Mogens Brndsted Nielsen

List of Publications by Citations

262 papers	5,609 citations	36 h-index	61 g-index
297 ext. papers	6,235 ext. citations	5.8 avg, IF	5.73 L-index

#	Paper	IF	Citations
262	Tetrathiafulvalenes as building blocks in supramolecular chemistry II. *Chemical Society Reviews*, **2000**, 29, 153-164	58.5	404
261	A Three-Pole Supramolecular Switch. *Journal of the American Chemical Society*, **1999**, 121, 3951-3957	16.4	228
260	Conjugated oligoenynes based on the diethynylethene unit. *Chemical Reviews*, **2005**, 105, 1837-67	68.1	215
259	Tetrathiafulvalene cyclophanes and cage molecules. *Chemical Reviews*, **2004**, 104, 5115-32	68.1	186
258	Binding studies between tetrathiafulvalene derivatives and cyclobis(paraquat-p-phenylene). *Journal of Organic Chemistry*, **2001**, 66, 3559-63	4.2	126
257	Multiple-Bridged Bis-Tetrathiafulvalenes: New Synthetic Protocols and Spectroelectrochemical Investigations. *Journal of the American Chemical Society*, **2000**, 122, 9486-9494	16.4	125
256	Absorption of schiff-base retinal chromophores in vacuo. *Journal of the American Chemical Society*, **2005**, 127, 12347-50	16.4	124
255	Highly functionalized dimeric tetraethynylethenes and expanded radialenes: strong evidence for macrocyclic cross-conjugation. *Chemistry - A European Journal*, **2001**, 7, 3263-80	4.8	78
254	Single-molecule detection of dihydroazulene photo-thermal reaction using break junction technique. *Nature Communications*, **2017**, 8, 15436	17.4	72
253	Ultrathin reduced graphene oxide films as transparent top-contacts for light switchable solid-state molecular junctions. *Advanced Materials*, **2013**, 25, 4164-70	24	68
252	Synthesis of oligo(phenyleneethynylene)-tetrathiafulvalene cruciforms for molecular electronics. *Organic Letters*, **2006**, 8, 1173-6	6.2	67
251	Molecular solar thermal energy storage in photoswitch oligomers increases energy densities and storage times. *Nature Communications*, **2018**, 9, 1945	17.4	66
250	The Glaser–Hay Reaction: Optimization and Scope Based on 13C NMR Kinetics Experiments. *European Journal of Organic Chemistry*, **2013**, 2013, 701-711	3.2	64
249	Towards solar energy storage in the photochromic dihydroazulene-vinylheptafulvene system. *Chemistry - A European Journal*, **2015**, 21, 7454-61	4.8	64
248	Dihydroazulene: from controlling photochromism to molecular electronics devices. *Physical Chemistry Chemical Physics*, **2014**, 16, 21172-82	3.6	63
247	Arylethynyl derivatives of the dihydroazulene/vinylheptafulvene photo/thermoswitch: tuning the switching event. *Journal of the American Chemical Society*, **2010**, 132, 9165-74	16.4	61
246	Optimized synthesis and detailed NMR spectroscopic characterization of the 1,8a-dihydroazulene-1,1-dicarbonitrile photoswitch. *Arkivoc*, **2011**, 2011, 51-67	0.9	59

245	Tetrathiafulvalenophanes and theircatenanes. *Journal of Materials Chemistry*, **1997**, 7, 1175-1187		55
244	The gas-phase absorption spectrum of a neutral GFP model chromophore. *Biophysical Journal*, **2007**, 92, 201-7	2.9	54
243	Novel extended tetrathiafulvalenes based on acetylenic spacers: synthesis and electronic properties. *Chemistry - A European Journal*, **2002**, 8, 3601-13	4.8	53
242	Gas phase absorption studies of photoactive yellow protein chromophore derivatives. *Journal of Physical Chemistry A*, **2009**, 113, 9442-9	2.8	52
241	Light-Triggered Conductance Switching in Single-Molecule Dihydroazulene/Vinylheptafulvene Junctions. *Journal of Physical Chemistry C*, **2011**, 115, 18372-18377	3.8	51
240	Dihydroazulene Photoswitch Operating in Sequential Tunneling Regime: Synthesis and Single-Molecule Junction Studies. *Advanced Functional Materials*, **2012**, 22, 4249-4258	15.6	48
239	A comprehensive study of extended tetrathiafulvalene cruciform molecules for molecular electronics: synthesis and electrical transport measurements. *Journal of the American Chemical Society*, **2014**, 136, 16497-507	16.4	46
238	Computational methodology study of the optical and thermochemical properties of a molecular photoswitch. *Journal of Physical Chemistry A*, **2015**, 119, 896-904	2.8	45
237	Liquid Norbornadiene Photoswitches for Solar Energy Storage. *Advanced Energy Materials*, **2018**, 8, 1703403	24.8	44
236	Evaluating Dihydroazulene/Vinylheptafulvene Photoswitches for Solar Energy Storage Applications. *ChemSusChem*, **2017**, 10, 3049-3055	8.3	44
235	Aromaticity-Controlled Energy Storage Capacity of the Dihydroazulene-Vinylheptafulvene Photochromic System. *Chemistry - A European Journal*, **2016**, 22, 14567-75	4.8	43
234	Synthesis and characteristics of a nonaggregating tris(tetrathiafulvaleno)dodecadehydro[18]annulene. *Chemistry - A European Journal*, **2006**, 12, 8451-9	4.8	42
233	Synthesis and non-linear optical properties of mono-pyrrolotetrathiafulvalene derived donor–acceptor dyads. *Journal of Materials Chemistry*, **2004**, 14, 179-184		42
232	Norbornadiene-Based Photoswitches with Exceptional Combination of Solar Spectrum Match and Long-Term Energy Storage. *Chemistry - A European Journal*, **2018**, 24, 12767-12772	4.8	41
231	Photoabsorption studies of neutral green fluorescent protein model chromophores in vacuo. *Physical Chemistry Chemical Physics*, **2009**, 11, 9996-10002	3.6	40
230	Aromaticity and electron affinity of Carbo(k)-[3]radialenes, k=0, 1, 2. *Chemistry - A European Journal*, **2003**, 9, 5056-66	4.8	38
229	Mixed valence radical cations and intermolecular complexes derived from indenofluorene-extended tetrathiafulvalenes. *Journal of Materials Chemistry C*, **2014**, 2, 10428-10438	7.1	36
228	On the condensed phase ring-closure of vinylheptafulvalene and ring-opening of gaseous dihydroazulene. *Journal of Physical Chemistry A*, **2013**, 117, 3340-7	2.8	36

227	Model systems for understanding absorption tuning by opsin proteins. *Chemical Society Reviews*, **2009**, 38, 913-24	58.5	36
226	Linear free-energy correlations for the vinylheptafulvene ring closure: a probe for Hammett □ values. *Chemistry - A European Journal*, **2013**, 19, 9542-8	4.8	35
225	The art of acetylenic scaffolding: rings, rods, and switches. *Chemical Record*, **2002**, 2, 189-98	6.6	35
224	Synthetic protocols and building blocks for molecular electronics. *Tetrahedron*, **2005**, 61, 12288-12295	2.4	35
223	Macrocycles, pseudorotaxanes and catenanes containing a pyrrolo-tetrathiafulvalene unit: absorption spectra, luminescence properties and redox behavior. *New Journal of Chemistry*, **2001**, 25, 293-298	3.6	35
222	Fulleropyrrolidine end-capped molecular wires for molecular electronics--synthesis, spectroscopic, electrochemical, and theoretical characterization. *Journal of Organic Chemistry*, **2011**, 76, 245-63	4.2	34
221	Gaining Control: Direct Suzuki Arylation of Dihydroazulenes and Tuning of Photo- and Thermochromism. *European Journal of Organic Chemistry*, **2011**, 2011, 1033-1039	3.2	34
220	Two- and Three-Dimensional Tetrathiafulvalene Macrocycles. *Liebigs Annalen*, **1997**, 1997, 2177-2187		34
219	Synthesis and Characterization of Extended Tetrathiafulvalenes with Di-, Tri-, and Tetraethynylethene Cores. *European Journal of Organic Chemistry*, **2005**, 2005, 3660-3671	3.2	34
218	Tetrathiafulvalenenaphthalenophanes: planar chirality and cis/trans photoisomerization. *Journal of Organic Chemistry*, **2000**, 65, 4120-6	4.2	34
217	Molecular junctions based on SAMs of cruciform oligo(phenylene ethynylene)s. *Langmuir*, **2012**, 28, 4016-23	4	33
216	Photochromic Oxazines with Extended Conjugation. *European Journal of Organic Chemistry*, **2009**, 2009, 4333-4339	3.2	33
215	Tetrathiafulvalenes in macrocyclic and supramolecular chemistry. *Pure and Applied Chemistry*, **1997**, 69, 465-470	2.1	33
214	Self-Complexing Tetrathiafulvalene-Based Donor–Acceptor Macrocycles. *European Journal of Organic Chemistry*, **1999**, 1999, 2807-2815	3.2	32
213	A tetrathiafulvalene-functionalized radiaannulene with multiple redox states. *Angewandte Chemie - International Edition*, **2012**, 51, 6099-102	16.4	31
212	Synthesis and characterization of tetrathiafulvalene-substituted di- and tetraethynylethenes with p-nitrophenyl acceptors. *Journal of Organic Chemistry*, **2009**, 74, 375-82	4.2	31
211	Tracking molecular resonance forms of donor-acceptor push-pull molecules by single-molecule conductance experiments. *Nature Communications*, **2015**, 6, 10233	17.4	30
210	Synthesis of Functionalized Dibenzothiophenes – An Efficient Three-Step Approach Based on Pd-Catalyzed C– and C–S Bond Formations. *European Journal of Organic Chemistry*, **2011**, 2011, 53-57	3.2	30

209	Solar Thermal Energy Storage in a Photochromic Macrocycle. *Chemistry - A European Journal*, **2016**, 22, 10796-800	4.8	30
208	Dihydroazulene Photoswitches: The First Synthetic Protocol for Functionalizing the Seven-Membered Ring. *European Journal of Organic Chemistry*, **2009**, 2009, 2733-2736	3.2	29
207	Theoretical Investigation of Substituent Effects on the Dihydroazulene/Vinylheptafulvene Photoswitch: Increasing the Energy Storage Capacity. *Journal of Physical Chemistry A*, **2016**, 120, 9782-9793	2.8	28
206	Controlling two-step multimode switching of dihydroazulene photoswitches. *Chemistry - A European Journal*, **2015**, 21, 3968-77	4.8	28
205	Synthesis and characterization of cruciform-conjugated molecules based on tetrathiafulvalene. *Journal of Organic Chemistry*, **2008**, 73, 3175-83	4.2	28
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202	Absorption spectra of 4-nitrophenolate ions measured in vacuo and in solution. *ChemPhysChem*, **2009**, 10, 1207-9	3.2	27
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200	Tetrathiafulvalene□phenanthroline macrocycles as redox responsive sensors for metal ions. *Chemical Communications*, **2000**, 215-216	5.8	27
199	Syntheses of donor-acceptor-functionalized dihydroazulenes. *Journal of Organic Chemistry*, **2014**, 79, 41-64	4.2	26
198	Modules for Acetylenic Scaffolding. *Synlett*, **2002**, 2002, 0544-0552	2.2	26
197	Molecular Heterojunctions of Oligo(phenylene ethynylene)s with Linear to Cruciform Framework. *Advanced Functional Materials*, **2015**, 25, 1700-1708	15.6	25
196	On the intrinsic optical absorptions by tetrathiafulvalene radical cations and isomers. *Chemical Communications*, **2011**, 47, 6900-2	5.8	25
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194	Photoswitches Containing a Dithiafulvene Electron Donor. *Advanced Functional Materials*, **2007**, 17, 797-804	15.6	25
193	An effective trigger for energy release of vinylheptafulvene-based solar heat batteries. *Chemical Communications*, **2017**, 53, 5874-5877	5.8	24
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191	Interaction-induced negative differential resistance in asymmetric molecular junctions. *Journal of Chemical Physics*, **2011**, 134, 104107	3.9	23
190	On the aromaticity of tetrathiafulvalene cations. *Chemical Physics Letters*, **2008**, 453, 136-139	2.5	23
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185	Synthesis of a criss-cross overlapped tetrathiafulvalenophane and a topologically new [2]catenane. *Journal of the Chemical Society Perkin Transactions 1*, **1998**, 1305-1308		22
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183	Multistate Photoswitches: Macrocyclic Dihydroazulene/Azobenzene Conjugates. *Angewandte Chemie - International Edition*, **2018**, 57, 6069-6072	16.4	21
182	Substitution effects on the absorption spectra of nitrophenolate isomers. *Physical Chemistry Chemical Physics*, **2012**, 14, 12905-11	3.6	21
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177	Perylenediimide--metal ion dyads for photo-induced electron transfer. *Chemical Communications*, **2008**, 1986-8	5.8	20
176	Acetylenic dithiafulvene derived donor□cceptor dyads: synthesis, electrochemistry and non-linear optical properties. *Journal of Materials Chemistry*, **2005**, 15, 2599		20
175	Towards Storage of Solar Energy in Photochromic Molecules: Benzannulation of the Dihydroazulene/Vinylheptafulvene Couple. *ChemPhotoChem*, **2017**, 1, 206-212	3.3	19
174	Donor□cceptor-Functionalized Subphthalocyanines for Dye-Sensitized Solar Cells. *ChemPhotoChem*, **2018**, 2, 976-985	3.3	19

173	Synthesis of radiaannulene oligomers to model the elusive carbon allotrope 6,6,12-graphyne. *Nature Communications*, **2019**, 10, 3714	17.4	19
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169	Photoreaction of matrix-isolated dihydroazulene-functionalized molecules on Au{111}. *Nano Letters*, **2013**, 13, 337-43	11.5	19
168	Manipulation of organic polyradicals in a single-molecule transistor. *Physical Review B*, **2012**, 86,	3.3	19
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164	Synthesis and Properties of Subphthalocyanine-Tetracyanobutadiene-Ferrocene Triads. *Journal of Organic Chemistry*, **2018**, 83, 2227-2234	4.2	18
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161	A tetrathiafulvalene□perylene diimide conjugate prepared via click chemistry. *Tetrahedron Letters*, **2009**, 50, 5613-5616	2	18
160	Aluminum Chloride Mediated Alkynylation of Boron Subphthalocyanine Chloride Using Trimethylsilyl-Capped Acetylenes. *Journal of Organic Chemistry*, **2016**, 81, 1-5	4.2	17
159	On the absorption of the phenolate chromophore in the green fluorescent protein--role of individual interactions. *Chemical Communications*, **2010**, 46, 734-6	5.8	17
158	Donor strength of □extended tetrathiafulvalenes: ionisation energies vs. oxidation potentials. A joint theoretical and experimental study. *Journal of Materials Chemistry*, **2004**, 14, 1768-1773		17
157	Tetrathiafulvalene-containing pseudorotaxanes formed between dibenzylammonium salts and crown ethers. *Tetrahedron*, **2001**, 57, 947-956	2.4	17
156	Fine-tuning the lifetimes and energy storage capacities of meta-stable vinylheptafulvenes via substitution at the vinyl position. *RSC Advances*, **2016**, 6, 49003-49010	3.7	17

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153	Synthetic protocols for the key functionalizations of the photochromic dihydroazulene scaffold. *Arkivoc*, **2014**, 2014, 249-263	0.9	16
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150	Ultra-high pressure synthesis of a tetrathiafulvalene□diquat cyclophane. *Tetrahedron Letters*, **2003**, 44, 2979-2982	2	15
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146	A bis(heptafulvenyl)-dicyanoethylene thermoswitch with two sites for ring closure. *Organic Letters*, **2012**, 14, 318-21	6.2	14
145	Palladium-mediated strategies for functionalizing the dihydroazulene photoswitch: paving the way for its exploitation in molecular electronics. *Journal of Organic Chemistry*, **2013**, 78, 4348-56	4.2	14
144	A Novel Route to a Bromo-Cyano-Substituted Azulene and Its Exploitation in the Construction of an Acetylenic Scaffold. *European Journal of Organic Chemistry*, **2007**, 2007, 1415-1418	3.2	14
143	Tetrathiafulvalene-functionalized triptycenes: synthetic protocols and elucidation of intramolecular Coulomb repulsions in the oxidized species. *Tetrahedron*, **2007**, 63, 8840-8854	2.4	14
142	Synthesis and Characterization of Multinanometer-Sized Expanded Dendralenes with an iso-Poly(triacetylene) Backbone. *Helvetica Chimica Acta*, **2002**, 85, 2169	2	14
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139	Storing energy with molecular photoisomers. *Joule*, **2021**,	27.8	14
138	Acetylenic Scaffolding with Subphthalocyanines. *European Journal of Organic Chemistry*, **2016**, 2016, 17-21	3.2	14

137	Molecular Solar Thermal Energy Storage Systems with Long Discharge Times Based on the Dihydroazulene/Vinylheptafulvene Couple. *European Journal of Organic Chemistry*, **2019**, 2019, 1986-1993	3.2	14
136	Norbornadiene-dihydroazulene conjugates. *Organic and Biomolecular Chemistry*, **2019**, 17, 7735-7746	3.9	13
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129	Novel retinylidene iminium salts for defining opsin shifts: synthesis and intrinsic chromophoric properties. *Organic and Biomolecular Chemistry*, **2006**, 4, 1546-54	3.9	12
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127	Sonogashira-Like Coupling Reactions with Phosphine–Gold(I) Alkynyl Complexes. *Synthesis*, **2016**, 48, 2732-2738	2.9	11
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116	The quest for determining one-electron redox potentials of azulene-1-carbonitriles by calculation. *Physical Chemistry Chemical Physics*, **2018**, 20, 7438-7446	3.6	9
115	β-Cyclodextrin as a mimetic of the natural GFP-chromophore environment. *Tetrahedron Letters*, **2012**, 53, 973-976	2	9
114	Highly fluorescent benzofuran derivatives of the GFP chromophore. *RSC Advances*, **2012**, 2, 8243	3.7	9
113	Synthesis of New TetrathiafulvaleneModules for Acetylenic Scaffolding. *Synlett*, **2003**, 2003, 1423-1426	2.2	9
112	Dialkylated Dihydroazulene and Vinylheptafulvene Derivatives: Synthesis and Switching Properties. *European Journal of Organic Chemistry*, **2017**, 2017, 2932-2939	3.2	8
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