Bernd KnÃ¶ll

List of Publications by Year
in descending order

102	4,076	109321	128289
papers	citations	35 h-index	60 g-index

108	108	108	5378
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Correlating Reaction Dynamics and Size Change during the Photomechanical Transformation of 9â€Methylanthracene Single Crystals. Angewandte Chemie - International Edition, 2022, 61, .	13.8	21
2	Correlating Reaction Dynamics and Size Change during the Photomechanical Transformation of 9â€Methylanthracene Single Crystals. Angewandte Chemie, 2022, 134, e202114089.	2.0	6
3	Using Small Molecule Absorbers to Create a Photothermal Wax Motor. Small, 2022, 18, e2105356.	10.0	6
4	Motoneuron-Specific PTEN Deletion in Mice Induces Neuronal Hypertrophy and Also Regeneration after Facial Nerve Injury. Journal of Neuroscience, 2022, 42, 2474-2491.	3.6	6
5	InnenrÃ¼cktitelbild: Correlating Reaction Dynamics and Size Change during the Photomechanical Transformation of 9â€Methylanthracene Single Crystals (Angew. Chem. 2/2022). Angewandte Chemie, 2022, 134, .	2.0	0
6	Single-molecule tracking (SMT) and localization of SRF and MRTF transcription factors during neuronal stimulation and differentiation. Open Biology, 2022, 12, 210383.	3.6	4
7	Photomechanical Structures Based on Porous Alumina Templates Filled with 9-Methylanthracene Nanowires. Crystals, 2022, 12, 808.	2.2	1
8	Lightâ€Powered Autonomous Flagellaâ€Like Motion of Molecular Crystal Microwires. Angewandte Chemie, 2021, 133, 2444-2453.	2.0	26
9	Lightâ€Powered Autonomous Flagellaâ€Like Motion of Molecular Crystal Microwires. Angewandte Chemie - International Edition, 2021, 60, 2414-2423.	13.8	42
10	Effect of halogen substitution on energies and dynamics of reversible photomechanical crystals based on 9-anthracenecarboxylic acid. CrystEngComm, 2021, 23, 5931-5943.	2.6	14
11	Optimizing pulsed-laser ablation production of AlCl molecules for laser cooling. Physical Chemistry Chemical Physics, 2021, 23, 22785-22793.	2.8	3
12	Synthesis and Photophysical Properties of Soluble Nâ€Doped Rubicenes via Rutheniumâ€Catalyzed Transfer Hydrogenative Benzannulation. Chemistry - A European Journal, 2021, 27, 4898-4902.	3.3	9
13	Reversible Adhesion Switching Using Spiropyran Photoisomerization in a High Glass Transition Temperature Polymer. Macromolecules, 2021, 54, 9319-9326.	4.8	15
14	Chemical Tuning of Exciton versus Charge-Transfer Excited States in Conformationally Restricted Arylene Cages. Journal of the American Chemical Society, 2021, 143, 18548-18558.	13.7	8
15	InnenrÃ¼cktitelbild: Lightâ€Powered Autonomous Flagellaâ€Like Motion of Molecular Crystal Microwires (Angew. Chem. 5/2021). Angewandte Chemie, 2021, 133, 2739-2739.	2.0	0
16	Excitons: Energetics and spatiotemporal dynamics. Journal of Chemical Physics, 2021, 155, 200401.	3.0	3
17	Effects of Template and Molecular Nanostructure on the Performance of Organicâ€“Inorganic Photomechanical Actuator Membranes. Advanced Functional Materials, 2020, 30, 1902396.	14.9	12
18	Symmetry Breaking and Photomechanical Behavior of Photochromic Organic Crystals. Symmetry, 2020, 12, 1478.	2.2	9

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19	Thickness-Dependent Exciton Dynamics in Thermally Evaporated Rubrene Thin Films. Journal of Physical Chemistry C, 2020, 124, 25729-25737.	3.1	4
20	Molecular Crystal Microcapsules: Formation of Sealed Hollow Chambers via Surfactantâ€Mediated Growth. Angewandte Chemie - International Edition, 2020, 59, 23035-23039.	13.8	17
21	Molecular Crystal Microcapsules: Formation of Sealed Hollow Chambers via Surfactantâ€Mediated Growth. Angewandte Chemie, 2020, 132, 23235-23239.	2.0	7
22	Using light intensity to control reaction kinetics and reversibility in photomechanical crystals. Chemical Science, 2020, 11, 9852-9862.	7.4	18
23	Lipid metabolism adaptations are reduced in human compared to murine Schwann cells following injury. Nature Communications, 2020, 11, 2123.	12.8	18
24	The FTLD Risk Factor TMEM106B Regulates the Transport of Lysosomes at the Axon Initial Segment of Motoneurons. Cell Reports, 2020, 30, 3506-3519.e6.	6.4	47
25	Interference with SRF expression in skeletal muscles reduces peripheral nerve regeneration in mice. Scientific Reports, 2020, 10, 5281.	3.3	4
26	Effects of solvent and micellar encapsulation on the photostability of avobenzone. Photochemical and Photobiological Sciences, 2020, 19, 390-398.	2.9	14
27	Interference of neuronal activityâ€mediated gene expression through serum response factor deletion enhances mortality and hyperactivity after traumatic brain injury. FASEB Journal, 2020, 34, 3855-3873.	0.5	10
28	Shaping Organic Microcrystals Using Focused Ion Beam Milling. Crystal Growth and Design, 2020, 20, 1583-1589.	3.0	12
29	Photomechanical molecular crystals and nanowire assemblies based on the [2+2] photodimerization of a phenylbutadiene derivative. Journal of Materials Chemistry C, 2020, 8, 5036-5044.	5.5	49
30	Crystalâ€toâ€Gel Transformation Stimulated by a Solidâ€State Eâ†'Z Photoisomerization. Angewandte Chemie, 2019, 131, 15575-15580.	2.0	9
31	Crystalâ€toâ€Gel Transformation Stimulated by a Solidâ€State Eâ†'Z Photoisomerization. Angewandte Chemie - International Edition, 2019, 58, 15429-15434.	13.8	22
32	Photoinduced Deadhesion of a Polymer Film Using a Photochromic Donorâ€“Acceptor Stenhouse Adduct. Macromolecules, 2019, 52, 6311-6317.	4.8	27
33	Time dependent correlations of entangled states with nondegenerate branches and possible experimental realization using singlet fission. Journal of Chemical Physics, 2019, 151, 124503.	3.0	22
34	Modeling trauma in rats: similarities to humans and potential pitfalls to consider. Journal of Translational Medicine, 2019, 17, 305.	4.4	51
35	Indirect visualization of endogenous nuclear actin by correlative light and electron microscopy (CLEM) using an actin-directed chromobody. Histochemistry and Cell Biology, 2019, 152, 133-143.	1.7	7
36	STAT6 mediates the effect of ethanol on neuroinflammatory response in TBI. Brain, Behavior, and Immunity, 2019, 81, 228-246.	4.1	31

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37	Three-Dimensional In vivo Magnetic Resonance Imaging (MRI) of Mouse Facial Nerve Regeneration. Frontiers in Neurology, 2019, 10, 310.	2.4	4
38	Sequenceâ€Optimized Peptide Nanofibers as Growth Stimulators for Regeneration of Peripheral Neurons. Advanced Functional Materials, 2019, 29, 1809112.	14.9	19
39	Autonomous Ultrafast Selfâ€Healing Hydrogels by pHâ€Responsive Functional Nanofiber Gelators as Cell Matrices. Advanced Materials, 2019, 31, e1805044.	21.0	60
40	Single-molecule imaging of the transcription factor SRF reveals prolonged chromatin-binding kinetics upon cell stimulation. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 880-889.	7.1	69
41	Hybrid Organicâ€“Inorganic Photon-Powered Actuators Based on Aligned Diarylethene Nanocrystals. Chemistry of Materials, 2019, 31, 1016-1022.	6.7	59
42	Neuroinflammation after Traumatic Brain Injury Is Enhanced in Activating Transcription Factor 3 Mutant Mice. Journal of Neurotrauma, 2018, 35, 2317-2329.	3.4	47
43	Photomechanically Induced Magnetic Field Response by Controlling Molecular Orientation in 9â€Methylanthracene Microcrystals. Angewandte Chemie, 2018, 130, 7198-7202.	2.0	16
44	Photomechanically Induced Magnetic Field Response by Controlling Molecular Orientation in 9â€Methylanthracene Microcrystals. Angewandte Chemie - International Edition, 2018, 57, 7080-7084.	13.8	40
45	Waterâ€Dispersible Polydopamineâ€Coated Nanofibers for Stimulation of Neuronal Growth and Adhesion. Advanced Healthcare Materials, 2018, 7, e1701485.	7.6	29
46	Control of Photomechanical Crystal Twisting by Illumination Direction. Journal of the American Chemical Society, 2018, 140, 4208-4212.	13.7	154
47	The molecular tweezer CLR01 inhibits Ebola and Zika virus infection. Antiviral Research, 2018, 152, 26-35.	4.1	31
48	Surfactant-Enhanced Photoisomerization and Photomechanical Response in Molecular Crystal Nanowires. Langmuir, 2018, 34, 1627-1634.	3.5	19
49	Neuroprotective effect of acute ethanol intoxication in TBI is associated to the hierarchical modulation of early transcriptional responses. Experimental Neurology, 2018, 302, 34-45.	4.1	22
50	Efficient Tripletâ€“Triplet Annihilation Upconversion in an Electroluminescence Device with a Fluorescent Sensitizer and a Tripletâ€Diffusion Singletâ€Blocking Layer. Advanced Materials, 2018, 30, e1804850.	21.0	47
51	P-108: Positive Aging Mechanisms for High-efficiency Blue Quantum Dot Light-emitting Diodes. Digest of Technical Papers SID International Symposium, 2018, 49, 1622-1624.	0.3	8
52	Photon Upconversion in Crystalline Rubrene: Resonant Enhancement by an Interband State. Journal of Physical Chemistry C, 2018, 122, 17632-17642.	3.1	14
53	Protection of Molecular Microcrystals by Encapsulation under Single-Layer Graphene. ACS Omega, 2018, 3, 8129-8134.	3.5	14
54	Exciplex-Sensitized Tripletâ€“Triplet Annihilation in Heterojunction Organic Thin-Film. ACS Applied Materials & Interfaces, 2017, 9, 10963-10970.	8.0	39

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55	Highly branched photomechanical crystals. Chemical Communications, 2017, 53, 2622-2625.	4.1	45
56	Serum Response Factor (SRF) Ablation Interferes with Acute Stress-Associated Immediate and Long-Term Coping Mechanisms. Molecular Neurobiology, 2017, 54, 8242-8262.	4.0	12
57	Functional and Molecular Characterization of a Novel Traumatic Peripheral Nerveâ€“Muscle Injury Model. NeuroMolecular Medicine, 2017, 19, 357-374.	3.4	18
58	SRF modulates seizure occurrence, activity induced gene transcription and hippocampal circuit reorganization in the mouse pilocarpine epilepsy model. Molecular Brain, 2017, 10, 30.	2.6	47
59	Photoinduced Ratchetâ€Like Rotational Motion of Branched Molecular Crystals. Angewandte Chemie - International Edition, 2016, 55, 7073-7076.	13.8	78
60	Atf3 mutant mice show reduced axon regeneration and impaired regeneration-associated gene induction after peripheral nerve injury. Open Biology, 2016, 6, 160091.	3.6	82
61	Characterization of a P-type photomechanical molecular crystal based on the E â†' Z photoisomerization of 9-divinylanthracene malonitrile. Journal of Materials Chemistry C, 2016, 4, 8245-8252.	5.5	21
62	Analysis of reaction kinetics in the photomechanical molecular crystal 9-methylanthracene using an extended Finkeâ€“Watzky model. Physical Chemistry Chemical Physics, 2016, 18, 31936-31945.	2.8	45
63	Crystal structure of the meta-stable intermediate in the photomechanical, crystal-to-crystal reaction of 9-tert-butyl anthracene ester. CrystEngComm, 2016, 18, 7319-7329.	2.6	29
64	Photoinduced Ratchetâ€Like Rotational Motion of Branched Molecular Crystals. Angewandte Chemie, 2016, 128, 7189-7192.	2.0	25
65	Proteomic analysis of SRF associated transcription complexes identified TFII-I as modulator of SRF function in neurons. European Journal of Cell Biology, 2016, 95, 42-56.	3.6	6
66	The multiple sclerosis drug fingolimod (FTY720) stimulates neuronal gene expression, axonal growth and regeneration. Experimental Neurology, 2016, 279, 243-260.	4.1	45
67	Neuronal expression of the transcription factor serum response factor modulates myelination in a mouse multiple sclerosis model. Glia, 2015, 63, 958-976.	4.9	9
68	Excited-State Dynamics of Diindenoperylene in Liquid Solution and in Solid Films. Journal of Physical Chemistry C, 2015, 119, 12856-12864.	3.1	18
69	Ligand Binding to Distinct Sites on Nanocrystals Affecting Energy and Charge Transfer. Journal of Physical Chemistry Letters, 2015, 6, 1709-1713.	4.6	9
70	How Morphology Affects Singlet Fission in Crystalline Tetracene. Journal of Physical Chemistry Letters, 2015, 6, 1841-1846.	4.6	161
71	Nanocrystal Size and Quantum Yield in the Upconversion of Green to Violet Light with CdSe and Anthracene Derivatives. Chemistry of Materials, 2015, 27, 7503-7507.	6.7	90
72	Neuronal gene transcription modulates demyelination and remyelination in a mouse model of multiple sclerosis. Neural Regeneration Research, 2015, 10, 1401.	3.0	0

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73	CNS axon regeneration inhibitors stimulate an immediate early gene response via MAP kinase-SRF signaling. Molecular Brain, 2014, 7, 86.	2.6	14
74	Organic Photomechanical Materials. ChemPhysChem, 2014, 15, 400-414.	2.1	185
75	Promotion of atomic hydrogen recombination as an alternative to electron trapping for the role of metals in the photocatalytic production of H ₂. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 7942-7947.	7.1	109
76	Analysis of nuclear actin by overexpression of wild-type and actin mutant proteins. Histochemistry and Cell Biology, 2014, 141, 123-135.	1.7	30
77	The Structure and Dynamics of Molecular Excitons. Annual Review of Physical Chemistry, 2014, 65, 127-148.	10.8	213
78	Improved Solid-State Photomechanical Materials by Fluorine Substitution of 9-Anthracene Carboxylic Acid. Chemistry of Materials, 2014, 26, 6007-6015.	6.7	64
79	Singlet Fission: From Coherences to Kinetics. Journal of Physical Chemistry Letters, 2014, 5, 2312-2319.	4.6	123
80	Excitonic processes in molecular crystalline materials. MRS Bulletin, 2013, 38, 65-71.	3.5	29
81	The Transcription Factor Serum Response Factor Stimulates Axon Regeneration through Cytoplasmic Localization and Cofilin Interaction. Journal of Neuroscience, 2013, 33, 18836-18848.	3.6	35
82	Dependence of the solid-state photomechanical response of 4-chlorocinnamic acid on crystal shape and size. CrystEngComm, 2012, 14, 7792.	2.6	67
83	Serum response factor modulates neuron survival during peripheral axon injury. Journal of Neuroinflammation, 2012, 9, 78.	7.2	31
84	Solid-state photochemical and photomechanical properties of molecular crystal nanorods composed of anthracene ester derivatives. Journal of Materials Chemistry, 2011, 21, 6258.	6.7	76
85	Zytoskelett und Nukleus: Die Rolle von Aktin als Modulator der neuronalen Genexpression. E-Neuroforum, 2011, 17, 4-11.	0.1	0
86	Serum response factor mediated gene activity in physiological and pathological processes of neuronal motility. Frontiers in Molecular Neuroscience, 2011, 4, 49.	2.9	9
87	Ephrin-A5 Suppresses Neurotrophin Evoked Neuronal Motility, ERK Activation and Gene Expression. PLoS ONE, 2011, 6, e26089.	2.5	28
88	Fluorescence Quenching in Conjugated Polymers Blended with Reduced Graphitic Oxide. Journal of Physical Chemistry C, 2010, 114, 4153-4159.	3.1	101
89	Formation of Cocrystal Nanorods by Solid-State Reaction of Tetracyanobenzene in 9-Methylanthracene Molecular Crystal Nanorods. Crystal Growth and Design, 2009, 9, 1780-1785.	3.0	21
90	Functional versatility of transcription factors in the nervous system: the SRF paradigm. Trends in Neurosciences, 2009, 32, 432-442.	8.6	139

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91	Photopolymerization of Organic Molecular Crystal Nanorods. Macromolecules, 2007, 40, 9040-9044.	4.8	39
92	Using a Streak Camera to Resolve the Motion of Molecular Excited States with Picosecond Time Resolution and 150 nm Spatial Resolution. Journal of Physical Chemistry C, 2007, 111, 12483-12489.	3.1	14
93	Stripe assay to examine axonal guidance and cell migration. Nature Protocols, 2007, 2, 1216-1224.	12.0	93
94	Microgravimetric immunosensor for direct detection of aerosolized influenza A virus particles. Sensors and Actuators B: Chemical, 2007, 126, 691-699.	7.8	64
95	General method for the synthesis of crystalline organic nanorods using porous alumina templates. Chemical Communications, 2006, , 1224.	4.1	59
96	Photochemically Driven Shape Changes of Crystalline Organic Nanorods. Journal of the American Chemical Society, 2006, 128, 15938-15939.	13.7	206
97	Serum response factor controls neuronal circuit assembly in the hippocampus. Nature Neuroscience, 2006, 9, 195-204.	14.8	147
98	The Roles of Serum Response Factor (SRF) in Development and Function of the Brain. , 2006, , 95-111.		1
99	Timeâ€resolved Microscopy of ChromatinIn VitroandIn Vivo^{Â¶}. Photochemistry and Photobiology, 2005, 81, 548-555.	2.5	0
100	Ephrin-As as receptors in topographic projections. Trends in Neurosciences, 2002, 25, 145-149.	8.6	182
101	Performance of Composite Glassâ€“Diarylethene Crystal Photomechanical Actuator Membranes. ACS Applied Materials & Interfaces, 0, , .	8.0	4
102	Patterning Submicron Photomechanical Features into Single Diarylethene Crystals Using Electron Beam Lithography. Nanoscale Horizons, 0, , .	8.0	2