## Alexander A Auer

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Comparing London dispersion pnictogen–π interactions in naphthyl-substituted dipnictanes. Dalton Transactions, 2022, 51, 5016-5023.	3.3	2
2	High Level Electronic Structure Calculation of Molecular Solid-State NMR Shielding Constants. Journal of Chemical Theory and Computation, 2022, 18, 2408-2417.	5.3	4
3	Investigating the stability of graphitic carbon materials in electrocatalysis using electronic structure methods. Carbon, 2021, 171, 618-633.	10.3	7
4	Structure and Reactivity of IrO <i><sub>x</sub></i> Nanoparticles for the Oxygen Evolution Reaction in Electrocatalysis: An Electronic Structure Theory Study. Journal of Physical Chemistry C, 2021, 125, 4379-4390.	3.1	15
5	DLPNO-MP2 second derivatives for the computation of polarizabilities and NMR shieldings. Journal of Chemical Physics, 2021, 154, 164110.	3.0	35
6	Triple Resonance Experiments for the Rapid Detection of <sup>103</sup> Rh NMR Shifts: A Combined Experimental and Theoretical Study into Dirhodium and Bismuth–Rhodium Paddlewheel Complexes. Journal of the American Chemical Society, 2021, 143, 12473-12479.	13.7	16
7	Are Heavy Pnictogenâ€Ï€ Interactions Really "π Interactionsâ€?. Chemistry - A European Journal, 2021, 27, 14520-14526.	3.3	5
8	A Supported Bismuth Halide Perovskite Photocatalyst for Selective Aliphatic and Aromatic C–H Bond Activation. Angewandte Chemie, 2020, 132, 5837-5845.	2.0	27
9	A Supported Bismuth Halide Perovskite Photocatalyst for Selective Aliphatic and Aromatic C–H Bond Activation. Angewandte Chemie - International Edition, 2020, 59, 5788-5796.	13.8	160
10	Computation of NMR Shielding Constants for Solids Using an Embedded Cluster Approach with DFT, Double-Hybrid DFT, and MP2. Journal of Chemical Theory and Computation, 2020, 16, 6950-6967.	5.3	21
11	A case study of density functional theory and domain-based local pair natural orbital coupled cluster for vibrational effects on EPR hyperfine coupling constants: vibrational perturbation theory versus <i>ab initio</i> molecular dynamics. Molecular Physics, 2020, 118, e1797916.	1.7	9
12	An introduction to electrochemical energy conversion. EPJ Web of Conferences, 2020, 246, 00018.	0.3	0
13	The first microsolvation step for furans: New experiments and benchmarking strategies. Journal of Chemical Physics, 2020, 152, 164303.	3.0	28
14	Studying Natural Buckyballs and Buckybowls in Fossil Materials. Angewandte Chemie, 2020, 132, 15118-15123.	2.0	1
15	Studying Natural Buckyballs and Buckybowls in Fossil Materials. Angewandte Chemie - International Edition, 2020, 59, 15008-15013.	13.8	8
16	Evaluation of bismuth-based dispersion energy donors – synthesis, structure and theoretical study of 2-biphenylbismuth( <scp>iii</scp> ) derivatives. Physical Chemistry Chemical Physics, 2020, 22, 10189-10211.	2.8	5
17	Balancing Donorâ€Acceptor and Dispersion Effects in Heavy Main Group Element Ï€ Interactions: Effect of Substituents on the Pnictogenâ‹â‹î€ Arene Interaction. ChemPhysChem, 2019, 20, 2539-2552. 	2.1	10
18	Structure and Reactivity of 1,8-Bis(naphthalenediyl)dipnictanes. Organometallics, 2019, 38, 2927-2942.	2.3	11

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19	High resolution transmission electron microscopy and electronic structure theory investigation of platinum nanoparticles on carbon black. Journal of Chemical Physics, 2019, 150, 041705.	3.0	14
20	The furan microsolvation blind challenge for quantum chemical methods: First steps. Journal of Chemical Physics, 2018, 148, 014301.	3.0	44
21	Self-Consistent Field Calculation of Nuclear Magnetic Resonance Chemical Shielding Constants Using Gauge-Including Atomic Orbitals and Approximate Two-Electron Integrals. Journal of Chemical Theory and Computation, 2018, 14, 619-637.	5.3	70
22	Highâ€Level Ab Initio Calculations of Intermolecular Interactions: Heavy Mainâ€Group Element Ï€â€Interactions. Chemistry - A European Journal, 2018, 24, 10238-10245.	3.3	22
23	Efficient and Accurate Prediction of Nuclear Magnetic Resonance Shielding Tensors with Double-Hybrid Density Functional Theory. Journal of Chemical Theory and Computation, 2018, 14, 4756-4771.	5.3	75
24	Evaluation of dispersion type metal··ÄE arene interaction in arylbismuth compounds – an experimental and theoretical study. Beilstein Journal of Organic Chemistry, 2018, 14, 2125-2145.	2.2	25
25	Pair natural orbital and canonical coupled cluster reaction enthalpies involving light to heavy alkali and alkaline earth metals: the importance of sub-valence correlation. Physical Chemistry Chemical Physics, 2017, 19, 9374-9391.	2.8	43
26	Standardized Benchmarking of Water Splitting Catalysts in a Combined Electrochemical Flow Cell/Inductively Coupled Plasma–Optical Emission Spectrometry (ICP-OES) Setup. ACS Catalysis, 2017, 7, 3768-3778.	11.2	73
27	Automatic Generation of Auxiliary Basis Sets. Journal of Chemical Theory and Computation, 2017, 13, 554-562.	5.3	384
28	Treating Subvalence Correlation Effects in Domain Based Pair Natural Orbital Coupled Cluster Calculations: An Out-of-the-Box Approach. Journal of Chemical Theory and Computation, 2017, 13, 3220-3227.	5.3	45
29	Understanding the Role of Dispersion in Frustrated Lewis Pairs and Classical Lewis Adducts: A Domainâ€Based Local Pair Natural Orbital Coupled Cluster Study. Chemistry - A European Journal, 2017, 23, 865-873.	3.3	91
30	Electronic Structure Calculations and Experimental Studies on the Thermal Initiation of the Twin Polymerization Process. ChemPlusChem, 2017, 82, 1396-1407.	2.8	4
31	Decomposition of Intermolecular Interaction Energies within the Local Pair Natural Orbital Coupled Cluster Framework. Journal of Chemical Theory and Computation, 2016, 12, 4778-4792.	5.3	231
32	Porous Ge@C materials via twin polymerization of germanium( <scp>ii</scp> ) salicyl alcoholates for Li-ion batteries. Journal of Materials Chemistry A, 2016, 4, 2705-2719.	10.3	21
33	MAXNET Energy – Focusing Research in Chemical Energy Conversion on the Electrocatlytic Oxygen Evolution. Green, 2015, 5, .	0.4	3
34	Identifying Stereoisomers by ab-initio Calculation of Secondary Isotope Shifts on NMR Chemical Shieldings. Molecules, 2014, 19, 5301-5312.	3.8	4
35	Constant chemical potential approach for quantum chemical calculations in electrocatalysis. Beilstein Journal of Nanotechnology, 2014, 5, 668-676.	2.8	17
36	Microporous Carbon and Mesoporous Silica by Use of Twin Polymerization: An Integrated Experimental and Theoretical Approach to Precursor Reactivity. ChemPlusChem, 2014, 79, 1009-1023.	2.8	27

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37	Thermally Induced Twin Polymerization of 4 <i>H</i> â€1,3,2â€Benzodioxasilines. Chemistry - A European Journal, 2014, 20, 8040-8053.	3.3	30
38	Modelling electrified interfaces in quantum chemistry: constant charge vs. constant potential. Physical Chemistry Chemical Physics, 2013, 15, 2712.	2.8	31
39	Interaction of Platinum Nanoparticles with Graphitic Carbon Structures: A Computational Study. ChemPhysChem, 2013, 14, 2984-2989.	2.1	36
40	Theoretical Study of Twin Polymerization – From Chemical Reactivity to Structure Formation. Macromolecular Theory and Simulations, 2012, 21, 615-628.	1.4	30
41	Quantitative prediction of gas-phase N15 and P31 nuclear magnetic shielding constants. Journal of Chemical Physics, 2010, 132, 064109.	3.0	37
42	Quantitative prediction of gas-phase O17 nuclear magnetic shielding constants. Journal of Chemical Physics, 2009, 131, 024116.	3.0	31
43	Nanocomposites with Structure Domains of 0.5 to 3â€nm by Polymerization of Silicon Spiro Compounds. Angewandte Chemie - International Edition, 2009, 48, 8254-8258.	13.8	63
44	High-level ab-initio calculation of gas-phase NMR chemical shifts and secondary isotope effects of methanol. Chemical Physics Letters, 2009, 467, 230-232.	2.6	29
45	Bismuthâ^Arene Ï€-Interaction: A Combined Experimental and Theoretical Approach. Organometallics, 2009, 28, 5405-5411.	2.3	58
46	Quantitative prediction of gas-phase F19 nuclear magnetic shielding constants. Journal of Chemical Physics, 2008, 128, 244111.	3.0	79
47	Full configuration-interaction and coupled-cluster calculations of the indirect spin–spin coupling constant of BH. Chemical Physics Letters, 2003, 368, 172-176.	2.6	32
48	Quantitative prediction of gas-phase 13C nuclear magnetic shielding constants. Journal of Chemical Physics, 2003, 118, 10407-10417.	3.0	246