

# Alberto Credi

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/8400519/alberto-credi-publications-by-year.pdf>

**Version:** 2024-04-26

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

273  
papers

21,208  
citations

66  
h-index

141  
g-index

300  
ext. papers

22,575  
ext. citations

9.1  
avg, IF

6.93  
L-index

#	Paper	IF	Citations
273	4,4'-Dimethylazobenzene as a chemical actinometer.. <i>Photochemical and Photobiological Sciences</i> , <b>2022</b> , 1	4.2	1
272	Light-Driven Molecular Machines <b>2022</b> , 735-784		
271	Mechanically Interlocked Systems: Photoactive Rotaxanes and Catenanes. <i>Springer Handbooks</i> , <b>2022</b> , 585-602	1.3	
270	Heteroditopic Calix[6]arene Based Intervowen and Interlocked Molecular Devices. <i>Chemical Record</i> , <b>2021</b> , 21, 1161-1181	6.6	7
269	Chemically Induced Mismatch of Rings and Stations in [3]Rotaxanes. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 8046-8055	16.4	4
268	Out-of-Equilibrium Threaded and Interlocked Molecular Structures <b>2021</b> , 305-336		1
267	Ruthenium tris(bipyridine) complexes: Interchange between photons and electrons in molecular-scale devices and machines. <i>Coordination Chemistry Reviews</i> , <b>2021</b> , 433, 213758	23.2	6
266	Artificial Supramolecular Pumps Powered by Light. <i>Chemistry - A European Journal</i> , <b>2021</b> , 27, 11076-11083	16.4	6
265	Artificial Supramolecular Pumps Powered by Light. <i>Chemistry - A European Journal</i> , <b>2021</b> , 27, 11019-11028	16.4	6
264	Space Charge Behavior of Quantum Dot-Doped Polystyrene Polymers. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2021</b> , 28, 753-761	2.3	2
263	Second-Generation Light-Fueled Supramolecular Pump. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 10890-10894	16.4	9
262	Light-Controlled Regioselective Synthesis of Fullerene Bis-Adducts. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 313-320	16.4	8
261	Light-Controlled Regioselective Synthesis of Fullerene Bis-Adducts. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 3173-3184	16.4	2
260	Binary logic operations with artificial molecular machines. <i>Coordination Chemistry Reviews</i> , <b>2021</b> , 428, 213589	23.2	11
259	Selective access to constitutionally identical, orientationally isomeric calix[6]arene-based [3]rotaxanes by an active template approach. <i>Chemical Science</i> , <b>2021</b> , 12, 6419-6428	9.4	2
258	Stereodynamics of / isomerization in rotaxanes through mechanical shuttling and covalent bond rotation. <i>CheM</i> , <b>2021</b> , 7, 2137-2150	16.2	2
257	Thioureidocalix[6]arenes Pseudorotaxanes. <i>European Journal of Organic Chemistry</i> , <b>2021</b> , 2021, 5788	3.2	2

- 256 Photochemical Energy Conversion with Artificial Molecular Machines. *Energy & Fuels*, **2021**, 35, 18900-18914
- 255 Hierarchical self-assembly and controlled disassembly of a cavitand-based host-guest supramolecular polymer. *Polymer Chemistry*, **2021**, 12, 389-401 4.9 2
- 254 Direct synthetic routes to functionalised crown ethers. *Organic Chemistry Frontiers*, **2021**, 8, 5531-5549 5.2 6
- 253 Precision Molecular Threading/Dethreading. *Angewandte Chemie*, **2020**, 132, 14935-14944 3.6 3
- 252 Precision Molecular Threading/Dethreading. *Angewandte Chemie - International Edition*, **2020**, 59, 14825-14834 20
- 251 Semiconductor Quantum Dots as Components of Photoactive Supramolecular Architectures. *ChemistryOpen*, **2020**, 9, 200-213 2.3 5
- 250 Photoactivated Artificial Molecular Machines that Can Perform Tasks. *Advanced Materials*, **2020**, 32, e19066 38
- 249 Photoinduced Electron Transfer Involving a Naphthalimide Chromophore in Switchable and Flexible [2]Rotaxanes. *Chemistry - A European Journal*, **2020**, 26, 534-542 4.8 8
- 248 Synthesis and properties of a redox-switchable calix[6]arene-based molecular lasso. *Organic Chemistry Frontiers*, **2020**, 7, 648-659 5.2 6
- 247 Manufacturing at nanoscale **2020**, 41-63
- 246 Improving Fatigue Resistance of Dihydropyrene by Encapsulation within a Coordination Cage. *Journal of the American Chemical Society*, **2020**, 142, 14557-14565 16.4 13
- 245 Photo- and Redox-Driven Artificial Molecular Motors. *Chemical Reviews*, **2020**, 120, 200-268 68.1 186
- 244 Chemical On/Off Switching of Mechanically Planar Chirality and Chiral Anion Recognition in a [2]Rotaxane Molecular Shuttle. *Journal of the American Chemical Society*, **2019**, 141, 9129-9133 16.4 58
- 243 Light-Responsive (Supra)Molecular Architectures: Recent Advances. *Advanced Optical Materials*, **2019**, 7, 1900392 8.1 17
- 242 Threading-gated photochromism in [2]pseudorotaxanes. *Chemical Science*, **2019**, 10, 5104-5113 9.4 12
- 241 Solution and solid state photochromism in a family of shape persistent azobenzene tetramers functionalized with alkyloxy substituents. *Photochemical and Photobiological Sciences*, **2019**, 18, 2281-2286 4.2 2
- 240 New Geometries for Calix[6]arene-Based Rotaxanes. *European Journal of Organic Chemistry*, **2019**, 2019, 3513-3524 3.2 8
- 239 Individual-Molecule Perspective Analysis of Chemical Reaction Networks: The Case of a Light-Driven Supramolecular Pump. *Angewandte Chemie - International Edition*, **2019**, 58, 14341-14348 16.4 19

238	Light on Molecular Devices. <i>ChemPhotoChem</i> , <b>2019</b> , 3, 578-579	3.3	
237	Individual-Molecule Perspective Analysis of Chemical Reaction Networks: The Case of a Light-Driven Supramolecular Pump. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 14479-14486	3.6	4
236	Ultrafast processes triggered by one- and two-photon excitation of a photochromic and luminescent hydrazone. <i>Beilstein Journal of Organic Chemistry</i> , <b>2019</b> , 15, 2438-2446	2.5	4
235	Eine molekulare Seilbahn für den transmembranären Ionentransport. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 4152-4155	3.6	5
234	A Molecular Cable Car for Transmembrane Ion Transport. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 4108-4110	16.4	22
233	Design of photo-activated molecular machines: highlights from the past ten years. <i>Chemical Communications</i> , <b>2019</b> , 55, 12595-12602	5.8	19
232	EPR sensing of metal and organic cations using a novel spin-labelled dibenzo-24-crown-8-ether. <i>Physical Chemistry Chemical Physics</i> , <b>2019</b> , 21, 3558-3563	3.6	3
231	Designed Long-Lived Emission from CdSe Quantum Dots through Reversible Electronic Energy Transfer with a Surface-Bound Chromophore. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 3158-3161	3.6	15
230	Designed Long-Lived Emission from CdSe Quantum Dots through Reversible Electronic Energy Transfer with a Surface-Bound Chromophore. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 3104-3107	16.4	24
229	Making and Operating Molecular Machines: A Multidisciplinary Challenge. <i>ChemistryOpen</i> , <b>2018</b> , 7, 169-179	3.9	57
228	Remote electrochemical modulation of pK in a rotaxane by co-conformational allostery. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, 9385-9390	11.5	24
227	Photochemical investigation of cyanoazobenzene derivatives as components of artificial supramolecular pumps. <i>Photochemical and Photobiological Sciences</i> , <b>2018</b> , 17, 734-740	4.2	11
226	Electrochemically Triggered Co-Conformational Switching in a [2]catenane Comprising a Non-Symmetric Calix[6]arene Wheel and a Two-Station Oriented Macrocyclic. <i>Molecules</i> , <b>2018</b> , 23,	4.8	6
225	Solution and Solid-State Emission Toggling of a Photochromic Hydrazone. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 12323-12327	16.4	49
224	Photoactive Molecular-Based Devices, Machines and Materials: Recent Advances. <i>European Journal of Inorganic Chemistry</i> , <b>2018</b> , 2018, 4589-4603	2.3	13
223	Innenrücktitelbild: Reversible Photoswitching and Isomer-Dependent Diffusion of Single Azobenzene Tetramers on a Metal Surface (Angew. Chem. 46/2018). <i>Angewandte Chemie</i> , <b>2018</b> , 130, 15505-15505	3.6	1
222	Reversible Photoswitching and Isomer-Dependent Diffusion of Single Azobenzene Tetramers on a Metal Surface. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 15254-15259	3.6	11
221	Reversible Photoswitching and Isomer-Dependent Diffusion of Single Azobenzene Tetramers on a Metal Surface. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 15034-15039	16.4	30

220	Plugging a Bipyridinium Axle into Multichromophoric Calix[6]arene Wheels Bearing Naphthyl Units at Different Rims. <i>ChemistryOpen</i> , <b>2017</b> , 6, 64-72	2.3	4
219	Blue-Light-Emitting Triazolopyridinium and Triazoloquinolinium Salts. <i>ChemPhotoChem</i> , <b>2017</b> , 1, 222-229	3.3	4
218	Unconventional Nonlinear Input-Output Response in a Luminescent Molecular Switch by Inner Filtering Effects. <i>ChemPhysChem</i> , <b>2017</b> , 18, 1755-1759	3.2	4
217	Covalent capture of oriented calix[6]arene rotaxanes by a metal-free active template approach. <i>Chemical Communications</i> , <b>2017</b> , 53, 6172-6174	5.8	12
216	Thermodynamic Insights on a Bistable Acid-Base Switchable Molecular Shuttle with Strongly Shifted Co-conformational Equilibria. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 2149-2156	4.8	24
215	Gearing up molecular rotary motors. <i>Science</i> , <b>2017</b> , 356, 906-907	33.3	12
214	An Efficient Method for the Surface Functionalization of Luminescent Quantum Dots with Lipoic Acid Based Ligands. <i>European Journal of Inorganic Chemistry</i> , <b>2017</b> , 2017, 5143-5151	2.3	8
213	Unconventional Nonlinear Input-Output Response in a Luminescent Molecular Switch by Inner Filtering Effects. <i>ChemPhysChem</i> , <b>2017</b> , 18, 1664-1664	3.2	
212	Efficient active-template synthesis of calix[6]arene-based oriented pseudorotaxanes and rotaxanes. <i>Organic and Biomolecular Chemistry</i> , <b>2017</b> , 15, 6753-6763	3.9	13
211	Calixarene Threading by Viologen-Based Axles <b>2016</b> , 761-781		10
210	Dethreading of a Photoactive Azobenzene-Containing Molecular Axle from a Crown Ether Ring: A Computational Investigation. <i>ChemPhysChem</i> , <b>2016</b> , 17, 1913-9	3.2	16
209	Synthesis by ring closing metathesis and properties of an electroactive calix[6]arene [2]catenane. <i>Supramolecular Chemistry</i> , <b>2016</b> , 28, 427-435	1.8	9
208	An Artificial Molecular Transporter. <i>ChemistryOpen</i> , <b>2016</b> , 5, 120-4	2.3	29
207	Light-driven molecular machines based on ruthenium(II) polypyridine complexes: Strategies and recent advances. <i>Coordination Chemistry Reviews</i> , <b>2016</b> , 325, 125-134	23.2	42
206	Synthesis and Characterization of Constitutionally Isomeric Oriented Calix[6]arene-Based Rotaxanes. <i>European Journal of Organic Chemistry</i> , <b>2016</b> , 2016, 1033-1042	3.2	14
205	Structural Changes of a Doubly Spin-Labeled Chemically Driven Molecular Shuttle Probed by PELDOR Spectroscopy. <i>Chemistry - A European Journal</i> , <b>2016</b> , 22, 8745-50	4.8	10
204	Interfacing Luminescent Quantum Dots with Functional Molecules for Optical Sensing Applications. <i>Topics in Current Chemistry</i> , <b>2016</b> , 374, 65	7.2	9
203	Photoinduced reversible switching of porosity in molecular crystals based on star-shaped azobenzene tetramers. <i>Nature Chemistry</i> , <b>2015</b> , 7, 634-40	17.6	188

202	Reactivity of a pyridinium-substituted dimethyldihydropyrene switch under aerobic conditions: self-sensitized photo-oxygenation and thermal release of singlet oxygen. <i>Chemical Communications</i> , <b>2015</b> , 51, 13886-9	5.8	22
201	Luminescent sensors based on quantum dot-molecule conjugates. <i>Chemical Society Reviews</i> , <b>2015</b> , 44, 4275-89	58.5	175
200	Reversible mechanical switching of magnetic interactions in a molecular shuttle. <i>ChemistryOpen</i> , <b>2015</b> , 4, 2	2.3	
199	Light-powered autonomous and directional molecular motion of a dissipative self-assembling system. <i>Nature Nanotechnology</i> , <b>2015</b> , 10, 70-5	28.7	285
198	Reversible mechanical switching of magnetic interactions in a molecular shuttle. <i>ChemistryOpen</i> , <b>2015</b> , 4, 18-21	2.3	19
197	Incorporation of Calix[6]Arene Macrocycles and (Pseudo)Rotaxanes in Bilayer Membranes: Towards Controllable Artificial Liposomal Channels. <i>Asian Journal of Organic Chemistry</i> , <b>2015</b> , 4, 262-270	3	12
196	Light-powered, artificial molecular pumps: a minimalistic approach. <i>Beilstein Journal of Nanotechnology</i> , <b>2015</b> , 6, 2096-104	3	21
195	The eternal youth of azobenzene: new photoactive molecular and supramolecular devices. <i>Pure and Applied Chemistry</i> , <b>2015</b> , 87, 537-545	2.1	33
194	Photodriven [2]rotaxane-[2]catenane interconversion. <i>Chemical Communications</i> , <b>2015</b> , 51, 2810-3	5.8	18
193	Inner filter effects and other traps in quantitative spectrofluorimetric measurements: Origins and methods of correction. <i>Journal of Molecular Structure</i> , <b>2014</b> , 1077, 30-39	3.4	31
192	Photochemically Controlled Molecular Machines with Sequential Logic Operation. <i>Israel Journal of Chemistry</i> , <b>2014</b> , 54, 553-567	3.4	9
191	A highly luminescent tetramer from a weakly emitting monomer: acid- and redox-controlled multiple complexation by cucurbit[7]uril. <i>Chemistry - A European Journal</i> , <b>2014</b> , 20, 7054-60	4.8	10
190	Tailoring of quantum dot emission efficiency by localized surface plasmon polaritons in self-organized mesoscopic rings. <i>Nanoscale</i> , <b>2014</b> , 6, 741-4	7.7	13
189	Light-driven directed proton transport across the liposomal membrane. <i>Langmuir</i> , <b>2014</b> , 30, 13667-72	4	5
188	Light control of stoichiometry and motion in pseudorotaxanes comprising a cucurbit[7]uril wheel and an azobenzene-bipyridinium axle. <i>Chemistry - A European Journal</i> , <b>2014</b> , 20, 10737-44	4.8	33
187	Modulation of the solubility of luminescent semiconductor nanocrystals through facile surface functionalization. <i>Chemical Communications</i> , <b>2014</b> , 50, 11020-2	5.8	6
186	Supramolecular assemblies of semiconductor quantum dots and a bis(bipyridinium) derivative: luminescence quenching and aggregation phenomena. <i>RSC Advances</i> , <b>2014</b> , 4, 29847-29854	3.7	3
185	Synthesis and properties of ZnTe and ZnTe/ZnS core/shell semiconductor nanocrystals. <i>Journal of Materials Chemistry C</i> , <b>2014</b> , 2, 2877-2886	7.1	31

184	Organic nanofibers embedding stimuli-responsive threaded molecular components. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 14245-54	16.4	37
183	Photoinduced electron transfer from [Ru(bpy) <sub>3</sub> ] <sup>2+</sup> to a calix[6]arene-encapsulated viologen electron acceptor. <i>Inorganica Chimica Acta</i> , <b>2014</b> , 417, 258-262	2.7	9
182	Light-operated machines based on threaded molecular structures. <i>Topics in Current Chemistry</i> , <b>2014</b> , 354, 1-34		30
181	Electroactive [2]catenanes. <i>Electrochimica Acta</i> , <b>2014</b> , 140, 467-475	6.7	9
180	Hybrids of semiconductor quantum dot and molecular species for photoinduced functions. <i>Coordination Chemistry Reviews</i> , <b>2014</b> , 263-264, 151-160	23.2	21
179	Light to investigate (read) and operate (write) molecular devices and machines. <i>Chemical Society Reviews</i> , <b>2014</b> , 43, 4068-83	58.5	114
178	Hierarchical self-assembly of amphiphilic calix[6]arene wheels and viologen axles in water. <i>Organic and Biomolecular Chemistry</i> , <b>2013</b> , 11, 5944-53	3.9	12
177	Ruthenium(II) complexes based on tridentate polypyridine ligands that feature long-lived room-temperature luminescence. <i>Chemical Communications</i> , <b>2013</b> , 49, 9110-2	5.8	39
176	Effect of protons on CdSe and CdSe-ZnS nanocrystals in organic solution. <i>Langmuir</i> , <b>2013</b> , 29, 13352-8	4	5
175	Synthesis and photochemical behaviour of novel uranyl[Salophen] complexes bearing anthracenyl side arms. <i>Supramolecular Chemistry</i> , <b>2013</b> , 25, 109-115	1.8	5
174	Binary Logic with Synthetic Molecular and Supramolecular Species <b>2013</b> , 25-52		3
173	A three-station DNA catenane rotary motor with controlled directionality. <i>Nano Letters</i> , <b>2013</b> , 13, 2303-8	1.5	92
172	Photoluminescence Enhancement of CdSe and CdSe/ZnS Nanocrystals by On-Surface Ligand Modification. <i>European Journal of Inorganic Chemistry</i> , <b>2013</b> , 2013, 3550-3556	2.3	7
171	Toward directionally controlled molecular motions and kinetic intra- and intermolecular self-sorting: threading processes of nonsymmetric wheel and axle components. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 9924-30	16.4	84
170	Photophysical properties and conformational effects on the circular dichroism of an azobenzene-cyclodextrin [1]rotaxane and its molecular components. <i>Chemistry - A European Journal</i> , <b>2013</b> , 19, 3131-8	4.8	19
169	Photoinduced memory effect in a redox controllable bistable mechanical molecular switch. <i>Angewandte Chemie - International Edition</i> , <b>2012</b> , 51, 1611-5	16.4	109
168	Multifunctional switching of a photo- and electro-chemiluminescent iridium-dithienylethene complex. <i>Chemical Communications</i> , <b>2012</b> , 48, 8652-4	5.8	39
167	Electrochemical Methods <b>2012</b> , 371-457		4

166	Chiral supramolecular switches based on (R)-binaphthalene-bipyridinium guests and cucurbituril hosts. <i>Chemistry - A European Journal</i> , <b>2012</b> , 18, 16911-21	4.8	50
165	Solvent- and light-controlled unidirectional transit of a nonsymmetric molecular axle through a nonsymmetric molecular wheel. <i>Chemistry - A European Journal</i> , <b>2012</b> , 18, 16203-13	4.8	52
164	Reversible modulation of helicity in a binaphthyl-bipyridinium species and its cucurbit[8]uril complexes. <i>Chemical Communications</i> , <b>2012</b> , 48, 7577-9	5.8	40
163	Quantum dot-molecule hybrids: a paradigm for light-responsive nanodevices. <i>New Journal of Chemistry</i> , <b>2012</b> , 36, 1925	3.6	28
162	Electrochemical properties of CdSe and CdTe quantum dots. <i>Chemical Society Reviews</i> , <b>2012</b> , 41, 5728-43	8.5	204
161	Photochemically Driven Molecular Devices and Machines <b>2012</b> ,		1
160	Photoinduced Memory Effect in a Redox Controllable Bistable Mechanical Molecular Switch. <i>Angewandte Chemie</i> , <b>2012</b> , 124, 1643-1647	3.6	25
159	Photoactivated Directionally Controlled Transit of a Non-Symmetric Molecular Axle Through a Macrocycle. <i>Angewandte Chemie</i> , <b>2012</b> , 124, 4299-4302	3.6	26
158	Photoactivated directionally controlled transit of a non-symmetric molecular axle through a macrocycle. <i>Angewandte Chemie - International Edition</i> , <b>2012</b> , 51, 4223-6	16.4	100
157	Photosensitization of the luminescence of CdTe nanocrystals by noncovalently bound Zn tetraphenylporphyrin. <i>Inorganica Chimica Acta</i> , <b>2012</b> , 381, 247-250	2.7	10
156	Spectrofluorimetry. <i>Lecture Notes in Quantum Chemistry II</i> , <b>2012</b> , 97-129	0.6	
155	Absorption and Emission Spectroscopy with Polarized Light. <i>Lecture Notes in Quantum Chemistry II</i> , <b>2012</b> , 131-165	0.6	
154	Molecular Motors and Machines. <i>Fundamental Biomedical Technologies</i> , <b>2012</b> , 71-100		1
153	Reading and Powering Molecular Machines by Light <b>2011</b> , 595-627		4
152	Redox control of molecular motion in switchable artificial nanoscale devices. <i>Antioxidants and Redox Signaling</i> , <b>2011</b> , 14, 1119-65	8.4	21
151	Introducing the Research Front on Photoactive and Electroactive Dendrimers. <i>Australian Journal of Chemistry</i> , <b>2011</b> , 64, 127	1.2	
150	Processing Chemical and Photonic Signals by Artificial Multicomponent Molecular Systems. <i>Israel Journal of Chemistry</i> , <b>2011</b> , 51, 23-35	3.4	9
149	pH-Sensitive Bis(2,2':6',2''-terpyridine)ruthenium(II) Complexes [A DFT/TDDFT Investigation of Their Spectroscopic Properties. <i>European Journal of Inorganic Chemistry</i> , <b>2011</b> , 2011, 1605-1613	2.3	12



148	Structural and size effects on the spectroscopic and redox properties of CdSe nanocrystals in solution: the role of defect states. <i>ChemPhysChem</i> , <b>2011</b> , 12, 2280-8	3.2	40
147	A ratiometric luminescent oxygen sensor based on a chemically functionalized quantum dot. <i>Chemical Communications</i> , <b>2011</b> , 47, 325-7	5.8	66
146	Light operated molecular machines. <i>Chemical Communications</i> , <b>2011</b> , 47, 2483-9	5.8	97
145	Luminescence quenching in self-assembled adducts of [Ru(dpp) <sub>3</sub> ] <sup>2+</sup> complexes and CdTe nanocrystals. <i>Dalton Transactions</i> , <b>2011</b> , 40, 12083-8	4.3	10
144	Quantum Dots Functionalized with Photo- or Redox-Active Species for Luminescence Sensing and Switching. <i>Current Physical Chemistry</i> , <b>2011</b> , 1, 181-194	0.5	3
143	Structural Implications on the Electrochemical and Spectroscopic Signature of CdSe-ZnS Core/Shell Quantum Dots. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 7007-7013	3.8	36
142	Molecular Machines Based on Rotaxanes and Catenanes <b>2010</b> , 157-212		3
141	Multistable Self-Assembling System with Three Distinct Luminescence Outputs: Prototype of a Bidirectional Half Subtractor and Reversible Logic Device. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 3209-3214	3.8	47
140	Probing donor-acceptor interactions and co-conformational changes in redox active desymmetrized [2]catenanes. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 1110-22	16.4	93
139	Redox properties of CdSe and CdSe/ZnS quantum dots in solution. <i>Pure and Applied Chemistry</i> , <b>2010</b> , 83, 1-8	2.1	22
138	The Research Front on Molecular Logic. <i>Australian Journal of Chemistry</i> , <b>2010</b> , 63, 145	1.2	10
137	Potential Applications of Molecular Logic <b>2010</b> , 367-375		
136	Building Molecular Machines on Surfaces <b>2010</b> , 503-529		2
135	Light-powered molecular devices and machines. <i>Photochemical and Photobiological Sciences</i> , <b>2010</b> , 9, 1561-73	4.2	44
134	Light on molecular machines. <i>ChemPhysChem</i> , <b>2010</b> , 11, 3398-403	3.2	22
133	Electroactive Rotaxanes and Catenanes <b>2010</b> , 377-424		2
132	Electrochemically Driven Molecular Machines Based on Transition-Metal Complexed Catenanes and Rotaxanes <b>2010</b> , 425-445		1
131	Electroactive Molecules and Supramolecules for Information Processing and Storage <b>2010</b> , 447-476		1

130	Molecular Motions Driven by Transition Metal Redox Couples: Ion Translocation and Assembling/Disassembling of Dinuclear Double-Strand Helicates <b>2010</b> , 33-58		
129	Molecular Encapsulation of Redox-Active Guests <b>2010</b> , 59-85		
128	Dendritic Encapsulation of Redox-Active Units <b>2010</b> , 87-120		
127	Redox-Active Metal Polypyridine Dendrimers as Light-Harvesting Antennae <b>2010</b> , 121-143		3
126	Dendrimers as Multielectron Storage Devices <b>2010</b> , 145-184		8
125	Molecular Devices Based on Fullerenes and Carbon Nanotubes <b>2010</b> , 229-259		
124	Self-assembly of calix[6]arene-diazapyrenium pseudorotaxanes: interplay of molecular recognition and ion-pairing effects. <i>Chemistry - A European Journal</i> , <b>2010</b> , 16, 3467-75	4.8	26
123	Reversible photoswitching of rotaxane character and interplay of thermodynamic stability and kinetic lability in a self-assembling ring-axle molecular system. <i>Chemistry - A European Journal</i> , <b>2010</b> , 16, 11580-7	4.8	58
122	Signal processing with multicomponent systems based on metal complexes. <i>Coordination Chemistry Reviews</i> , <b>2010</b> , 254, 2267-2280	23.2	59
121	Liposome destabilization by a 2,7-diazapyrenium derivative through formation of transient pores in the lipid bilayer. <i>Small</i> , <b>2010</b> , 6, 952-9	11	14
120	All-optical integrated logic operations based on chemical communication between molecular switches. <i>Chemistry - A European Journal</i> , <b>2009</b> , 15, 178-85	4.8	122
119	Towards controlling the threading direction of a calix[6]arene wheel by using nonsymmetric axles. <i>Chemistry - A European Journal</i> , <b>2009</b> , 15, 3230-42	4.8	65
118	Light powered molecular machines. <i>Chemical Society Reviews</i> , <b>2009</b> , 38, 1542-50	58.5	427
117	Artificial molecular shuttles: from concepts to devices. <i>Journal of Materials Chemistry</i> , <b>2009</b> , 19, 2279		119
116	Tuning fluorescence lifetimes through changes in Herzberg-Teller activities: the case of triphenylene and its hexamethoxy-substituted derivative. <i>Journal of Physical Chemistry A</i> , <b>2009</b> , 113, 6504-10	2.8	13
115	Photochemical switching of luminescence and singlet oxygen generation by chemical signal communication. <i>Chemical Communications</i> , <b>2009</b> , 1484-6	5.8	58
114	Molecular machines working on surfaces and at interfaces. <i>ChemPhysChem</i> , <b>2008</b> , 9, 202-20	3.2	178
113	Luminescence quenching in supramolecular assemblies of quantum dots and bipyridinium dications. <i>Journal of Materials Chemistry</i> , <b>2008</b> , 18, 2022		31

112	Artificial Molecular Machines Powered by Light. <i>Chimia</i> , <b>2008</b> , 62, 204-209	1.3	4
111	Self-assembly of a double calix[6]arene pseudorotaxane in oriented channels. <i>Chemistry - A European Journal</i> , <b>2008</b> , 14, 98-106	4.8	44
110	Processing energy and signals by molecular and supramolecular systems. <i>Chemistry - A European Journal</i> , <b>2008</b> , 14, 26-39	4.8	115
109	Electrochemically controlled formation/dissociation of phosphonate-cavitand/methylpyridinium complexes. <i>Chemistry - A European Journal</i> , <b>2008</b> , 14, 8964-71	4.8	21
108	Photochemical conversion of solar energy. <i>ChemSusChem</i> , <b>2008</b> , 1, 26-58	8.3	934
107	Unravelling the shuttling mechanism in a photoswitchable multicomponent bistable rotaxane. <i>Angewandte Chemie - International Edition</i> , <b>2008</b> , 47, 3536-9	16.4	58
106	A simple unimolecular multiplexer/demultiplexer. <i>Angewandte Chemie - International Edition</i> , <b>2008</b> , 47, 6240-3	16.4	129
105	Unravelling the Shuttling Mechanism in a Photoswitchable Multicomponent Bistable Rotaxane. <i>Angewandte Chemie</i> , <b>2008</b> , 120, 3592-3595	3.6	13
104	A Simple Unimolecular Multiplexer/Demultiplexer. <i>Angewandte Chemie</i> , <b>2008</b> , 120, 6336-6339	3.6	51
103	Rotaxanes with a calix[6]arene wheel and axles of different length. Synthesis, characterization, and photophysical and electrochemical properties. <i>Tetrahedron</i> , <b>2008</b> , 64, 8279-8286	2.4	37
102	Molecular machines operated by light. <i>Open Chemistry</i> , <b>2008</b> , 6, 325-339	1.6	7
101	Artificial molecular machines driven by light. <i>Frontiers in Bioscience - Landmark</i> , <b>2008</b> , 13, 1036-49	2.8	4
100	<b>2008</b> ,		618
99	Using light to induce energy and electron transfer or molecular motions in multicomponent systems. <i>Photochemical and Photobiological Sciences</i> , <b>2007</b> , 6, 345-56	4.2	14
98	A molecular plug-socket connector. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 4633-42	16.4	42
97	A simple molecular machine operated by photoinduced proton transfer. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 13378-9	16.4	182
96	Molecules that make decisions. <i>Angewandte Chemie - International Edition</i> , <b>2007</b> , 46, 5472-5	16.4	280
95	Moleküle, die Entscheidungen treffen. <i>Angewandte Chemie</i> , <b>2007</b> , 119, 5568-5572	3.6	65

94	Molecular Photochemionics. <i>Advanced Functional Materials</i> , <b>2007</b> , 17, 740-750	15.6	50
93	Characterization of TiO <sub>2</sub> coatings prepared by a modified electric arc-physical vapour deposition system. <i>Surface and Coatings Technology</i> , <b>2007</b> , 202, 13-22	4.4	40
92	Photophysical, photochemical and electrochemical properties of a series of aromatic electron acceptors based on N-heterocycles. <i>Inorganica Chimica Acta</i> , <b>2007</b> , 360, 1072-1082	2.7	41
91	pH-sensitive Ru(II) and Os(II) bis(2,2':6',2''-terpyridine) complexes: A photophysical investigation. <i>Inorganica Chimica Acta</i> , <b>2007</b> , 360, 1102-1110	2.7	61
90	Molecular devices and machines. <i>Nano Today</i> , <b>2007</b> , 2, 18-25	17.9	518
89	Cyclohexenylphenyldiazene: a simple surrogate of the azobenzene photochromic unit. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 3198-210	16.4	33
88	A redox-driven multicomponent molecular shuttle. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 12159-71	16.4	165
87	Modelization and Simulation of Nano Devices in nano-Calculus. <i>Lecture Notes in Computer Science</i> , <b>2007</b> , 168-183	0.9	5
86	Wire-type ruthenium(II) complexes with terpyridine-containing [2]rotaxanes as ligands: Synthesis, characterization, and photophysical properties. <i>Chemistry - A European Journal</i> , <b>2006</b> , 12, 3233-42	4.8	54
85	Ion-Pairing Effects in the Self-Assembly of a Fluorescent Pseudorotaxane. <i>European Journal of Organic Chemistry</i> , <b>2006</b> , 2006, 105-112	3.2	35
84	Towards Organization of Molecular Machines at Interfaces: Langmuir Films and Langmuir-Blodgett Multilayers of an Acid-Base Switchable Rotaxane. <i>Advanced Materials</i> , <b>2006</b> , 18, 1291-1296	24	46
83	A Comparison of Shuttling Mechanisms in Two Constitutionally Isomeric Bistable Rotaxane-Based Sunlight-Powered Nanomotors. <i>Australian Journal of Chemistry</i> , <b>2006</b> , 59, 193	1.2	37
82	Autonomous artificial nanomotor powered by sunlight. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2006</b> , 103, 1178-83	11.5	418
81	Operating molecular elevators. <i>Journal of the American Chemical Society</i> , <b>2006</b> , 128, 1489-99	16.4	266
80	Artificial nanomachines based on interlocked molecular species: recent advances. <i>Chemical Society Reviews</i> , <b>2006</b> , 35, 1135-49	58.5	212
79	Photoinduced electron flow in a self-assembling supramolecular extension cable. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2006</b> , 103, 18411-6	11.5	55
78	Artificial Molecular Motors Powered by Light. <i>Australian Journal of Chemistry</i> , <b>2006</b> , 59, 157	1.2	85
77	Artificial nanomachines based on interlocked molecules. <i>Journal of Physics Condensed Matter</i> , <b>2006</b> , 18, S1779-S1795	1.8	9

76	Effect of strain on the photoisomerization and stability of a congested azobenzenophane: a combined experimental and computational study. <i>Journal of Physical Chemistry A</i> , <b>2006</b> , 110, 12385-94	2.8	28
75	Molecular-Level Devices and Machines <b>2005</b> , 255-266		5
74	Rotaxane-based molecular machines operated by photoinduced electron transfer. <i>Pure and Applied Chemistry</i> , <b>2005</b> , 77, 1051-1057	2.1	9
73	Shuttling dynamics in an acid-base-switchable [2]rotaxane. <i>ChemPhysChem</i> , <b>2005</b> , 6, 2145-52	3.2	89
72	Towards molecular photochemionics. <i>International Journal of Photoenergy</i> , <b>2004</b> , 6, 1-10	2.1	16
71	Molecular-Level Machines <b>2004</b> , 931-938		
70	Photochemical and electronic properties of conjugated bis(azo) compounds: an experimental and computational study. <i>Chemistry - A European Journal</i> , <b>2004</b> , 10, 2011-21	4.8	101
69	A mechanically interlocked bundle. <i>Chemistry - A European Journal</i> , <b>2004</b> , 10, 1926-35	4.8	79
68	From supramolecular electrochemistry to molecular-level devices. <i>Electrochimica Acta</i> , <b>2004</b> , 49, 3865-3872	3.7	11
67	Viologen-calix[6]arene pseudorotaxanes. Ion-pair recognition and threading/dethreading molecular motions. <i>Journal of Organic Chemistry</i> , <b>2004</b> , 69, 5881-7	4.2	137
66	Polyvalent scaffolds. Counting the number of seats available for eosin guest molecules in viologen-based host dendrimers. <i>Journal of the American Chemical Society</i> , <b>2004</b> , 126, 568-73	16.4	52
65	A molecular elevator. <i>Science</i> , <b>2004</b> , 303, 1845-9	33.3	929
64	Light-powered molecular-scale machines. <i>Pure and Applied Chemistry</i> , <b>2003</b> , 75, 541-547	2.1	39
63	<b>2003</b> ,		756
62	Molecular logic circuits. <i>ChemPhysChem</i> , <b>2003</b> , 4, 49-59	3.2	246
61	Controlling multivalent interactions in triply-threaded two-component superbundles. <i>Chemistry - A European Journal</i> , <b>2003</b> , 9, 5348-60	4.8	61
60	Photochemistry of a Dumbbell-Shaped Multicomponent System Hosted Inside the Mesopores of Al/MCM-41 Aluminosilicate. Generation of Long-Lived Viologen Radicals. <i>Journal of Physical Chemistry B</i> , <b>2003</b> , 107, 14319-14325	3.4	24
59	Photoactive pseudorotaxanes and rotaxanes as artificial molecular machines. <i>Synthetic Metals</i> , <b>2003</b> , 139, 773-777	3.6	20

58	Redox-Induced Ring Shuttling and Evidence for Folded Structures in Long and Flexible Two-Station Rotaxanes. <i>Collection of Czechoslovak Chemical Communications</i> , <b>2003</b> , 68, 1488-1514		51
57	Ferrocene-containing carbohydrate dendrimers. <i>Chemistry - A European Journal</i> , <b>2002</b> , 8, 673-84	4.8	103
56	The bottom-up approach to molecular-level devices and machines. <i>Chemistry - A European Journal</i> , <b>2002</b> , 8, 5524-32	4.8	110
55	Controlled disassembling of self-assembling systems: toward artificial molecular-level devices and machines. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2002</b> , 99, 4814-75	11.5	84
54	Photoinduced electron transfer in a triad that can be assembled/disassembled by two different external inputs. Toward molecular-level electrical extension cables. <i>Journal of the American Chemical Society</i> , <b>2002</b> , 124, 12786-95	16.4	117
53	Artificial molecular-level machines. <i>Chemical Record</i> , <b>2001</b> , 1, 422-35	6.6	28
52	Dual-mode "co-conformational" switching in catenanes incorporating bipyridinium and dialkylammonium recognition sites. <i>Chemistry - A European Journal</i> , <b>2001</b> , 7, 3482-93	4.8	68
51	Spectroscopic and Electrochemical Properties of Catenanes Containing the 2,7-Diazapyrenium Unit. <i>Supramolecular Chemistry</i> , <b>2001</b> , 13, 303-311	1.8	19
50	Artificial molecular-level machines: which energy to make them work?. <i>Accounts of Chemical Research</i> , <b>2001</b> , 34, 445-55	24.3	450
49	Artificial molecular-level machines. Dethreading-retchreading of a pseudorotaxane powered exclusively by light energy. <i>Chemical Communications</i> , <b>2001</b> , 1860-1	5.8	74
48	Controlled dethreading/retchreading of a scorpion-like pseudorotaxane and a related macrobicyclic self-complexing system. <i>New Journal of Chemistry</i> , <b>2001</b> , 25, 25-31	3.6	40
47	Artificial molecular-level machines with [Ru(bpy) <sub>3</sub> ] <sup>2+</sup> as a light-fueled motor. <i>International Journal of Photoenergy</i> , <b>2001</b> , 3, 63-77	2.1	27
46	Molecular-Level Artificial Machines Based on Photoinduced Electron-Transfer Processes <b>2001</b> , 163-188		16
45	Künstliche molekulare Maschinen. <i>Angewandte Chemie</i> , <b>2000</b> , 112, 3484-3530	3.6	443
44	A photochemically driven molecular-level abacus. <i>Chemistry - A European Journal</i> , <b>2000</b> , 6, 3558-74	4.8	267
43	Artificial Molecular Machines. <i>Angewandte Chemie - International Edition</i> , <b>2000</b> , 39, 3348-3391	16.4	2027
42	. <i>European Journal of Organic Chemistry</i> , <b>2000</b> , 2000, 1121-1130	3.2	31
41	Constructing Molecular Machinery: A Chemically-Switchable [2]Catenane. <i>Journal of the American Chemical Society</i> , <b>2000</b> , 122, 3542-3543	16.4	114

40	Switching of pseudorotaxanes and catenanes incorporating a tetrathiafulvalene unit by redox and chemical inputs. <i>Journal of Organic Chemistry</i> , <b>2000</b> , 65, 1924-36	4.2	214
39	The electrochemically-driven decomplexation/recomplexation of inclusion adducts of ferrocene derivatives with an electron-accepting receptor. <i>Journal of Organic Chemistry</i> , <b>2000</b> , 65, 1947-56	4.2	28
38	Electrochemistry of coordination compounds: an extended view. <i>Coordination Chemistry Reviews</i> , <b>1999</b> , 185-186, 233-256	23.2	49
37	Absorption and Emission Properties of Di- and Trinuclear Ruthenium(II) Rack-Type Complexes. <i>European Journal of Inorganic Chemistry</i> , <b>1999</b> , 1999, 1409-1414	2.3	36
36	Pseudorotaxanes and Catenanes Containing a Redox-Active Unit Derived from Tetrathiafulvalene. <i>European Journal of Organic Chemistry</i> , <b>1999</b> , 1999, 985-994	3.2	50
35	Photoactive Azobenzene-Containing Supramolecular Complexes and Related Interlocked Molecular Compounds. <i>Chemistry - A European Journal</i> , <b>1999</b> , 5, 860-875	4.8	82
34	A Molecular-Level Plug/Socket System: Electronic Energy Transfer from a Binaphthyl Unit Incorporated into a Crown Ether to an Anthracenyl Unit Linked to an Ammonium Ion. <i>Chemistry - A European Journal</i> , <b>1999</b> , 5, 984-989	4.8	95
33	A Three-Pole Supramolecular Switch $\square$ <i>Journal of the American Chemical Society</i> , <b>1999</b> , 121, 3951-3957	16.4	228
32	Dendrimers with a Photoactive and Redox-Active [Ru(bpy) <sub>3</sub> ] <sup>2+</sup> -Type Core: Photophysical Properties, Electrochemical Behavior, and Excited-State Electron-Transfer Reactions. <i>Journal of the American Chemical Society</i> , <b>1999</b> , 121, 6290-6298	16.4	196
31	Photochemistry and photophysics of coordination compounds: An extended view. <i>Coordination Chemistry Reviews</i> , <b>1998</b> , 171, 3-16	23.2	97
30	Ein chemisch und elektrochemisch schaltbares [2]Catenan mit Tetrathiafulvalen-Einheit. <i>Angewandte Chemie</i> , <b>1998</b> , 110, 357-361	3.6	62
29	Cyclophanes and [2]Catenanes as Ligands for Transition Metal Complexes: Synthesis, Structure, Absorption Spectra, and Excited State and Electrochemical Properties. <i>Chemistry - A European Journal</i> , <b>1998</b> , 4, 590-607	4.8	52
28	RuII-Polypyridine Complexes Covalently Linked to Electron Acceptors as Wires for Light-Driven Pseudorotaxane-Type Molecular Machines. <i>Chemistry - A European Journal</i> , <b>1998</b> , 4, 2413-2422	4.8	68
27	A Chemically and Electrochemically Switchable [2]Catenane Incorporating a Tetrathiafulvalene Unit. <i>Angewandte Chemie - International Edition</i> , <b>1998</b> , 37, 333-337	16.4	280
26	From observed to corrected luminescence intensity of solution systems: an easy-to-apply correction method for standard spectrofluorimeters. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>1998</b> , 54, 159-170	4.4	116
25	Aggregation of self-assembling branched [n]rotaxanes. <i>New Journal of Chemistry</i> , <b>1998</b> , 22, 959-972	3.6	58
24	Simple molecular-level machines. Interchange between different threads in pseudorotaxanes. <i>New Journal of Chemistry</i> , <b>1998</b> , 22, 1061-1065	3.6	76
23	Photoredox pathways for the polymerization of a pyrrole-substituted ruthenium tris(bipyridyl) complex. <i>New Journal of Chemistry</i> , <b>1998</b> , 22, 33-37	3.6	15

22	Diastereoselective Formation and Photophysical Behavior of a Chiral Copper(I) Phenanthroline Complex. <i>Inorganic Chemistry</i> , <b>1998</b> , 37, 2145-2149	5.1	30
21	Oligocatenanes Made to Order <sup>1</sup> . <i>Journal of the American Chemical Society</i> , <b>1998</b> , 120, 4295-4307	16.4	134
20	Acid-Base Controllable Molecular Shuttles <sup>1</sup> . <i>Journal of the American Chemical Society</i> , <b>1998</b> , 120, 11932-11942	16.4	308
19	Polynuclear metal complexes of nanometre size. A versatile synthetic strategy leading to luminescent and redox-active dendrimers made of an osmium(II)-based core and ruthenium(II)-based units in the branches. <i>Journal of Materials Chemistry</i> , <b>1997</b> , 7, 1227-1236		98
18	Luminescent and Redox-Active Iridium(III)-Cyclometalated Compounds with Terdentate Ligands. <i>Inorganic Chemistry</i> , <b>1997</b> , 36, 5947-5950	5.1	55
17	Controlling Catenations, Properties and Relative Ring-Component Movements in Catenanes with Aromatic Fluorine Substituents <sup>1</sup> . <i>Journal of the American Chemical Society</i> , <b>1997</b> , 119, 12503-12513	16.4	63
16	Chiroptical Absorption and Luminescence Spectra of a Dissymmetric Osmium(II) Polypyridyl Complex Containing an Optically Active Bis(bipyridine)-Type Ligand of Well-Defined Structural Chirality. <i>Inorganic Chemistry</i> , <b>1997</b> , 36, 426-434	5.1	26
15	Logic Operations at the Molecular Level. An XOR Gate Based on a Molecular Machine. <i>Journal of the American Chemical Society</i> , <b>1997</b> , 119, 2679-2681	16.4	463
14	Photoprocesses. <i>Current Opinion in Chemical Biology</i> , <b>1997</b> , 1, 506-13	9.7	40
13	Simple Mechanical Molecular and Supramolecular Machines: Photochemical and Electrochemical Control of Switching Processes. <i>Chemistry - A European Journal</i> , <b>1997</b> , 3, 152-170	4.8	182
12	Electrochemically Induced Molecular Motions in Pseudorotaxanes: A Case of Dual-Mode (Oxidative and Reductive) Dethreading. <i>Chemistry - A European Journal</i> , <b>1997</b> , 3, 1992-1996	4.8	134
11	Self-Assembly of [n]Rotaxanes Bearing Dendritic Stoppers?. <i>Journal of the American Chemical Society</i> , <b>1996</b> , 118, 12012-12020	16.4	111
10	Einfache molekulare Maschinen: chemisch gesteuertes Ausfäden und Rükkeinfäden eines [2]Pseudorotaxans. <i>Angewandte Chemie</i> , <b>1996</b> , 108, 1056-1059	3.6	21
9	Simple Molecular Machines: Chemically Driven Unthreading and Rethreading of a [2]Pseudorotaxane. <i>Angewandte Chemie International Edition in English</i> , <b>1996</b> , 35, 978-981		85
8	Supramolecular Photochemistry: Recent Advances <b>1996</b> , 163-177		2
7	Molecular Meccano. 4. The Self-Assembly of [2]Catenanes Incorporating Photoactive .pi.-Extended Systems. <i>Journal of the American Chemical Society</i> , <b>1995</b> , 117, 11171-11197	16.4	134
6	Photophysical properties of a dinuclear rack-type Ru(II) complex and of its components. <i>Chemical Physics Letters</i> , <b>1995</b> , 243, 102-107	2.5	23
5	Supramolecular Photochemistry and Photophysics. A Cylindrical Macrotricyclic Receptor and Its Adducts with Protons, Ammonium Ions, and a Pt(II) Complex. <i>Journal of the American Chemical Society</i> , <b>1994</b> , 116, 5741-5746	16.4	31



4	Supramolecular Photochemistry and Photophysics. Energy- Conversion and Information-Processing Devices based on Transition Metal Complexes <b>1994</b> , 1-32	25
3	Artificial Molecular Motors and Machines: Design Principles and Prototype Systems1-27	66
2	Electron Transfer Processes in Pseudorotaxanes501-538	4
1	Handbook of Photochemistry	1123