

# HÃ©lÃ¨ne P A Mercier

## List of Publications by Year in descending order

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35  
papers

694  
citations

516710

16  
h-index

552781

26  
g-index

36  
all docs

36  
docs citations

36  
times ranked

321  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mixed Noble Gas Compounds of Krypton(II) and Xenon(VI); [F <sub>5</sub> Xe(FKrF)AsF <sub>6</sub> ] and [F <sub>5</sub> Xe(FKrF) <sub>2</sub> AsF <sub>6</sub> ]. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 8149-8156.	13.8	20
2	Mixed Noble Gas Compounds of Krypton(II) and Xenon(VI); [F <sub>5</sub> Xe(FKrF)AsF <sub>6</sub> ] and [F <sub>5</sub> Xe(FKrF) <sub>2</sub> AsF <sub>6</sub> ]. <i>Angewandte Chemie</i> , 2021, 133, 8230-8237.	2.0	2
3	InnenA/4ckrtitelbild: Syntheses and Characterizations of the Mixed Noble Gas Compounds, [FKr <sup>II</sup> FXe <sup>II</sup> F][AsF <sub>6</sub> ] $\cdot$ 0.5Kr <sup>II</sup> F <sub>2</sub> $\cdot$ 2HF, ([Kr <sup>II</sup> F <sub>3</sub> ][AsF <sub>6</sub> ]) <sub>2</sub> $\cdot$ Xe <sup>IV</sup> F <sub>4</sub> , and Xe <sup>IV</sup> F <sub>4</sub> $\cdot$ Kr <sup>II</sup> F <sub>2</sub> (Angew. Chem. 44/2021). <i>Angewandte Chemie</i> , 2021, 133, 24115-24115.		0
4	Syntheses and Characterizations of the Mixed Noble Gas Compounds, [FKr <sup>II</sup> FXe <sup>II</sup> F][AsF <sub>6</sub> ] $\cdot$ 0.5Kr <sup>II</sup> F <sub>2</sub> $\cdot$ 2HF, ([Kr <sup>II</sup> F <sub>3</sub> ][AsF <sub>6</sub> ]) <sub>2</sub> $\cdot$ Xe <sup>IV</sup> F <sub>4</sub> , and Xe <sup>IV</sup> F <sub>4</sub> $\cdot$ Kr <sup>II</sup> F <sub>2</sub> . <i>Angewandte Chemie</i> , 2021, 133, 23871.	2.0	2
5	Syntheses and Characterizations of the Mixed Noble Gas Compounds, [FKr <sup>II</sup> FXe <sup>II</sup> F][AsF <sub>6</sub> ] $\cdot$ 0.5Kr <sup>II</sup> F <sub>2</sub> $\cdot$ 2HF, ([Kr <sup>II</sup> F <sub>3</sub> ][AsF <sub>6</sub> ]) <sub>2</sub> $\cdot$ Xe <sup>IV</sup> F <sub>4</sub> , and Xe <sup>IV</sup> F <sub>4</sub> $\cdot$ Kr <sup>II</sup> F <sub>2</sub> . <i>Angewandte Chemie - International Edition</i> , 2021, 60, 23678-23686.	2.0	10
6	Noble Gas Difluoride Complexes of MOF <sub>4</sub> (M = Mo, W); Syntheses, Structures and Bonding of NgF <sub>2</sub> $\cdot$ MOF <sub>4</sub> and XeF <sub>2</sub> $\cdot$ 2MOF <sub>4</sub> (Ng = Kr, Xe). <i>Chemistry - A European Journal</i> , 2021, , .	3.3	4
7	[Xe <sub>2</sub> F <sub>11</sub> ] <sup>+</sup> : Syntheses and Structures of [XeF <sub>5</sub> ][M <sub>2</sub> O <sub>2</sub> F <sub>9</sub> ] (M=Mo, W), [Xe <sub>2</sub> F <sub>11</sub> ][M <sup>2+</sup> O <sub>5</sub> ] (M <sup>2+</sup> =Cr, Mo, W), [XeF <sub>5</sub> ][HF <sub>2</sub> ] $\cdot$ CrOF <sub>4</sub> , and Chromium Oxide Tetrafluoride and Its Reactions with Xenon Hexafluoride; the [XeF <sub>5</sub> ] <sup>+</sup> and [Xe <sub>2</sub> F <sub>11</sub> ] <sup>+</sup> Salts of the [Cr <sup>VI</sup> OF <sub>5</sub> ] <sup>-</sup> , [Cr <sup>V</sup> OF <sub>5</sub> ] <sup>2-</sup> , [Cr <sup>V</sup> O <sub>2</sub> F <sub>8</sub> ] <sup>2-</sup> , and [Cr <sup>IV</sup> F <sub>6</sub> ] <sup>2-</sup> Anions. <i>Chemistry - A European Journal</i> , 2019, 25, 15815-15829.	3.3	15
8	[Xe <sub>2</sub> F <sub>11</sub> ] <sup>+</sup> and [Xe <sub>2</sub> F <sub>11</sub> ] <sup>+</sup> Salts of the [Cr <sup>VI</sup> OF <sub>5</sub> ] <sup>-</sup> , [Cr <sup>V</sup> OF <sub>5</sub> ] <sup>2-</sup> , [Cr <sup>V</sup> O <sub>2</sub> F <sub>8</sub> ] <sup>2-</sup> , and [Cr <sup>IV</sup> F <sub>6</sub> ] <sup>2-</sup> Anions. <i>Chemistry - A European Journal</i> , 2019, 25, 15815-15829.	3.3	11
9	Syntheses, Structures, and Bonding of NgF <sub>2</sub> $\cdot$ CrOF <sub>4</sub> , NgF <sub>2</sub> $\cdot$ 2CrOF <sub>4</sub> (Ng=Kr, Xe), and (CrOF <sub>4</sub> ) <sub>2</sub> . <i>Chemistry - A European Journal</i> , 2019, 25, 12105-12119.	3.3	18
10	Xenon Trioxide Adducts of CrO <sub>2</sub> Donor Ligands; [(CH <sub>3</sub> ) <sub>2</sub> CO] <sub>3</sub> XeO <sub>3</sub> , [(CH <sub>3</sub> ) <sub>2</sub> SO] <sub>3</sub> (XeO <sub>3</sub> ) <sub>2</sub> , (C <sub>5</sub> H <sub>5</sub> NO) <sub>3</sub> (XeO <sub>3</sub> ) <sub>2</sub> , and [(C <sub>5</sub> H <sub>5</sub> ) <sub>3</sub> PO] <sub>2</sub> XeO <sub>3</sub> . <i>Chemistry - A European Journal</i> , 2019, 25, 12357-12366.	3.3	7
11	A Stable Crown Ether Complex with a Noble Gas Compound. <i>Angewandte Chemie</i> , 2018, 130, 12628-12632.	2.0	10
12	A Stable Crown Ether Complex with a Noble Gas Compound. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 12448-12452.	13.8	25
13	Coordination of KrF <sub>2</sub> to a Naked Metal Cation, Mg <sup>2+</sup> . <i>Angewandte Chemie - International Edition</i> , 2017, 56, 6251-6254.	13.8	16
14	Coordination of KrF <sub>2</sub> to a Naked Metal Cation, Mg <sup>2+</sup> . <i>Angewandte Chemie</i> , 2017, 129, 6347-6350.	2.0	7
15	Nature of the Xe <sup>VI</sup> =N Bonds in F <sub>6</sub> XeNCCH <sub>3</sub> and F <sub>6</sub> Xe(NCCH <sub>3</sub> ) <sub>2</sub> and the Stereochemical Activity of Their Xenon Valence Electron Lone Pairs. <i>Chemistry - A European Journal</i> , 2016, 22, 4833-4842.	3.3	16
16	Syntheses and Structures of Xenon Trioxide Alkyl nitrile Adducts. <i>Angewandte Chemie</i> , 2016, 128, 13984-13987.	2.0	5
17	Syntheses and Structures of Xenon Trioxide Alkyl nitrile Adducts. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 13780-13783.	13.8	21
18	Syntheses and Structures of F <sub>6</sub> XeNCCH <sub>3</sub> and F <sub>6</sub> Xe(NCCH <sub>3</sub> ) <sub>2</sub> . <i>Angewandte Chemie - International Edition</i> , 2015, 54, 14169-14173.	13.8	19

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19	Syntheses and Structures of F <sub>6</sub> XeNCCH <sub>3</sub> and F <sub>6</sub> Xe(NCCH <sub>3</sub> ) <sub>2</sub> . <i>Angewandte Chemie</i> , 2015, 127, 14375-14379.	2.0	8
20	Thiazyl Trifluoride (NSF <sub>3</sub> ) Adducts and Imidodifluorosulfate (F <sub>2</sub> OSN <sup>-</sup> ) Derivatives of Hg(OTeF <sub>5</sub> ) <sub>2</sub> . <i>Inorganic Chemistry</i> , 2015, 54, 9989-10000.	4.0	2
21	[XeOXeOXe] <sub>2</sub> <sup>+</sup> , the Missing Oxide of Xenon(II); Synthesis, Raman Spectrum, and X-ray Crystal Structure of [XeOXeOXe][ <sup>1/4</sup> -F(ReO <sub>2</sub> F <sub>3</sub> ) <sub>2</sub> ] <sub>2</sub> . <i>Journal of the American Chemical Society</i> , 2015, 137, 13398-13413.	13.7	17
22	Noble-Gas Difluoride Complexes of Mercury(II): The Syntheses and Structures of Hg(OTeF <sub>5</sub> ) <sub>2</sub> ·1.5NgF <sub>2</sub> (Ng = Xe, Kr) and Hg(OTeF <sub>5</sub> ) <sub>2</sub> . <i>Journal of the American Chemical Society</i> , 2014, 136, 3888-3903.	13.7	46
23	[FXe <sup>II</sup> ](OXe <sup>IV</sup> F <sub>2</sub> ) <sub>2</sub> and [AsF <sub>6</sub> ] <sup>-</sup> Tj ETQq1 1 0.784314	13.7	39
24	Synthesis and Lewis Acid Properties of (ReO <sub>3</sub> F) <sup>z</sup> and the X-ray Crystal Structures of (HF) <sub>2</sub> ReO <sub>3</sub> F·HF and [N(CH <sub>3</sub> ) <sub>4</sub> ] <sub>2</sub> -[ReO <sub>3</sub> ( <sup>1/4</sup> -F)] <sub>3</sub> ( <sup>1/4</sup> -O)]·CH <sub>3</sub> CN. <i>Inorganic Chemistry</i> , 2013, 52, 6806-6819.	4.0	10
25	Synthesis, Characterization, and Computational Study of WSF <sub>4</sub> ·NC <sub>5</sub> H <sub>5</sub> . <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2012, 638, 520-525.	1.2	10
26	XeF <sub>2</sub> Coordination to a Halogen Center; Raman Spectra ( <i>n</i> = 1, 2) and X-ray Crystal Structures ( <i>n</i> = 2) of [BrOF <sub>2</sub> ][AsF <sub>6</sub> ] <sup>-</sup> ·XeF <sub>2</sub> and [XOF <sub>2</sub> ][AsF <sub>6</sub> ] (X = Cl, Br). <i>Inorganic Chemistry</i> , 2010, 49, 6673-6689.	4.0	29
27	X-ray Crystal Structures of [XeF][MF <sub>6</sub> ] (M = As, Sb, Bi), [XeF][M <sub>2</sub> F <sub>11</sub> ] (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
28	A Rare Example of a Krypton Difluoride Coordination Compound: [BrOF <sub>2</sub> ][AsF <sub>6</sub> ] <sup>-</sup> ·2KrF <sub>2</sub> . <i>Journal of the American Chemical Society</i> , 2010, 132, 3533-3542.	13.7	37
29	Syntheses, Raman Spectra, and X-ray Crystal Structures of [XeF <sub>5</sub> ][ <sup>1/4</sup> -F(OsO <sub>3</sub> F <sub>2</sub> ) <sub>2</sub> ] <sub>2</sub> and [M][OsO <sub>3</sub> F <sub>3</sub> ] (M = XeF <sub>5</sub> <sup>+</sup> , Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 332 Td	4.0	22
30	Syntheses of the CFY <sub>2</sub> <sup>+</sup> (Y = Cl, Br) and CX <sub>3</sub> <sup>+</sup> (X = Cl, Br, OTeF <sub>5</sub> ) Cations Employing the Noble-Gas Oxidant, XeOTeF <sub>5</sub> +Sb(OTeF <sub>5</sub> ) <sub>6</sub> <sup>-</sup> . <i>ACS Symposium Series</i> , 2007, , 394-427.	0.5	1
31	Synthesis, Structural Characterization, and Computational Study of the Strong Oxidant Salt [XeOTeF <sub>5</sub> ][Sb(OTeF <sub>5</sub> ) <sub>6</sub> ] <sup>-</sup> ·SO <sub>2</sub> ClF. <i>Inorganic Chemistry</i> , 2005, 44, 49-60.	4.0	31
32	The Syntheses of Carbocations by Use of the Noble-Gas Oxidant, [XeOTeF <sub>5</sub> ][Sb(OTeF <sub>5</sub> ) <sub>6</sub> ] <sup>-</sup> : The Syntheses and Characterization of the CX <sub>3</sub> <sup>+</sup> (X = Cl, Br, OTeF <sub>5</sub> ) and CBr(OTeF <sub>5</sub> ) <sub>2</sub> <sup>+</sup> Cations and Theoretical Studies of CX <sub>3</sub> <sup>+</sup> and BX <sub>3</sub> (X = F, Cl, Br, I, OTeF <sub>5</sub> ). <i>Journal of the American Chemical Society</i> , 2004, 126, 5533-5548.	13.7	49
33	Lewis-Acid Properties of Technetium(VII) Dioxide Trifluoride, TcO <sub>2</sub> F <sub>3</sub> : Characterization by <sup>19</sup> F, <sup>17</sup> O, and <sup>99</sup> Tc NMR Spectroscopy and Raman Spectroscopy, Density Functional Theory Calculations of TcO <sub>2</sub> F <sub>3</sub> , M·TcO <sub>2</sub> F <sub>4</sub> [M = Li, Cs, N(CH <sub>3</sub> ) <sub>4</sub> ], and TcO <sub>2</sub> F <sub>3</sub> ·CH <sub>3</sub> CN, and X-ray Crystal Structure of Li·TcO <sub>2</sub> F <sub>4</sub> . <i>Inorganic Chemistry</i> , 1998, 37, 340-353.	4.0	32
34	The Osmium(VIII) Oxofluoro Cations OsO <sub>2</sub> F <sub>3</sub> <sup>+</sup> and F(cis-OsO <sub>2</sub> F <sub>3</sub> ) <sub>2</sub> <sup>+</sup> : Syntheses, Characterization by <sup>19</sup> F NMR Spectroscopy and Raman Spectroscopy, X-ray Crystal Structure of F(cis-OsO <sub>2</sub> F <sub>3</sub> ) <sub>2</sub> <sup>+</sup> ·Sb <sub>2</sub> F <sub>11</sub> <sup>-</sup> , and Density Functional Theory Calculations of OsO <sub>2</sub> F <sub>3</sub> <sup>+</sup> , ReO <sub>2</sub> F <sub>3</sub> , and F(cis-OsO <sub>2</sub> F <sub>3</sub> ) <sub>2</sub> <sup>+</sup> . <i>Inorganic Chemistry</i> , 1996, 35, 4310-4322.	4.0	61
35	Ditin(IV) Chalcogenide Anions: A <sup>77</sup> Se, <sup>119</sup> Sn, and <sup>125</sup> Te Solution NMR Study of the Sn <sub>2</sub> Ch <sub>6</sub> <sup>4-</sup> and Sn <sub>2</sub> Ch <sub>7</sub> <sup>4-</sup> (Ch = Se, Te) Anions, X-ray Crystal Structures and Raman Spectra of K+(N(CH <sub>3</sub> ) <sub>4</sub> ) <sub>3</sub> Sn <sub>2</sub> Se <sub>6</sub> <sup>4-</sup> , (enH <sub>2</sub> ) <sub>2</sub> (2,2,2-crypt-K <sup>+</sup> ) <sub>2</sub> Sn <sub>2</sub> Se <sub>6</sub> <sup>4-</sup> , and (K <sup>+</sup> ) <sub>2</sub> (2,2,2-crypt-K <sup>+</sup> ) <sub>2</sub> Sn <sub>2</sub> Te <sub>6</sub> <sup>4-</sup> , and X-ray Crystal Structures of K+(2,2,2-crypt-K <sup>+</sup> ) <sub>2</sub> HOSnTe <sub>3</sub> <sup>3-</sup> and K+(2,2,2-crypt-K <sup>+</sup> ) <sub>2</sub> HOSnTe <sub>3</sub> <sup>3-</sup> ·en. <i>Inorganic Chemistry</i> , 1996, 35, 2945-2962.	4.0	44