

Konrad Seppelt

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Molecular insights into photostability of fluorinated organic photovoltaic blends: role of fullerene electron affinity and donor-acceptor miscibility. <i>Sustainable Energy and Fuels</i> , 2020, 4, 5721-5731.	4.9	2
2	Triplet Excitons in Pentacene Are Intrinsically Difficult to Dissociate via Charge Transfer. <i>Journal of Physical Chemistry C</i> , 2020, 124, 26153-26164.	3.1	12
3	Trifluoromethylated Phenanthroline Ligands Reduce Excited-State Distortion in Homoleptic Copper(I) Complexes. <i>Inorganic Chemistry</i> , 2020, 59, 2781-2790.	4.0	18
4	PAH/PAH(CF ₃) _n Donor/Acceptor Charge-Transfer Complexes in Solution and in Solid-State Co-Crystals. <i>Chemistry - A European Journal</i> , 2019, 25, 13547-13565.	3.3	7
5	Hydrated Metal Ion Salts of the Weakly Coordinating Fluoroanions PF ₆ ⁻ , TiF ₆ ²⁻ , B ₁₂ F ₁₂ ²⁻ , Ga(C ₂ F ₅) ₄ ⁻ , B(3,5-C ₆ H ₃ (CF ₃) ₂) ₄ ⁻ , and Al(OC(C ₃) ₃) ₄ ⁻ . In Search of the Weakest HOH...F Hydrogen Bonds. <i>Inorganic Chemistry</i> , 2019, 58, 14900-14911.	4.0	5
6	Room-Temperature FTIR Spectra of the Cyclic S ₄ (H ₂ O) ₄ Cluster in Crystalline Li ₂ (H ₂ O) ₄ (B ₁₂ F ₁₂): Observation of B and E 1/2(OH) Bands and Coupling of Strong O-H...O and Weak O-H...F Vibrations. <i>Journal of Physical Chemistry A</i> , 2019, 123, 9781-9790.	2.5	3
7	Steric and electronic effects of CF ₃ conformations in acene(CF ₃) derivatives. <i>Journal of Fluorine Chemistry</i> , 2019, 221, 1-7.	1.7	7
8	Photobleaching dynamics in small molecule vs. polymer organic photovoltaic blends with 1,7-bis-trifluoromethylfullerene. <i>Journal of Materials Chemistry A</i> , 2018, 6, 4623-4628.	10.3	16
9	Structures of 1,1,3,3-tetra(2-methyl-2-nonyl)ferrocenium(1+) salts of CB ₁₁ H ₁₂ ⁻ , B ₁₂ F ₁₂ ⁻ , BF ₄ ⁻ , PF ₆ ⁻ , and ClO ₃ ⁻ . <i>Journal of Organometallic Chemistry</i> , 2018, 865, 128-137.	1.8	4
10	Understanding Polyarene Trifluoromethylation with Hot CF ₃ Radicals Using Corannulene. <i>European Journal of Organic Chemistry</i> , 2018, 2018, 4233-4245.	2.4	8
11	Experimental and DFT Studies of the Electron-Withdrawing Ability of Perfluoroalkyl (R _n F _n) Groups: Electron Affinities of PAH(R _n F _n) Increase Significantly with Increasing R _n F _n Chain Length. <i>Chemistry - A European Journal</i> , 2018, 24, 1441-1447.	3.3	13
12	Manifestations of Weak O-H...F Hydrogen Bonding in M(H ₂ O) _n (B ₁₂ F ₁₂) Salt Hydrates: Unusually Sharp Fourier Transform Infrared 1/2(OH) Bands and Latent Porosity (M = Mg, Ba, Co, Ni, Zn). <i>Inorganic Chemistry</i> , 2018, 57, 14983-15000.	4.0	11
13	Structure of (SiEt ₃) ₂ (B ₁₂ F ₁₂). Another example of R ₃ Si-F-E bridge bonding (E=B, Al, Si). <i>Journal of Fluorine Chemistry</i> , 2018, 212, 107-111.	1.7	8
14	Exceptional Structural Compliance of the B ₁₂ F ₁₂ ²⁻ Superweak Anion. <i>Inorganic Chemistry</i> , 2017, 56, 4072-4083.	4.0	26
15	Crystal Structures of the Sodium Salts of B ₁₂ F ₁₂ ²⁻ , B ₁₂ Cl ₁₂ ²⁻ , and B ₁₂ H ₁₂ ²⁻ to Na ⁺ in the Solid State: Crystal Structures and Thermal Behavior of Na ₂ (B ₁₂ F ₁₂), Na ₂ (H ₂ O) ₄ (B ₁₂ F ₁₂), Na ₂ (B ₁₂ Cl ₁₂), and Na ₂ (B ₁₂ H ₁₂). <i>Inorganic Chemistry</i> , 2017, 56, 12023-12041.	4.0	34
16	Latent Porosity in Alkali-Metal M ₂ B ₁₂ F ₁₂ Salts: Structures and Rapid Room-Temperature Hydration/Dehydration Cycles. <i>Inorganic Chemistry</i> , 2017, 56, 12023-12041.	4.0	13
17	Copper Causes Regiospecific Formation of C ₄ F ₈ -Containing Six-Membered Rings and their Defluorination/Aromatization to C ₄ F ₄ -Containing Rings in Triphenylene/1,4-C ₄ F ₈ ₂ Reactions. <i>Chemistry - A European Journal</i> , 2016, 22, 874-877.	3.3	16
18	Anaerobic vs. aerobic preparation of silicon nanoparticles by stirred media milling. The effects of dioxygen, milling solvent, and milling time on particle size, surface area, crystallinity, surface/near-surface composition, and reactivity. <i>RSC Advances</i> , 2016, 6, 112370-112380.	3.6	1

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19	Variation of excited-state dynamics in trifluoromethyl functionalized C ₆₀ fullerenes. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 22937-22945.	2.8	5
20	Structures of M ₂ (SO ₂) ₆ B ₁₂ F ₁₂ (M = Ag or K) and Ag ₂ (H ₂ O) ₄ B ₁₂ F ₁₂ : Comparison of the Coordination of SO ₂ versus H ₂ O and of B ₁₂ F ₁₂ versus Other Weakly Coordinating Anions to Metal Ions in the Solid State. <i>Inorganic Chemistry</i> , 2016, 55, 12254-12262.	4.0	24
21	Jahn-Teller Effect in the B ₁₂ F ₁₂ Radical Anion and Energetic Preference of an Octahedral B ₆ (BF ₂) ₆ Cluster Structure over an Icosahedral Structure for the Elusive Neutral B ₁₂ F ₁₂ . <i>Inorganic Chemistry</i> , 2015, 54, 11563-11566.	4.0	21
22	Anion packing, hole filling, and HF solvation in A ₂ (HF) _n B ₁₂ F ₁₂ and K ₂ (HF)TiF ₆ (A=K, Cs). <i>Journal of Fluorine Chemistry</i> , 2013, 145, 118-127.	1.7	16
23	Halogenated Benzene Cation Radicals. <i>Chemistry - A European Journal</i> , 2012, 18, 6644-6654.	3.3	47
24	Chemical tailoring of fullerene acceptors: synthesis, structures and electrochemical properties of perfluoroisopropylfullerenes. <i>Chemical Communications</i> , 2011, 47, 875-877.	4.1	20
25	High-temperature and photochemical syntheses of C ₆₀ and C ₇₀ fullerene derivatives with linear perfluoroalkyl chains. <i>Journal of Fluorine Chemistry</i> , 2010, 131, 1198-1212.	1.7	19
26	Electrochemical, Spectroscopic, and DFT Study of C ₆₀ (CF ₃) _n Frontier Orbitals ($n = 2 \sim 18$): The Link between Double Bonds in Pentagons and Reduction Potentials. <i>Journal of the American Chemical Society</i> , 2007, 129, 11551-11568.	13.7	145
27	Variable-Temperature ¹⁹ F NMR and Theoretical Study of 1,9- and 1,7-C ₆₀ F(CF ₃) and Cs- and C ₁ -C ₆₀ F ₁₇ (CF ₃): Hindered CF ₃ Rotation and Through-Space JFC Coupling. <i>Journal of the American Chemical Society</i> , 2005, 127, 11497-11504.	13.7	53
28	Synthesis, Structure, and ¹⁹ F NMR Spectra of 1,3,7,10,14,17,23,28,31,40-C ₆₀ (CF ₃) ₁₀ . <i>Journal of the American Chemical Society</i> , 2005, 127, 8362-8375.	13.7	105