Thomas Fuhrmann-Lieker

List of Publications by Year
in descending order

38 papers	2,479 citations	394421 19 h-index	330143 37 g-index
40 all docs	40 docs citations	40 times ranked	3092 citing authors

#	Article	IF	Citations
1	Spiro Compounds for Organic Optoelectronics. Chemical Reviews, 2007, 107, 1011-1065.	47.7	915
2	Diatoms as living photonic crystals. Applied Physics B: Lasers and Optics, 2004, 78, 257-260.	2.2	324
3	Organic phototransistor based on intramolecular charge transfer in a bifunctional spiro compound. Applied Physics Letters, 2004, 84, 2334-2336.	3.3	206
4	Spiro Compounds for Organic Electroluminescence and Related Applications. Advances in Polymer Science, 2006, , 83-142.	0.8	116
5	Comparison of Charge-Carrier Transport in Thin Films of Spiro-Linked Compounds and Their Corresponding Parent Compounds. Advanced Functional Materials, 2006, 16, 966-974.	14.9	109
6	Highly efficient light emitters based on the spiro concept. Organic Electronics, 2003, 4, 61-69.	2.6	79
7	Biphoton-Induced Refractive Index Change in 4-Amino-4â€˜-nitroazobenzene/Polycarbonate. The Journal of Physical Chemistry, 1996, 100, 4135-4140.	2.9	77
8	High ON/OFF ratio and stability of amorphous organic field-effect transistors based on spiro-linked compounds. Synthetic Metals, 2005, 148, 267-270.	3.9	75
9	Organic solid-state ultraviolet-laser based on spiro-terphenyl. Applied Physics Letters, 2005, 87, 161103.	3.3	63
10	Optical amplification in spiro-type molecular glasses. Thin Solid Films, 2002, 417, 20-25.	1.8	60
11	Photoinduced Opposite Diffusion of Nematic and Isotropic Monomers during Patterned Photopolymerization. Chemistry of Materials, 1998, 10, 135-145.	6.7	46
12	Staining diatoms with rhodamine dyes: control of emission colour in photonic biocomposites. Journal of the Royal Society Interface, 2012, 9, 727-733.	3.4	45
13	Synthesis and Properties of a Hole-Conducting, Photopatternable Molecular Glass. Chemistry of Materials, 1999, 11, 2226-2232.	6.7	43
14	Molecular Azo Glasses as Grating Couplers and Resonators for Optical Devices. Advanced Materials, 2002, 14, 841.	21.0	41
15	Ambipolar organic phototransistor. Optical Materials, 2007, 29, 1332-1337.	3.6	31
16	Electric field assisted holographic recording of surface relief gratings in an azo-glass. Applied Physics B: Lasers and Optics, 2004, 78, 205-209.	2.2	28
17	Spinodal patterning in organicâ€“inorganic hybrid layer systems. Applied Physics Letters, 2002, 81, 4940-4942.	3.3	27
18	Ultraviolet-sensitive field-effect transistor utilized amorphous thin films of organic donor/acceptor dyad. Applied Physics Letters, 2007, 90, 143514.	3.3	23

#	Article	IF	Citations
19	Guided electromagnetic waves in organic light emitting diode structures. Organic Electronics, 2003, 4, 219-226.	2.6	21
20	Surface Wrinkling Induced by Photofluidization of Low Molecular Azo Glasses. ChemPhysChem, 2013, 14, 424-430.	2.1	20
21	Light responsive amorphous organic field-effect transistor based on spiro-linked compound. Optical Materials, 2007, 29, 879-884.	3.6	19
22	Ultrafast optical dynamics of spiro-compounds. Synthetic Metals, 2001, 121, 1497-1498.	3.9	16
23	Bipolar redox behaviour, field-effect mobility and transistor switching of the low-molecular azo glass AZOPD. Physical Chemistry Chemical Physics, 2010, 12, 13828.	2.8	15
24	Mineralization of Phosphorylated Fish Skin Collagen/Mangosteen Scaffolds as Potential Materials for Bone Tissue Regeneration. Molecules, 2021, 26, 2899.	3.8	12
25	Photoinduced sign change of the magnetoresistance in field-effect transistors based on a bipolar molecular glass. Chemical Communications, 2013, 49, 4564.	4.1	11
26	Improved outcoupling of light in organic light emitting devices, utilizing a holographic DFB-structure. Journal of Luminescence, 2004, 110, 413-417.	3.1	9
27	Two-dimensional Wrinkle Resonators for Random Lasing in Organic Glasses. Scientific Reports, 2020, 10, 2434.	3.3	8
28	Optical amplification and photodegradation in films of spiro-quaterphenyl and its derivatives. Journal of Luminescence, 2015, 159, 47-54.	3.1	7
29	Photoinduced supramolecular chirality and spontaneous surface patterning in high-performance azo materials. Journal of the European Optical Society-Rapid Publications, 2019, 15, .	1.9	4
30	Is the diatom sex clock a clock?. Journal of the Royal Society Interface, 2021, 18, 20210146.	3.4	4
31	Photoresponsive liquid crystalline and amorphous polymers. Macromolecular Symposia, 1996, 101, 549-561.	0.7	3
32	Dye-sensitized solar cells based on a donor-functionalized spiro-perylenecarboximide. Synthetic Metals, 2012, 162, 888-892.	3.9	3
33	Polarization Dependent Photoinduced Supramolecular Chirality in High-Performance Azo Materials. Molecules, 2021, 26, 2842.	3.8	3
34	Light Amplification Materials Based on Biopolymers Doped with Dye Moleculesâ€"Structural Insights from 15N and 13C Solid-State Dynamic Nuclear Polarization. Journal of Physical Chemistry C, 0, , .	3.1	3
35	Phase Separation and Nanostructure Formation in Binary and Ternary Blends of Spiro-Linked Molecular Glasses. Journal of Physical Chemistry B, 2020, 124, 5507-5516.	2.6	2
36	Reversible Photo-Induced Reshaping of Imprinted Microstructures Using a Low Molecular Azo Dye. Polymers, 2022, 14, 586.	4.5	2

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37	Simultaneous uptake of a FÃ¶rster transfer dye pair by diatoms: Application in determination of staining density. Journal of Photochemistry and Photobiology B: Biology, 2016, 163, 105-109.	3.8	1
38	Determination of the saturation length and study of its effects in optical gain measurements of organic semiconductors using the variable stripe length method. Applied Physics Letters, 2019, 115, 173301.	3.3	0