

Atypical compounds of gases, which have been called â€

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Structure and properties of some copper(II) coordination compounds. Distortion isomerism of Cu(II) compounds. Pure and Applied Chemistry, 1974, 38, 279-301.	0.9	56
3	Greedy Ag(II) oxidizer: Can any inorganic ligand except fluoride endure its presence in ionic solids?. Journal of Fluorine Chemistry, 2008, 129, 82-90.	0.9	22
4	Xenon as a Mediator of Chemical Reactions? Case of Elusive Gold Monofluoride, AuF, and its Adduct with Xenon, XeAuF. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2008, 634, 1082-1086.	0.6	24
5	Noble gas-sulfur anions: A theoretical investigation of FNgS ⁻ (Ng=He, Ar, Kr, Xe). Chemical Physics Letters, 2008, 458, 48-53.	1.2	29
6	Predicted stability of the organo-xenon compound HXeCCH above the cryogenic range. Chemical Physics Letters, 2008, 460, 23-26.	1.2	34
7	Beyond fluorides: Extension of chemistry of divalent silver to oxo ligands. Inorganic Chemistry Communication, 2008, 11, 155-158.	1.8	10
8	Quantum Chemical Study of Trivalent Group 12 Fluorides. Inorganic Chemistry, 2008, 47, 3379-3383.	1.9	32
9	A Small Neutral Molecule with Two Noble-Gas Atoms: HXeOXeH. Journal of the American Chemical Society, 2008, 130, 6114-6118.	6.6	111
10	Generation of the organo-rare gas dications HCCRg ₂ ⁺ (Rg = Ar and Kr) in the reaction of acetylene dications with rare gases. Physical Chemistry Chemical Physics, 2008, 10, 7121.	1.3	42
11	Generation and orientation of organoxenon molecule HXeCCH in the gas phase. Journal of Chemical Physics, 2008, 128, 104313.	1.2	41
12	On the origin of the large electron correlation contribution to the hyperpolarizabilities of some diacetylene rare gas compounds. Journal of Chemical Physics, 2008, 129, 144308.	1.2	3
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14	Halogens and noble gases. Annual Reports on the Progress of Chemistry Section A, 2008, 104, 134.	0.8	6
15	Theoretical study of noble-gas containing metal halides. Journal of Chemical Physics, 2008, 129, 244310.	1.2	32
17	Silicon Compounds of Neon and Argon. Angewandte Chemie - International Edition, 2009, 48, 8788-8790.	7.2	49
18	Noble gas-selenium molecular species: A theoretical investigation of FNgSe ⁻ (Ng=He-Xe). Chemical Physics Letters, 2009, 470, 49-53.	1.2	18
19	Lifetimes of compounds made of noble-gas atoms with water. Chemical Physics Letters, 2009, 482, 30-33.	1.2	42
20	Can periodane accommodate neon?. Computational and Theoretical Chemistry, 2009, 900, 55-58.	1.5	2

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21	HArF in Solid Argon Revisited: Transition from Unstable to Stable Configuration. <i>Journal of Physical Chemistry A</i> , 2009, 113, 7654-7659.	1.1	24
22	Bonding of Xenon Hydrides. <i>Journal of Physical Chemistry A</i> , 2009, 113, 9700-9706.	1.1	39
23	Noble-Gas Hydrides: New Chemistry at Low Temperatures. <i>Accounts of Chemical Research</i> , 2009, 42, 183-191.	7.6	241
24	Matrix-Isolation and Ab Initio Study of the HKrCl $\cdot\cdot\cdot$ HCl Complex. <i>Journal of Physical Chemistry A</i> , 2009, 113, 10687-10692.	1.1	31
25	Gigantic Blue Shift of the H $\hat{\cdot}$ Ar Stretch Vibration in $\hat{\cdot}$ Hydrogen-Bonded C ₂ H ₂ $\cdot\cdot\cdot$ HArCCF Complex. <i>Journal of Physical Chemistry A</i> , 2009, 113, 5235-5239.	1.1	8
26	Donor Acceptor Complexes of Noble Gases. <i>Journal of the American Chemical Society</i> , 2009, 131, 3942-3949.	6.6	78
27	Theoretical study on the CH ₃ NgF species. <i>Structural Chemistry</i> , 2010, 21, 197-202.	1.0	15
28	Stabilization of HHeF by Complexation: Is it a Really Viable Strategy?. <i>Chemistry - A European Journal</i> , 2010, 16, 6257-6264.	1.7	7
29	High-level ab initio electronic structure calculations of RgBe ₂ O ₂ and RgBe ₂ O ₂ Rg (Rg=He, Ne, Ar, Kr) <i>Tj ETQqO O O rgBT /Overlock 10 Tf 5</i>	1.2	12
30	Pressure-induced bonding and compound formation in xenon $\hat{\cdot}$ hydrogen solids. <i>Nature Chemistry</i> , 2010, 2, 50-53.	6.6	127
31	Two- and three-dimensional extended solids and metallization of compressed XeF ₂ . <i>Nature Chemistry</i> , 2010, 2, 784-788.	6.6	40
32	13. Evolutionary Crystal Structure Prediction as a Method for the Discovery of Minerals and Materials. , 2010, , 271-298.		7
33	HY $\hat{\cdot}$ N ₂ and HXeY $\hat{\cdot}$ N ₂ complexes in solid xenon (Y=Cl and Br): Unexpected suppression of the complex formation for deposition at higher temperature. <i>Journal of Chemical Physics</i> , 2010, 133, 084309.	1.2	32
34	Theoretical Investigation on Structures and Stabilities of CuXenZ (n = 1 - 3, Z = - 1, 0, +1) Clusters. <i>Australian Journal of Chemistry</i> , 2010, 63, 474.	0.5	3
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36	Evolutionary Crystal Structure Prediction as a Method for the Discovery of Minerals and Materials. <i>Reviews in Mineralogy and Geochemistry</i> , 2010, 71, 271-298.	2.2	182
37	Theoretical Prediction of Stable Noble-Gas Anions XeNO ₂ ⁺ and XeNO ₃ ⁺ with very Short Xenon $\hat{\cdot}$ Nitrogen Bond Lengths. <i>Journal of Physical Chemistry A</i> , 2010, 114, 9359-9367.	1.1	22
38	F ₃ Ge $\hat{\cdot}$ Xe+: A Xenon $\hat{\cdot}$ Germanium Molecular Species. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 2006-2010.	2.1	39

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40	Model Core Potential and All-Electron Studies of Molecules Containing Rare Gas Atoms ⁺ . Journal of Physical Chemistry A, 2010, 114, 8786-8792.	1.1	11
41	Direct Information on Structure and Energetic Features of Cu+Xe Species Formed in MFI-Type Zeolite at Room Temperature. Journal of Physical Chemistry Letters, 2010, 1, 2642-2650.	2.1	20
42	Cationic Noble Gas Hydrides: A Theoretical Investigation of Dinuclear HNgFNgH ⁺ (Ng =) Tj ETQq1 1 0.784314 rgBJ /Over	1.1	29
43	Evolutionary Crystal Structure Prediction and Novel High-Pressure Phases. NATO Science for Peace and Security Series B: Physics and Biophysics, 2010, , 293-323.	0.2	0
44	High-Pressure Crystallography. NATO Science for Peace and Security Series B: Physics and Biophysics, 2010, , .	0.2	34
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50	Theoretical predictions of the spectroscopic parameters in noble-gas molecules: HXeOH and its complex with water. Physical Chemistry Chemical Physics, 2011, 13, 15455.	1.3	13
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53	Gas-Phase Ion Chemistry of the Noble Gases: Recent Advances and Future Perspectives. European Journal of Mass Spectrometry, 2011, 17, 423-463.	0.5	69
54	Freezing in Resonance Structures for Better Packing: XeF ₂ Becomes (XeF ⁺)(F ⁺) at Large Compression. Inorganic Chemistry, 2011, 50, 3832-3840.	1.9	55
55	Formation of Organoxenon Dications in the Reactions of Xenon with Dications Derived from Toluene. Chemistry - A European Journal, 2011, 17, 4012-4020.	1.7	22
56	Xenon ⁺ Nitrogen Chemistry: Gas ⁺ Phase Generation and Theoretical Investigation of the Xenon ⁺ Difluoronitrenium Ion F ₂ NiXe ⁺ . Chemistry - A European Journal, 2011, 17, 10682-10689.	1.7	40
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58	Influence of the structure of medium-sized aromatic precursors on the reactivity of their dications towards rare gases. <i>International Journal of Mass Spectrometry</i> , 2011, 299, 53-58.	0.7	14
59	RgBF ₂ ⁺ complexes (Rg = Ar, Kr, and Xe): The cations with large stabilities. <i>Journal of Chemical Physics</i> , 2011, 134, 154302.	1.2	17
60	Ion distribution measurements to probe target and plasma processes in electronegative magnetron discharges. II. Positive ions. <i>Journal of Applied Physics</i> , 2011, 109, 073303.	1.1	13
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62	Short review on the acetylene photochemistry in clusters: photofragment caging and reactivity. <i>Molecular Physics</i> , 2012, 110, 2817-2828.	0.8	6
63	A metastable He-O bond inside a ferroelectric molecular cavity: (HeO)(LiF) ₂ . <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 14860.	1.3	52
64	<i>Chemical Bond.</i> , 2012, , 51-157.		2
65	Formation of argon-boron bonds in the reactions of BF ₂ ⁺ cations with neutral argon. <i>International Journal of Mass Spectrometry</i> , 2012, 323-324, 2-7.	0.7	7
66	Intrinsic lifetimes and kinetic stability in media of noble-gas hydrides. <i>Chemical Physics Letters</i> , 2012, 545, 1-8.	1.2	23
67	A comparative computational study of FKrCCH ₂ Y, FCCKrH ₂ Y, and FCCH ₂ Y complexes (Y = BF, CO, N ₂). <i>Journal of Chemical Physics</i> , 2012, 136, 074314.	1.2	2
68	Rare gas bond property of Rg-Be ₂ O ₂ and Rg-Be ₂ O ₂ -Rg (Rg=He, Ne, Ar, Kr and Xe) as a comparison with Rg-BeO. <i>Computational and Theoretical Chemistry</i> , 2012, 991, 48-55.	1.1	13
69	Ab initio prediction of vibrational states of the HeCuF helium-containing complex. <i>Chemical Physics Letters</i> , 2012, 539-540, 15-18.	1.2	4
71	Theoretical investigation of the noble gas molecular anions XAuNgX ⁻ and H ₂ AuNgX ⁻ (X=Ar, Cl, Br; Y=O, N ₂ , CO, BF). <i>Journal of Chemical Physics</i> , 2012, 136, 074314.	1.6	10
72	Halogenated Xenon Cyanides ClXeCN, ClXeNC, and BrXeCN. <i>Inorganic Chemistry</i> , 2012, 51, 4398-4402.	1.9	58
73	<i>Introduction to Structural Chemistry.</i> , 2012, , .		46
74	Exploring new ¹²⁹ Xe chemical shift ranges in HXeY compounds: hydrogen more relativistic than xenon. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 10944.	1.3	32
75	Structure and stability of organic molecules containing heavy rare gas atoms. <i>Theoretical Chemistry Accounts</i> , 2013, 132, 1.	0.5	13
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78	Noble-Gas Chemistry. , 2013, , 755-822.		30
79	Infrared Spectra of NgBeS (Ng = Ne, Ar, Kr, Xe) and BeS ₂ in Noble-Gas Matrices. <i>Journal of Physical Chemistry A</i> , 2013, 117, 1508-1513.	1.1	56
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82	Stability of xenon oxides at high pressures. <i>Nature Chemistry</i> , 2013, 5, 61-65.	6.6	118
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87	On the vibrational linear and nonlinear optical properties of compounds involving noble gas atoms: HXeOXeH, HXeOXeF, and FXeOXeF. <i>Journal of Computational Chemistry</i> , 2013, 34, 1446-1455.	1.5	6
88	Bartlett's discovery of noble gas fluorides, a milestone in chemical history. <i>Chemical Communications</i> , 2013, 49, 4588.	2.2	28
89	Ab Initio study of Helium ⁿ small carbon cage systems. <i>International Journal of Quantum Chemistry</i> , 2013, 113, 35-38.	1.0	5
90	¹²⁹ Xe nuclear resonance scattering on solid Xe and ¹²⁹ Xe clathrate hydrate. <i>Europhysics Letters</i> , 2013, 103, 36001.	0.7	14
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94	Ab Initio Study on the Stability of Ng _n Be ₂ N ₂ , Ng _n Be ₃ N ₂ and NgBeSiN ₂ Clusters. <i>ChemPhysChem</i> , 2014, 15, 2618-2625.	1.0	35

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96	Exotic noble gas carbene-like ions. <i>Chemical Physics Letters</i> , 2014, 615, 16-20.	1.2	4
97	The effect of boron nitride nanotubes size on the $\langle \text{HArF} \rangle$ interaction by $\langle \text{NBO} \rangle$ and $\langle \text{AIM} \rangle$ analysis. <i>International Journal of Quantum Chemistry</i> , 2014, 114, 1692-1696.	1.0	4
98	Reactions of xenon with iron and nickel are predicted in the Earth's inner core. <i>Nature Chemistry</i> , 2014, 6, 644-648.	6.6	369
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101	Predicted organic compounds derived from rare gas atoms and formic acid. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 196-203.	1.3	5
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103	Vibrational Shifts of HXeCl in Matrix Environments. <i>Journal of Physical Chemistry A</i> , 2014, 118, 380-387.	1.1	9
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105	Stability of Noble-Gas-Bound SiH_3^+ Clusters. <i>ChemPhysChem</i> , 2014, 15, 3554-3564.	1.0	36
106	Confinement induced binding of noble gas atoms. <i>Journal of Chemical Physics</i> , 2014, 140, 164306.	1.2	61
107	Chemically-bound xenon in fibrous silica. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 11658-11661.	1.3	13
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109	Bridging Xe atom as electron-donor: The potential bond type of M-Ng-M in organometallic noble gas complexes. <i>Computational and Theoretical Chemistry</i> , 2014, 1045, 29-34.	1.1	2
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115	Stable Lithium Argon compounds under high pressure. <i>Scientific Reports</i> , 2015, 5, 16675.	1.6	34
117	History and Current Status of Noble Gas Mass Spectrometry to Develop New Ideas Based on Study of the Past. <i>Journal of the Mass Spectrometry Society of Japan</i> , 2015, 63, 1-30.	0.0	3
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120	Theoretical investigation of HNgNH ₃ ⁺ ions (Ng = He, Ne, Ar, Kr, and Xe). <i>Journal of Chemical Physics</i> , 2015, 142, 144301.	1.2	6
121	First-Principles Energetics of Some Nonmetallic Impurity Atoms in Plutonium Dioxide. <i>Journal of Physical Chemistry C</i> , 2015, 119, 14879-14889.	1.5	24
122	Noble Gas Inserted Protonated Silicon Monoxide Cations: HNgOSi ⁺ (Ng = He, Ne, Ar, Kr,) <i>Tj ETQqO O 0,rgBT /Overlock 10 T</i>	1.1	14
123	The Chemistry of Xenon(IV). <i>Chemical Reviews</i> , 2015, 115, 1255-1295.	23.0	62
124	Surface Dynamics of Xe(111): An Ambiguous Nobility. <i>Journal of Physical Chemistry C</i> , 2015, 119, 14579-14584.	1.5	7
125	Noble Gas Monoxides Stabilized in a Dipolar Cavity: A Theoretical Study. <i>Journal of Physical Chemistry A</i> , 2015, 119, 2483-2489.	1.1	40
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127	Experimental Evidence of Chemical Components in the Bonding of Helium and Neon with Neutral Molecules. <i>Chemistry - A European Journal</i> , 2015, 21, 6234-6240.	1.7	53
128	Structure and stability of solid Xe(H ₂) _n . <i>Journal of Chemical Physics</i> , 2015, 142, 104503.	1.2	20
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130	A coupled cluster study on the noble gas binding ability of metal cyanides versus metal halides (metal = Cu, Ag, Au). <i>Journal of Computational Chemistry</i> , 2015, 36, 2168-2176.	1.5	41
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133	Inner-shell photoionization and core-hole decay of Xe and XeF ₂ . <i>Journal of Chemical Physics</i> , 2015, 142, 224302.	1.2	15
134	The Nature of Bonding between Argon and Mixed Gold-Silver Trimers. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 10675-10680.	7.2	58
135	Comparison of xenon and radon metal halides. <i>Chemical Physics Letters</i> , 2015, 638, 249-252.	1.2	2
136	Metastable behavior of noble gas inserted tin and lead fluorides. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 972-982.	1.3	49
137	Investigating the nature of intermolecular and intramolecular bonds in noble gas containing molecules. <i>International Journal of Quantum Chemistry</i> , 2015, 115, 165-171.	1.0	1
138	Theoretical Prediction of Noble Gas Inserted Thioformyl Cations: HNgCS ⁺ (Ng = He, Ne, Ar). <i>TJ ETQq0 0 0 rgBT /Overlock 10</i>	1.1	45
139	Predicted Organic Noble-Gas Hydrides Derived from Acrylic Acid. <i>Journal of Physical Chemistry A</i> , 2015, 119, 2393-2400.	1.1	4
140	Complexes of XeHXe ⁺ with Simple Ligands: A Theoretical Investigation on (XeHXe ⁺) _L (L = N ₂ , CO, H ₂ O, NH ₃). <i>Journal of Physical Chemistry A</i> , 2015, 119, 2383-2392.	1.1	22
141	Comparative Computational Study of Model Halogen-Bonded Complexes of FKrCl. <i>Journal of Physical Chemistry A</i> , 2015, 119, 2568-2577.	1.1	10
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144	Krypton oxides under pressure. <i>Scientific Reports</i> , 2016, 6, 18938.	1.6	15
145	Prediction of neutral noble gas insertion compounds with heavier pnictides: FNgY (Ng = Kr and Xe; Y =) <i>Tj ETQq1 1 0,784314,rgBT /Over</i>	1.3	21
146	High-temperature- and high-pressure-induced formation of the Laves-phase compoundXeS ₂ . <i>Physical Review B</i> , 2016, 93, .	1.1	12
148	Van der Waals interactions and the limits of isolated atom models at interfaces. <i>Nature Communications</i> , 2016, 7, 11559.	5.8	111
149	Synthesis and stability of xenon oxides Xe ₂ O ₅ and Xe ₃ O ₂ under pressure. <i>Nature Chemistry</i> , 2016, 8, 784-790.	6.6	89
150	Theoretical prediction on a special bridging metal-Xe-metal bond with remarkable stability in Re ₂ Cp ₂ (PF ₃) ₄ Xe. <i>Science China Chemistry</i> , 2016, 59, 760-764.	4.2	0

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152	Advances in organometallic synthesis with mechanochemical methods. <i>Dalton Transactions</i> , 2016, 45, 2352-2362.	1.6	282
153	First-principles energetics of rare gases incorporation into uranium dioxide. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2016, 373, 102-109.	0.6	8
154	A computational study of beryllium-bonded $\text{H}_2\text{Be}^{\oplus}\text{FNgH}/\text{FKrCl}$ ($\text{Ng} = \text{Ar}, \text{Kr}$) dyads and their intermolecular interactions with the model nucleophiles F^{\ominus} , NH_3 and NCH . <i>Computational and Theoretical Chemistry</i> , 2016, 1084, 150-156.	1.1	5
155	$3c/4e$ σ -type long-bonding competes with π -bonding in noble-gas hydrides HNgY ($\text{Ng} = \text{He}, \text{Ne}, \text{Ar}, \text{Kr}, \text{Xe}, \text{Rn}; \text{Y} = \text{O}, \text{S}, \text{Se}, \text{Te}, \text{Po}$). <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 1915-1919.	1.3	19
156	High-pressure stabilization of argon fluorides. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 2309-2313.	1.3	11
157	Reaction between nickel or iron and xenon under high pressure. <i>High Pressure Research</i> , 2017, 37, 137-146.	0.4	17
158	Confirmation of the Structural Phase Transitions in XeF_2 under High Pressure. <i>Journal of Physical Chemistry C</i> , 2017, 121, 6264-6271.	1.5	17
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