

Henrik Ottosson

List of Publications by Year in descending order

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2,964
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201674

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175258

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docs citations

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times ranked

2513
citing authors

#	ARTICLE	IF	CITATIONS
1	Three-Dimensional Fully π -Conjugated Macrocycles: When 3D-Aromatic and When 2D-Aromatic-in-3D?. <i>Journal of the American Chemical Society</i> , 2022, 144, 8560-8575.	13.7	28
2	Excited state character of Cibalackrot-type compounds interpreted in terms of H π 4ckel-aromaticity: a rationale for singlet fission chromophore design. <i>Chemical Science</i> , 2021, 12, 6159-6171.	7.4	30
3	Triplet State Baird Aromaticity in Macrocycles: Scope, Limitations, and Complications. <i>Journal of Physical Chemistry A</i> , 2021, 125, 570-584.	2.5	10
4	Guidelines for Tuning the Excited State H π 4ckel-Baird Hybrid Aromatic Character of Pro-Aromatic Quinoidal Compounds**. <i>Angewandte Chemie</i> , 2021, 133, 10343-10353.	2.0	3
5	Guidelines for Tuning the Excited State H π 4ckel-Baird Hybrid Aromatic Character of Pro-Aromatic Quinoidal Compounds**. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 10255-10265.	13.8	17
6	Innentitelbild: An Element-Substituted Cyclobutadiene Exhibiting High-Energy Blue Phosphorescence (<i>Angew. Chem.</i> 40/2021). <i>Angewandte Chemie</i> , 2021, 133, 21766-21766.	2.0	0
7	An Element-Substituted Cyclobutadiene Exhibiting High-Energy Blue Phosphorescence. <i>Angewandte Chemie</i> , 2021, 133, 21988-21994.	2.0	8
8	An Element-Substituted Cyclobutadiene Exhibiting High-Energy Blue Phosphorescence. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 21817-21823.	13.8	15
9	Electron-driven proton transfer relieves excited-state antiaromaticity in photoexcited DNA base pairs. <i>Chemical Science</i> , 2020, 11, 10071-10077.	7.4	32
10	Tuning the Baird aromatic triplet-state energy of cyclooctatetraene to maximize the self-healing mechanism in organic fluorophores. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 24305-24315.	7.1	35
11	Impact of Excited-State Antiaromaticity Relief in a Fundamental Benzene Photoreaction Leading to Substituted Bicyclo[3.1.0]hexenes. <i>Journal of the American Chemical Society</i> , 2020, 142, 10942-10954.	13.7	37
12	Structure-Property Relationships in Unsymmetric Bis(antiaromatics): Who Wins the Battle between Pentalene and Benzocyclobutadiene?. <i>Journal of Organic Chemistry</i> , 2020, 85, 5158-5172.	3.2	19
13	Strategies for Design of Potential Singlet Fission Chromophores Utilizing a Combination of Ground-State and Excited-State Aromaticity Rules. <i>Journal of the American Chemical Society</i> , 2020, 142, 5602-5617.	13.7	86
14	Degradation of Pharmaceuticals through Sequential Photon Absorption and Photoionization in Amiloride Derivatives. <i>Cell Reports Physical Science</i> , 2020, 1, 100274.	5.6	5
15	Excited-state proton transfer relieves antiaromaticity in molecules. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 20303-20308.	7.1	63
16	Exploiting the Aromatic Chameleon Character of Fulvenes for Computational Design of Baird-Aromatic Triplet Ground State Compounds. <i>Chemistry - an Asian Journal</i> , 2019, 14, 1870-1878.	3.3	13
17	Is Excited-State Aromaticity a Driving Force for Planarization of Dibenzannelated 8-Electron Heterocycles?. <i>ChemPlusChem</i> , 2019, 84, 712-721.	2.8	38
18	Triplet state homoaromaticity: concept, computational validation and experimental relevance. <i>Chemical Science</i> , 2018, 9, 3165-3176.	7.4	16

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19	Substituent Effects in Chain-Breaking Aryltellurophenol Antioxidants. <i>Chemistry - A European Journal</i> , 2018, 24, 3520-3527.	3.3	12
20	Torsional Bias as a Strategy To Tune Singlet-Triplet Gaps in Organic Diradicals. <i>Journal of Physical Chemistry C</i> , 2018, 122, 12148-12157.	3.1	7
21	Superior adhesion of graphene nanoscrolls. <i>Communications Physics</i> , 2018, 1, .	5.3	24
22	Can Baird's and Clar's Rules Combined Explain Triplet State Energies of Polycyclic Conjugated Hydrocarbons with Fused 4n- and (4n + 2)-Rings?. <i>Journal of Organic Chemistry</i> , 2017, 82, 6327-6340.	3.2	55
23	Unraveling factors leading to efficient norbornadiene-quadricyclane molecular solar-thermal energy storage systems. <i>Journal of Materials Chemistry A</i> , 2017, 5, 12369-12378.	10.3	65
24	White-Light Photoassisted Covalent Functionalization of Graphene Using 2-Propanol. <i>Small Methods</i> , 2017, 1, 1700214.	8.6	22
25	Unraveling Excited-Singlet-State Aromaticity via Vibrational Analysis. <i>CheM</i> , 2017, 3, 870-880.	11.7	35
26	Energetics of Baird aromaticity supported by inversion of photoexcited chiral [4n]annulene derivatives. <i>Nature Communications</i> , 2017, 8, 346.	12.8	86
27	Cyclopropyl Group: An Excited-State Aromaticity Indicator?. <i>Chemistry - A European Journal</i> , 2017, 23, 13684-13695.	3.3	10
28	Benzo[<i>b</i>]thiophene Fusion Enhances Local Borepin Aromaticity in Polycyclic Heteroaromatic Compounds. <i>Journal of Organic Chemistry</i> , 2017, 82, 13440-13448.	3.2	37
29	The Silacyclobutene Ring: An Indicator of Triplet State Baird-Aromaticity. <i>Inorganics</i> , 2017, 5, 91.	2.7	5
30	A Computational Investigation of the Substituent Effects on Geometric, Electronic, and Optical Properties of Siloles and 1,4-Disilacyclohexa-2,5-dienes. <i>Molecules</i> , 2017, 22, 370.	3.8	13
31	Many-body effects and excitonic features in 2D biphenylene carbon. <i>Journal of Chemical Physics</i> , 2016, 144, 024702.	3.0	14
32	Diindeno-fusion of an anthracene as a design strategy for stable organic biradicals. <i>Nature Chemistry</i> , 2016, 8, 753-759.	13.6	302
33	Expanding the (cross-)hyperconjugation of 1,4-disilacyclohexa-2,5-dienes to larger monomers and oligomers: a computational investigation. <i>RSC Advances</i> , 2016, 6, 36961-36970.	3.6	8
34	Metal-free photochemical silylations and transfer hydrogenations of benzenoid hydrocarbons and graphene. <i>Nature Communications</i> , 2016, 7, 12962.	12.8	58
35	Analysis of a Compound Class with Triplet States Stabilized by Potentially Baird Aromatic [10]Annulenylium Dicationic Rings. <i>Chemistry - A European Journal</i> , 2016, 22, 2793-2800.	3.3	30
36	Cooperative Gold Nanoparticle Stabilization by Acetylenic Phosphaalkenes. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 10634-10638.	13.8	15

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37	Nano-fabrication of molecular electronic junctions by targeted modification of metal-molecule bonds. <i>Scientific Reports</i> , 2015, 5, 14431.	3.3	21
38	Polyfulvenes: Polymers with “Handles” That Enable Extensive Electronic Structure Tuning. <i>Journal of Physical Chemistry C</i> , 2015, 119, 25726-25737.	3.1	14
39	The 6,6-Dicyanopentafulvene Core: A Template for the Design of Electron-Acceptor Compounds. <i>Chemistry - A European Journal</i> , 2015, 21, 8168-8176.	3.3	13
40	A light-switched yin and yang pair. <i>Nature Chemistry</i> , 2015, 7, 373-375.	13.6	25
41	The excited state antiaromatic benzene ring: a molecular Mr Hyde?. <i>Chemical Society Reviews</i> , 2015, 44, 6472-6493.	38.1	126
42	The Missing C ₁ C ₅ Cycloaromatization Reaction: Triplet State Antiaromaticity Relief and Self-Terminating Photorelease of Formaldehyde for Synthesis of Fulvenes from Enynes. <i>Journal of the American Chemical Society</i> , 2015, 137, 15441-15450.	13.7	67
43	Excited State Aromaticity and Antiaromaticity: Opportunities for Photophysical and Photochemical Rationalizations. <i>Chemical Reviews</i> , 2014, 114, 5379-5425.	47.7	353
44	1,4-Disilacyclohexa-2,5-diene: a molecular building block that allows for remarkably strong neutral cyclic cross-hyperconjugation. <i>Chemical Science</i> , 2014, 5, 360-371.	7.4	18
45	Impact of Ground- and Excited-State Aromaticity on Cyclopentadiene and Silole Excitation Energies and Excited-State Polarities. <i>Chemistry - A European Journal</i> , 2014, 20, 9295-9303.	3.3	61
46	Optimization of the Cyclic Cross-Hyperconjugation in 1,4-Ditetrelcyclohexa-2,5-dienes. <i>Organometallics</i> , 2014, 33, 2997-3004.	2.3	15
47	In Search of Flexible Molecular Wires with Near Conformer-Independent Conjugation and Conductance: A Computational Study. <i>Journal of Physical Chemistry C</i> , 2014, 118, 5637-5649.	3.1	12
48	Computational Investigation of Brook-Type Silabenzenes and Their Possible Formation through [1,3]-Si ⁺ O Silyl Shifts. <i>Organometallics</i> , 2013, 32, 16-28.	2.3	12
49	Charge transfer through cross-hyperconjugated versus cross- π -conjugated bridges: an intervalence charge transfer study. <i>Chemical Science</i> , 2013, 4, 3522.	7.4	44
50	Conductance through Carbosilane Cage Compounds: A Computational Investigation. <i>Journal of Physical Chemistry C</i> , 2013, 117, 21692-21699.	3.1	16
51	Coupling of Disilane and Trisilane Segments Through Zero, One, Two, and Three Disilanyl Bridges in Cyclic and Bicyclic Saturated Carbosilanes. <i>Organometallics</i> , 2013, 32, 396-405.	2.3	22
52	Exciting excited-state aromaticity. <i>Nature Chemistry</i> , 2012, 4, 969-971.	13.6	164
53	Exploration of the π -Electronic Structure of Singlet, Triplet, and Quintet States of Fulvenes and Fulvalenes Using the Electron Localization Function. <i>Journal of Physical Chemistry A</i> , 2012, 116, 5008-5017.	2.5	23
54	Influence of excited state aromaticity in the lowest excited singlet states of fulvene derivatives. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 12912.	2.8	52

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55	Silene equivalents through the rhodium-catalysed reactions of $\hat{\pm}$ -hypersilyl diazoesters: a computational and experimental study. <i>Chemical Science</i> , 2011, 2, 2367.	7.4	9
56	On the Importance of Clar Structures of Polybenzenoid Hydrocarbons as Revealed by the $\hat{\text{I}}\hat{\text{E}}$ -Contribution to the Electron Localization Function. <i>Symmetry</i> , 2010, 2, 1653-1682.	2.2	41
57	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. <i>Journal of Organic Chemistry</i> , 2010, 75, 2189-2196.	3.2	8
58	Substituent Effects on the Electron Affinities and Ionization Energies of Tria-, Penta-, and Heptafulvenes: A Computational Investigation. <i>Journal of Organic Chemistry</i> , 2010, 75, 8060-8068.	3.2	30
59	Aromaticity Changes along the Lowest-Triplet-State Path for C-C Bond Rotation of Annulenyl-Substituted Olefins Probed by the Electron Localization Function. <i>Journal of Physical Chemistry A</i> , 2009, 113, 12304-12310.	2.5	22
60	Triplet-State Aromaticity of $4n+2$ -Electron Monocycles: Analysis of Bifurcation in the $\hat{\text{I}}\hat{\text{E}}$ Contribution to the Electron Localization Function. <i>ChemPhysChem</i> , 2008, 9, 257-264.	2.1	59
61	Scope and Limitations of Baird's Theory on Triplet State Aromaticity: Application to the Tuning of Singlet-Triplet Energy Gaps in Fulvenes. <i>Chemistry - A European Journal</i> , 2007, 13, 6998-7005.	3.3	80
62	In search of 1,3-disila/germa/stannabicyclo[1.1.1]pentanes with short bridgehead-bridgehead distances and low ring strain energies. <i>Silicon Chemistry</i> , 2007, 3, 165-173.	0.8	2
63	Silylenes, Silenes, and Disilenes: Novel Silicon-Based Reagents for Organic Synthesis?. <i>Chemistry - A European Journal</i> , 2006, 12, 1576-1585.	3.3	160
64	Z/E-Photoisomerizations of Olefins with $4n\hat{\text{I}}\hat{\text{E}}$ - or $(4n+2)\hat{\text{I}}\hat{\text{E}}$ -Electron Substituents: Zigzag Variations in Olefin Properties along the T1State Energy Surfaces. <i>Journal of Organic Chemistry</i> , 2005, 70, 9495-9504.	3.2	15
65	Fulvenes, Fulvalenes, and Azulene: Are They Aromatic Chameleons?. <i>Journal of the American Chemical Society</i> , 2004, 126, 13938-13939.	13.7	134
66	The First Isolable 2-Silenolate. <i>Angewandte Chemie</i> , 2003, 115, 1678-1680.	2.0	24
67	Zwitterionic Silenes: Interesting Goals for Synthesis?. <i>Chemistry - A European Journal</i> , 2003, 9, 4144-4155.	3.3	43
68	Solution phase, solid state and computational structural studies of the 2-aryl-3-bromoquinolin-4(1H)-one derivatives. <i>Perkin Transactions II RSC</i> , 2002, , 2159-2164.	1.1	14
69	Thermolytic Formation and Trapping of Silenes Strongly Influenced by Reversed Polarization. , 0, , 78-81.		0
70	Thermolytic Formation and Trapping of Silenes Strongly Influenced by Reversed Polarization. , 0, , 375-378.		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, , 375-378.		0