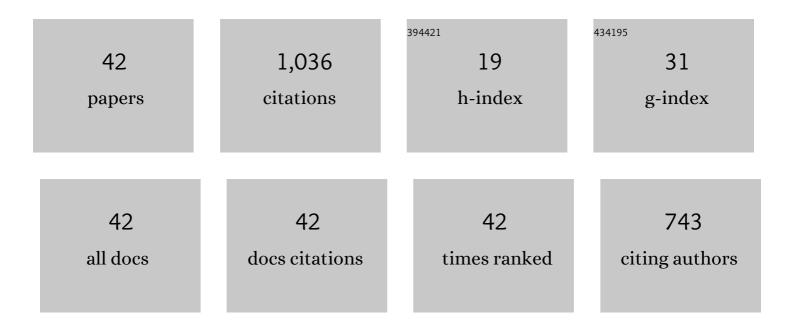
## **Thomas Sommerfeld**

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Complex absorbing potentials in the framework of electron propagator theory. II. Application to temporary anions. Journal of Chemical Physics, 2003, 118, 6188-6199.	3.0	92
2	Model Potential Approaches for Describing the Interaction of Excess Electrons with Water Clusters: Incorporation of Long-Range Correlation Effects. Journal of Physical Chemistry A, 2008, 112, 11021-11035.	2.5	68
3	Efficient method to perform CAP/CI calculations for temporary anions. International Journal of Quantum Chemistry, 2001, 82, 218-226.	2.0	66
4	A Fresh Look at Aromatic Dianions. Journal of the American Chemical Society, 2002, 124, 1119-1124.	13.7	65
5	CAP/SAC-CI method for calculating resonance states of metastable anions. Chemical Physics Letters, 2012, 537, 107-112.	2.6	59
6	Intersections of potential energy surfaces of short-lived states: The complex analogue of conical intersections. Journal of Chemical Physics, 2004, 120, 3201-3214.	3.0	50
7	Lifetimes of Metastable Dianions:Â CN22-, C42-, and CO32 Journal of Physical Chemistry A, 2000, 104, 8806-8813.	2.5	48
8	Complex Absorbing Potentials with Voronoi Isosurfaces Wrapping Perfectly around Molecules. Journal of Chemical Theory and Computation, 2015, 11, 4627-4633.	5.3	43
9	Benchmark Calculations of the Energies for Binding Excess Electrons to Water Clusters. Journal of Chemical Theory and Computation, 2012, 8, 893-900.	5.3	39
10	Doorway mechanism for dissociative electron attachment to fructose. Journal of Chemical Physics, 2007, 126, 124301.	3.0	38
11	Low-Lying π* Resonances of Standard and Rare DNA and RNA Bases Studied by the Projected CAP/SAC–CI Method. Journal of Physical Chemistry A, 2016, 120, 1545-1553.	2.5	36
12	Theoretical approaches for treating non-valence correlation-bound anions. Journal of Chemical Physics, 2017, 147, 214114.	3.0	34
13	Correlation-bound anions of NaCl clusters. Journal of Chemical Physics, 2010, 133, 114301.	3.0	33
14	Excess Electrons Bound to Molecular Systems with a Vanishing Dipole but Large Molecular Quadrupole. Journal of Physical Chemistry A, 2014, 118, 7320-7329.	2.5	31
15	Empirical Correlation Methods for Temporary Anions. Journal of Physical Chemistry A, 2011, 115, 6675-6682.	2.5	28
16	Short-range stabilizing potential for computing energies and lifetimes of temporary anions with extrapolation methods. Journal of Chemical Physics, 2015, 142, 034105.	3.0	28
17	Resonance States of Atomic Di-anions. Physical Review Letters, 2000, 85, 956-959.	7.8	27
18	Electron-induced Chemistry of 5-Chlorouracil. ChemPhysChem, 2001, 2, 677-679.	2.1	24

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19	Excess Electrons Bound to Small Ammonia Clusters. Journal of Physical Chemistry A, 2008, 112, 11817-11823.	2.5	21
20	Projected <scp>CAP</scp> / <scp>SAC</scp> â€ <scp>CI</scp> method with smooth <scp>V</scp> oronoi potential for calculating resonance states. Journal of Computational Chemistry, 2016, 37, 242-249.	3.3	19
21	Characterizing the excess electron of Li(NH3)4. Journal of Chemical Physics, 2012, 137, 244302.	3.0	18
22	Reply to "Comment on â€~Instability of the Al42â^' â€~All-Metal Aromatic' Ion and Its Implications'― of Physical Chemistry A, 2008, 112, 7986-7986.	Journal 2.5	17
23	Low-lying Ï€â^— resonances associated with cyano groups: A CAP/SAC-CI study. Chemical Physics, 2017, 482, 169-177.	1.9	15
24	Combination of a Voronoi-Type Complex Absorbing Potential with the XMS-CASPT2 Method and Pilot Applications. Journal of Chemical Theory and Computation, 2020, 16, 2606-2616.	5.3	14
25	Method for Visualizing and Quantifying the Nonvalence Character of Excess Electrons. Journal of Chemical Theory and Computation, 2013, 9, 4866-4873.	5.3	13
26	CAP/EA-ADC method for metastable anions: Computational aspects and application to <i>ï€</i> * resonances of norbornadiene and 1,4-cyclohexadiene. Journal of Chemical Physics, 2021, 155, 054103.	3.0	13
27	Ring-opening attachment as an explanation for the long lifetime of the octafluorooxolane anion. Journal of Chemical Physics, 2018, 149, 084305.	3.0	10
28	Resonant states in cyanogen NCCN. Physical Chemistry Chemical Physics, 2020, 22, 23141-23147.	2.8	9
29	Computing resonance energies directly: method comparison for a model potential. European Physical Journal D, 2021, 75, 1.	1.3	9
30	Comment on "Ab initio studies of (H2O)14â^' clusters: Existence of surface and interior-bound extra electrons―[J. Chem. Phys. 125, 024307 (2006)]. Journal of Chemical Physics, 2007, 126, 027101.	3.0	7
31	Resonance Energies and Lifetimes from the Analytic Continuation of the Coupling Constant Method: Robust Algorithms and a Critical Analysis. Journal of Chemical Theory and Computation, 2017, 13, 2550-2560.	5.3	7
32	Temporary anion states of fluorine substituted benzenes probed by charge transfer in O2⒒·C6H6⒒ <i>x</i> F <i>x</i> ( <i>x</i> = 0–5) ion–molecule complexes. Journal of Chemical Physics, 2020, 152, 204309.	3.0	7
33	Emerging Nonvalence Anion States of [Isoprene-H·]·H <sub>2</sub> O Accessed via Detachment of OH <sup>–</sup> ·Isoprene. Journal of Physical Chemistry A, 2020, 124, 2279-2287.	2.5	7
34	Autodetachment over Broad Photon Energy Ranges in the Anion Photoelectron Spectra of [O <sub>2</sub> – <b><i>M</i></b> ] <sup>â^'</sup> ( <b><i>M</i></b> = Glyoxal, Methylglyoxal, or) Tj ETQqO	0 <b>Ø.5</b> gBT /	Oværlock 10
35	Synthesis of <i>N</i> â€alkoxybenzimidoyl azides and their reactions in electrophilic media. Journal of Physical Organic Chemistry, 2010, 23, 227-237.	1.9	6

<sup>36</sup> Excluded-volume descriptors for dipole-bound anions: Amine N-oxides as a test case. Journal of Chemical Physics, 2020, 152, 054102.

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#	Article	IF	CITATIONS
37	Al 4 â^ cluster anion: Electronic structure, excited states, and electron detachment. Journal of Chemical Physics, 2010, 132, 124305.	3.0	5
38	Discrete Variable Representation Implementation of the One-Electron Polarization Model. Journal of Chemical Theory and Computation, 2010, 6, 2388-2394.	5.3	5
39	Temporary Anion States of Ethene Interacting with Single Molecules of Methane, Ethane, and Water. Journal of Physical Chemistry A, 2018, 122, 2580-2586.	2.5	5
40	Lifetimes of Be <sub>3</sub> <sup>2–</sup> and Mg <sub>3</sub> <sup>2–</sup> Cluster Dianions. Journal of Physical Chemistry A, 2021, 125, 3579-3588.	2.5	4
41	Al(CN)3â^'6 and Al(NC)3â^'6 trianions. Physical Chemistry Chemical Physics, 2011, 13, 18393.	2.8	3
42	Combined photoelectron, collision-induced dissociation, and computational studies of parent and fragment anions of N-paranitrophenylsulfonylalanine and N-paranitrophenylalanine. Journal of Chemical Physics, 2013, 139, 224308.	3.0	0