

# Markus Rohdenburg

## List of Publications by Year in descending order

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Version: 2024-02-01

29  
papers

429  
citations

623734

14  
h-index

752698

20  
g-index

32  
all docs

32  
docs citations

32  
times ranked

344  
citing authors

#	ARTICLE	IF	CITATIONS
1	Rational design of an argon-binding superelectrophilic anion. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 8167-8172.	7.1	69
2	Superelectrophilic Behavior of an Anion Demonstrated by the Spontaneous Binding of Noble Gases to $[B_{12}Cl_{11}]^+$ . Angewandte Chemie - International Edition, 2017, 56, 7980-7985.	13.8	55
3	First steps towards a stable neon compound: observation and bonding analysis of $[B_{12}(CN)_{11}Ne]^+$ . Chemical Communications, 2020, 56, 4591-4594.	4.1	26
4	Rhenium(I) Triscarbonyl Complexes with Redox-Active Amino- and Iminopyridine Ligands: Metal-Ligand Cooperation as Trigger for the Reversible Binding of $CO_2$ via a Dearomatization/Rearomatization Reaction Sequence. Organometallics, 2017, 36, 839-848.	2.3	25
5	Cisplatin as a Potential Platinum Focused Electron Beam Induced Deposition Precursor: $NH_3$ Ligands Enhance the Electron-Induced Removal of Chlorine. Journal of Physical Chemistry C, 2019, 123, 21774-21787.	3.1	22
6	Direct functionalization of $C-H$ bonds by electrophilic anions. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 23374-23379.	7.1	21
7	Tuning the Optoelectronic Properties of Stannoles by the Judicious Choice of the Organic Substituents. Inorganic Chemistry, 2018, 57, 12562-12575.	4.0	20
8	Electron-driven and thermal chemistry during water-assisted purification of platinum nanomaterials generated by electron beam induced deposition. Beilstein Journal of Nanotechnology, 2018, 9, 77-90.	2.8	19
9	Role of $NH_3$ in the Electron-Induced Reactions of Adsorbed and Solid Cisplatin. Journal of Physical Chemistry C, 2016, 120, 4112-4120.	3.1	18
10	Anion-Anion Chemistry with Mass-Selected Molecular Fragments on Surfaces. Angewandte Chemie - International Edition, 2021, 60, 24910-24914.	13.8	18
11	Superelektrophiles Verhalten eines Anions demonstriert durch spontane Bindung von Edelgasen an $[B_{12}Cl_{11}]^+$ . Angewandte Chemie, 2017, 129, 8090-8096.	2.0	17
12	Efficient $NH_3$ -based process to remove chlorine from electron beam deposited ruthenium produced from $(\hat{I}-3-C_3H_5)Ru(CO)_3Cl$ . Scientific Reports, 2020, 10, 10901.	3.3	17
13	Role of low-energy electrons in the solubility switch of Zn-based oxocluster photoresist for extreme ultraviolet lithography. Physical Chemistry Chemical Physics, 2021, 23, 16646-16657.	2.8	15
14	Relevance of $\pi$ -Backbonding for the Reactivity of Electrophilic Anions $[B_{12}X_{11}]^+$ ( $X=F, Cl, Br, I, CN$ ). Chemistry - A European Journal, 2021, 27, 10274-10281.	3.3	15
15	Water-Assisted Process for Purification of Ruthenium Nanomaterial Fabricated by Electron Beam Induced Deposition. ACS Applied Nano Materials, 2020, 3, 8352-8364.	5.0	14
16	Properties of gaseous $[B_6X_6]^{2-}$ dianions ( $X = Cl, Br$ ). Tj ETQq 0 0 0 rgBT, /Overlock	2.8	12
17	Aggregation induced emission " emissive stannoles in the solid state. Chemical Communications, 2020, 56, 9775-9778.	4.1	10
18	Gaseous cyclodextrin-closedodecaborate complexes $\hat{I}\ddagger CD\hat{A}-B_{12}X_{12}]^{2+}$ ( $\hat{I}\ddagger = \hat{I}\pm, \hat{I}^2, \text{ and } \hat{I}^3; X = F, Cl, Br, \text{ and } I$ ): electronic structures and intramolecular interactions. Physical Chemistry Chemical Physics, 2021, 23, 13447-13457.	2.8	8

#	ARTICLE	IF	CITATIONS
19	New Perspectives in the Noble Gas Chemistry Opened by Electrophilic Anions. <i>Frontiers in Chemistry</i> , 2020, 8, 580295.	3.6	6
20	Gas phase fragmentation of adducts between dioxygen and closo-borate radical anions. <i>International Journal of Mass Spectrometry</i> , 2019, 436, 71-78.	1.5	5
21	Combined Ammonia and Electron Processing of a Carbon-Rich Ruthenium Nanomaterial Fabricated by Electron-Induced Deposition. <i>Micromachines</i> , 2020, 11, 769.	2.9	5
22	Electron-Induced Decomposition of Different Silver(I) Complexes: Implications for the Design of Precursors for Focused Electron Beam Induced Deposition. <i>Nanomaterials</i> , 2022, 12, 1687.	4.1	3
23	Ultrathin Carbon Nanomembranes from 5,10,15,20-Tetraphenylporphyrin: Electron Beam Induced Fabrication and Functionalization via Focused Electron Beam Induced Processing. <i>Journal of Physical Chemistry C</i> , 2020, 124, 28335-28344.	3.1	2
24	Experimental and Theoretical Studies of a Spirostanole and Formation of a Pentaorganostannate. <i>Molecules</i> , 2020, 25, 4993.	3.8	2
25	İE-Conjugated stannole copolymers synthesised by a tin-selective Stille cross-coupling reaction. <i>Materials Advances</i> , 2021, 2, 3282-3293.	5.4	2
26	Isolated [B <sub>2</sub> (CN) <sub>6</sub> ] <sup>2-</sup> : Small Yet Exceptionally Stable Nonmetal Dianion. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 12005-12011.	4.6	2
27	Electron-induced chemistry fundamental to state-of-the-art nanotechnology. , 2021, , .		1
28	Titelbild: Superelektrophiles Verhalten eines Anions demonstriert durch spontane Bindung von Edelgasen an [B <sub>12</sub> Cl <sub>11</sub> ] <sup>-</sup> ( <i>Angew. Chem.</i> 27/2017). <i>Angewandte Chemie</i> , 2017, 129, 7789-7789.	2.0	0
29	Anion-Anion Chemistry with Mass-Selected Molecular Fragments on Surfaces. <i>Angewandte Chemie</i> , 0, , .	2.0	0