

Oddur Ingolfsson

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.

110
papers

1,761
citations

22
h-index

37
g-index

115
ext. papers

1,896
ext. citations

3.2
avg, IF

4.58
L-index

#	Paper	IF	Citations
110	Low-energy electron interaction and focused electron beam-induced deposition of molybdenum hexacarbonyl (Mo(CO)) ₆ . <i>Beilstein Journal of Nanotechnology</i> , 2022 , 13, 182-191	3	0
109	Extreme Ultraviolet-Printability and Mechanistic Studies of Engineered Hydrogen Silsesquioxane Photoresist Systems. <i>ACS Applied Polymer Materials</i> , 2021 , 3, 1964-1972	4.3	0
108	Electron-Transfer-Induced Side-Chain Cleavage in Tryptophan Facilitated through Potassium-Induced Transition-State Stabilization in the Gas Phase. <i>Journal of Physical Chemistry A</i> , 2021 , 125, 2324-2333	2.8	2
107	Relative cross sections and appearance energies in electron impact ionization and dissociation of mono-halogenated biphenyls. <i>International Journal of Mass Spectrometry</i> , 2021 , 459, 116452	1.9	1
106	Electron-induced fragmentation mechanisms in organic monomers and their implications for photoresist optimization for EUV lithography. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 9228-9234	3.6	1
105	The Role of Low-Energy Electron Interactions in cis-Pt(CO)Br Fragmentation. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	1
104	Dissociation of the FEBID precursor cis-Pt(CO)Cl driven by low-energy electrons. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 6100-6108	3.6	7
103	Electron-Induced Reactions of Ru(CO) ₄ I ₂ : Gas Phase, Surface, and Electron Beam-Induced Deposition. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 10593-10604	3.8	7
102	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> , 2019 , 21, 4556-4567	3.6	4
101	A dynamical (e,2e) investigation into the ionization of the outermost orbitals of R-carvone. <i>Journal of Chemical Physics</i> , 2019 , 151, 124306	3.9	5
100	Dissociative ionization of the potential focused electron beam induced deposition precursor allyl ruthenium(II) tricarbonyl bromide, a combined theoretical and experimental study. <i>European Physical Journal D</i> , 2019 , 73, 1	1.3	5
99	Low Energy Electron-Induced Dissociation 2019 , 47-120		5
98	Electron induced surface reactions of (EtCp)Fe(CO)Mn(CO), a potential heterobimetallic precursor for focused electron beam induced deposition (FEBID). <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 7862-7874	3.6	16
97	Low energy electron-induced decomposition of (EtCp)Fe(CO)Mn(CO), a potential bimetallic precursor for focused electron beam induced deposition of alloy structures. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 5644-5656	3.6	8
96	Electron Induced Surface Reactions of HFeCo ₃ (CO) ₁₂ , a Bimetallic Precursor for Focused Electron Beam Induced Deposition (FEBID). <i>Journal of Physical Chemistry C</i> , 2018 , 122, 2648-2660	3.8	17
95	Negative ion formation through dissociative electron attachment to the group IV tetrachlorides: Carbon tetrachloride, silicon tetrachloride and germanium tetrachloride. <i>International Journal of Mass Spectrometry</i> , 2018 , 426, 12-28	1.9	7
94	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> , 2018 , 9, 555-579	3	12

93	An experimental and theoretical investigation into the electronically excited states of para-benzoquinone. <i>Journal of Chemical Physics</i> , 2017 , 146, 184303	3.9	12
92	Low energy electron-induced decomposition of (ECH)Ru(CO)Br, a potential focused electron beam induced deposition precursor with a heteroleptic ligand set. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 13264-13271	3.6	15
91	Formation and decay of negative ion states up to 11 eV above the ionization energy of the nanofabrication precursor HFeCo(CO). <i>Chemical Science</i> , 2017 , 8, 5949-5952	9.4	16
90	A combined gas phase and surface study on electron induced decomposition of the heteronuclear FEBID precursor; CpFe(CO)2Mn(CO)5. <i>Journal of Physics: Conference Series</i> , 2017 , 875, 062039	0.3	
89	Amplified cross-linking efficiency of self-assembled monolayers through targeted dissociative electron attachment for the production of carbon nanomembranes. <i>Beilstein Journal of Nanotechnology</i> , 2017 , 8, 2562-2571	3	6
88	Electron beam induced deposition of silacyclohexane and dichlorosilacyclohexane: the role of dissociative ionization and dissociative electron attachment in the deposition process. <i>Beilstein Journal of Nanotechnology</i> , 2017 , 8, 2376-2388	3	1
87	Electron induced fragmentation and deposit formation from nano-meter thin surface layers of HFeCo3(CO)12 adsorbed on gold surfaces.. <i>Journal of Physics: Conference Series</i> , 2017 , 875, 062041	0.3	1
86	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> , 2017 , 875, 062040	0.3	
85	Pt(CO)2Cl2 fragmentation upon low energy electron interactions. <i>Journal of Physics: Conference Series</i> , 2017 , 875, 062035	0.3	1
84	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> , 2017 , 121, 5580-5585	2.8	0
83	Electron impact ionization dynamics of para-benzoquinone. <i>Journal of Chemical Physics</i> , 2016 , 145, 164306	9.9	19
82	Computational study of dissociative electron attachment to allyl ruthenium (II) tricarbonyl bromide. <i>European Physical Journal D</i> , 2016 , 70, 1	1.3	7
81	Structure and energetics in dissociative electron attachment to HFeCo3(CO)12. <i>European Physical Journal D</i> , 2016 , 70, 1	1.3	15
80	Side chain effects in reactions of the potassium-tyrosine charge transfer complex. <i>Chemical Physics Letters</i> , 2016 , 662, 19-24	2.5	8
79	Dissociative electron attachment to bromotrifluoromethane. <i>International Journal of Mass Spectrometry</i> , 2015 , 387, 78-82	1.9	1
78	Focused Electron Beam Induced Deposition of 1,1-dichloro-1-silacyclohexane, silacyclohexane and 1,3,5-trisilacyclohexane; preliminary study on the role of low energy secondary electrons in the deposition process. <i>Journal of Physics: Conference Series</i> , 2015 , 635, 072088	0.3	1
77	The role of low-energy electrons in focused electron beam induced deposition: four case studies of representative precursors. <i>Beilstein Journal of Nanotechnology</i> , 2015 , 6, 1904-26	3	103
76	Velocity slice imaging study on dissociative electron attachment to CF4. <i>European Physical Journal D</i> , 2014 , 68, 1	1.3	4

75	Dissociative electron attachment and dissociative ionization of 1,1-dichloro-1-silacyclohexane and silacyclohexane. <i>International Journal of Mass Spectrometry</i> , 2014 , 370, 39-43	1.9	5
74	Dissociative electron attachment to the complexation ligands hexafluoroacetylacetone, trifluoroacetylacetone and acetylacetone; a comparative experimental and theoretical study. <i>RSC Advances</i> , 2014 , 4, 33222-33235	3.7	8
73	Influence of metal ion complexation on the metastable fragmentation of DNA hexamers. <i>European Physical Journal D</i> , 2014 , 68, 1	1.3	1
72	Dissociative electron attachment to titanium tetrachloride and titanium tetraisopropoxide. <i>European Physical Journal D</i> , 2014 , 68, 1	1.3	24
71	Negative ion formation through dissociative electron attachment to the group IV tetrabromides: Carbon tetrabromide, silicon tetrabromide and germanium tetrabromide. <i>International Journal of Mass Spectrometry</i> , 2014 , 365-366, 275-280	1.9	6
70	State Selectivity and Dynamics in Dissociative Electron Attachment to CF ₃ I Revealed through Velocity Slice Imaging. <i>Angewandte Chemie</i> , 2014 , 126, 12247-12250	3.6	2
69	State selectivity and dynamics in dissociative electron attachment to CF ₃ I revealed through velocity slice imaging. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 12051-4	16.4	10
68	Dynamical (e,2e) investigations of structurally related cyclic ethers. <i>Journal of Physics: Conference Series</i> , 2014 , 488, 052004	0.3	
67	Elastic differential cross sections for C ₆ H ₆ isomers in the 1.5-200 eV energy electron impact: similarities with six fluorine containing molecules and evidence of F-atom like scattering. <i>Journal of Chemical Physics</i> , 2014 , 141, 124302	3.9	8
66	Low energy positron interactions with uracil--total scattering, positronium formation, and differential elastic scattering cross sections. <i>Journal of Chemical Physics</i> , 2014 , 141, 034306	3.9	22
65	Dissociative electron attachment to hexafluoroacetylacetone and its bidentate metal complexes M(hfac) ₂ ; M = Cu, Pd. <i>Journal of Chemical Physics</i> , 2013 , 138, 234309	3.9	26
64	Quantum superposition of target and product states in reactive electron scattering from CF ₄ revealed through velocity slice imaging. <i>Physical Review Letters</i> , 2013 , 111, 063201	7.4	16
63	Stabilization, fragmentation and rearrangement reactions in low-energy electron interaction with tetrafluoro-para-benzoquinone: a combined theoretical and experimental study. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 16758-67	3.6	15
62	Molecular rearrangement reactions in the gas phase triggered by electron attachment. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 4754-66	3.6	19
61	An experimental and theoretical study on structural parameters and energetics in ionization and dissociation of cobalt tricarbonyl nitrosyl. <i>International Journal of Mass Spectrometry</i> , 2013 , 356, 24-32	1.9	11
60	Dynamical (e,2e) investigations of tetrahydrofuran and tetrahydrofurfuryl alcohol as DNA analogues. <i>Chemical Physics Letters</i> , 2013 , 572, 32-37	2.5	37
59	Negative ion formation through dissociative electron attachment to the group IV tetrafluorides: Carbon tetrafluoride, silicon tetrafluoride and germanium tetrafluoride. <i>International Journal of Mass Spectrometry</i> , 2013 , 339-340, 45-53	1.9	21
58	Absolute cross sections for dissociative electron attachment and dissociative ionization of cobalt tricarbonyl nitrosyl in the energy range from 0 eV to 140 eV. <i>Journal of Chemical Physics</i> , 2013 , 138, 044303	3.9	44

57	NCO(-), a key fragment upon dissociative electron attachment and electron transfer to pyrimidine bases: site selectivity for a slow decay process. <i>Journal of the American Society for Mass Spectrometry</i> , 2013 , 24, 1787-97	3.5	46
56	Metastable fragmentation of a thymidine-nucleotide and its components. <i>International Journal of Mass Spectrometry</i> , 2012 , 313, 15-20	1.9	10
55	Negative ion formation mechanism and velocity distribution in laser desorption/ionization of C60. <i>European Physical Journal D</i> , 2012 , 66, 1	1.3	1
54	Gas phase low energy electron induced decomposition of the focused electron beam induced deposition (FEBID) precursor trimethyl (methylcyclopentadienyl) platinum(IV) (MeCpPtMe3). <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 14611-8	3.6	49
53	Chemical control through dissociative electron attachment I A study on pentafluorotoluene, pentafluoroaniline and pentafluorophenol. <i>Chemical Physics Letters</i> , 2012 , 539-540, 7-10	2.5	7
52	Metastable decay of DNA components and their compositions I a perspective on the role of reactive electron scattering in radiation damage. <i>European Physical Journal D</i> , 2012 , 66, 1	1.3	13
51	Cross section data sets for electron collisions with H2, O2, CO, CO2, N2O and H2O. <i>European Physical Journal D</i> , 2012 , 66, 1	1.3	47
50	Dissociative electron attachment to CF3Cl. <i>European Physical Journal D</i> , 2012 , 66, 1	1.3	11
49	Mass spectrometric study on sodium ion induced central nucleotide deletion in the gas phase. <i>Journal of the American Society for Mass Spectrometry</i> , 2012 , 23, 690-8	3.5	3
48	Dissociative electron attachment to CF4 probed by Velocity Slice Imaging. <i>Journal of Physics: Conference Series</i> , 2012 , 388, 052017	0.3	1
47	Velocity Slice Imaging of X fragments from CF3X (X=Cl, Br and I) upon Dissociative Electron Attachment. <i>Journal of Physics: Conference Series</i> , 2012 , 388, 052018	0.3	
46	Electron induced reactions in gas phase MeCpPtMe3 and Pd(hfac)2. <i>Journal of Physics: Conference Series</i> , 2012 , 388, 052019	0.3	3
45	On the role of electron-driven processes in planetary and cometary atmospheres. <i>Journal of Physics: Conference Series</i> , 2012 , 399, 012018	0.3	1
44	Bond formations and rearrangement reactions in DEA experiments. <i>Journal of Physics: Conference Series</i> , 2012 , 388, 052020	0.3	
43	A study of electron scattering from benzene: excitation of the 1B1u, 3E2g, and 1E1u electronic states. <i>Journal of Chemical Physics</i> , 2011 , 134, 134308	3.9	24
42	Fast and metastable fragmentation of deprotonated d-fructose I a combined experimental and computational study. <i>International Journal of Mass Spectrometry</i> , 2011 , 305, 50-57	1.9	9
41	Die Rolle dissoziativer Elektronenanlagerung in Prozessierungsverfahren mit fokussierten Elektronenstrahlen I eine Fallstudie an Tricarbonyl(nitrosyl)cobalt. <i>Angewandte Chemie</i> , 2011 , 123, 9647-9649	3.6	2
40	The role of dissociative electron attachment in focused electron beam induced processing: a case study on cobalt tricarbonyl nitrosyl. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 9475-7	16.4	50

39	Cover Picture: The Role of Dissociative Electron Attachment in Focused Electron Beam Induced Processing: A Case Study on Cobalt Tricarbonyl Nitrosyl (Angew. Chem. Int. Ed. 40/2011). <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 9213-9213	16.4	1
38	Experimental and theoretical study of the metastable decay of negatively charged nucleosides in the gas phase. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 15283-90	3.6	18
37	Substitution effects in elastic electron collisions with CH ₃ X (X=F, Cl, Br, I) molecules. <i>Journal of Chemical Physics</i> , 2010 , 132, 074309	3.9	31
36	Resonant vibrational excitation of CH ₃ X (X = F, Cl, Br and I) by low-energy electron impact. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2010 , 43, 065205	1.3	10
35	A-band methyl halide dissociation via electronic curve crossing as studied by electron energy loss spectroscopy. <i>Journal of Chemical Physics</i> , 2010 , 133, 054304	3.9	12
34	Benchmark Integral Cross Sections for Electron Impact Excitation of the n = 2 States in Helium. <i>Plasma Science and Technology</i> , 2010 , 12, 348-352	1.5	4
33	A detailed study on the decomposition pathways of the amino acid valine upon dissociative electron attachment. <i>European Physical Journal D</i> , 2010 , 60, 37-44	1.3	21
32	Cross sections for electron impact excitation of the C (1)Pi and D (1)Sigma(+) electronic states in N(2)O. <i>Journal of Chemical Physics</i> , 2009 , 131, 114307	3.9	28
31	Benchmark differential cross sections for electron impact excitation of the n= 2 states in helium at near-ionization- threshold energies. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2009 , 42, 145202	1.3	10
30	Fragmentation of deprotonated d-ribose and d-fructose in MALDI: Comparison with dissociative electron attachment. <i>International Journal of Mass Spectrometry</i> , 2009 , 280, 190-197	1.9	13
29	Sodium controlled selective reactivity of protonated deoxy-oligonucleotides in the gas phase. <i>Journal of the American Society for Mass Spectrometry</i> , 2009 , 20, 689-96	3.5	6
28	Reactions in gas phase and condensed phase C ₆ F ₅ X (X = NCO, CH ₂ CN) triggered by low energy electrons. <i>Physical Chemistry Chemical Physics</i> , 2009 , 11, 5323-30	3.6	5
27	Low energy (0-12 eV) electron interaction with gas phase building blocks of DNA/RNA. <i>Journal of Physics: Conference Series</i> , 2008 , 115, 012008	0.3	
26	Simulations of the fragmentation of the [V-H] ⁻ anions as formed upon DEA to L-valine. <i>Journal of Physics: Conference Series</i> , 2008 , 115, 012014	0.3	2
25	Metastable decay of deprotonated deoxynucleosides in matrix assisted laser desorption/ionization.. <i>Journal of Physics: Conference Series</i> , 2008 , 101, 012017	0.3	
24	From isolated molecules through clusters and condensates to the building blocks of life. <i>International Journal of Mass Spectrometry</i> , 2008 , 277, 4-25	1.9	101
23	Combined experimental and theoretical study on the nature and the metastable decay pathways of the amino acid ion fragment [M-H] ⁻ . <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 8057-9	16.4	46
22	Combined Experimental and Theoretical Study on the Nature and the Metastable Decay Pathways of the Amino Acid Ion Fragment [M-H] ⁻ . <i>Angewandte Chemie</i> , 2007 , 119, 8203-8205	3.6	1

21	Decomposition of propionyl chloride triggered by slow electrons. <i>Chemical Physics Letters</i> , 2007 , 442, 270-274	2.5	3
20	Dissociative electron attachment to gas phase glycine: exploring the decomposition pathways by mass separation of isobaric fragment anions. <i>Physical Chemistry Chemical Physics</i> , 2007 , 9, 5680-5	3.6	41
19	Energy selective excision of CN- following electron attachment to hexafluoroacetone azine ((CF ₃) ₂ C=N-N=C(CF ₃) ₂). <i>Physical Chemistry Chemical Physics</i> , 2007 , 9, 2983-90	3.6	25
18	Effective quenching of fragment formation in negative ion oligonucleotide matrix-assisted laser desorption/ionization mass spectrometry through sodium adduct formation. <i>Rapid Communications in Mass Spectrometry</i> , 2006 , 20, 3498-502	2.2	19
17	Dissociative electron attachment to gas phase valine: a combined experimental and theoretical study. <i>Journal of Chemical Physics</i> , 2006 , 125, 204301	3.9	74
16	Electron attachment time-of-flight mass spectrometry reveals fcc bulk-like packing in CO ₂ aggregates. <i>Chemical Physics Letters</i> , 2002 , 360, 415-421	2.5	9
15	Electron attachment time-of-flight mass spectrometry reveals geometrical shell closings in van der Waals aggregates. <i>Journal of Chemical Physics</i> , 2002 , 117, 3721-3732	3.9	17
14	Laser desorption electron attachment time-of-flight mass spectrometry: a new approach to detection of involatile compounds. <i>Journal of the American Society for Mass Spectrometry</i> , 2001 , 12, 1339-47	3.5	8
13	Bridging the cluster-to-bulk divide: electron attachment time-of-flight mass spectrometry reveals geometrical shell closings in (SF ₆) _n clusters (n = 2 - 550). <i>Physical Review Letters</i> , 2001 , 87, 183401	7.4	10
12	Energy-resolved collision-induced dissociation of Cu _n ⁺ (n=2-9): Stability and fragmentation pathways. <i>Journal of Chemical Physics</i> , 2000 , 112, 4613-4620	3.9	57
11	Stabilization of transient negative ions by vibrational energy transfer: A cluster and thin film study on SF ₆ and C ₆ F ₆ . <i>Journal of Chemical Physics</i> , 2000 , 112, 9046-9051	3.9	9
10	Energy-resolved collision-induced dissociation of Al _n ⁺ clusters (n=2-11) in the center of mass energy range from few hundred meV to 10 eV. <i>Journal of Chemical Physics</i> , 1999 , 110, 4382-4393	3.9	19
9	Electronic shell model contemplation of the dissociation dynamics of Al ₈ ⁺ : a collision-induced dissociation study. <i>Chemical Physics Letters</i> , 1999 , 311, 421-427	2.5	
8	Medium enhanced, electron stimulated desorption of CF ₃ from condensed CF ₃ I. <i>Chemical Physics Letters</i> , 1998 , 296, 208-214	2.5	35
7	Formation and decay of negative ion resonances in gaseous and condensed molecules. <i>International Reviews in Physical Chemistry</i> , 1996 , 15, 133-151	7	20
6	Strong Solvation Effects in the Reactivity of C ₆ F ₅ X ⁻ Anions (X = Cl, Br, I). Competition between Dissociative and Associative Processes Following Electron Capture. <i>Zeitschrift Fur Physikalische Chemie</i> , 1996 , 195, 217-236	3.1	13
5	The reactivity of slow electrons with molecules at different degrees of aggregation: gas phase, clusters and condensed phase. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1996 , 155, 1-68		141
4	Effective intermolecular relaxation in (C ₆ F ₆) _n clusters: mechanism of C ₆ F ₆ ⁻ formation on low energy electron impact. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1995 , 149-150, 79-86		20

- 3 Electron attachment reactions in mixed SF₆/N₂ clusters. *Chemical Physics Letters*, **1995**, 241, 180-184 2.5 11
- 2 Photodetachment from anions in a drift cell. Application to SF₆ at 337 nm. *International Journal of Mass Spectrometry and Ion Processes*, **1994**, 139, 103-110 7
- 1 Anion formation from gaseous and condensed CF₃I on low energy electron impact. *Journal of Chemical Physics*, **1993**, 99, 5141-5150 3.9 53