## Ragnar Bjornsson

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

58	1,347	21	35
papers	citations	h-index	g-index
61 ext. papers	1,618 ext. citations	5.7 avg, IF	4.99 L-index

#	Paper	IF	Citations
58	Carbon Monoxide Binding to the Iron-Molybdenum Cofactor of Nitrogenase: a Detailed Quantum Mechanics/Molecular Mechanics Investigation. <i>Inorganic Chemistry</i> , <b>2021</b> , 60, 18031-18047	5.1	2
57	Nudged Elastic Band Method for Molecular Reactions Using Energy-Weighted Springs Combined with Eigenvector Following. <i>Journal of Chemical Theory and Computation</i> , <b>2021</b> , 17, 4929-4945	6.4	22
56	Relative cross sections and appearance energies in electron impact ionization and dissociation of mono-halogenated biphenyls. <i>International Journal of Mass Spectrometry</i> , <b>2021</b> , 459, 116452	1.9	1
55	Localized and Delocalized States of a Diamine Cation: Resolution of a Controversy. <i>Journal of Physical Chemistry Letters</i> , <b>2021</b> , 12, 1250-1255	6.4	1
54	The E state of FeMoco: Hydride Formation versus Fe Reduction and a Mechanism for H Evolution. <i>Chemistry - A European Journal</i> , <b>2021</b> , 27, 16788-16800	4.8	3
53	Caught in the H: Crystal Structure and Spectroscopy Reveal a Sulfur Bound to the Active Site of an O-stable State of [FeFe] Hydrogenase. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 16786-167	94 <sup>6.4</sup>	23
52	Kristallstruktur und Spektroskopie offenbaren einen Schwefel-Liganden am aktiven Zentrum einer O2-stabilen [FeFe]-Hydrogenase. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 16930	3.6	
51	Insensitivity of Magnetic Coupling to Ligand Substitution in a Series of Tetraoxolene Radical-Bridged Fe Complexes. <i>Inorganic Chemistry</i> , <b>2020</b> , 59, 4634-4649	5.1	10
50	The Spectroscopy of Nitrogenases. <i>Chemical Reviews</i> , <b>2020</b> , 120, 5005-5081	68.1	65
49	Dissociation of the FEBID precursor cis-Pt(CO)Cl driven by low-energy electrons. <i>Physical Chemistry Chemical Physics</i> , <b>2020</b> , 22, 6100-6108	3.6	7
48	Quantum Mechanics/Molecular Mechanics Study of Resting-State Vanadium Nitrogenase: Molecular and Electronic Structure of the Iron-Vanadium Cofactor. <i>Inorganic Chemistry</i> , <b>2020</b> , 59, 11514	1-9752	7 <sup>9</sup>
47	Scaffold diversity for enhanced activity of glycosylated inhibitors of fungal adhesion. <i>RSC Medicinal Chemistry</i> , <b>2020</b> , 11, 1386-1401	3.5	2
46	Resolving the structure of the E state of Mo nitrogenase through Mo and Fe K-edge EXAFS and QM/MM calculations. <i>Chemical Science</i> , <b>2019</b> , 10, 9807-9821	9.4	19
45	The role of the dihedral angle and excited cation states in ionization and dissociation of mono-halogenated biphenyls; a combined experimental and theoretical coupled cluster study. <i>Physical Chemistry Chemical Physics</i> , <b>2019</b> , 21, 4556-4567	3.6	4
44	A model for dinitrogen binding in the E state of nitrogenase. <i>Chemical Science</i> , <b>2019</b> , 10, 11110-11124	9.4	21
43	Computational Mechanistic Study of [MoFeS] Cubanes for Catalytic Reduction of Nitrogenase Substrates. <i>Inorganic Chemistry</i> , <b>2019</b> , 58, 1886-1894	5.1	11
42	Multistep Explicit Solvation Protocol for Calculation of Redox Potentials. <i>Journal of Chemical Theory and Computation</i> , <b>2019</b> , 15, 52-67	6.4	24

## (2015-2018)

41	Low energy electron-induced decomposition of (ECp)Fe(CO)Mn(CO), a potential bimetallic precursor for focused electron beam induced deposition of alloy structures. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 5644-5656	3.6	8
40	X-ray Absorption Spectroscopy Combined with Time-Dependent Density Functional Theory Elucidates Differential Substitution Pathways of Au(I) and Au(III) with Zinc Fingers. <i>Inorganic Chemistry</i> , <b>2018</b> , 57, 218-230	5.1	17
39	Electron interactions with the heteronuclear carbonyl precursor HFeRu(CO) and comparison with HFeCo(CO): from fundamental gas phase and surface science studies to focused electron beam induced deposition. <i>Beilstein Journal of Nanotechnology</i> , <b>2018</b> , 9, 555-579	3	12
38	QM/MM calculations reveal a bridging hydroxo group in a vanadium nitrogenase crystal structure. <i>Chemical Communications</i> , <b>2018</b> , 54, 7310-7313	5.8	36
37	Revisiting the MBsbauer Isomer Shifts of the FeMoco Cluster of Nitrogenase and the Cofactor Charge. <i>Inorganic Chemistry</i> , <b>2017</b> , 56, 1470-1477	5.1	79
36	Comparative electronic structures of nitrogenase FeMoco and FeVco. <i>Dalton Transactions</i> , <b>2017</b> , 46, 2445-2455	4.3	53
35	Formation and decay of negative ion states up to 11 LeV above the ionization energy of the nanofabrication precursor HFeCo(CO). <i>Chemical Science</i> , <b>2017</b> , 8, 5949-5952	9.4	16
34	QM/MM Study of the Nitrogenase MoFe Protein Resting State: Broken-Symmetry States, Protonation States, and QM Region Convergence in the FeMoco Active Site. <i>Inorganic Chemistry</i> , <b>2017</b> , 56, 13417-13429	5.1	51
33	A combined experimental and theoretical study on dissociative ionization and dissociative electron attachment to the heteronuclear FEBID precursor; HFeCo3(CO)12. <i>Journal of Physics: Conference Series</i> , <b>2017</b> , 875, 062040	0.3	
32	Proton Shuttling and Reaction Paths in Dissociative Electron Attachment to o- and p-Tetrafluorohydroquinone, an Experimental and Theoretical Study. <i>Journal of Physical Chemistry A</i> , <b>2017</b> , 121, 5580-5585	2.8	O
31	Conformational properties of 1-cyano-1-silacyclohexane, C5H10SiHCN: Gas electron diffraction, low-temperature NMR and quantum chemical calculations. <i>Journal of Molecular Structure</i> , <b>2017</b> , 1132, 149-156	3.4	10
30	Coordination geometry determination of stannane compounds with phosphinoyldithioformate ligands using multinuclear NMR, Sn MBsbauer and DFT methods. <i>Journal of Organometallic Chemistry</i> , <b>2016</b> , 825-826, 125-138	2.3	7
29	Dissociative Photoionization of 1-Halogenated Silacyclohexanes: Silicon Traps the Halogen. <i>Journal of Physical Chemistry A</i> , <b>2016</b> , 120, 9188-9197	2.8	6
28	Computational study of dissociative electron attachment to Eallyl ruthenium (II) tricarbonyl bromide. <i>European Physical Journal D</i> , <b>2016</b> , 70, 1	1.3	7
27	X-ray Absorption and Emission Spectroscopic Studies of [L2Fe2S2](n) Model Complexes: Implications for the Experimental Evaluation of Redox States in Iron-Sulfur Clusters. <i>Inorganic Chemistry</i> , <b>2016</b> , 55, 4485-97	5.1	53
26	Structure and energetics in dissociative electron attachment to HFeCo3(CO)12. European Physical Journal D, <b>2016</b> , 70, 1	1.3	15
25	Molybdenum L-Edge XAS Spectra of MoFe Nitrogenase. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , <b>2015</b> , 641, 65-71	1.3	30
24	Molecular structure of 1,2-bis(trifluoromethyl)-1,1,2,2-tetramethyldisilane in the gas, liquid, and solid phases: unusual conformational changes between phases. <i>Journal of Physical Chemistry A</i> , <b>2015</b> , 119, 1600-8	2.8	2

23	Conformational properties of 1-tert-butyl-1-silacyclohexane, C5H10SiH(t-Bu): gas-phase electron diffraction, temperature-dependent Raman spectroscopy, and quantum chemical calculations. <i>Structural Chemistry</i> , <b>2015</b> , 26, 445-453	1.8	11
22	The FeW Cofactor of Vanadium Nitrogenase Contains an Interstitial Carbon Atom. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 13447-13450	3.6	8
21	The Fe-V Cofactor of Vanadium Nitrogenase Contains an Interstitial Carbon Atom. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 13249-52	16.4	62
20	The discovery of Mo(III) in FeMoco: reuniting enzyme and model chemistry. <i>Journal of Biological Inorganic Chemistry</i> , <b>2015</b> , 20, 447-60	3.7	63
19	Identification of a spin-coupled Mo(III) in the nitrogenase irontholybdenum cofactor. <i>Chemical Science</i> , <b>2014</b> , 5, 3096-3103	9.4	131
18	Density Functional Study of Interactions between Fluorinated Cyclohexanes and Arenes. <i>Helvetica Chimica Acta</i> , <b>2014</b> , 97, 797-807	2	4
17	High-resolution molybdenum K-edge X-ray absorption spectroscopy analyzed with time-dependent density functional theory. <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 20911-20	3.6	58
16	Conformational properties of 1-methyl-1-germacyclohexane: low-temperature NMR and quantum chemical calculations. <i>Structural Chemistry</i> , <b>2013</b> , 24, 769-774	1.8	5
15	Electric field gradients of transition metal complexes: Basis set uncontraction and scalar relativistic effects. <i>Chemical Physics Letters</i> , <b>2013</b> , 559, 112-116	2.5	2
14	Conformational Properties of 1-Halogenated-1-Silacyclohexanes, CHSiHX (X = Cl, Br, I): Gas Electron Diffraction, Low-Temperature NMR, Temperature-Dependent Raman Spectroscopy, and Quantum-Chemical Calculations. <i>Organometallics</i> , <b>2013</b> , 32, 6996-7005	3.8	24
13	Modelling zwitterions in solution: 3-fluoro-Eminobutyric acid (3F-GABA). <i>Chemistry - A European Journal</i> , <b>2012</b> , 18, 184-95	4.8	11
12	Modeling Molecular Crystals by QM/MM: Self-Consistent Electrostatic Embedding for Geometry Optimizations and Molecular Property Calculations in the Solid. <i>Journal of Chemical Theory and Computation</i> , <b>2012</b> , 8, 498-508	6.4	32
11	Conformational energies of silacyclohexanes C5H10SiHMe, C5H10SiH(CF3) and C5H10SiCl(SiCl3) from variable temperature Raman spectra. <i>Journal of Raman Spectroscopy</i> , <b>2012</b> , 43, 1337-1342	2.3	18
10	High-affinity, selective [ligands of the 1,2,3,4-tetrahydro-1,4Rsilaspiro[naphthalene-1,4Rpiperidine] type: syntheses, structures, and pharmacological properties. <i>ChemMedChem</i> , <b>2012</b> , 7, 523-32	3.7	19
9	Gas phase structures, energetics, and potential energy surfaces of disilacyclohexanes. <i>Journal of Physical Chemistry A</i> , <b>2011</b> , 115, 10000-8	2.8	11
8	(51)V NMR parameters of VOCl(3): static and dynamic density functional study from the gas phase to the bulk. <i>Physical Chemistry Chemical Physics</i> , <b>2011</b> , 13, 619-27	3.6	16
7	Electric field gradients of transition metal complexes from density functional theory: assessment of functionals, geometries and basis sets. <i>Dalton Transactions</i> , <b>2010</b> , 39, 5319-24	4.3	19
6	Conformational properties of 1-silyl-1-silacyclohexane, C(5)H(10)SiHSiH(3): gas electron diffraction, low-temperature NMR, temperature-dependent Raman spectroscopy, and quantum chemical calculations (%). Journal of Physical Chemicter A 2010, 114, 2137-35.	2.8	38

## LIST OF PUBLICATIONS

5	NMR Spectroscopic and Theoretical Analysis of a Spontaneously Formed LysAsp Isopeptide Bond. <i>Angewandte Chemie</i> , <b>2010</b> , 122, 8599-8603	3.6	7
4	NMR spectroscopic and theoretical analysis of a spontaneously formed Lys-Asp isopeptide bond. <i>Angewandte Chemie - International Edition</i> , <b>2010</b> , 49, 8421-5	16.4	70
3	A phenomenological relationship between molecular geometry change and conformational energy change. <i>Journal of Molecular Structure</i> , <b>2010</b> , 978, 14-19	3.4	24
2	Conformational properties of 1-fluoro-1-methyl-silacyclohexane and 1-methyl-1-trifluoromethyl-1-silacyclohexane: Gas electron diffraction, low-temperature NMR, temperature-dependent Raman spectroscopy, and quantum chemical calculations. <i>Journal of</i>	3.4	31
1	Conformational properties of six-membered heterocycles: accurate relative energy differences with DFT, the importance of dispersion interactions and silicon substitution effects. <i>Physical Chemistry Chemical Physics</i> , <b>2009</b> , 11, 8689-97	3.6	53