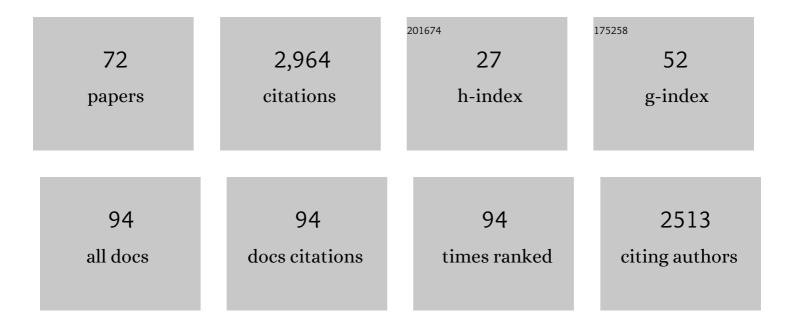
Henrik Ottosson

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/1473792/publications.pdf Version: 2024-02-01



#	Article	IF	CITATIONS
1	Excited State Aromaticity and Antiaromaticity: Opportunities for Photophysical and Photochemical Rationalizations. Chemical Reviews, 2014, 114, 5379-5425.	47.7	353
2	Diindeno-fusion of an anthracene as a design strategy for stable organic biradicals. Nature Chemistry, 2016, 8, 753-759.	13.6	302
3	Exciting excited-state aromaticity. Nature Chemistry, 2012, 4, 969-971.	13.6	164
4	Silylenes, Silenes, and Disilenes: Novel Silicon-Based Reagents for Organic Synthesis?. Chemistry - A European Journal, 2006, 12, 1576-1585.	3.3	160
5	Fulvenes, Fulvalenes, and Azulene:Â Are They Aromatic Chameleons?. Journal of the American Chemical Society, 2004, 126, 13938-13939.	13.7	134
6	The excited state antiaromatic benzene ring: a molecular Mr Hyde?. Chemical Society Reviews, 2015, 44, 6472-6493.	38.1	126
7	Energetics of Baird aromaticity supported by inversion of photoexcited chiral [4n]annulene derivatives. Nature Communications, 2017, 8, 346.	12.8	86
8	Strategies for Design of Potential Singlet Fission Chromophores Utilizing a Combination of Ground-State and Excited-State Aromaticity Rules. Journal of the American Chemical Society, 2020, 142, 5602-5617.	13.7	86
9	Scope and Limitations of Baird's Theory on Triplet State Aromaticity: Application to the Tuning of Singlet–Triplet Energy Gaps in Fulvenes. Chemistry - A European Journal, 2007, 13, 6998-7005.	3.3	80
10	The Missing C ₁ –C ₅ Cycloaromatization Reaction: Triplet State Antiaromaticity Relief and Self-Terminating Photorelease of Formaldehyde for Synthesis of Fulvenes from Enynes. Journal of the American Chemical Society, 2015, 137, 15441-15450.	13.7	67
11	Unraveling factors leading to efficient norbornadiene–quadricyclane molecular solar-thermal energy storage systems. Journal of Materials Chemistry A, 2017, 5, 12369-12378.	10.3	65
12	Excited-state proton transfer relieves antiaromaticity in molecules. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 20303-20308.	7.1	63
13	Impact of Ground―and Excitedâ€State Aromaticity on Cyclopentadiene and Silole Excitation Energies and Excitedâ€State Polarities. Chemistry - A European Journal, 2014, 20, 9295-9303.	3.3	61
14	Tripletâ€State Aromaticity of 4 <i>n</i> Ï€â€Electron Monocycles: Analysis of Bifurcation in the Ï€ Contribution to the Electron Localization Function. ChemPhysChem, 2008, 9, 257-264.	2.1	59
15	Metal-free photochemical silylations and transfer hydrogenations of benzenoid hydrocarbons and graphene. Nature Communications, 2016, 7, 12962.	12.8	58
16	Can Baird's and Clar's Rules Combined Explain Triplet State Energies of Polycyclic Conjugated Hydrocarbons with Fused 4 <i>n</i> Ï€- and (4 <i>n</i> + 2)Ï€-Rings?. Journal of Organic Chemistry, 2017, 82, 6327-6340.	3.2	55
17	Influence of excited state aromaticity in the lowest excited singlet states of fulvene derivatives. Physical Chemistry Chemical Physics, 2011, 13, 12912.	2.8	52
18	Charge transfer through cross-hyperconjugated versus cross-Ï€-conjugated bridges: an intervalence charge transfer study. Chemical Science. 2013. 4. 3522.	7.4	44

HENRIK OTTOSSON

#	Article	IF	CITATIONS
19	Zwitterionic Silenes: Interesting Goals for Synthesis?. Chemistry - A European Journal, 2003, 9, 4144-4155.	3.3	43
20	On the Importance of Clar Structures of Polybenzenoid Hydrocarbons as Revealed by the Ï€-Contribution to the Electron Localization Function. Symmetry, 2010, 2, 1653-1682.	2.2	41
21	Is Excited‣tate Aromaticity a Driving Force for Planarization of Dibenzannelated 8ï€â€Electron Heterocycles?. ChemPlusChem, 2019, 84, 712-721.	2.8	38
22	Benzo[<i>b</i>]thiophene Fusion Enhances Local Borepin Aromaticity in Polycyclic Heteroaromatic Compounds. Journal of Organic Chemistry, 2017, 82, 13440-13448.	3.2	37
23	Impact of Excited-State Antiaromaticity Relief in a Fundamental Benzene Photoreaction Leading to Substituted Bicyclo[3.1.0]hexenes. Journal of the American Chemical Society, 2020, 142, 10942-10954.	13.7	37
24	Unraveling Excited-Singlet-State Aromaticity via Vibrational Analysis. CheM, 2017, 3, 870-880.	11.7	35
25	Tuning the Baird aromatic triplet-state energy of cyclooctatetraene to maximize the self-healing mechanism in organic fluorophores. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 24305-24315.	7.1	35
26	Electron-driven proton transfer relieves excited-state antiaromaticity in photoexcited DNA base pairs. Chemical Science, 2020, 11, 10071-10077.	7.4	32
27	Substituent Effects on the Electron Affinities and Ionization Energies of Tria-, Penta-, and Heptafulvenes: A Computational Investigation. Journal of Organic Chemistry, 2010, 75, 8060-8068.	3.2	30
28	Analysis of a Compound Class with Triplet States Stabilized by Potentially Baird Aromatic [10]Annulenyl Dicationic Rings. Chemistry - A European Journal, 2016, 22, 2793-2800.	3.3	30
29	Excited state character of Cibalackrot-type compounds interpreted in terms of Hückel-aromaticity: a rationale for singlet fission chromophore design. Chemical Science, 2021, 12, 6159-6171.	7.4	30
30	Three-Dimensional Fully π-Conjugated Macrocycles: When 3D-Aromatic and When 2D-Aromatic-in-3D?. Journal of the American Chemical Society, 2022, 144, 8560-8575.	13.7	28
31	A light-switched yin and yang pair. Nature Chemistry, 2015, 7, 373-375.	13.6	25
32	The First Isolable 2-Silenolate. Angewandte Chemie, 2003, 115, 1678-1680.	2.0	24
33	Superior adhesion of graphene nanoscrolls. Communications Physics, 2018, 1, .	5.3	24
34	Exploration of the π-Electronic Structure of Singlet, Triplet, and Quintet States of Fulvenes and Fulvalenes Using the Electron Localization Function. Journal of Physical Chemistry A, 2012, 116, 5008-5017.	2.5	23
35	Aromaticity Changes along the Lowest-Triplet-State Path for Câ∙€ Bond Rotation of Annulenyl-Substituted Olefins Probed by the Electron Localization Function. Journal of Physical Chemistry A, 2009, 113, 12304-12310.	2.5	22
36	Coupling of Disilane and Trisilane Segments Through Zero, One, Two, and Three Disilanyl Bridges in Cyclic and Bicyclic Saturated Carbosilanes. Organometallics, 2013, 32, 396-405.	2.3	22

HENRIK OTTOSSON

#	Article	IF	CITATIONS
37	Whiteâ€Light Photoassisted Covalent Functionalization of Graphene Using 2â€Propanol. Small Methods, 2017, 1, 1700214.	8.6	22
38	Nano-fabrication of molecular electronic junctions by targeted modification of metal-molecule bonds. Scientific Reports, 2015, 5, 14431.	3.3	21
39	Structure–Property Relationships in Unsymmetric Bis(antiaromatics): Who Wins the Battle between Pentalene and Benzocyclobutadiene?. Journal of Organic Chemistry, 2020, 85, 5158-5172.	3.2	19
40	1,4-Disilacyclohexa-2,5-diene: a molecular building block that allows for remarkably strong neutral cyclic cross-hyperconjugation. Chemical Science, 2014, 5, 360-371.	7.4	18
41	Guidelines for Tuning the Excited State Hückel–Baird Hybrid Aromatic Character of Proâ€Aromatic Quinoidal Compounds**. Angewandte Chemie - International Edition, 2021, 60, 10255-10265.	13.8	17
42	Conductance through Carbosilane Cage Compounds: A Computational Investigation. Journal of Physical Chemistry C, 2013, 117, 21692-21699.	3.1	16
43	Triplet state homoaromaticity: concept, computational validation and experimental relevance. Chemical Science, 2018, 9, 3165-3176.	7.4	16
44	Z/E-Photoisomerizations of Olefins with 4nπ- or (4n+ 2)π-Electron Substituents: Zigzag Variations in Olefin Properties along the T1State Energy Surfaces. Journal of Organic Chemistry, 2005, 70, 9495-9504.	3.2	15
45	Optimization of the Cyclic Cross-Hyperconjugation in 1,4-Ditetrelcyclohexa-2,5-dienes. Organometallics, 2014, 33, 2997-3004.	2.3	15
46	Cooperative Gold Nanoparticle Stabilization by Acetylenic Phosphaalkenes. Angewandte Chemie - International Edition, 2015, 54, 10634-10638.	13.8	15
47	An Elementâ€5ubstituted Cyclobutadiene Exhibiting Highâ€Energy Blue Phosphorescence. Angewandte Chemie - International Edition, 2021, 60, 21817-21823.	13.8	15
48	Solution phase, solid state and computational structural studies of the 2-aryl-3-bromoquinolin-4(1H)-one derivatives1. Perkin Transactions II RSC, 2002, , 2159-2164.	1.1	14
49	Polyfulvenes: Polymers with "Handles―That Enable Extensive Electronic Structure Tuning. Journal of Physical Chemistry C, 2015, 119, 25726-25737.	3.1	14
50	Many-body effects and excitonic features in 2D biphenylene carbon. Journal of Chemical Physics, 2016, 144, 024702.	3.0	14
51	The 6,6â€Dicyanopentafulvene Core: A Template for the Design of Electronâ€Acceptor Compounds. Chemistry - A European Journal, 2015, 21, 8168-8176.	3.3	13
52	A Computational Investigation of the Substituent Effects on Geometric, Electronic, and Optical Properties of Siloles and 1,4-Disilacyclohexa-2,5-dienes. Molecules, 2017, 22, 370.	3.8	13
53	Exploiting the Aromatic Chameleon Character of Fulvenes for Computational Design of Bairdâ€Aromatic Triplet Ground State Compounds. Chemistry - an Asian Journal, 2019, 14, 1870-1878.	3.3	13
54	Computational Investigation of Brook-Type Silabenzenes and Their Possible Formation through [1,3]-Si→O Silyl Shifts. Organometallics, 2013, 32, 16-28.	2.3	12

HENRIK OTTOSSON

#	Article	IF	CITATIONS
55	In Search of Flexible Molecular Wires with Near Conformer-Independent Conjugation and Conductance: A Computational Study. Journal of Physical Chemistry C, 2014, 118, 5637-5649.	3.1	12
56	Substituent Effects in Chainâ€Breaking Aryltellurophenol Antioxidants. Chemistry - A European Journal, 2018, 24, 3520-3527.	3.3	12
57	Cyclopropyl Group: An Excitedâ€State Aromaticity Indicator?. Chemistry - A European Journal, 2017, 23, 13684-13695.	3.3	10
58	Triplet State Baird Aromaticity in Macrocycles: Scope, Limitations, and Complications. Journal of Physical Chemistry A, 2021, 125, 570-584.	2.5	10
59	Silene equivalents through the rhodium-catalysed reactions of α-hypersilyl diazoesters: a computational and experimental study. Chemical Science, 2011, 2, 2367.	7.4	9
60	Proton and Hydride Affinities in Excited States: Magnitude Reversals in Proton and Hydride Affinities between the Lowest Singlet and Triplet States of Annulenyl and Benzannulenyl Anions and Cations. Journal of Organic Chemistry, 2010, 75, 2189-2196.	3.2	8
61	Expanding the (cross-)hyperconjugation of 1,4-disilacyclohexa-2,5-dienes to larger monomers and oligomers: a computational investigation. RSC Advances, 2016, 6, 36961-36970.	3.6	8
62	An Elementâ€ 5 ubstituted Cyclobutadiene Exhibiting Highâ€Energy Blue Phosphorescence. Angewandte Chemie, 2021, 133, 21988-21994.	2.0	8
63	Torsional Bias as a Strategy To Tune Singlet–Triplet Gaps in Organic Diradicals. Journal of Physical Chemistry C, 2018, 122, 12148-12157.	3.1	7
64	The Silacyclobutene Ring: An Indicator of Triplet State Baird-Aromaticity. Inorganics, 2017, 5, 91.	2.7	5
65	Degradation of Pharmaceuticals through Sequential Photon Absorption and Photoionization in Amiloride Derivatives. Cell Reports Physical Science, 2020, 1, 100274.	5.6	5
66	Guidelines for Tuning the Excited State Hückel–Baird Hybrid Aromatic Character of Proâ€Aromatic Quinoidal Compounds**. Angewandte Chemie, 2021, 133, 10343-10353.	2.0	3
67	In search of 1,3-disila/germa/stannabicyclo[1.1.1]pentanes with short bridgehead-bridgehead distances and low ring strain energies. Silicon Chemistry, 2007, 3, 165-173.	0.8	2
68	Thermolytic Formation and Trapping of Silenes Strongly Influenced by Reversed Polarization. , 0, , 78-81.		0
69	Thermolytic Formation and Trapping of Silenes Strongly Influenced by Reversed Polarization. , 0, , 375-378.		Ο
70	Innentitelbild: An Element‧ubstituted Cyclobutadiene Exhibiting Highâ€Energy Blue Phosphorescence (Angew. Chem. 40/2021). Angewandte Chemie, 2021, 133, 21766-21766.	2.0	0
71	Thermolytic Formation and Trapping of Silenes Strongly Influenced by Reversed Polarization. , 0, , 78-81.		0
72	Thermolytic Formation and Trapping of Silenes Strongly Influenced by Reversed Polarization. , 0, ,		0

² 375-378.