

Alexandra Friedrich

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Pure Boric Acid Does Not Show Room Temperature Phosphorescence (RTP).. <i>Angewandte Chemie - International Edition</i> , 2022 ,	16.4	2
100	Highly Emissive 9-Borafluorene Derivatives: Synthesis, Photophysical Properties and Device Fabrication. <i>Chemistry - A European Journal</i> , 2021 , 27, 6274-6282	4.8	5
99	Ni-Catalyzed Borylation of Aryl Sulfoxides. <i>Chemistry - A European Journal</i> , 2021 , 27, 8149-8158	4.8	5
98	Synthesis and Structure of an o-Carboranyl-Substituted Three-Coordinate Borane Radical Anion. <i>Chemistry - A European Journal</i> , 2021 , 27, 8159-8167	4.8	7
97	Synthesis of Highly Functionalizable Symmetrically and Unsymmetrically Substituted Triarylboranes from Bench-Stable Boron Precursors. <i>Chemistry - A European Journal</i> , 2021 , 27, 9094-9101	4.8	3
96	Transition Metal Catalyst-Free, Base-Promoted 1,2-Additions of Polyfluorophenylboronates to Aldehydes and Ketones. <i>Angewandte Chemie</i> , 2021 , 133, 16665-16674	3.6	0
95	Transition Metal Catalyst-Free, Base-Promoted 1,2-Additions of Polyfluorophenylboronates to Aldehydes and Ketones. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 16529-16538	16.4	0
94	Phenylpyridyl-Fused Boroles: A Unique Coordination Mode and Weak B-N Coordination-Induced Dual Fluorescence. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 4833-4840	16.4	13
93	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> , 2021 , 27, 2837-2853	4.8	5
92	Tris(pentafluoroethyl)difluorophosphorane: A Versatile Fluoride Acceptor for Transition Metal Chemistry. <i>Chemistry - A European Journal</i> , 2021 , 27, 3504-3516	4.8	4
91	Phenylpyridyl-Fused Boroles: A Unique Coordination Mode and Weak B-N Coordination-Induced Dual Fluorescence. <i>Angewandte Chemie</i> , 2021 , 133, 4883-4890	3.6	2
90	One- and two-electron reduction of triarylborane-based helical donor-acceptor compounds. <i>Chemical Science</i> , 2021 , 12, 11864-11872	9.4	3
89	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> , 2021 , 27, 5142-5159	4.8	8
88	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> , 2021 , 27, 14057-14072	4.8	5
87	Computationally Guided Molecular Design to Minimize the LE/CT Gap in D- π -A Fluorinated Triarylboranes for Efficient TADF via D and π -Bridge Tuning. <i>Advanced Functional Materials</i> , 2020 , 30, 2002064	15.6	23
86	Persistent Room Temperature Phosphorescence from Triarylboranes: A Combined Experimental and Theoretical Study. <i>Angewandte Chemie</i> , 2020 , 132, 17285-17292	3.6	6
85	Persistent Room Temperature Phosphorescence from Triarylboranes: A Combined Experimental and Theoretical Study. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 17137-17144	16.4	34

84	Cytotoxicity of photoactivatable bromo tricarbonyl manganese(i) compounds against human liver carcinoma cells. <i>Dalton Transactions</i> , 2020 , 49, 9294-9305	4.3	10
83	Electronically Driven Regioselective Iridium-Catalyzed C-H Borylation of Donor-Acceptor Chromophores Containing Triarylboron Acceptors. <i>Chemistry - A European Journal</i> , 2020 , 26, 10626-10633	4.8	7
82	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> , 2020 , 2020, 1941-1946	3.2	15
81	Comparison Study of the Site-Effect on Regioisomeric Pyridyl-Pyrene Conjugates: Synthesis, Structures, and Photophysical Properties. <i>Journal of Organic Chemistry</i> , 2020 , 85, 4256-4266	4.2	12
80	Concise synthesis of amino cyclic boronates via multicomponent coupling of salicylaldehydes, amines, and B ₂ (OH) ₄ . <i>Green Chemistry</i> , 2020 , 22, 2184-2190	10	6
79	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> , 2020 , 142, 6036-6050	16.4	18
78	Highly Conjugated Systems Arising from Cannibalistic Hexadehydro-Diels-Alder Couplings: Cleavage of C-C Single and Triple Bonds. <i>Chemistry - A European Journal</i> , 2020 , 26, 15989-16000	4.8	6
77	Ni-Catalyzed Traceless, Directed C ³ -Selective C-H Borylation of Indoles. <i>Journal of the American Chemical Society</i> , 2020 , 142, 13136-13144	16.4	30
76	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> , 2020 , 26, 6017-6028	4.8	13
75	Elastic properties of single crystal Bi ₁₂ SiO ₂₀ as a function of pressure and temperature and acoustic attenuation effects in Bi ₁₂ MO ₂₀ (M = Si, Ge and Ti). <i>Materials Research Express</i> , 2020 ,	1.7	6
74	Highly Stable, Readily Reducible, Fluorescent, Trifluoromethylated 9-Borafluorenes. <i>Chemistry - A European Journal</i> , 2020 , 26, 12794-12808	4.8	22
73	Direct observation of -benzyne formation in photochemical hexadehydro-Diels-Alder (-HDDA) reactions. <i>Chemical Science</i> , 2020 , 11, 9198-9208	9.4	6
72	Kupfer-katalysierte Triborierung terminaler Alkine mit B ₂ pin ₂ : Effiziente Synthese von 1,1,2-Triborylalkenen. <i>Angewandte Chemie</i> , 2020 , 132, 311-316	3.6	9
71	The Borono-Strecker Reaction: Synthesis of Aminoboronates via a Multicomponent Reaction of Carbonyl Compounds, Amines, and Bpin. <i>Organic Letters</i> , 2020 , 22, 365-370	6.2	11
70	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> , 2020 , 142, 18907-18923	16.4	19
69	Copper-Catalyzed Oxidative Cross-Coupling of Electron-Deficient Polyfluorophenylboronate Esters with Terminal Alkynes. <i>Chemistry - A European Journal</i> , 2020 , 26, 17267-17274	4.8	11
68	Role of Intermolecular Interactions in the Excited-State Photophysics of Tetracene and 2,2'-Ditetracene. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 19435-19446	3.8	2
67	Copper-Catalyzed Triboration of Terminal Alkynes Using B pin : Efficient Synthesis of 1,1,2-Triborylalkenes. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 304-309	16.4	28

66	Synthesis, Photophysical and Electronic Properties of New Red-to-NIR Emitting Donor-Acceptor Pyrene Derivatives. <i>Chemistry - A European Journal</i> , 2020 , 26, 438-453	4.8	17
65	An Iterative Divergent Approach to Conjugated Starburst Borane Dendrimers. <i>Chemistry - A European Journal</i> , 2020 , 26, 12951-12963	4.8	12
64	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> , 2019 , 55, 8142-8145	5.8	5
63	Triarylborane-Based Helical Donor-Acceptor Compounds: Synthesis, Photophysical, and Electronic Properties. <i>Chemistry - A European Journal</i> , 2019 , 25, 10845-10857	4.8	18
62	Synthesis, photophysical and electronic properties of tetra-donor- or acceptor-substituted -perylene displaying four reversible oxidations or reductions. <i>Chemical Science</i> , 2019 , 10, 7516-7534	9.4	26
61	Hydrogen-bond-mediated structural variation of metal guanidinium formate hybrid perovskites under pressure. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2019 , 377, 20180227	3	10
60	Mono- and Dianion of a Bis(benzobuta)tetraazapentacene Derivative. <i>Chemistry - A European Journal</i> , 2019 , 25, 9840-9845	4.8	5
59	FBpin and its adducts and their role in catalytic borylations. <i>Faraday Discussions</i> , 2019 , 220, 350-363	3.6	13
58	Optimization of Aqueous Stability versus Conjugation in Tetracationic Bis(triarylborane) Chromophores: Applications in Live-Cell Fluorescence Imaging. <i>Chemistry - A European Journal</i> , 2019 , 25, 7679-7688	4.8	30
57	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> , 2019 , 35, 9584-9592 ⁶	4.8	6
56	Copper-Catalysed Suzuki-Miyaura Cross-Coupling of Highly Fluorinated Aryl Boronate Esters with Aryl Iodides and Bromides and Fluoroarene-Arene Stacking Interactions in the Products. <i>ChemCatChem</i> , 2019 , 11, 5387-5396	5.2	24
55	Kupferkatalysierte Triborierung: Einfache, atomökonomische Synthese von 1,1,1-Triborylalkanen aus terminalen Alkinen und HBpin. <i>Angewandte Chemie</i> , 2019 , 131, 19099-19103	3.6	2
54	Copper-Catalyzed Triboration: Straightforward, Atom-Economical Synthesis of 1,1,1-Triborylalkanes from Terminal Alkynes and HBpin. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 18923-18927	16.4	18
53	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> , 2019 , 25, 13777-13784	4.8	11
52	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> , 2018 , 83, 3599-3606	4.2	35
51	IClick cycloaddition reaction of light-triggered manganese(I) carbonyl complexes. <i>New Journal of Chemistry</i> , 2018 , 42, 18418-18425	3.6	9
50	Tetrabromtetraazapentacen: erhöhte Elektronenbeweglichkeit. <i>Angewandte Chemie</i> , 2018 , 130, 9688-9692	3.6	13
49	Bromination Improves the Electron Mobility of Tetraazapentacene. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 9543-9547	16.4	32

48	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> , 2017 , 46, 3661-3680	4.3	50
47	High-pressure optical spectroscopy study of natural siderite. <i>Physics and Chemistry of Minerals</i> , 2017 , 44, 537-546	1.6	6
46	Blue-light induced CO releasing properties of thiourea based manganese(I) carbonyl complexes. <i>Polyhedron</i> , 2017 , 131, 13-21	2.7	11
45	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> , 2017 , 46, 13386-13396	4.3	25
44	Pyrene Molecular Orbital Shuffle-Controlling Excited State and Redox Properties by Changing the Nature of the Frontier Orbitals. <i>Chemistry - A European Journal</i> , 2017 , 23, 13164-13180	4.8	70
43	The CO release properties of $\eta^{1,2}$ Mn(I) tricarbonyl photoCORMs with tridentate benzimidazole coligands. <i>Inorganic Chemistry Frontiers</i> , 2017 , 4, 1517-1524	6.8	21
42	Preparation, Properties, and Structures of the Radical Anions and Dianions of Azapentacenes. <i>Journal of the American Chemical Society</i> , 2017 , 139, 15968-15976	16.4	46
41	NHC Nickel-Catalyzed Suzuki-Miyaura Cross-Coupling Reactions of Aryl Boronate Esters with Perfluorobenzenes. <i>Journal of Organic Chemistry</i> , 2016 , 81, 5789-94	4.2	65
40	Phase Stability of Lanthanum Orthovanadate at High Pressure. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 13749-13762	3.8	36
39	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> , 2016 , 138, 5250-3	16.4	136
38	Thermal expansion of mullite-type $\text{Bi}_2\text{Al}_4\text{O}_9$: A study by X-ray diffraction, vibrational spectroscopy and density functional theory. <i>Journal of Solid State Chemistry</i> , 2015 , 229, 87-96	3.3	23
37	Pressure-induced spin collapse of octahedrally coordinated Mn^{3+} in the tetragonal hydrogarnet henritermierite $\text{Ca}_3\text{Mn}_2[\text{SiO}_4]_2[\text{O}_4\text{H}_4]$. <i>Physical Review B</i> , 2015 , 92,	3.3	6
36	Pressure-induced spin collapse of octahedrally coordinated Fe^{3+} in $\text{Ca}_3\text{Fe}_2[\text{SiO}_4]_3$ from experiment and theory. <i>Physical Review B</i> , 2014 , 90,	3.3	9
35	Synthesis of TaC and Ta ₂ C from tantalum and graphite in the laser-heated diamond anvil cell. <i>Science Bulletin</i> , 2014 , 59, 5283-5289		2
34	Compression behavior of $\text{Sm}_2\text{Ti}_2\text{O}_7$ -pyrochlore up to 50 GPa: single-crystal X-ray diffraction and density functional theory calculations. <i>Science Bulletin</i> , 2014 , 59, 5278-5282		7
33	High pressure powder X-ray diffraction of sillenites $\text{Bi}_{12}\text{MO}_{20}$ (M=Si, Ge, Ti) and $\text{Bi}_4\text{Ti}_3\text{O}_{12}$. <i>Journal of Solid State Chemistry</i> , 2013 , 208, 35-42	3.3	6
32	In situ study of the formation of rhenium borides from the elements at high-(p, T) conditions: Extreme incompressibility of Re_7B_3 and formation of new phases. <i>Solid State Sciences</i> , 2013 , 25, 85-92	3.4	5
31	High-pressure behavior and equations of state of the cobaltates YBaCo_4O_7 , . <i>Journal of Solid State Chemistry</i> , 2012 , 196, 209-216	3.3	3

30	Materials Properties of Ultra-Incompressible Re ₂ P. <i>Chemistry of Materials</i> , 2012 , 24, 3240-3246	9.6	12
29	Experimental evidence for the structural models of Re ₂ N and Re ₂ C from micro-Raman spectroscopy. <i>Physical Review B</i> , 2012 , 86,	3.3	9
28	High-pressure phase transition of Bi ₂ Fe ₄ O ₉ . <i>Journal of Physics Condensed Matter</i> , 2012 , 24, 145401	1.8	8
27	Phase transitions in KIO ₃ . <i>Journal of Physics Condensed Matter</i> , 2012 , 24, 325401, 1-11	1.8	9
26	Decomposition of W(CO) ₆ at high pressures and temperatures. <i>Journal of Applied Crystallography</i> , 2011 , 44, 820-830	3.8	2
25	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> , 2011 , 4, 1648-1692	3.5	87
24	Vibrational properties of Re ₃ N from experiment and theory. <i>Physical Review B</i> , 2010 , 82,	3.3	23
23	Diamond formation from CaCO ₃ at high pressure and temperature. <i>European Journal of Mineralogy</i> , 2010 , 22, 29-34	2.2	25
22	Structural compression and vibrational properties of Bi ₁₂ SiO ₂₀ sillenite from experiment and theory. <i>Journal of Physics Condensed Matter</i> , 2010 , 22, 505401	1.8	24
21	In situ observation of the reaction of tantalum with nitrogen in a laser heated diamond anvil cell. <i>Journal of Alloys and Compounds</i> , 2010 , 502, 5-12	5.7	44
20	Novel rhenium nitrides. <i>Physical Review Letters</i> , 2010 , 105, 085504	7.4	134
19	In situ synchrotron X-ray diffraction study of the formation of TaB ₂ from the elements in a laser heated diamond anvil cell. <i>Solid State Sciences</i> , 2010 , 12, 2059-2064	3.4	14
18	Formation of scandium carbides and scandium oxycarbide from the elements at high-(P, T) conditions. <i>Journal of Solid State Chemistry</i> , 2010 , 183, 975-983	3.3	11
17	Persistence of the stereochemical activity of the Bi ³⁺ lone electron pair in Bi ₂ Ga ₄ O ₉ up to 50 GPa and crystal structure of the high-pressure phase. <i>Acta Crystallographica Section B: Structural Science</i> , 2010 , 66, 323-37		23
16	Single-crystal structure of HoBaCo ₄ O ₇ at ambient conditions, at low temperature, and at high pressure. <i>Physical Review B</i> , 2009 , 79,	3.3	36
15	Compression behaviour of nitridocarbidosilicates studied with X-ray diffraction and ab initio calculations. <i>Journal of Physics and Chemistry of Solids</i> , 2009 , 70, 97-106	3.9	7
14	High-pressure behavior of the ternary bismuth oxides, and. <i>Journal of Solid State Chemistry</i> , 2009 , 182, 767-777	3.3	26
13	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> , 2009 , 478, 392-397	5.7	30

12	Stability field of the high-(P, T) Re ₂ C phase and properties of an analogous osmium carbide phase. <i>Journal of Alloys and Compounds</i> , 2009 , 481, 577-581	5.7	48
11	Reaction of rhenium and carbon at high pressures and temperatures. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2008 , 223,	1	38
10	Dispersion Relation of an OH-Stretching Vibration from Inelastic X-Ray Scattering. <i>Physical Review Letters</i> , 2008 , 101, 065501	7.4	16
9	Virtual crystal approximation study of nitridosilicates and oxonitridoaluminosilicates. <i>Journal of Physics and Chemistry of Solids</i> , 2008 , 69, 1861-1868	3.9	11
8	Single-crystal structure refinement of diasporite at 50 GPa. <i>American Mineralogist</i> , 2007 , 92, 1640-1644	2.9	21
7	Crystal structure of the high-pressure phase of the oxonitridosilicate chloride Ce ₄ [Si ₄ O _{3+x} N _(7-x)]Cl _(1-x) O _(x) , x approximately = 0.2. <i>Acta Crystallographica Section B: Structural Science</i> , 2006 , 62, 205-11		
6	High-pressure phase transition of the oxonitridosilicate chloride Ce ₄ [Si ₄ O _{3+x} N _(7-x)]Cl _(1-x) O _(x) with x = 0.12 and 0.18. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2005 , 220,	1	4
5	High-pressure behavior of sillimanite and kyanite: Compressibility, decomposition and indications of a new high-pressure phase. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2004 , 219, 324-329	1	13
4	High-pressure behavior of Ba(OH) ₂ : Phase transitions and bulk modulus. <i>Physical Review B</i> , 2002 , 66,	3.3	6
3	Temperature-dependent neutron powder diffraction study of the Ba(OH) ₂ polymorphs: a new low-temperature phase. <i>Acta Crystallographica Section B: Structural Science</i> , 2001 , 57, 747-58		5
2	Structure, compressibility, hydrogen bonding, and dehydration of the tetragonal Mn ³⁺ hydrogarnet, henritermierite. <i>American Mineralogist</i> , 2001 , 86, 147-158	2.9	16
1	Crystal chemistry of the new mineral brandholzite, Mg(H ₂ O) ₆ [Sb(OH) ₆] ₂ , and of the synthetic analogues M ₂ +(H ₂ O) ₆ [Sb(OH) ₆] ₂ (M ₂ + = Mg, Co). <i>American Mineralogist</i> , 2000 , 85, 593-599	2.9	15