

Joakim AndrÃ©asson

List of Publications by Year in descending order

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Version: 2024-02-01

83
papers

5,693
citations

76326

40
h-index

76900

74
g-index

94
all docs

94
docs citations

94
times ranked

4866
citing authors

#	ARTICLE	IF	CITATIONS
1	Smart molecules at work – mimicking advanced logic operations. <i>Chemical Society Reviews</i> , 2010, 39, 174-188.	38.1	399
2	Molecules with a sense of logic: a progress report. <i>Chemical Society Reviews</i> , 2015, 44, 1053-1069.	38.1	358
3	All-Photonic Multifunctional Molecular Logic Device. <i>Journal of the American Chemical Society</i> , 2011, 133, 11641-11648.	13.7	290
4	Molecular All-Photonic Encoder – Decoder. <i>Journal of the American Chemical Society</i> , 2008, 130, 11122-11128.	13.7	184
5	Photoswitched DNA-Binding of a Photochromic Spiropyran. <i>Journal of the American Chemical Society</i> , 2008, 130, 11836-11837.	13.7	181
6	Data and signal processing using photochromic molecules. <i>Chemical Communications</i> , 2012, 48, 1947-1957.	4.1	175
7	Energy and Photoinduced Electron Transfer in a Wheel-Shaped Artificial Photosynthetic Antenna-Reaction Center Complex. <i>Journal of the American Chemical Society</i> , 2006, 128, 1818-1827.	13.7	173
8	Molecule-Based Photonically Switched Half-Adder. <i>Journal of the American Chemical Society</i> , 2004, 126, 15926-15927.	13.7	170
9	Switching of a photochromic molecule on gold electrodes: single-molecule measurements. <i>Nanotechnology</i> , 2005, 16, 695-702.	2.6	168
10	Molecular 2:1 Digital Multiplexer. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 958-961.	13.8	139
11	All-Photonic Molecular Half-Adder. <i>Journal of the American Chemical Society</i> , 2006, 128, 16259-16265.	13.7	138
12	Molecular AND and INHIBIT Gates Based on Control of Porphyrin Fluorescence by Photochromes. <i>Journal of the American Chemical Society</i> , 2005, 127, 9403-9409.	13.7	135
13	Molecules for security measures: from keypad locks to advanced communication protocols. <i>Chemical Society Reviews</i> , 2018, 47, 2266-2279.	38.1	134
14	Mechanistic Interplay between Light Switching and Guest Binding in Photochromic [Pd ₂ Dithienylethene ₄] Coordination Cages. <i>Journal of the American Chemical Society</i> , 2019, 141, 2097-2103.	13.7	132
15	An All-Photonic Molecular Keypad Lock. <i>Chemistry - A European Journal</i> , 2009, 15, 3936-3939.	3.3	125
16	Information Processing with Molecules – Quo Vadis?. <i>ChemPhysChem</i> , 2013, 14, 28-46.	2.1	114
17	Photochromic Supramolecular Memory With Nondestructive Readout. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 1854-1857.	13.8	111
18	Photonic Switching of Photoinduced Electron Transfer in a Dihydropyrene – Porphyrin – Fullerene Molecular Triad. <i>Journal of the American Chemical Society</i> , 2004, 126, 4803-4811.	13.7	107

#	ARTICLE	IF	CITATIONS
19	A Molecule-Based 1:2 Digital Demultiplexer. <i>Journal of Physical Chemistry C</i> , 2007, 111, 14274-14278.	3.1	91
20	Characterization of the Thermal and Photoinduced Reactions of Photochromic Spiroyrans in Aqueous Solution. <i>Journal of Physical Chemistry B</i> , 2013, 117, 13561-13571.	2.6	90
21	An All-Photonic Molecule-Based D Flip-Flop. <i>Journal of the American Chemical Society</i> , 2011, 133, 20742-20745.	13.7	89
22	An All-Photonic Molecule-Based Parity Generator/Checker for Error Detection in Data Transmission. <i>Journal of the American Chemical Society</i> , 2013, 135, 10230-10233.	13.7	88
23	Photochromic Control of Photoinduced Electron Transfer. Molecular Double-Throw Switch. <i>Journal of the American Chemical Society</i> , 2005, 127, 2717-2724.	13.7	81
24	Photonic Control of Photoinduced Electron Transfer via Switching of Redox Potentials in a Photochromic Moiety. <i>Journal of Physical Chemistry B</i> , 2004, 108, 1812-1814.	2.6	80
25	OFF-ON-OFF Fluorescence Switch with T-Latch Function. <i>Organic Letters</i> , 2011, 13, 5572-5575.	4.6	72
26	An all-photonic full color RGB system based on molecular photoswitches. <i>Nature Communications</i> , 2019, 10, 3996.	12.8	70
27	Design, Synthesis and Inhibitory Activity of Photoswitchable RET Kinase Inhibitors. <i>Scientific Reports</i> , 2015, 5, 9769.	3.3	69
28	Molecular AND-logic for dually controlled activation of a DNA-binding spiropyran. <i>Chemical Communications</i> , 2010, 46, 7130.	4.1	68
29	Molecular Implementation of Sequential and Reversible Logic Through Photochromic Energy Transfer Switching. <i>Chemistry - A European Journal</i> , 2011, 17, 6492-6500.	3.3	67
30	Shining New Light on the Spiropyran Photoswitch: A Photocage Decides between <i>cis</i> or <i>trans</i> or Spiro-Merocyanine Isomerization. <i>Journal of the American Chemical Society</i> , 2018, 140, 14069-14072.	13.7	66
31	Triplet Energy Transfer in Porphyrin Dimers: A Comparison between π - and f -Chromophore Bridged Systems. <i>Journal of the American Chemical Society</i> , 2000, 122, 9844-9845.	13.7	64
32	Enantioselective Cyclization of Photochromic Dithienylethenes Bound to DNA. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 4393-4396.	13.8	61
33	Dynamic and Progressive Control of DNA Origami Conformation by Modulating DNA Helicity with Chemical Adducts. <i>ACS Nano</i> , 2016, 10, 4989-4996.	14.6	61
34	Emission color tuning and white-light generation based on photochromic control of energy transfer reactions in polymer micelles. <i>Chemical Science</i> , 2016, 7, 5867-5871.	7.4	61
35	Electrical Detection of Amine Ligation to a Metalloporphyrin via a Hybrid SOI-MOSFET. <i>Journal of the American Chemical Society</i> , 2008, 130, 2226-2233.	13.7	52
36	Conformational Effects of UV Light on DNA Origami. <i>Journal of the American Chemical Society</i> , 2017, 139, 1380-1383.	13.7	50

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37	Triplet Photophysics of Gold(III) Porphyrins. <i>Journal of Physical Chemistry A</i> , 2005, 109, 1776-1784.	2.5	47
38	A simplicity-guided approach toward molecular setâ€reset memories. <i>New Journal of Chemistry</i> , 2010, 34, 2701.	2.8	45
39	The Photophysical Properties of the Adenine Chromophore. <i>Journal of Physical Chemistry B</i> , 1999, 103, 9782-9789.	2.6	44
40	Large, Tunable, and Reversible pH Changes by Merocyanine Photoacids. <i>Journal of the American Chemical Society</i> , 2021, 143, 20758-20768.	13.7	43
41	Light-stimulated molecular and supramolecular systems for information processing and beyond. <i>Coordination Chemistry Reviews</i> , 2021, 429, 213695.	18.8	42
42	Molecular AND Logic Gate Based on Electric Dichroism of a Photochromic Dihydroindolizine. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 7591-7594.	13.8	41
43	Light-induced cytotoxicity of a photochromic spiropyran. <i>Chemical Communications</i> , 2011, 47, 11020.	4.1	39
44	Improving Fatigue Resistance of Dihydropyrene by Encapsulation within a Coordination Cage. <i>Journal of the American Chemical Society</i> , 2020, 142, 14557-14565.	13.7	39
45	DNAâ€Binding Properties of Amidineâ€Substituted Spiropyran Photoswitches. <i>Chemistry - A European Journal</i> , 2014, 20, 15855-15862.	3.3	37
46	Efficient Non-Radiative Deactivation and Conformational Flexibility of meso-Diaryloctaalkylporphyrins in the Excited Triplet State. <i>Journal of Physical Chemistry A</i> , 2000, 104, 9307-9314.	2.5	36
47	Sterically Induced Conformational Relaxation and Structure of meso-Diaryloctaalkyl Porphyrins in the Excited Triplet State:Â Experimental and DFT Studies. <i>Journal of Physical Chemistry B</i> , 2002, 106, 12613-12622.	2.6	32
48	Visibleâ€Light Photoswitching by Azobenzazoles. <i>Chemistry - A European Journal</i> , 2020, 26, 1103-1110.	3.3	32
49	Temperature and viscosity dependence of the triplet energy transfer process in porphyrin dimers. <i>Photochemical and Photobiological Sciences</i> , 2002, 1, 111-119.	2.9	31
50	Interactions of a Photochromic Spiropyran with Liposome Model Membranes. <i>Langmuir</i> , 2013, 29, 2099-2103.	3.5	31
51	Writing and erasing multicolored information in diarylethene-based supramolecular gels. <i>Chemical Science</i> , 2018, 9, 8019-8023.	7.4	29
52	Storage and Processing of Information Using Molecules: The Allâ€Photonic Approach with Simple and Multiâ€Photochromic Switches. <i>Israel Journal of Chemistry</i> , 2013, 53, 236-246.	2.3	28
53	Synthesis and Photophysical Characterization of Azoheteroarenes. <i>Organic Letters</i> , 2018, 20, 4875-4879.	4.6	27
54	Photoinduced Hole Transfer from the Triplet State in a Porphyrin-Based Donorâ€Bridgeâ€Acceptor System. <i>Journal of Physical Chemistry A</i> , 2003, 107, 8825-8833.	2.5	26

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55	A photoswitchable supramolecular complex with release-and-report capabilities. <i>Chemical Communications</i> , 2015, 51, 847-850.	4.1	26
56	The Gold Porphyrin First Excited Singlet State. <i>Photochemistry and Photobiology</i> , 2002, 76, 47.	2.5	24
57	Switching Properties of a Spiropyran-Cucurbit[7]uril Supramolecular Assembly: Usefulness of the Anchor Approach. <i>ChemPhysChem</i> , 2012, 13, 3691-3699.	2.1	23
58	Three-Input Molecular Keypad Lock Based on a Norbornadiene-Quadracyclane Photoswitch. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 6174-6178.	4.6	23
59	Hydrogen-Bonding Donor-Acceptor Stenhouse Adducts. <i>ChemPhotoChem</i> , 2020, 4, 407-412.	3.0	23
60	Photoinduced electron transfer in a symmetrical diporphyrin-fullerene triad. <i>Physical Chemistry Chemical Physics</i> , 2004, 6, 5509-5515.	2.8	22
61	Light-driven control of the composition of a supramolecular network. <i>Chemical Communications</i> , 2019, 55, 4335-4338.	4.1	22
62	Reversible Energy-Transfer Switching on a DNA Scaffold. <i>Journal of the American Chemical Society</i> , 2015, 137, 2444-2447.	13.7	21
63	On-Command Regulation of Kinase Activity using Photonic Stimuli. <i>ChemPhotoChem</i> , 2019, 3, 318-326.	3.0	19
64	An acido- and photochromic molecular device that mimics triode action. <i>Chemical Communications</i> , 2016, 52, 4659-4662.	4.1	16
65	A simplicity-guided cocktail approach toward multicolor fluorescent systems. <i>Chemical Communications</i> , 2020, 56, 3377-3380.	4.1	16
66	On the use of diarylmaleimide derivatives in biological contexts: An investigation of the photochromic properties in aqueous solution. <i>Dyes and Pigments</i> , 2017, 137, 410-420.	3.7	15
67	Rapid amplitude-modulation of a diarylethene photoswitch: en route to contrast-enhanced fluorescence imaging. <i>Chemical Science</i> , 2021, 12, 7073-7078.	7.4	15
68	Basic-to-acidic reversible pH switching with a merocyanine photoacid. <i>Chemical Communications</i> , 2022, 58, 5610-5613.	4.1	15
69	Acid/Base Switching of the Tautomerism and Conformation of a Dioxoporphyrin for Integrated Binary Subtraction. <i>Chemistry - A European Journal</i> , 2014, 20, 12910-12916.	3.3	14
70	A Caged Ret Kinase Inhibitor and its Effect on Motoneuron Development in Zebrafish Embryos. <i>Scientific Reports</i> , 2015, 5, 13109.	3.3	14
71	Toward Two-Photon Absorbing Dyes with Unusually Potentiated Nonlinear Fluorescence Response. <i>Journal of the American Chemical Society</i> , 2020, 142, 14854-14858.	13.7	14
72	Multi-color emission with orthogonal input triggers from a diarylethene pyrene-OTHO organogelator cocktail. <i>Chemical Communications</i> , 2020, 56, 988-991.	4.1	13

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73	Elucidating DNA binding of dithienylethenes from molecular dynamics and dichroism spectra. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 3637-3643.	2.8	12
74	Diastereoselective Control of Tetraphenylethene Reactivity by Metal Template Self-Assembly. <i>Chemistry - A European Journal</i> , 2019, 25, 5708-5718.	3.3	11
75	8-Triazolylpurines: Towards Fluorescent Inhibitors of the MDM2/p53 Interaction. <i>PLoS ONE</i> , 2015, 10, e0124423.	2.5	11
76	A dihydroindolizine-porphyrin dyad as molecule-based all-photonic AND and NAND gates. <i>Dyes and Pigments</i> , 2011, 89, 284-289.	3.7	10
77	A Fluorescent Kinase Inhibitor that Exhibits Diagnostic Changes in Emission upon Binding. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 15000-15004.	13.8	10
78	One-Time Password Generation and Two-Factor Authentication Using Molecules and Light. <i>ChemPhysChem</i> , 2017, 18, 1726-1729.	2.1	9
79	Design and development of a photoswitchable DFG-out kinase inhibitor. <i>Chemical Communications</i> , 2021, 57, 10043-10046.	4.1	9
80	Design and development of photoswitchable DFG-Out RET kinase inhibitors. <i>European Journal of Medicinal Chemistry</i> , 2022, 234, 114226.	5.5	7
81	The Gold Porphyrin First Excited Singlet State. <i>Photochemistry and Photobiology</i> , 2002, 76, 47-50.	2.5	6
82	A Fluorescent Kinase Inhibitor that Exhibits Diagnostic Changes in Emission upon Binding. <i>Angewandte Chemie</i> , 2019, 131, 15142-15146.	2.0	3
83	Photo-Switched DNA-Binding of a Photochromic Spiropyran. <i>Nucleic Acids Symposium Series</i> , 2008, 52, 675-675.	0.3	1