

Daniel Himmel

List of Publications by Year in descending order

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Version: 2024-02-01

39
papers

1,592
citations

279798

23
h-index

289244

40
g-index

42
all docs

42
docs citations

42
times ranked

1476
citing authors

#	ARTICLE	IF	CITATIONS
1	Lewis acid–base adducts of $\text{Al}(\text{N}(\text{C}_6\text{F}_5)_2)_3$ and $\text{Ga}(\text{N}(\text{C}_6\text{F}_5)_2)_3$ – structural features and dissociation enthalpies. Dalton Transactions, 2022, 51, 4829-4835.	3.3	1
2	Measurements and Utilization of Consistent Gibbs Energies of Transfer of Single Ions: Towards a Unified Redox Potential Scale for All Solvents. Chemistry - A European Journal, 2022, 28, .	3.3	3
3	The Inverted Philosopher’s Stone: how to turn silver to a base metal. Journal of Solid State Electrochemistry, 2020, 24, 2847-2852.	2.5	1
4	Isolated Cationic Organometallic Nickel(I) Arene Complexes. European Journal of Inorganic Chemistry, 2019, 2019, 3309-3317.	2.0	8
5	Isolation of a stable pyridine radical anion. Chemical Communications, 2019, 55, 1322-1325.	4.1	18
6	Investigations on <i>non-classical</i> silylium ions leading to a cyclobutenyl cation. Chemical Science, 2019, 10, 2821-2829.	7.4	19
7	Stable salts of the hexacarbonyl chromium(I) cation and its pentacarbonyl-nitrosyl chromium(I) analogue. Nature Communications, 2019, 10, 624.	12.8	30
8	Enhancement of Push–Pull Properties of Pentafulvene and Pentafulvalene Derivatives by Protonation at Carbon. European Journal of Organic Chemistry, 2018, 2018, 739-749.	2.4	7
9	Understanding titanium-catalysed radical–radical reactions: a DFT study unravels the complex kinetics of ketone–nitrile couplings. Dalton Transactions, 2018, 47, 5072-5082.	3.3	18
10	The Lewis superacid $\text{Al}[\text{N}(\text{C}_6\text{F}_5)_2]_3$ and its higher homolog $\text{Ga}[\text{N}(\text{C}_6\text{F}_5)_2]_3$ – structural features, theoretical investigation and reactions of a metal amide with higher fluoride ion affinity than SbF_5 . Chemical Science, 2018, 9, 245-253.	7.4	41
11	Basic Remarks on Acidity. Angewandte Chemie - International Edition, 2018, 57, 4386-4411.	13.8	48
12	Grundlegende Bemerkungen zur Azidität. Angewandte Chemie, 2018, 130, 4471-4498.	2.0	13
13	Synthesis, Characterisation and Reactions of Truly Cationic Ni^{I} –Phosphine Complexes. Chemistry - A European Journal, 2018, 24, 918-927.	3.3	20
14	How does the Environment Influence a Given Cation? A Systematic Investigation of $[\text{Co}(\text{CO})_5]^+$ in Gas Phase, Solution, and Solid State. Chemistry - A European Journal, 2018, 24, 19348-19360.	3.3	13
15	Access to the Bis–benzene Cobalt(I) Sandwich Cation and its Derivatives: Synthons for a ‘Naked’ Cobalt(I) Source?. Angewandte Chemie - International Edition, 2018, 57, 9310-9314.	13.8	26
16	Access to the Bis–benzene Cobalt(I) Sandwich Cation and its Derivatives: Synthons for a ‘Naked’ Cobalt(I) Source?. Angewandte Chemie, 2018, 130, 9454-9458.	2.0	9
17	Towards a Sustainable Synthesis of Oxymethylene Dimethyl Ether by Homogeneous Catalysis and Uptake of Molecular Formaldehyde. Angewandte Chemie, 2018, 130, 9605-9608.	2.0	11
18	Towards a Sustainable Synthesis of Oxymethylene Dimethyl Ether by Homogeneous Catalysis and Uptake of Molecular Formaldehyde. Angewandte Chemie - International Edition, 2018, 57, 9461-9464.	13.8	38

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19	2,6-Bis(diazaboryl)pyridine: A Superbasic Sterically Demanding Pyridine Ligand.. Chemistry - A European Journal, 2017, 23, 10763-10767.	3.3	11
20	From an Easily Accessible Pentacarbonylcobalt(I) Salt to Piano-Stool Cations [(arene)Co(CO) ₂] ⁺ . Chemistry - A European Journal, 2017, 23, 14658-14664.	3.3	16
21	A unified view to Brønsted acidity scales: do we need solvated protons?. Chemical Science, 2017, 8, 6964-6973.	7.4	59
22	[Ni(cod) ₂][Al(OR ^F) ₄], a Source for Naked Nickel(I) Chemistry. Angewandte Chemie - International Edition, 2015, 54, 14706-14709.	13.8	41
23	The Acidity of the HBr/AlBr ₃ System: Stabilization of Crystalline Protonated Arenes and Their Acidity in Bromoaluminate Ionic Liquids. Chemistry - A European Journal, 2015, 21, 7489-7502.	3.3	22
24	From unsuccessful H ₂ -activation with FLPs containing B(OHfp) ₃ to a systematic evaluation of the Lewis acidity of 33 Lewis acids based on fluoride, chloride, hydride and methyl ion affinities. Dalton Transactions, 2015, 44, 7489-7499.	3.3	181
25	Unified pH Values of Liquid Chromatography Mobile Phases. Analytical Chemistry, 2015, 87, 2623-2630.	6.5	46
26	Superacidity of closo-Dodecaborate-Based Brønsted Acids: a DFT Study. Journal of Physical Chemistry A, 2015, 119, 735-743.	2.5	39
27	Fluoro- and Perfluoroalkylsulfonylpentafluoroanilides: Synthesis and Characterization of NH Acids for Weakly Coordinating Anions and Their Gas-Phase and Solution Acidities. Chemistry - A European Journal, 2015, 21, 5769-5782.	3.3	20
28	Cationic cluster formation versus disproportionation of low-valent indium and gallium complexes of 2,2'-bipyridine. Nature Communications, 2015, 6, 8288.	12.8	52
29	A Janus-Headed Lewis Superacid: Simple Access to, and First Application of Me ₃ Si-F-Al(OR ^F) ₃ . Chemistry - A European Journal, 2014, 20, 1218-1222.	3.3	52
30	[Au(ĭ-2-C ₂ H ₄) ₃]+[Al(OR ^F) ₄]- a Stable Homoleptic (Ethene)gold Complex. European Journal of Inorganic Chemistry, 2013, 2013, 2712-2717.	2.0	23
31	Crystal Structure Determination of the Nonclassical 2-Norbornyl Cation. Science, 2013, 341, 62-64.	12.6	108
32	Realistic Energy Surfaces for Real-World Systems: An IMOMO CCSD(T):DFT Scheme for Rhodium-Catalyzed Hydroformylation with the 6-PPON Ligand. Chemistry - A European Journal, 2013, 19, 16272-16281.	3.3	25
33	A Systematic Investigation of Coinage Metal Carbonyl Complexes Stabilized by Fluorinated Alkoxy Aluminates. Chemistry - A European Journal, 2013, 19, 12468-12485.	3.3	43
34	Synthesis, Characterization, and Application of Two Al(OR ^F) ₃ Lewis Superacids. Chemistry - A European Journal, 2012, 18, 9371-9380.	3.3	54
35	Anchor Points for the Unified Brønsted Acidity Scale: The rCCC Model for the Calculation of Standard Gibbs Energies of Proton Solvation in Eleven Representative Liquid Media. Chemistry - A European Journal, 2011, 17, 5808-5826.	3.3	54
36	A Unified pH Scale for All Phases. Angewandte Chemie - International Edition, 2010, 49, 6885-6888.	13.8	138

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37	Silver-ethene Complexes [Ag(η^2 -C ₂ H ₄) _n][Al(OR) ₄] _{3.3} with <i>n</i> =1, 2, 3 (R=Fluorine-Substituted Group). Chemistry - A European Journal, 2009, 15, 9505-9520.	3.3	72
38	Structural Characterization of a Base-Stabilized [Zn ₂] ²⁺ Cation. Angewandte Chemie - International Edition, 2009, 48, 5748-5751.	13.8	58
39	Stable Cl ₃ ⁺ salts and attempts to prepare CHI ₂ ⁺ and CH ₂ I ⁺ . Dalton Transactions, 2008, , 946-956.	3.3	29