i>Chemistry - A European Journal</i> , <b>2021</b> , 27, 14057-14072	4.8	5
14	High-pressure phase transition of the oxonitridosilicate chloride Ce <sub>4</sub> [Si <sub>4</sub> O <sub>3+x</sub> N <sub>7-x</sub> ]Cl <sub>1-x</sub> O <sub>x</sub> with x = 0.12 and 0.18. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , <b>2005</b> , 220,	1	4
13	Tris(pentafluoroethyl)difluorophosphorane: A Versatile Fluoride Acceptor for Transition Metal Chemistry. <i>Chemistry - A European Journal</i> , <b>2021</b> , 27, 3504-3516	4.8	4

12	High-pressure behavior and equations of state of the cobaltates YBaCo4O7, . <i>Journal of Solid State Chemistry</i> , <b>2012</b> , 196, 209-216	3.3	3
11	Synthesis of Highly Functionalizable Symmetrically and Unsymmetrically Substituted Triarylboranes from Bench-Stable Boron Precursors. <i>Chemistry - A European Journal</i> , <b>2021</b> , 27, 9094-9101	4.8	3
10	One- and two-electron reduction of triarylborane-based helical donor-acceptor compounds. <i>Chemical Science</i> , <b>2021</b> , 12, 11864-11872	9.4	3
9	Kupferkatalysierte Triborierung: Einfache, atomökonomische Synthese von 1,1,1-Triborylalkanen aus terminalen Alkinen und HBpin. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 19099-19103	3.6	2
8	Synthesis of TaC and Ta <sub>2</sub> C from tantalum and graphite in the laser-heated diamond anvil cell. <i>Science Bulletin</i> , <b>2014</b> , 59, 5283-5289		2
7	Decomposition of W(CO) <sub>6</sub> at high pressures and temperatures. <i>Journal of Applied Crystallography</i> , <b>2011</b> , 44, 820-830	3.8	2
6	Pure Boric Acid Does Not Show Room Temperature Phosphorescence (RTP).. <i>Angewandte Chemie - International Edition</i> , <b>2022</b> ,	16.4	2
5	Role of Intermolecular Interactions in the Excited-State Photophysics of Tetracene and 2,2'-Ditetracene. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 19435-19446	3.8	2
4	Phenylpyridyl-Fused Boroles: A Unique Coordination Mode and Weak B-N Coordination-Induced Dual Fluorescence. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 4883-4890	3.6	2
3	Transition Metal Catalyst-Free, Base-Promoted 1,2-Additions of Polyfluorophenylboronates to Aldehydes and Ketones. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 16665-16674	3.6	0
2	Transition Metal Catalyst-Free, Base-Promoted 1,2-Additions of Polyfluorophenylboronates to Aldehydes and Ketones. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 16529-16538	16.4	0
1	Crystal structure of the high-pressure phase of the oxonitridosilicate chloride Ce <sub>4</sub> [Si <sub>4</sub> O(3 + x)N(7 - x)]Cl(1 - x)O(x), x approximately = 0.2. <i>Acta Crystallographica Section B: Structural Science</i> , <b>2006</b> , 62, 205-11		