Stefan Hecht

List of Publications by Citations

301 papers	18,250 citations	68 h-index	128 g-index
335 ext. papers	20,230 ext. citations	9.8 avg, IF	7.24 L-index

#	Paper	IF	Citations
301	Nano-architectures by covalent assembly of molecular building blocks. *Nature Nanotechnology*, **2007**, 2, 687-91	28.7	1056
300	Dendritic Encapsulation of Function: Applying Nature's Site Isolation Principle from Biomimetics to Materials Science. *Angewandte Chemie - International Edition*, **2001**, 40, 74-91	16.4	922
299	Photoswitches: from molecules to materials. *Advanced Materials*, **2010**, 22, 3348-60	24	781
298	Multivalency as a chemical organization and action principle. *Angewandte Chemie - International Edition*, **2012**, 51, 10472-98	16.4	730
297	o-Fluoroazobenzenes as readily synthesized photoswitches offering nearly quantitative two-way isomerization with visible light. *Journal of the American Chemical Society*, **2012**, 134, 20597-600	16.4	500
296	Electric field-induced isomerization of azobenzene by STM. *Journal of the American Chemical Society*, **2006**, 128, 14446-7	16.4	490
295	Visible-Light-Activated Molecular Switches. *Angewandte Chemie - International Edition*, **2015**, 54, 11338-49	16.4	483
294	Conductance of a single conjugated polymer as a continuous function of its length. *Science*, **2009**, 323, 1193-7	33.3	443
293	Controlling on-surface polymerization by hierarchical and substrate-directed growth. *Nature Chemistry*, **2012**, 4, 215-20	17.6	430
292	**2007**,		391
291	Helicity inversion in responsive foldamers induced by achiral halide ion guests. *Angewandte Chemie - International Edition*, **2008**, 47, 4926-30	16.4	306
290	Artificial light-gated catalyst systems. *Angewandte Chemie - International Edition*, **2010**, 49, 5054-75	16.4	302
289	A chaotic self-oscillating sunlight-driven polymer actuator. *Nature Communications*, **2016**, 7, 11975	17.4	253
288	Remote-controlling chemical reactions by light: towards chemistry with high spatio-temporal resolution. *Chemical Society Reviews*, **2014**, 43, 1982-96	58.5	252
287	ortho-Fluoroazobenzenes: visible light switches with very long-Lived Z isomers. *Chemistry - A European Journal*, **2014**, 20, 16492-501	4.8	236
286	Multifunctional "clickates" as versatile extended heteroaromatic building blocks: efficient synthesis via click chemistry, conformational preferences, and metal coordination. *Chemistry - A European Journal*, **2007**, 13, 9834-40	4.8	230
285	Improving the fatigue resistance of diarylethene switches. *Journal of the American Chemical Society*, **2015**, 137, 2738-47	16.4	228

284	Flexible non-volatile optical memory thin-film transistor device with over 256 distinct levels based on an organic bicomponent blend. *Nature Nanotechnology*, **2016**, 11, 769-75	28.7	222
283	Aligning the band gap of graphene nanoribbons by monomer doping. *Angewandte Chemie - International Edition*, **2013**, 52, 4422-5	16.4	198
282	Optically switchable transistor via energy-level phototuning in a bicomponent organic semiconductor. *Nature Chemistry*, **2012**, 4, 675-9	17.6	194
281	Quantum chemical investigation of thermal cis-to-trans isomerization of azobenzene derivatives: substituent effects, solvent effects, and comparison to experimental data. *Journal of Physical Chemistry A*, **2009**, 113, 6763-73	2.8	176
280	Prototype of a photoswitchable foldamer. *Angewandte Chemie - International Edition*, **2006**, 45, 1878-81	16.4	160
279	Acylhydrazones as Widely Tunable Photoswitches. *Journal of the American Chemical Society*, **2015**, 137, 14982-91	16.4	155
278	Multivalenz als chemisches Organisations- und Wirkprinzip. *Angewandte Chemie*, **2012**, 124, 10622-10650	3.6	151
277	Encapsulation of functional moieties within branched star polymers: effect of chain length and solvent on site isolation. *Journal of the American Chemical Society*, **2001**, 123, 18-25	16.4	150
276	Photoswitching of basicity. *Angewandte Chemie - International Edition*, **2008**, 47, 5968-72	16.4	144
275	Enlightening Materials with Photoswitches. *Advanced Materials*, **2020**, 32, e1905966	24	142
274	Photoswitchable molecules as key ingredients to drive systems away from the global thermodynamic minimum. *Chemical Society Reviews*, **2017**, 46, 5536-5550	58.5	140
273	Optically switchable transistors by simple incorporation of photochromic systems into small-molecule semiconducting matrices. *Nature Communications*, **2015**, 6, 6330	17.4	139
272	Spatial periodicity in molecular switching. *Nature Nanotechnology*, **2008**, 3, 649-53	28.7	139
271	The effect of macromolecular architecture in nanomaterials: a comparison of site isolation in porphyrin core dendrimers and their isomeric linear analogues. *Journal of the American Chemical Society*, **2002**, 124, 3926-38	16.4	133
270	Dendritisch eingeschlossene aktive Zentren: Anwendung des Isolationsprinzips der Natur in der Biomimetik und den Materialwissenschaften. *Angewandte Chemie*, **2001**, 113, 76-94	3.6	123
269	Photoswitchable catalysts: correlating structure and conformational dynamics with reactivity by a combined experimental and computational approach. *Journal of the American Chemical Society*, **2009**, 131, 357-67	16.4	121
268	Tuning the Work Function of Polar Zinc Oxide Surfaces using Modified Phosphonic Acid Self-Assembled Monolayers. *Advanced Functional Materials*, **2014**, 24, 7014-7024	15.6	120
267	Adsorption and Switching Properties of Azobenzene Derivatives on Different Noble Metal Surfaces: Au(111), Cu(111), and Au(100). *Journal of Physical Chemistry C*, **2008**, 112, 10509-10514	3.8	112

266	Toward optomechanics: maximizing the photodeformation of individual molecules. *Chemical Communications*, **2011**, 47, 12260-6	5.8	108
265	Intramolecular cross-linking of helical folds: an approach to organic nanotubes. *Angewandte Chemie - International Edition*, **2003**, 42, 6021-4	16.4	107
264	Optically active, amphiphilic poly(meta-phenylene ethynylene)s: synthesis, hydrogen-bonding enforced helix stability, and direct AFM observation of their helical structures. *Journal of the American Chemical Society*, **2012**, 134, 8718-28	16.4	105
263	Künstliche lichtgesteuerte Katalysatorsysteme. *Angewandte Chemie*, **2010**, 122, 5176-5200	3.6	105
262	Responsive Backbones Based on Alternating Triazole-Pyridine/Benzene Copolymers: From Helically Folding Polymers to Metallosupramolecularly Crosslinked Gels. *Macromolecular Rapid Communications*, **2008**, 29, 347-351	4.8	105
261	Welding, organizing, and planting organic molecules on substrate surfaces--promising approaches towards nanoarchitectonics from the bottom up. *Angewandte Chemie - International Edition*, **2003**, 42, 24-6	16.4	105
260	Functionally layered dendrimers: a new building block and its application to the synthesis of multichromophoric light-harvesting systems. *Organic Letters*, **2005**, 7, 4451-4	6.2	104
259	Covalent on-surface polymerization. *Nature Chemistry*, **2020**, 12, 115-130	17.6	103
258	Light-Driven Catalysis within Dendrimers: Designing Amphiphilic Singlet Oxygen Sensitizers. *Journal of the American Chemical Society*, **2001**, 123, 6959-6960	16.4	102
257	Functionalizing the interior of dendrimers: Synthetic challenges and applications. *Journal of Polymer Science Part A*, **2003**, 41, 1047-1058	2.5	99
256	Switching Diarylethenes Reliably in Both Directions with Visible Light. *Angewandte Chemie - International Edition*, **2016**, 55, 1208-12	16.4	98
255	Solution Mask Liquid Lithography (SMaLL) for One-Step, Multimaterial 3D Printing. *Advanced Materials*, **2018**, 30, e1800364	24	95
254	Control of Imine Exchange Kinetics with Photoswitches to Modulate Self-Healing in Polysiloxane Networks by Light Illumination. *Angewandte Chemie - International Edition*, **2016**, 55, 13882-13886	16.4	94
253	Aktivierung molekularer Schalter mit sichtbarem Licht. *Angewandte Chemie*, **2015**, 127, 11494-11506	3.6	94
252	Reversible and quantitative denaturation of amphiphilic oligo(azobenzene) foldamers. *Angewandte Chemie - International Edition*, **2011**, 50, 1640-3	16.4	93
251	Complexes of click-derived bistriazolylpyridines: remarkable electronic influence of remote substituents on thermodynamic stability as well as electronic and magnetic properties. *Chemistry - A European Journal*, **2010**, 16, 10202-13	4.8	92
250	Effect of Core Structure on Photophysical and Hydrodynamic Properties of Porphyrin Dendrimers. *Macromolecules*, **2000**, 33, 2967-2973	5.5	92
249	Towards photocontrol over the helix-coil transition in foldamers: synthesis and photoresponsive behavior of azobenzene-core amphiphilic oligo(meta-phenylene ethynylene)s. *Chemistry - A European Journal*, **2006**, 12, 4764-74	4.8	89

248	Optically switchable organic light-emitting transistors. *Nature Nanotechnology*, **2019**, 14, 347-353	28.7	87
247	Xolography for linear volumetric 3D printing. *Nature*, **2020**, 588, 620-624	50.4	85
246	Discrete Organic Nanotubes Based on a Combination of Covalent and Non-Covalent Approaches. *Topics in Current Chemistry*, **2005**, 89-150		84
245	Electrocatalytic Z -lE Isomerization of Azobenzenes. *Journal of the American Chemical Society*, **2017**, 139, 335-341	16.4	81
244	Porphyrin Core Star Polymers: Synthesis, Modification, and Implication for Site Isolation. *Journal of the American Chemical Society*, **1999**, 121, 9239-9240	16.4	81
243	Helixinversion in responsiven Foldameren durch achirale Gastmolekle (Halogenidionen). *Angewandte Chemie*, **2008**, 120, 5004-5008	3.6	80
242	Efficient light emission from inorganic and organic semiconductor hybrid structures by energy-level tuning. *Nature Communications*, **2015**, 6, 6754	17.4	77
241	Structural Effects in Visible-Light-Responsive Metal-Organic Frameworks Incorporating ortho-Fluoroazobenzenes. *Chemistry - A European Journal*, **2016**, 22, 746-52	4.8	76
240	Light-orchestrated macromolecular "accordions": reversible photoinduced shrinking of rigid-rod polymers. *Angewandte Chemie - International Edition*, **2011**, 50, 12559-63	16.4	76
239	Conductance of a single flexible molecular wire composed of alternating donor and acceptor units. *Nature Communications*, **2015**, 6, 7397	17.4	75
238	Designing structural motifs for clickamers: exploiting the 1,2,3-triazole moiety to generate conformationally restricted molecular architectures. *Chemistry - A European Journal*, **2011**, 17, 1473-84	4.8	74
237	Practical synthesis of an amphiphilic, non-ionic poly(para-phenyleneethynylene) derivative with a remarkable quantum yield in water. *Chemical Communications*, **2005**, 584-6	5.8	74
236	Single molecular wires connecting metallic and insulating surface areas. *Angewandte Chemie - International Edition*, **2009**, 48, 9966-70	16.4	73
235	Conditional repair by locally switching the thermal healing capability of dynamic covalent polymers with light. *Nature Communications*, **2016**, 7, 13623	17.4	73
234	A photoswitchable catalyst system for remote-controlled (co)polymerization in situ. *Nature Catalysis*, **2018**, 1, 516-522	36.5	72
233	Polymerization on stepped surfaces: alignment of polymers and identification of catalytic sites. *Angewandte Chemie - International Edition*, **2012**, 51, 5096-100	16.4	68
232	An Alternative Synthetic Approach toward Dendritic Macromolecules: Novel Benzene-Core Dendrimers via Alkyne Cyclotrimerization. *Journal of the American Chemical Society*, **1999**, 121, 4084-4085	16.4	67
231	Remote control over folding by light. *Chemical Communications*, **2016**, 52, 6639-53	5.8	67

230	Photoswitching vertically oriented azobenzene self-assembled monolayers at the solid-liquid interface. *Chemistry - A European Journal*, **2010**, 16, 14256-60	4.8	66
229	Controlling covalent connection and disconnection with light. *Angewandte Chemie - International Edition*, **2014**, 53, 8784-7	16.4	64
228	Electronic decoupling approach to quantitative photoswitching in linear multiazobenzene architectures. *Journal of Physical Chemistry B*, **2011**, 115, 9930-40	3.4	64
227	Optical switching of hierarchical self-assembly: towards "enlightened" materials. *Small*, **2005**, 1, 26-9	11	63
226	N,N'-Disubstituted Indigos as Readily Available Red-Light Photoswitches with Tunable Thermal Half-Lives. *Journal of the American Chemical Society*, **2017**, 139, 15205-15211	16.4	59
225	Non-Covalent Functionalization of Individual Nanotubes with Spiropyran-Based Molecular Switches. *Advanced Functional Materials*, **2012**, 22, 2425-2431	15.6	57
224	Taking Photochromism beyond Visible: Direct One-Photon NIR Photoswitches Operating in the Biological Window. *Angewandte Chemie - International Edition*, **2018**, 57, 1414-1417	16.4	55
223	Quantifying the atomic-level mechanics of single long physisorbed molecular chains. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 3968-72	11.5	53
222	Designing Molecular Photoswitches for Soft Materials Applications. *Advanced Optical Materials*, **2019**, 7, 1900404	8.1	52
221	Sensitized Two-NIR-Photon Z-E Isomerization of a Visible-Light-Addressable Bistable Azobenzene Derivative. *Angewandte Chemie - International Edition*, **2016**, 55, 1544-7	16.4	52
220	Photoschalten von Basizität. *Angewandte Chemie*, **2008**, 120, 6056-6060	3.6	52
219	Prototyp eines photoschaltbaren Foldamers. *Angewandte Chemie*, **2006**, 118, 1912-1915	3.6	52
218	Synthesis of a Novel Chiral Squaraine Dye and Its Unique Aggregation Behavior in Solution and in Self-Assembled Monolayers. *Advanced Materials*, **2006**, 18, 1271-1275	24	52
217	Gating the photochromism of an azobenzene by strong host-guest interactions in a divalent pseudo[2]rotaxane. *Chemical Communications*, **2015**, 51, 9777-80	5.8	51
216	Modulating Guest Uptake in Core-Shell MOFs with Visible Light. *Angewandte Chemie - International Edition*, **2019**, 58, 12862-12867	16.4	50
215	Light-driven molecular trap enables bidirectional manipulation of dynamic covalent systems. *Nature Chemistry*, **2018**, 10, 1031-1036	17.6	50
214	Light-Modulation of the Charge Injection in a Polymer Thin-Film Transistor by Functionalizing the Electrodes with Bistable Photochromic Self-Assembled Monolayers. *Advanced Materials*, **2016**, 28, 6606-11	24	50
213	Sterically crowding the bridge of dithienylcyclopentenes for enhanced photoswitching performance. *Chemistry - A European Journal*, **2012**, 18, 14282-5	4.8	49

212	Sensitized photocatalytical oxidation of terbutylazine. *Solar Energy Materials and Solar Cells*, **1994**, 33, 475-481	6.4	49
211	Modulating large-area self-assembly at the solid-liquid interface by pH-mediated conformational switching. *Chemistry - A European Journal*, **2009**, 15, 4788-92	4.8	48
210	Optically switchable transistors comprising a hybrid photochromic molecule/n-type organic active layer. *Journal of Materials Chemistry C*, **2015**, 3, 4156-4161	7.1	47
209	Adatoms underneath single porphyrin molecules on Au(111). *Journal of the American Chemical Society*, **2015**, 137, 1844-9	16.4	47
208	Vacuum-processable ladder-type oligophenylenes for organic□inorganic hybrid structures: synthesis, optical and electrochemical properties upon increasing planarization as well as thin film growth. *Journal of Materials Chemistry*, **2012**, 22, 4383		46
207	Switching with orthogonal stimuli: electrochemical ring-closure and photochemical ring-opening of bis(thiazolyl)maleimides. *Chemical Science*, **2013**, 4, 1028-1040	9.4	45
206	Synthesis and characterization of azobenzene-confined porphyrins. *Journal of Organic Chemistry*, **2006**, 71, 7846-9	4.2	45
205	Light-Activated Sensitive Probes for Amine Detection. *Angewandte Chemie - International Edition*, **2017**, 56, 1914-1918	16.4	44
204	Electronic structure of the molecular switch tetra-tert-butyl-azobenzene adsorbed on Ag(111). *Applied Physics A: Materials Science and Processing*, **2007**, 88, 465-472	2.6	44
203	Collective molecular switching in hybrid superlattices for light-modulated two-dimensional electronics. *Nature Communications*, **2018**, 9, 2661	17.4	42
202	Control over unfolding pathways by localizing photoisomerization events within heterosequence oligoazobenzene foldamers. *Angewandte Chemie - International Edition*, **2013**, 52, 13740-4	16.4	41
201	Photoisomerization Ability of Molecular Switches Adsorbed on Au(111): Comparison between Azobenzene and Stilbene Derivatives. *Journal of Physical Chemistry C*, **2010**, 114, 1231-1239	3.8	41
200	Hole Catalysis as a General Mechanism for Efficient and Wavelength-Independent Z -lE Azobenzene Isomerization. *CheM*, **2018**, 4, 1740-1755	16.2	41
199	Surface-induced selection during in situ photoswitching at the solid/liquid interface. *Angewandte Chemie - International Edition*, **2015**, 54, 4865-9	16.4	40
198	Construction with macromolecules. *Materials Today*, **2005**, 8, 48-55	21.8	39
197	Photoswitchable triple hydrogen-bonding motif. *Chemical Communications*, **2011**, 47, 460-2	5.8	38
196	Hyperbranched porphyrins□ rapid synthetic approach to multiporphyrin macromolecules. *Chemical Communications*, **2000**, 313-314	5.8	38
195	Immobilization of a photoswitchable piperidine base. *Organic Letters*, **2009**, 11, 4790-3	6.2	37

194	Kinetic analysis of the photochemically and thermally induced isomerization of an azobenzene derivative on Au(111) probed by two-photon photoemission. *Applied Physics A: Materials Science and Processing*, **2008**, 93, 253-260	2.6	37
193	Wrapping peptide tubes: merging biological self-assembly and polymer synthesis. *Angewandte Chemie - International Edition*, **2005**, 44, 6986-9	16.4	37
192	Light-Controlled Reversible Modulation of Frontier Molecular Orbital Energy Levels in Trifluoromethylated Diarylethenes. *Chemistry - A European Journal*, **2017**, 23, 3743-3754	4.8	36
191	Light-Controlled Molecular Zippers Based on Azobenzene Main Chain Polymers. *Macromolecules*, **2015**, 48, 1531-1537	5.5	36
190	Intramolecular Cross-Linking of Helical Folds: An Approach to Organic Nanotubes. *Angewandte Chemie*, **2003**, 115, 6203-6206	3.6	36
189	On-surface polymerization on a semiconducting oxide: aryl halide coupling controlled by surface hydroxyl groups on rutile TiO2(011). *Chemical Communications*, **2015**, 51, 11276-9	5.8	34
188	Substrate-controlled linking of molecular building blocks: Au(111) vs. Cu(111). *Surface Science*, **2014** , 627, 70-74	1.8	34
187	Reversible and Quantitative Denaturation of Amphiphilic Oligo(azobenzene) Foldamers. *Angewandte Chemie*, **2011**, 123, 1678-1681	3.6	34
186	On the electronic and geometrical structure of the trans- and cis-isomer of tetra-tert-butyl-azobenzene on Au(111). *Physical Chemistry Chemical Physics*, **2010**, 12, 4488-97	3.6	34
185	Acid-catalysed thermal cycloreversion of a diarylethene: a potential way for triggered release of stored light energy?. *Chemical Communications*, **2017**, 53, 2150-2153	5.8	33
184	A Versatile Approach for In Situ Monitoring of Photoswitches and Photopolymerizations. *ChemPhotoChem*, **2017**, 1, 125-131	3.3	32
183	Photoswitchable polymerization catalysis: state of the art, challenges, and perspectives. *Chemical Communications*, **2019**, 55, 4290-4298	5.8	31
182	Photoreversible prodrugs and protags: switching the release of maleimides by using light under physiological conditions. *Chemistry - A European Journal*, **2015**, 21, 4422-7	4.8	31
181	Cooperative switching events in azobenzene foldamer denaturation. *Chemistry - A European Journal* , **2012**, 18, 10519-24	4.8	31
180	Aligning the Band Gap of Graphene Nanoribbons by Monomer Doping. *Angewandte Chemie*, **2013**, 125, 4518-4521	3.6	31
179	Energy-Level Engineering at ZnO/Oligophenylene Interfaces with Phosphonate-Based Self-Assembled Monolayers. *ACS Applied Materials & Interfaces*, **2015**, 7, 11900-7	9.5	30
178	On the illusive nature of o-formylazobenzenes: exploiting the nucleophilicity of the azo group for cyclization to indazole derivatives. *Journal of Organic Chemistry*, **2006**, 71, 7840-5	4.2	30
177	Sensitive Assays by Nucleophile-Induced Rearrangement of Photoactivated Diarylethenes. *Journal of the American Chemical Society*, **2018**, 140, 6432-6440	16.4	30

176	The role of statistics and microenvironment for the photoresponse in multi-switch architectures: The case of photoswitchable oligoazobenzene foldamers. *Chemical Science*, **2013**, 4, 4156	9.4	29
175	Gating charge recombination rates through dynamic bridges in tetrathiafulvalene-fullerene architectures. *Angewandte Chemie - International Edition*, **2013**, 52, 13985-90	16.4	29
174	Helically Folding Polymers331-366		29
173	Alternating (SquaraineReceptor) Sensory Polymers: Modular One-Pot Synthesis and Signal Transduction via Conformationally Controlled Exciton Interaction. *Macromolecules*, **2004**, 37, 4761-4769	5.5	29
172	Cooperative Switching in Nanofibers of Azobenzene Oligomers. *Scientific Reports*, **2016**, 6, 25605	4.9	28
171	Photochemistry and photophysics of donor-acceptor-polyenes. I: all-trans-4-dimethylamino-4?-cyano-1,4-diphenylbutadiene (DCB). *Journal of Photochemistry and Photobiology A: Chemistry*, **1999**, 123, 99-108	4.7	28
170	Reversible and Efficient Light-Induced Molecular Switching on an Insulator Surface. *ACS Nano*, **2018**, 12, 1821-1828	16.7	27
169	Zinc oxide modified with benzylphosphonic acids as transparent electrodes in regular and inverted organic solar cell structures. *Applied Physics Letters*, **2015**, 106, 113302	3.4	26
168	Donor-Acceptor Dihydropyrenes Switchable with Near-Infrared Light. *Journal of the American Chemical Society*, **2020**, 142, 11857-11864	16.4	26
167	Controlling the growth mode of para-sexiphenyl (6P) on ZnO by partial fluorination. *Physical Chemistry Chemical Physics*, **2014**, 16, 26084-93	3.6	26
166	Poly(ortho-phenylene ethynylene)s: Synthetic accessibility and optical properties. *Journal of Polymer Science Part A*, **2006**, 44, 1619-1627	2.5	26
165	Ultrafast Dynamics of Photoisomerization and Subsequent Unfolding of an Oligoazobenzene Foldamer. *Journal of the American Chemical Society*, **2016**, 138, 12997-13005	16.4	26
164	Orthogonal switching in four-state azobenzene mixed-dimers. *Chemical Communications*, **2017**, 53, 3323-3326	5.8	25
163	Tuning the formation of discrete coordination nanostructures. *Chemical Communications*, **2015**, 51, 1262	5.8	25
162	Microwave-accelerated synthesis of lengthy and defect-free poly(m-phenyleneethynylene)s via AB' and A2 + BB' polycondensation routes. *Chemical Communications*, **2004**, 300-1	5.8	25
161	Multiresponsive Nonvolatile Memories Based on Optically Switchable Ferroelectric Organic Field-Effect Transistors. *Advanced Materials*, **2021**, 33, e2007965	24	25
160	Broadband transient absorption spectroscopy with 1- and 2-photon excitations: Relaxation paths and cross sections of a triphenylamine dye in solution. *Journal of Chemical Physics*, **2015**, 143, 024311	3.9	24
159	Engineering Optically Switchable Transistors with Improved Performance by Controlling Interactions of Diarylethenes in Polymer Matrices. *Journal of the American Chemical Society*, **2020**, 142, 11050-11059	16.4	24

158	Area Increase and Budding in Giant Vesicles Triggered by Light: Behind the Scene. *Advanced Science* , **2018**, 5, 1800432	13.6	24
157	Lattice matching as the determining factor for molecular tilt and multilayer growth mode of the nanographene hexa-peri-hexabenzocoronene. *ACS Applied Materials & Interfaces*, **2014**, 6, 21484-93	9.5	24
156	Efficient Light-Induced pK Modulation Coupled to Base-Catalyzed Photochromism. *Angewandte Chemie - International Edition*, **2018**, 57, 4797-4801	16.4	23
155	Photoinduced reversible changes in the electronic structure of photochromic diarylethene films. *Applied Physics A: Materials Science and Processing*, **2013**, 113, 1-4	2.6	23
154	Design and synthesis of a photoswitchable guanidine catalyst. *Beilstein Journal of Organic Chemistry*, **2012**, 8, 1825-30	2.5	23
153	Polypseudopeptides with Variable Stereochemistry: Synthesis via Click-Chemistry, Postfunctionalization, and Conformational Behavior in Solution. *Macromolecules*, **2010**, 43, 242-248	5.5	23
152	Poly(propylene oxide)Poly(phenylene ethynylene) Block and Graft Copolymers. *Macromolecules*, **2008**, 41, 3219-3227	5.5	23
151	State-of-Matter-Dependent Charge-Transfer Interactions between Planar Molecules for Doping Applications. *Chemistry of Materials*, **2019**, 31, 1237-1249	9.6	22
150	Two-Photon-Induced versus One-Photon-Induced Isomerization Dynamics of a Bistable Azobenzene Derivative in Solution. *Journal of Physical Chemistry B*, **2015**, 119, 12281-8	3.4	22
149	Singly and Doubly Oxidized Phthalocyanine (pc) Rings: [Cu(pc)(ReO)] and [Cu(pc)(ReO)]. *Angewandte Chemie - International Edition*, **2001**, 40, 244-246	16.4	22
148	Dynamic Photoswitching of Electron Energy Levels at Hybrid ZnO/Organic Photochromic Molecule Junctions. *Advanced Functional Materials*, **2018**, 28, 1800716	15.6	22
147	Modulating the Charge Transport in 2D Semiconductors via Energy-Level Phototuning. *Advanced Materials*, **2019**, 31, e1903402	24	21
146	About Underappreciated Yet Active Conformations of Thiourea Organocatalysts. *Organic Letters*, **2017**, 19, 4199-4202	6.2	21
145	Exploring the conformational space of bridge-substituted dithienylcyclopentenes. *Chemistry - A European Journal*, **2015**, 21, 14545-54	4.8	21
144	Conformationally pre-organized and pH-responsive flat dendrons: synthesis and self-assembly at the liquid-solid interface. *Nanoscale*, **2012**, 4, 467-72	7.7	21
143	Modulating the self-assembly of rigid "clicked" dendrimers at the solid-liquid interface by tuning non-covalent interactions between side groups. *Chemical Communications*, **2011**, 47, 10578-80	5.8	21
142	Formation and manipulation of discrete supramolecular azobenzene assemblies. *Applied Physics A: Materials Science and Processing*, **2008**, 93, 247-252	2.6	21
141	Re- and Preconfigurable Multistable Visible Light Responsive Surface Topographies. *Small*, **2018**, 14, e1803274	11	21

140	Sensibilisierte Zwei-NIR-Photonen-Z-E-Isomerisierung eines im sichtbaren Spektralbereich ansprechbaren und bistabilen Azobenzolderivats. *Angewandte Chemie*, **2016**, 128, 1569-1573	3.6	20
139	Simultaneous Optical Tuning of Hole and Electron Transport in Ambipolar WSe Interfaced with a Bicomponent Photochromic Layer: From High-Mobility Transistors to Flexible Multilevel Memories. *Advanced Materials*, **2020**, 32, e1907903	24	19
138	Light-Orchestrated Macromolecular Accordions: Reversible Photoinduced Shrinking of Rigid-Rod Polymers. *Angewandte Chemie*, **2011**, 123, 12767-12771	3.6	19
137	Exponential growth of functional poly(glutamic acid)dendrimers with variable stereochemistry. *Polymer Chemistry*, **2010**, 1, 69-71	4.9	19
136	Reversible Photomodulation of Electronic Communication in a Conjugated Photoswitch-Fluorophore Molecular Dyad. *Chemistry - A European Journal*, **2016**, 22, 1070-5	4.8	19
135	Kontrolle der Kinetik von Iminaustauschreaktionen mit Photoschaltern zur lichtgesteuerten Modulation der Selbstheilung in Polysiloxannetzwerken. *Angewandte Chemie*, **2016**, 128, 14086-14090	3.6	19
134	External Reversal of Chirality Transfer in Photoswitches. *Angewandte Chemie - International Edition*, **2019**, 58, 1945-1949	16.4	19
133	Light-induced contraction and extension of single macromolecules on a modified graphite surface. *ACS Nano*, **2014**, 8, 11987-93	16.7	18
132	Amphiphilic folded dendrimer discs and their thermosensitive self-assembly in water. *Chemistry - A European Journal*, **2012**, 18, 5837-42	4.8	18
131	Phototuning Selectively Hole and Electron Transport in Optically Switchable Ambipolar Transistors. *Advanced Functional Materials*, **2020**, 30, 1908944	15.6	18
130	Polymerization on Stepped Surfaces: Alignment of Polymers and Identification of Catalytic Sites. *Angewandte Chemie*, **2012**, 124, 5186-5190	3.6	17
129	Covalent Assembly and Characterization of Nonsymmetrical Single-Molecule Nodes. *Angewandte Chemie - International Edition*, **2016**, 55, 13724-13728	16.4	16
128	Kontrolle über Bildung und Bruch kovalenter Verknüpfungen durch Licht. *Angewandte Chemie*, **2014**, 126, 8929-8932	3.6	16
127	Elucidating the backbone conformation of photoswitchable foldamers using vibrational circular dichroism. *Physical Chemistry Chemical Physics*, **2013**, 15, 17263-7	3.6	16
126	Steering a cycloaddition reaction via the surface structure. *Surface Science*, **2018**, 678, 194-200	1.8	16
125	Electronic Properties of Optically Switchable Photochromic Diarylethene Molecules at the Interface with Organic Semiconductors. *ChemPhysChem*, **2017**, 18, 722-727	3.2	15
124	Dynamically Switching the Electronic and Electrostatic Properties of Indium Tin Oxide Electrodes with Photochromic Monolayers: Toward Photoswitchable Optoelectronic Devices. *ACS Applied Nano Materials*, **2019**, 2, 1102-1110	5.6	15
123	Green Emission in Ladder-Type Quarterphenyl: Beyond the Fluorenone-Defect. *Advanced Functional Materials*, **2014**, 24, 7717-7727	15.6	15

122	Influence of linkage chemistry on folding, self-assembly, and photoresponse of amphiphilic azobenzene main chain polymers. *Journal of Polymer Science Part A*, **2015**, 53, 313-318	2.5	15
121	Foldamers Based on Solvophobic Effects75-108		15
120	Wavelength-Dependent Photochemistry of 4-Methoxybicyclo[3.1.0]hexenones. *Journal of Organic Chemistry*, **1998**, 63, 6102-6107	4.2	15
119	Zuverlässiges Schalten von Diarylethenen in beide Richtungen mithilfe von sichtbarem Licht. *Angewandte Chemie*, **2016**, 128, 1226-1230	3.6	15
118	On-Surface Annulation Reaction Cascade for the Selective Synthesis of Diindenopyrene. *ACS Nano*, **2017**, 11, 12419-12425	16.7	14
117	The Role of Morphology in Optically Switchable Transistors Based on a Photochromic Molecule/p-Type Polymer Semiconductor Blend. *Advanced Functional Materials*, **2020**, 30, 1907507	15.6	14
116	Electronic structure changes during the on-surface synthesis of nitrogen-doped chevron-shaped graphene nanoribbons. *Physical Review B*, **2017**, 96,	3.3	13
115	Design of branched and chiral solvatochromic probes: toward quantifying polarity gradients in dendritic macromolecules. *Organic Letters*, **2005**, 7, 5023-6	6.2	13
114	Indexing grazing-incidence X-ray diffraction patterns of thin films: lattices of higher symmetry. *Journal of Applied Crystallography*, **2019**, 52, 428-439	3.8	13
113	Lowering the Healing Temperature of Photoswitchable Dynamic Covalent Polymer Networks. *Macromolecular Rapid Communications*, **2018**, 39, 1700376	4.8	13
112	Proton-Gated Ring-Closure of a Negative Photochromic Azulene-Based Diarylethene. *Angewandte Chemie - International Edition*, **2020**, 59, 18532-18536	16.4	12
111	Effiziente lichtinduzierte pKa-Modulation, gekoppelt mit basenkatalysierter Photochromie. *Angewandte Chemie*, **2018**, 130, 4888-4893	3.6	12
110	Tuning the interaction between carbon nanotubes and dipole switches: the influence of the change of the nanotube-spiropyran distance. *Journal of Physics Condensed Matter*, **2012**, 24, 394005	1.8	12
109	Control over Unfolding Pathways by Localizing Photoisomerization Events within Heterosequence Oligoazobenzene Foldamers. *Angewandte Chemie*, **2013**, 125, 13985-13989	3.6	12
108	Reversible isomerization of an azobenzene derivative adsorbed on Au(1 1 1): Analysis using vibrational spectroscopy. *International Journal of Mass Spectrometry*, **2008**, 277, 223-228	1.9	12
107	Umwickeln von Peptidröhren: Konvergenz von biologischer Selbstorganisation und Polymersynthese. *Angewandte Chemie*, **2005**, 117, 7146-7149	3.6	12
106	Tunable Photomechanics in Diarylethene-Driven Liquid Crystal Network Actuators. *ACS Applied Materials & Interfaces*, **2020**, 12, 47939-47947	9.5	12
105	Graphene transistors for real-time monitoring molecular self-assembly dynamics. *Nature Communications*, **2020**, 11, 4731	17.4	12

104	Tough Multimaterial Interfaces through Wavelength-Selective 3D Printing. *ACS Applied Materials & Interfaces*, **2021**, 13, 22065-22072	9.5	12
103	Comparing Isomeric Tridentate Carbazole-Based Click Ligands: Metal Complexes and Redox Chemistry. *Chemistry - A European Journal*, **2018**, 24, 5341-5349	4.8	11
102	Making nonsymmetrical bricks: synthesis of insoluble dipolar sexiphenyls. *Organic Letters*, **2014**, 16, 2838-41	6.2	11
101	Diarylethene Photoswitches Featuring Tetrathiafulvalene-Containing Aryl Units. *Journal of Physical Chemistry C*, **2013**, 117, 23529-23538	3.8	11
100	Cascade energy transfer versus charge separation in ladder-type oligo(p-phenylene)/ZnO hybrid structures for light-emitting applications. *Applied Physics Letters*, **2014**, 105, 233301	3.4	11
99	Bis(phenoxy-azo)titanium(IV) Complexes: Synthesis, Structure, and Catalytic Activity in Styrene Polymerization. *Organometallics*, **2012**, 31, 4216-4220	3.8	11
98	Molecules with multiple switching units on a Au(111) surface: self-organization and single-molecule manipulation. *Journal of Physics Condensed Matter*, **2012**, 24, 394013	1.8	11
97	Simulation of Folding Equilibria173-192		11
96	Avenues into the synthesis of illusive poly(m-phenylene-alt-squaraine)s: polycondensation of m-phenylenediamines with squaric acid intercepted by intermediate semisquaraines of exceptionally low reactivity. *Journal of Organic Chemistry*, **2004**, 69, 184-7	4.2	11
95	Accelerated Discovery of Cyanodiarylethene Photoswitches. *Journal of the American Chemical Society*, **2021**, 143, 9162-9168	16.4	11
94	Predicting the yield of ion pair formation in molecular electrical doping: redox-potentials versus ionization energy/electron affinity. *Journal of Materials Chemistry C*, **2019**, 7, 13839-13848	7.1	11
93	Modulierung der Gastaufnahme in Core-Shell-MOFs mit sichtbarem Licht. *Angewandte Chemie*, **2019**, 131, 12994-12999	3.6	10
92	Switching the Electronic Properties of ZnO Surfaces with Negative T-Type Photochromic Pyridyl-dihydropyrene Layers and Impact of Fermi Level Pinning. *Advanced Materials Interfaces*, **2019**, 6, 1900211	4.6	10
91	Mechanistic Insights into the Triplet Sensitized Photochromism of Diarylethenes. *Chemistry - A European Journal*, **2020**, 26, 7672-7677	4.8	10
90	Electronic Activity Tuning of Acyclic Guanidines for Lactide Polymerization. *Macromolecules*, **2015**, 48, 8729-8732	5.5	10
89	Electronic communication in linear oligo(azobenzene) radical anions. *Journal of Physical Chemistry A* , **2013**, 117, 14056-64	2.8	10
88	Foldamers Based on Remote Intrastrand Interactions35-74		10
87	Photochemical Degradation of Various Bridge-Substituted Fluorene-Based Materials. *Journal of Physical Chemistry A*, **2016**, 120, 5474-80	2.8	10

86	Photomodulation of Charge Transport in All-Semiconducting 2D-1D van der Waals Heterostructures with Suppressed Persistent Photoconductivity Effect. *Advanced Materials*, **2020**, 32, e2001268	24	9
85	Photochromie jenseits des Sichtbaren: Direkte, im biologischen Fenster addressierbare Einphotonen-NIR-Photoschalter. *Angewandte Chemie*, **2018**, 130, 1429-1432	3.6	9
84	Subtle Fluorination of Conjugated Molecules Enables Stable Nanoscale Assemblies on Metal Surfaces. *Journal of Physical Chemistry C*, **2018**, 122, 18902-18911	3.8	9
83	From peptides to their alternating ester-urea analogues: synthesis and influence of hydrogen bonding motif and stereochemistry on aggregation. *Journal of Organic Chemistry*, **2010**, 75, 772-82	4.2	9
82	Einzelne molekulare Dr□te verbinden metallische und isolierende Oberfl□chenbereiche. *Angewandte Chemie*, **2009**, 121, 10151-10155	3.6	9
81	Control of long-distance motion of single molecules on a surface. *Science*, **2020**, 370, 957-960	33.3	9
80	Highly Cooperative Photoswitching in Dihydropyrene Dimers. *Angewandte Chemie - International Edition*, **2020**, 59, 19352-19358	16.4	9
79	Chirality Remote Control in Nanoporous Materials by Circularly Polarized Light. *Journal of the American Chemical Society*, **2021**, 143, 7059-7068	16.4	9
78	Self-assembly of partially fluorinated hexabenzocoronene derivatives in the solid state. *Physical Chemistry Chemical Physics*, **2016**, 18, 33344-33350	3.6	9
77	Tuning of the electronic and photophysical properties of ladder-type quaterphenyl by selective methylene-bridge fluorination. *Physical Chemistry Chemical Physics*, **2016**, 18, 16501-8	3.6	9
76	Dihydropyrene as an Aromaticity Probe for Partially Quinoid Push-Pull Systems. *ChemPlusChem*, **2017**, 82, 1025-1029	2.8	8
75	Modulating the luminance of organic light-emitting diodes via optical stimulation of a photochromic molecular monolayer at transparent oxide electrode. *Nanoscale*, **2020**, 12, 5444-5451	7.7	8
74	Gradual Fluorination of Ladder-type Quarterphenyl. *Israel Journal of Chemistry*, **2014**, 54, 789-795	3.4	8
73	Functional organic nanotubes from hollow helical scaffolds. *Synthetic Metals*, **2004**, 147, 37-42	3.6	8
72	Ternary-Responsive Field-Effect Transistors and Multilevel Memories Based on Asymmetrically Functionalized Janus Few-Layer WSe2. *Advanced Functional Materials*, **2021**, 31, 2102721	15.6	8
71	Nucleic Acid Foldamers: Design, Engineering and Selection of Programmable Biomaterials with Recognition, Catalytic and Self-assembly Properties291-329		8
70	Ultrafast Light-Driven Substrate Expulsion from the Active Site of a Photoswitchable Catalyst. *Angewandte Chemie - International Edition*, **2017**, 56, 12092-12096	16.4	7
69	Lichtaktivierte Sensoren zur empfindlichen Amindetektion. *Angewandte Chemie*, **2017**, 129, 1941-1945	3.6	7

68	Synthesis of a new class of bis(thiourea)hydrazide pseudopeptides as potential inhibitors of -sheet aggregation. *Organic Letters*, **2012**, 14, 330-3	6.2	7
67	Designing a spiropyran-based molecular switch for carbon nanotube functionalization: Influence of anchor groups and tube-switch separation. *Physica Status Solidi (B): Basic Research*, **2012**, 249, 2479-2482	1.3	7
66	Modular Synthesis of Monomers for On-Surface Polymerization to Graphene Architectures. *Synlett*, **2013**, 24, 259-263	2.2	7
65	Foldamers Based on Local Conformational Preferences1-33		7
64	Click Chemistry Derived Pyridazines: Electron-Deficient Building Blocks with Defined Conformation and Packing Structure. *Chemistry - an Asian Journal*, **2017**, 12, 3156-3161	4.5	6
63	Surface-Induced Selection During In Situ Photoswitching at the Solid/Liquid Interface. *Angewandte Chemie*, **2015**, 127, 4947-4951	3.6	6
62	Nanoreactors: Chemistry in and out of nanoflasks. *Nature Nanotechnology*, **2016**, 11, 6-7	28.7	6
61	Efficient Sensitized Z-E Photoisomerization of an Iridium(III)-Azobenzene Complex over a Wide Concentration Range. *Chemistry - A European Journal*, **2017**, 23, 14090-14095	4.8	6
60	Light-induced photoisomerization of a diarylethene molecular switch on solid surfaces. *Journal of Physics Condensed Matter*, **2017**, 29, 374001	1.8	6
59	Gating Charge Recombination Rates through Dynamic Bridges in Tetrathiafulvalene-Fullerene Architectures. *Angewandte Chemie*, **2013**, 125, 14235-14240	3.6	6
58	The Emergence of Covalent On-Surface Polymerization. *Advances in Atom and Single Molecule Machines*, **2016**, 1-21	0	6
57	Observing single-atom diffusion at a molecule-metal interface. *Physical Review B*, **2016**, 94,	3.3	6
56	Oxidative and reductive cyclization in stiff dithienylethenes. *Beilstein Journal of Organic Chemistry*, **2018**, 14, 2812-2821	2.5	6
55	Fingerprint of Charge Redistribution in the Optical Spectra of Hybrid Inorganic/Organic Semiconductor Interfaces. *Journal of Physical Chemistry C*, **2018**, 122, 12913-12919	3.8	6
54	Hybrid polaritons in a resonant inorganic/organic semiconductor microcavity. *Applied Physics Letters*, **2015**, 107, 181109	3.4	5
53	Foldamer Hybrids: Defined Supramolecular Structures from Flexible Molecules109-146		5
52	General Synthesis and Optical Properties of N-Aryl-N?-Silyldiazenes. *Organometallics*, **2019**, 38, 4679-4686	3.8	5
51	Spiro-Bridged Ladder-Type Oligo(para-phenylene)s: Fine Tuning Solid State Structure and Optical Properties. *Advanced Functional Materials*, **2017**, 27, 1704077	15.6	4

50	Multivalency in Heteroternary Complexes on Cucurbit[8]uril-Functionalized Surfaces: Self-assembly, Patterning, and Exchange Processes. *ChemPlusChem*, **2019**, 84, 1324-1330	2.8	4
49	Simultaneous Effect of Ultraviolet Radiation and Surface Modification on the Work Function and Hole Injection Properties of ZnO Thin Films. *Physica Status Solidi (A) Applications and Materials Science*, **2020**, 217, 1900876	1.6	4
48	Bottom-up zu molekularen Nanostrukturen. *Nachrichten Aus Der Chemie*, **2012**, 60, 986-990	0.1	4
47	A photoprogrammable electronic nose with switchable selectivity for VOCs using MOF films.. *Chemical Science*, **2021**, 12, 15700-15709	9.4	4
46	Dipolar Substitution Impacts Growth and Electronic Properties of Para-Sexiphenyl Thin Films. *Advanced Materials Interfaces*, **2020**, 7, 1901707	4.6	4
45	Imine-based dynamic polymer networks as photoprogrammable amine sensing devices. *Journal of Polymer Science Part A*, **2019**, 57, 2378-2382	2.5	4
44	Uncovering the (un-)occupied electronic structure of a buried hybrid interface. *Journal of Physics Condensed Matter*, **2019**, 31, 094001	1.8	4
43	Externe Umkehr eines Chiralitätstransfers im Photoschalter. *Angewandte Chemie*, **2019**, 131, 1965-1969	3.6	4
42	Engineering crack tortuosity in printed polymer–polymer composites through ordered pores. *Materials Horizons*, **2020**, 7, 1854-1860	14.4	4
41	Light-mediated chiroptical switching of an achiral foldamer host in presence of a carbohydrate guest. *Chemical Communications*, **2021**, 57, 93-96	5.8	4
40	Connectivity pattern modifies excited state relaxation dynamics of fluorophore-photoswitch molecular dyads. *Physical Chemistry Chemical Physics*, **2017**, 19, 4010-4018	3.6	3
39	Ordered Donor–Acceptor Complex Formation and Electron Transfer in Co-deposited Films of Structurally Dissimilar Molecules. *Journal of Physical Chemistry C*, **2020**, 124, 11023-11031	3.8	3
38	Ultrafast Light-Driven Substrate Expulsion from the Active Site of a Photoswitchable Catalyst. *Angewandte Chemie*, **2017**, 129, 12260-12264	3.6	3
37	On-Surface Polymerization: From Polyarylenes to Graphene Nanoribbons and Two-Dimensional Networks. *Advances in Polymer Science*, **2017**, 99-125	1.3	3
36	Discrete multiporphyrin pseudorotaxane assemblies from di- and tetravalent porphyrin building blocks. *Beilstein Journal of Organic Chemistry*, **2015**, 11, 748-62	2.5	3
35	Polyisocyanides: Stiffened Foldamers367-402		3
34	Biological Applications of Foldamers229-265		3
33	Control of Polypeptide Chain Folding and Assembly147-171		3

32	Protonenvermittelter Ringschluss eines negativ photochromen, Azulen-basierten Diarylethens. *Angewandte Chemie*, **2020**, 132, 18690-18695	3.6	2
31	Dependence of the adsorption height of graphenelike adsorbates on their dimensionality. *Physical Review B*, **2018**, 98,	3.3	2
30	Strong coupling and laser action of ladder-type oligo(p-phenylene)s in a microcavity. *ChemPhysChem*, **2014**, 15, 3805-8	3.2	2
29	Island formation and manipulation of prochiral azobenzene derivatives on Au(111). *Journal of Physics Condensed Matter*, **2012**, 24, 354013	1.8	2
28	Foldamers at Interfaces403-425		2
27	Electronic Properties of Optically Switchable Photochromic Diarylethene Molecules at the Interface with Organic Semiconductors. *ChemPhysChem*, **2017**, 18, 717-717	3.2	1
26	Oligothiophene-Based Phosphonates for Surface Modification of Ultraflat Transparent Conductive Oxides. *Advanced Materials Interfaces*, **2020**, 7, 1902114	4.6	1
25	Charge Transport: Photomodulation of Charge Transport in All-Semiconducting 2D–1D van der Waals Heterostructures with Suppressed Persistent Photoconductivity Effect (Adv. Mater. 26/2020). *Advanced Materials*, **2020**, 32, 2070200	24	1
24	Foldamer-based Molecular Recognition193-228		1
23	Diarylethenes in Optically Switchable Organic Light-Emitting Diodes: Direct Investigation of the Reversible Charge Carrier Trapping Process. *Advanced Optical Materials*,2101116	8.1	1
22	Reversible training of waveguide-based AND/OR gates for optically driven artificial neural networks using photochromic molecules. *Journal Physics D: Applied Physics*, **2022**, 55, 044002	3	1
21	Using Active Surface Plasmons in a Multibit Optical Storage Device to Emulate Long-Term Synaptic Plasticity. *Physica Status Solidi (A) Applications and Materials Science*, **2020**, 217, 2000354	1.6	1
20	Binding of a TlCl Entity by a Tetragold Tetramercaptothiacalixarene Metalloligand via Metallophilic Interactions. *Chemistry - A European Journal*, **2021**, 27, 8344-8349	4.8	1
19	Molecular Dissociation on the SiC(0001) 3□ Surface. *ChemPhysChem*, **2016**, 17, 3900-3906	3.2	1
18	Avoiding the Center-Symmetry Trap: Programmed Assembly of Dipolar Precursors into Porous, Crystalline Molecular Thin Films. *Advanced Materials*, **2021**, 33, e2103287	24	1
17	Auf dem Weg zum Replikator. *Physik in Unserer Zeit*, **2022**, 53, 125-131	0.1	1
16	Protein Design267-289		0
15	Hochkooperatives Photoschalten in Dihydropyren-Dimeren. *Angewandte Chemie*, **2020**, 132, 19517-19523	3.6	0

14	Photoswitchable Components to Drive Molecular Systems Away from Global Thermodynamic Minimum by Light1 **2021**, 275-304		0
13	Photocontrollable Modulation of Frontier Molecular Orbital Energy Levels of Cyclopentenone-Based Diarylethenes. *Journal of Physical Chemistry A*, **2021**, 125, 3681-3688	2.8	0
12	Strategies for Switching with Visible Light **2017**, 93-114		
11	Optisch konfigurierbarer, organischer Transistor. *Physik in Unserer Zeit*, **2019**, 50, 112-113	0.1	
10	Ambipolar Semiconductors: Simultaneous Optical Tuning of Hole and Electron Transport in Ambipolar WSe2 Interfaced with a Bicomponent Photochromic Layer: From High-Mobility Transistors to Flexible Multilevel Memories (Adv. Mater. 11/2020). *Advanced Materials*, **2020**, 32, 2070085	24	
9	Covalent Assembly and Characterization of Nonsymmetrical Single-Molecule Nodes. *Angewandte Chemie*, **2016**, 128, 13928-13932	3.6	
8	Innenr□ktitelbild: Kontrolle der Kinetik von Iminaustauschreaktionen mit Photoschaltern zur lichtgesteuerten Modulation der Selbstheilung in Polysiloxannetzwerken (Angew. Chem. 44/2016). *Angewandte Chemie*, **2016**, 128, 14103-14103	3.6	
7	Photoswitchable General Base Catalysts **2013**, 139-145		
6	Light-triggered conversion of non-ionic into ionic surfactants: towards chameleon detergents for 2-D gel electrophoresis. *Photochemical and Photobiological Sciences*, **2012**, 11, 497-9	4.2	
5	Stefan Hecht. *Angewandte Chemie - International Edition*, **2011**, 50, 7218	16.4	
4	Light-Gated Chemical Reactions and Catalytic Processes **2016**, 167-193		
3	Stereoinformation Relay: Coupling Diastereoselectivity of a Thermal Diels-Alder Reaction with the Photochemical Ring-Closure of Diarylethenes. *ChemPhotoChem*, **2019**, 3, 461-466	3.3	
2	Ternary-Responsive Field-Effect Transistors and Multilevel Memories Based on Asymmetrically Functionalized Janus Few-Layer WSe2 (Adv. Funct. Mater. 36/2021). *Advanced Functional Materials*, **2021**, 31, 2170268	15.6	
1	Versatile Photoswitchable Molecules in Catalysis **2022**, 455-475		