

# Konrad Seppelt

## List of Publications by Year in descending order

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28  
papers

659  
citations

623734

14  
h-index

552781

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29  
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docs citations

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times ranked

732  
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#	ARTICLE	IF	CITATIONS
1	Electrochemical, Spectroscopic, and DFT Study of $C_{60}(CF_3)_n$ Frontier Orbitals ( $n = 2, 18$ ): 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
2	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
3	Variable-Temperature $^{19}F$ NMR and Theoretical Study of 1,9- and 1,7- $C_{60}F_{17}(CF_3)$ and $C_{59}H_4$ - and $C_{59}H_6F_{17}(CF_3)$ : Hindered $CF_3$ Rotation and Through-Space JFF Coupling. <i>Journal of the American Chemical Society</i> , 2005, 127, 11497-11504.	13.7	53
4	Halogenated Benzene Cation Radicals. <i>Chemistry - A European Journal</i> , 2012, 18, 6644-6654.	3.3	47
5	Comparison of the Coordination 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 $Na_2(B_{12}F_{12})$ , $Na_2(B_{12}Cl_{12})$ , $Na_2(B_{12}H_{12}O)_4$ , $Na_2(B_{12}F_{12})$ , $Na_2(B_{12}Cl_{12})$ , and $Na_2(H_{12}O)_6$ . <i>Inorganic Chemistry</i> , 2017, 56, 4072-4083.	4.0	34
6	Exceptional Structural Compliance of the $B_{12}F_{12}^{2-}$ Superweak Anion. <i>Inorganic Chemistry</i> , 2017, 56, 4072-4083.	4.0	26
7	Structures of $M_2(SO_2)_6B_{12}F_{12}$ ( $M = Ag$ or $K$ ) and $Ag_2(H_2O)_4B_{12}F_{12}$ : Comparison of the Coordination of $SO_2$ versus $H_2O$ and of $B_{12}F_{12}^{2-}$ versus Other Weakly Coordinating Anions to Metal Ions in the Solid State. <i>Inorganic Chemistry</i> , 2016, 55, 12254-12262.	4.0	24
8	Jahn-Teller Effect in the $B_{12}F_{12}^{2-}$ 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
9	Chemical tailoring of fullerene acceptors: synthesis, structures and electrochemical properties of perfluoroisopropylfullerenes. <i>Chemical Communications</i> , 2011, 47, 875-877.	4.1	20
10	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
11	Trifluoromethylated Phenanthroline Ligands Reduce Excited-State Distortion in Homoleptic Copper(I) Complexes. <i>Inorganic Chemistry</i> , 2020, 59, 2781-2790.	4.0	18
12	Anion packing, hole filling, and HF solvation in $A_2(HF)_nB_{12}F_{12}$ and $K_2(HF)_6TiF_6$ ( $A=K, Cs$ ). <i>Journal of Fluorine Chemistry</i> , 2013, 145, 118-127.	1.7	16
13	Copper Causes Regiospecific Formation of $C_4F_8$ Containing Six-Membered Rings and their Defluorination/Aromatization to $C_4F_4$ Containing Rings in Triphenylene/ $1,4-C_4F_8I_2$ Reactions. <i>Chemistry - A European Journal</i> , 2016, 22, 874-877.	3.3	16
14	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
15	Latent Porosity in Alkali-Metal $M_2B_{12}F_{12}$ Salts: Structures and Rapid Room-Temperature Hydration/Dehydration Cycles. <i>Inorganic Chemistry</i> , 2017, 56, 12023-12041.	4.0	13
16	Experimental and DFT Studies of the Electron-Withdrawing Ability of Perfluoroalkyl (R <sub>F</sub> ) Groups: Electron Affinities of PAH(R <sub>F</sub> ) <sub>n</sub> Increase Significantly with Increasing R <sub>F</sub> Chain Length. <i>Chemistry - A European Journal</i> , 2018, 24, 1441-1447.	3.3	13
17	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
18	Manifestations of Weak $H\cdots F$ Hydrogen Bonding in $M(H_2O)_n(B_{12}F_{12})$ Salt Hydrates: Unusually Sharp Fourier Transform Infrared $\frac{1}{2}$ (OH) Bands and Latent Porosity ( $M = Mg, Ba, Co, Ni, Zn$ ). <i>Inorganic Chemistry</i> , 2018, 57, 14983-15000.	4.0	11

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19	Understanding Polyarene Trifluoromethylation with Hot CF <sub>3</sub> Radicals Using Corannulene. <i>European Journal of Organic Chemistry</i> , 2018, 2018, 4233-4245.	2.4	8
20	Structure of (SiEt <sub>3</sub> ) <sub>2</sub> (B <sub>12</sub> F <sub>12</sub> ). Another example of R <sub>3</sub> Si F E bridge bonding (E=B, Al, Si). <i>Journal of Fluorine Chemistry</i> , 2018, 212, 107-111.	1.7	8
21	PAH/PAH(CF <sub>3</sub> ) <sub>n</sub> 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
22	Steric and electronic effects of CF <sub>3</sub> conformations in acene(CF <sub>3</sub> ) derivatives. <i>Journal of Fluorine Chemistry</i> , 2019, 221, 1-7.	1.7	7
23	Variation of excited-state dynamics in trifluoromethyl functionalized C <sub>60</sub> fullerenes. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 22937-22945.	2.8	5
24	Hydrated Metal Ion Salts of the Weakly Coordinating Fluoroanions PF <sub>6</sub> <sup>-</sup> , TiF <sub>6</sub> <sup>2-</sup> , B <sub>12</sub> F <sub>12</sub> <sup>2-</sup> , Ga(C <sub>2</sub> F <sub>5</sub> ) <sub>4</sub> <sup>-</sup> , B(3,5-C <sub>6</sub> H <sub>3</sub> (CF <sub>3</sub> ) <sub>2</sub> ) <sub>4</sub> <sup>-</sup> , and Al(OC(CF <sub>3</sub> ) <sub>3</sub> ) <sub>4</sub> <sup>-</sup> . In Search of the Weakest HOH...F Hydrogen Bonds. <i>Inorganic Chemistry</i> , 2019, 58, 14900-14911.	4.0	5
25	Structures of 1,1,3,3-tetra(2-methyl-2-nonyl)ferrocenium(1+) salts of CB <sub>11</sub> H <sub>12</sub> <sup>-</sup> , B <sub>12</sub> F <sub>12</sub> <sup>-</sup> , BF <sub>4</sub> <sup>-</sup> , PF <sub>6</sub> <sup>-</sup> , and ClO <sub>3</sub> <sup>-</sup> . <i>Journal of Organometallic Chemistry</i> , 2018, 865, 128-137.	1.8	4
26	Room-Temperature FTIR Spectra of the Cyclic S <sub>4</sub> (H <sub>2</sub> O) <sub>4</sub> Cluster in Crystalline Li <sub>2</sub> (H <sub>2</sub> O) <sub>4</sub> (B <sub>12</sub> F <sub>12</sub> ): Observation of B and E <sub>1/2</sub> (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
27	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
28	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