

HÃ©lÃ¨ne P A Mercier

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	The Osmium(VIII) Oxofluoro Cations OsO ₂ F ₃ ⁺ and F(cis-OsO ₂ F ₃) ₂ ⁺ : Syntheses, Characterization by ¹⁹ F NMR Spectroscopy and Raman Spectroscopy, X-ray Crystal Structure of F(cis-OsO ₂ F ₃) ₂ ⁺ Sb ₂ F ₁₁ ⁻ , and Density Functional Theory Calculations of OsO ₂ F ₃ ⁺ , ReO ₂ F ₃ , and F(cis-OsO ₂ F ₃) ₂ ⁺ . <i>Inorganic Chemistry</i> , 1996, 35, 4310-4322.	4.0	61
2	The Syntheses of Carbocations by Use of the Noble-Gas Oxidant, [XeOTeF ₅][Sb(OTeF ₅) ₆]: The Syntheses and Characterization of the CX ₃ ⁺ (X = Cl, Br, OTeF ₅) and CBr(OTeF ₅) ₂ ⁺ Cations and Theoretical Studies of CX ₃ ⁺ and BX ₃ (X = F, Cl, Br, I, OTeF ₅). <i>Journal of the American Chemical Society</i> , 2004, 126, 5533-5548.	13.7	49
3	X-ray Crystal Structures of [XeF][MF ₆] (M = As, Sb, Bi), [XeF][M ₂ F ₁₁] (M = Sb, Bi) and Estimated Thermochemical Data and Predicted Stabilities for Noble-Gas Fluorocation Salts using Volume-Based Thermodynamics. <i>Inorganic Chemistry</i> , 2010, 49, 8504-8523.	4.0	48
4	Noble-Gas Difluoride Complexes of Mercury(II): The Syntheses and Structures of Hg(OTeF ₅) ₂ ·1.5NgF ₂ (Ng = Xe, Kr) and Hg(OTeF ₅) ₂ . <i>Journal of the American Chemical Society</i> , 2014, 136, 3888-3903.	13.7	46
5	Ditin(IV) Chalcogenide Anions: A ⁷ /Se, I ¹⁹ Sn, and I ²⁵ Te Solution NMR Study of the Sn ₂ Ch ₆ and Sn ₂ Ch ₇ (Ch = Se, Te) Anions, X-ray Crystal Structures and Raman Spectra of K ⁺ (N(CH ₃) ₄) ₃ Sn ₂ Se ₆ ⁴⁻ , (enH ⁺) ₂ (2,2,2-crypt-K ⁺) ₂ Sn ₂ Se ₆ ⁴⁻ , and (K ⁺) ₂ (2,2,2-crypt-K ⁺) ₂ Sn ₂ Te ₆ ⁴⁻ , and X-ray Crystal Structures of K ⁺ (2,2,2-crypt-K ⁺) ₂ HOSnTe ₃ ³⁻ and K ⁺ (2,2,2-crypt-K ⁺) ₂ HOSnTe ₃ ³⁻ . <i>Inorganic Chemistry</i> , 1996, 35, 44.	4.0	44
6	[FXe(OTeF ₅) ₂][AsF ₆] and [FXe(OTeF ₅) ₂][Sb(OTeF ₅) ₆]. <i>Inorganic Chemistry</i> , 1996, 35, 39.	13.7	39
7	of [F ₃ Xe-FH][Sb ₂ F ₁₁] and [H ₅ F ₄][Sb ₆]. <i>Journal of the American Chemical Society</i> , 2013, 135, 5089-5104. A Rare Example of a Krypton Difluoride Coordination Compound: [BrOF ₂][AsF ₆] ₂ ·2KrF ₂ . <i>Journal of the American Chemical Society</i> , 2010, 132, 3533-3542.	13.7	37
8	Lewis-Acid Properties of Technetium(VII) Dioxide Trifluoride, TcO ₂ F ₃ : Characterization by ¹⁹ F, ¹⁷⁰ Yb, and ⁹⁹ Tc NMR Spectroscopy and Raman Spectroscopy, Density Functional Theory Calculations of TcO ₂ F ₃ , M+TcO ₂ F ₄ (M = Li, Cs, N(CH ₃) ₄), and TcO ₂ F ₃ ·CH ₃ CN, and X-ray Crystal Structure of Li+TcO ₂ F ₄ . <i>Inorganic Chemistry</i> , 1998, 37, 340-353.	4.0	32
9	Synthesis, Structural Characterization, and Computational Study of the Strong Oxidant Salt [XeOTeF ₅][Sb(OTeF ₅) ₆] ₂ ·SO ₂ ClF. <i>Inorganic Chemistry</i> , 2005, 44, 49-60.	4.0	31
10	XeF ₂ Coordination to a Halogen Center; Raman Spectra (ν = 1, 2) and X-ray Crystal Structures (ν = 2) of [BrOF ₂][AsF ₆] ₂ ·XeF ₂ and [XOF ₂][AsF ₆] (X = Cl, Br). <i>Inorganic Chemistry</i> , 2010, 49, 6673-6689.	4.0	29
11	A Stable Crown Ether Complex with a Noble Gas Compound. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 12448-12452.	13.8	25
12	Syntheses, Raman Spectra, and X-ray Crystal Structures of [XeF ₅][¹⁴ F(OsO ₃ F ₂) ₂] and [M][OsO ₃ F ₃] (M = XeF ₅ ⁺ , Tl ⁺ , etc.). <i>Journal of the American Chemical Society</i> , 2010, 132, 292-297.	4.0	22
13	Syntheses and Structures of Xenon Trioxide Alkyl nitrile Adducts. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 13780-13783.	13.8	21
14	Mixed Noble Gas Compounds of Krypton(II) and Xenon(VI); [F ₅ Xe(FKrF)AsF ₆] and [F ₅ Xe(FKrF) ₂ AsF ₆]. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 8149-8156.	13.8	20
15	Syntheses and Structures of F ₆ XeNCCH ₃ and F ₆ Xe(NCCH ₃) ₂ . <i>Angewandte Chemie - International Edition</i> , 2015, 54, 14169-14173.	13.8	19
16	Syntheses, Structures, and Bonding of NgF ₂ ·CrOF ₄ , NgF ₂ ·2CrOF ₄ (Ng = Kr, Xe), and (CrOF ₄) ₂ . <i>Chemistry - A European Journal</i> , 2019, 25, 12105-12119.	3.3	18
17	[XeOXeOXe] ₂ ⁺ , the Missing Oxide of Xenon(II); Synthesis, Raman Spectrum, and X-ray Crystal Structure of [XeOXeOXe][¹⁴ F(ReO ₂ F ₃) ₂] ₂ . <i>Journal of the American Chemical Society</i> , 2015, 137, 13398-13413.	13.7	17
18	Nature of the Xe(VI) N Bonds in F ₆ XeNCCH ₃ and F ₆ Xe(NCCH ₃) ₂ and the Stereochemical Activity of Their Xenon Valence Electron Lone Pairs. <i>Chemistry - A European Journal</i> , 2016, 22, 4833-4842.	3.3	16

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19	Coordination of KrF ₂ to a Naked Metal Cation, Mg ²⁺ . Angewandte Chemie - International Edition, 2017, 56, 6251-6254.	13.8	16
20	Groupä€œOxyfluoroä€œAnion Salts of [XeF ₅] ⁺ and [Xe ₂ F ₁₁] ⁺ : Syntheses and Structures of [XeF ₅][M ₂ O ₂ F ₉] (M=Mo, W), [Xe ₂ F ₁₁][Mä€²OF ₅] (Mä€²=Cr, Mo, W), [XeF ₅][HF ₂] ⁺ ä€œCrOF ₄ , and [XeF ₅][WOF ₅] ⁺ ä€œXeOF ₄ . Chemistry - A European Journal, 2020, 26, 15815-15819.	3.3	15
21	[XeF ₅] ⁺ and [Xe ₂ F ₁₁] ⁺ Salts of the [Cr ^V VOF ₅] ²⁺ , [Cr ^V VOF ₅] ²⁺ , [Cr ^V VOF ₅] ²⁺ , and [Cr ^{IV} F ₆] ²⁺ Anions. Chemistry - A European Journal, 2019, 25, 15815-15819.	3.3	11
22	Synthesis, Characterization, and Computational Study of WSF ₄ Ä•NC ₅ H ₅ . Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2012, 638, 520-525.	1.2	10
23	Synthesis and Lewis Acid Properties of (ReO ₃) ^z and the X-ray Crystal Structures of (HF) ₂ ReO ₃ Ä•HF and [N(CH ₃) ₄] ₂ -[ReO ₃ (¹ / ₄ -F)] ₃ (¹ / ₄ -O)Ä•CH ₃ CN. Inorganic Chemistry, 2013, 52, 6806-6819.	4.0	10
24	A Stable Crown Ether Complex with a Nobleä€œGas Compound. Angewandte Chemie, 2018, 130, 12628-12632.	2.0	10
25	Syntheses and Characterizations of the Mixed Nobleä€œGas Compounds, [FKr II FXe II F][AsF ₆] ⁺ ä€œO.5ä€œKr II F ₂ ä€œ2ä€œHF, ([Kr II F ₃][AsF ₆]) ₂ ä€œXe IV F ₄ , and Xe IV F ₄ ä€œKr II. Angewandte Chemie - International Edition, 2021, 106, 23678-23686.	2.0	10
26	Syntheses and Structures of F ₆ XeNCCH ₃ and F ₆ Xe(NCCH ₃) ₂ . Angewandte Chemie, 2015, 127, 14375-14379.	2.0	8
27	Coordination of KrF ₂ to a Naked Metal Cation, Mg ²⁺ . Angewandte Chemie, 2017, 129, 6347-6350.	2.0	7
28	Xenon Trioxide Adducts of <i>o</i> -Donor Ligands; [(CH ₃) ₂ CO] ₃ XeO ₃ , [(CH ₃) ₂ SO] ₃ (XeO ₃) ₂ , (C ₅ H ₅ NO) ₃ (XeO ₃) ₂ , and [(C ₆ H ₅) ₃ PO] ₂ XeO ₃ . Chemistry - A European Journal, 2019, 25, 12357-12366.	3.3	7
29	Syntheses and Structures of Xenon Trioxide Alkyl nitrile Adducts. Angewandte Chemie, 2016, 128, 13984-13987.	2.0	5
30	Nobleä€œGas Difluoride Complexes of MOF ₄ (M = Mo, W); Syntheses, Structures and Bonding of NgF ₂ Ä•MOF ₄ and XeF ₂ Ä•2MOF ₄ (Ng = Kr, Xe). Chemistry - A European Journal, 2021, , .	3.3	4
31	Thiazyl Trifluoride (NSF ₃) Adducts and Imidodifluorosulfate (F ₂ OSN-) Derivatives of Hg(OTeF ₅) ₂ . Inorganic Chemistry, 2015, 54, 9989-10000.	4.0	2
32	Mixed Nobleä€œGas Compounds of Krypton(II) and Xenon(VI); [F ₅ Xe(FKrF)AsF ₆] and [F ₅ Xe(FKrF) ₂ AsF ₆]. Angewandte Chemie, 2021, 133, 8230-8237.	2.0	2
33	Syntheses and Characterizations of the Mixed Nobleä€œGas Compounds, [FKr II FXe II F][AsF ₆] ⁺ ä€œO.5ä€œKr II F ₂ ä€œ2ä€œHF, ([Kr II F ₃][AsF ₆]) ₂ ä€œXe IV F ₄ , and Xe IV F ₄ ä€œKr II. Angewandte Chemie, 2021, 133, 23871.	2.0	2
34	Syntheses of the CF ₂ ⁺ (Y = Cl, Br) and CX ₃ ⁺ (X = Cl, Br, OTeF ₅) Cations Employing the Noble-Gas Oxidant, XeOTeF ₅ +Sb(OTeF ₅) ₆ -. ACS Symposium Series, 2007, , 394-427.	0.5	1
35	InnenÄ•cktitelbild: Syntheses and Characterizations of the Mixed Nobleä€œGas Compounds, [FKr ^{II} FXe ^{II} F][AsF ₆] ⁺ ä€œO.5ä€œKr ^{II} F ₂ ä€œ2ä€œHF, ([Kr ^{II} F ₃][AsF ₆]) ₂ ä€œXe ^{IV} F ₄ , and Xe ^{IV} F ₄ ä€œKr ^{II} . Angewandte Chemie, 2021, 133, 24115-24115.	0	0