

Wilhelm Hans Eugen Schwarz

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

1,168
citations

361413

20
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395702

33
g-index

44
all docs

44
docs citations

44
times ranked

1079
citing authors

#	ARTICLE	IF	CITATIONS
1	The Good Reasons for a Standard Periodic Table of the Chemical Elements. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2022, 648, .	1.2	4
2	On the highest oxidation states of the actinoids in AnO_4 molecules ($\text{An} = \text{Ac} - \text{Lr}$). Journal of Chemical Physics, 2022, 157, .	3.3	0
3	<i>Cis</i> - and <i>trans</i> -binding influences in $[\text{NUO}(\text{N}_2)]^+$. Journal of Chemical Physics, 2022, 157, .	3.0	4
4	Metal Oxo-Fluoride Molecules MO_nF_2 ($M = \text{Mn}$ and Fe ; $n = 1 - 4$) and O_2MnF : Matrix Infrared Spectra and Quantum Chemistry. Inorganic Chemistry, 2021, 60, 7687-7696.	4.0	3
5	Electronic Structure and Spectroscopic Properties of Group-7 Tri-Oxo-Halides MO_3X ($M = \text{Mn, Tc, Re}$). Journal of Chemical Physics, 2021, 153, 10784314.	4.0	3
6	<i>d</i> - and <i>s</i> -orbital populations in the <i>d</i> block: unbound atoms in physical vacuum versus chemical elements in condensed matter. A Dranskowski-population analysis. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2021, 76, 547-557.	0.7	0
7	Understanding the Uniqueness of 2p Elements in Periodic Tables. Chemistry - A European Journal, 2020, 26, 15558-15564.	3.3	31
8	Editorial: Celebrating the International Year of the Periodic Table: Beyond Mendeleev 150. Frontiers in Chemistry, 2020, 8, 610869.	3.6	0
9	Excited-State Chemistry: Photocatalytic Methanol Oxidation by Uranyl@Zeolite through Oxygen-Centered Radicals. Inorganic Chemistry, 2020, 59, 6287-6300.	4.0	11
10	Understanding Periodic and Non-periodic Chemistry in Periodic Tables. Frontiers in Chemistry, 2020, 8, 813.	3.6	22
11	Correspondence on Core Electron Topologies in Chemical Compounds: Case Study of Carbon versus Silicon. Angewandte Chemie, 2019, 131, 10512-10515.	2.0	3
12	Correspondence on Core Electron Topologies in Chemical Compounds: Case Study of Carbon versus Silicon. Angewandte Chemie - International Edition, 2019, 58, 10404-10407.	13.8	2
13	Physical origin of chemical periodicities in the system of elements. Pure and Applied Chemistry, 2019, 91, 1969-1999.	1.9	17
14	The Lewis electron-pair bonding model: the physical background, one century later. Nature Reviews Chemistry, 2019, 3, 35-47.	30.2	52
15	The Lewis electron-pair bonding model: modern energy decomposition analysis. Nature Reviews Chemistry, 2019, 3, 48-63.	30.2	197
16	Äußerer Oxidationszahl-Obergrenzen in der Chemie. Angewandte Chemie, 2018, 130, 3297-3300.	2.0	15
17	On the Upper Limits of Oxidation States in Chemistry. Angewandte Chemie - International Edition, 2018, 57, 3242-3245.	13.8	46
18	A uranium carbide cluster stabilized inside a C ₈₀ fullerene cage. Nature Communications, 2018, 9, 2753.	12.8	63

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19	Bonding trends across the series of tricarbonato-actinyl anions [(AnO ₂)(CO ₃) ₃] ⁴⁻ (An = U-Cm): the plutonium turn. Dalton Transactions, 2017, 46, 2542-2550.	3.3	34
20	Diversity of Chemical Bonding and Oxidation States in MS ₄ Molecules of Group 8 Elements. Chemistry - A European Journal, 2017, 23, 10580-10589.	3.3	7
21	How Much Can Density Functional Approximations (DFA) Fail? The Extreme Case of the FeO ₄ Species. Journal of Chemical Theory and Computation, 2016, 12, 1525-1533.	5.3	33
22	Probing the Electronic Structure and Chemical Bonding of Mono-Uranium Oxides with Different Oxidation States: UO _x and UO _x (x = 3-5). Journal of Physical Chemistry A, 2016, 120, 1084-1096.	2.5	29
23	Theoretical Studies on Hexanuclear Oxometalates [M ₆ L ₁₉] ^{q-} (M = Cr, Mo, W, Sg, Nd, U). Electronic Structures, Oxidation States, Aromaticity, and Stability. Inorganic Chemistry, 2015, 54, 7171-7180.	4.0	24
24	An 18-Electron System Containing a Superheavy Element: Theoretical Studies of Sg@Au ₁₂ . Inorganic Chemistry, 2015, 54, 3695-3701.	4.0	42
25	In memoriam Hermann Hartmann, founder of TCA, on the occasion of his 100th birthday. Theoretical Chemistry Accounts, 2014, 133, 1.	1.4	1
26	Structures and stability of AnO ₄ isomers, An = Pu, Am, and Cm: a relativistic density functional study. Physical Chemistry Chemical Physics, 2014, 16, 8997-9001.	2.8	13
27	100th Anniversary of Bohr's Model of the Atom. Angewandte Chemie - International Edition, 2013, 52, 12228-12238.	13.8	11
28	On structure and bonding of lanthanoid trifluorides LnF ₃ (Ln = La to Lu). Physical Chemistry Chemical Physics, 2013, 15, 7839.	2.8	25
29	On Two Different Objectives of the Concepts of Ionic Radii. Chemistry - A European Journal, 2013, 19, 14758-14767.	3.3	11
30	Observations and Descriptions versus Explanations—An Example: Does Nature, Does Theory Know About Steric Hindrance?. Chemistry - A European Journal, 2012, 18, 4470-4479.	3.3	25
31	On the maximum bond multiplicity of carbon: unusual C-U quadruple bonding in molecular CUO. Chemical Science, 2012, 3, 2786.	7.4	49
32	Uranyl-Glycine-Water Complexes in Solution: Comprehensive Computational Modeling of Coordination Geometries, Stabilization Energies, and Luminescence Properties. Inorganic Chemistry, 2011, 50, 2082-2093.	4.0	68
33	Excited States and Absorption Spectra of UF ₆ : A RASPT2 Theoretical Study with Spin-Orbit Coupling. Journal of Chemical Theory and Computation, 2011, 7, 3223-3231.	5.3	19
34	Geometries, electronic structures, and excited states of UN ₂ , NUO ₂ , and UO ₂ ²⁺ : a combined CCSD(T), RAS/CASPT2 and TDDFT study. Theoretical Chemistry Accounts, 2011, 129, 467-481.	1.4	39
35	Antibond Breaking—The Formation and Decomposition of He@Adamantane: Descriptions, Explanations, and Meaning of Concepts. Chemistry - A European Journal, 2010, 16, 9107-9116.	3.3	27
36	Theoretical Investigations of Geometry, Electronic Structure and Stability of UO ₆ : Octahedral Uranium Hexoxide and Its Isomers ⁺ . Journal of Physical Chemistry A, 2010, 114, 8837-8844.	2.5	39

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37	Some solved problems of the periodic system of chemical elements. International Journal of Quantum Chemistry, 2009, 110, NA-NA.	2.0	3
38	Measuring Orbitals: Provocation or Reality?. Angewandte Chemie - International Edition, 2006, 45, 1508-1517.	13.8	79
39	Nonspherical atomic ground-state densities and chemical deformation densities from x-ray scattering. Journal of Chemical Physics, 1990, 92, 4956-4969.	3.0	44
40	Das Kombinierte Ni _{1/2} herungsverfahren. Theoretica Chimica Acta, 1968, 11, 307-324.	0.8	59