

# Klaus - Meerholz

## List of Publications by Year in descending order

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347  
papers

19,607  
citations

10351

72  
h-index

13338

130  
g-index

373  
all docs

373  
docs citations

373  
times ranked

17105  
citing authors

#	ARTICLE	IF	CITATIONS
1	Multi-colour organic light-emitting displays by solution processing. <i>Nature</i> , 2003, 421, 829-833.	13.7	1,073
2	White Organic Light-Emitting Diodes. <i>Advanced Materials</i> , 2011, 23, 233-248.	11.1	873
3	A photorefractive polymer with high optical gain and diffraction efficiency near 100%. <i>Nature</i> , 1994, 371, 497-500.	13.7	685
4	Improving the performance of doped $\pi$ -conjugated polymers for use in organic light-emitting diodes. <i>Nature</i> , 2000, 405, 661-665.	13.7	534
5	Controlling Morphology in Polymer-Fullerene Mixtures. <i>Advanced Materials</i> , 2008, 20, 240-245.	11.1	495
6	Absolute energy level positions in tin- and lead-based halide perovskites. <i>Nature Communications</i> , 2019, 10, 2560.	5.8	381
7	Efficiency Enhancements in Solid-State Hybrid Solar Cells via Reduced Charge Recombination and Increased Light Capture. <i>Nano Letters</i> , 2007, 7, 3372-3376.	4.5	363
8	Improving the Performance of Polyfluorene-Based Organic Light-Emitting Diodes via End-capping. <i>Advanced Materials</i> , 2001, 13, 565-570.	11.1	360
9	Highly Efficient Polymeric Electrophosphorescent Diodes. <i>Advanced Materials</i> , 2006, 18, 948-954.	11.1	338
10	Switching On Luminescence by the Self-Assembly of a Platinum(II) Complex into Gelating Nanofibers and Electroluminescent Films. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 946-950.	7.2	273
11	Solution-Processed Full-Color Polymer Organic Light-Emitting Diode Displays Fabricated by Direct Photolithography. <i>Advanced Functional Materials</i> , 2007, 17, 191-200.	7.8	272
12	Suppressed decomposition of organometal halide perovskites by impermeable electron-extraction layers in inverted solar cells. <i>Nature Communications</i> , 2017, 8, 13938.	5.8	259
13	Morphology Control in Solution-Processed Bulk-Heterojunction Solar Cell Mixtures. <i>Advanced Functional Materials</i> , 2009, 19, 3028-3036.	7.8	252
14	The effect of active layer thickness and composition on the performance of bulk-heterojunction solar cells. <i>Journal of Applied Physics</i> , 2006, 100, 094503.	1.1	249
15	Efficient Solution-Processed Bulk Heterojunction Solar Cells by Antiparallel Supramolecular Arrangement of Dipolar Donor-Acceptor Dyes. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 11628-11632.	7.2	239
16	Substrate-dependent electronic structure and film formation of MAPbI <sub>3</sub> perovskites. <i>Scientific Reports</i> , 2017, 7, 40267.	1.6	238
17	Substituted Aluminum and Zinc Quinolates with Blue-Shifted Absorbance/Luminescence Bands: $\pi$ -Synthesis and Spectroscopic, Photoluminescence, and Electroluminescence Characterization. <i>Chemistry of Materials</i> , 1996, 8, 344-351.	3.2	230
18	Outstanding Short-Circuit Currents in BHJ Solar Cells Based on NIR-Absorbing Acceptor-Substituted Squaraines. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 8776-8779.	7.2	228

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19	Systems Chemistry Approach in Organic Photovoltaics. Chemistry - A European Journal, 2010, 16, 9366-9373.	1.7	220
20	Net optical gain in a plasmonic waveguide embedded in a fluorescent polymer. Nature Photonics, 2010, 4, 457-461.	15.6	215
21	Chromophore Design for Photorefractive Organic Materials. ChemPhysChem, 2002, 3, 17-31.	1.0	210
22	A polymeric optical pattern-recognition system for security verification. Nature, 1996, 383, 58-60.	13.7	199
23	Liquid Crystalline Coronene Derivatives with Extraordinary Fluorescence Properties. Angewandte Chemie - International Edition, 1998, 37, 1434-1437.	7.2	190
24	Impact of mesoscale order on open-circuit voltage in organic solar cells. Nature Materials, 2015, 14, 434-439.	13.3	184
25	Effect of Trace Solvent on the Morphology of P3HT:PCBM Bulk Heterojunction Solar Cells. Advanced Functional Materials, 2011, 21, 1779-1787.	7.8	183
26	Zero-dimensional (CH <sub>3</sub> NH <sub>3</sub> ) <sub>3</sub> Bi <sub>2</sub> I <sub>9</sub> perovskite for optoelectronic applications. Solar Energy Materials and Solar Cells, 2016, 158, 195-201.	3.0	182
27	Perovskite-organic tandem solar cells with indium oxide interconnect. Nature, 2022, 604, 280-286.	13.7	181
28	Two Novel Cyclopentadithiophene-Based Alternating Copolymers as Potential Donor Components for High-Efficiency Bulk-Heterojunction-Type Solar Cells. Chemistry of Materials, 2008, 20, 4045-4050.	3.2	179
29	Influence of the Anodic Work Function on the Performance of Organic Solar Cells. ChemPhysChem, 2002, 3, 795-799.	1.0	176
30	Electrochemical solution and solid-state investigations on conjugated oligomers and polymers of the 1,4-thiophene and the p-phenylene series. Electrochimica Acta, 1996, 41, 1839-1854.	2.6	175
31	Bulk heterojunction organic solar cells based on merocyanine colorants. Chemical Communications, 2008, , 6489.	2.2	172
32	New Crosslinkable Hole Conductors for Blue-Phosphorescent Organic Light-Emitting Diodes. Angewandte Chemie - International Edition, 2007, 46, 4388-4392.	7.2	152
33	Impact of Film Stoichiometry on the Ionization Energy and Electronic Structure of CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> Perovskites. Advanced Materials, 2016, 28, 553-559.	11.1	148
34	Room-Temperature Stimulated Emission and Lasing in Recrystallized Cesium Lead Bromide Perovskite Thin Films. Advanced Materials, 2019, 31, e1903717.	11.1	148
35	Novel oligo(phenylenevinylens): models for the charging of extended .pi. chains. Journal of the American Chemical Society, 1991, 113, 2634-2647.	6.6	146
36	Advanced Device Architecture for Highly Efficient Organic Light-Emitting Diodes with an Orange-Emitting Crosslinkable Iridium(III) Complex. Advanced Materials, 2008, 20, 129-133.	11.1	144

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37	Simple, Highly Efficient Vacuum-Processed Bulk Heterojunction Solar Cells Based on Merocyanine Dyes. <i>Advanced Energy Materials</i> , 2011, 1, 888-893.	10.2	141
38	Highly efficient solution-processed phosphorescent multilayer organic light-emitting diodes based on small-molecule hosts. <i>Applied Physics Letters</i> , 2007, 91, .	1.5	128
39	Orientation of emissive dipoles in OLEDs: Quantitative in situ analysis. <i>Organic Electronics</i> , 2010, 11, 1039-1046.	1.4	124
40	Tailored merocyaninedyes for solution-processed BHJ solar cells. <i>Journal of Materials Chemistry</i> , 2010, 20, 240-243.	6.7	124
41	On the Origin of the Color Shift in White-Emitting OLEDs. <i>Advanced Materials</i> , 2007, 19, 4460-4465.	11.1	120
42	Crosslinkable hole-transport materials for preparation of multilayer organic light emitting devices by spin-coating. <i>Macromolecular Rapid Communications</i> , 1999, 20, 224-228.	2.0	113
43	Efficiency Enhanced Hybrid Solar Cells Using a Blend of Quantum Dots and Nanorods. <i>Advanced Functional Materials</i> , 2012, 22, 397-404.	7.8	113
44	ATOP Dyes. Optimization of a Multifunctional Merocyanine Chromophore for High Refractive Index Modulation in Photorefractive Materials. <i>Journal of the American Chemical Society</i> , 2001, 123, 2810-2824.	6.6	111
45	Solution Processable Organic Field-Effect Transistors Utilizing an $\text{I}^{\pm}, \text{I}^{\pm}$ -Dihexylpentathiophene-Based Swivel Cruciform. <i>Journal of the American Chemical Society</i> , 2006, 128, 3914-3915.	6.6	111
46	Multiple reversible electrochemical reduction of aromatic hydrocarbons in liquid alkylamines. <i>Journal of the American Chemical Society</i> , 1989, 111, 2325-2326.	6.6	107
47	Synthesis, (Non)Linear Optical and Redox Properties of a Donor-Substituted Truxenone Derivative. <i>Chemistry - A European Journal</i> , 1998, 4, 2129-2135.	1.7	106
48	Synthesis and Characterization of Photo-Cross-Linkable Hole-Conducting Polymers. <i>Macromolecules</i> , 2005, 38, 1640-1647.	2.2	106
49	Photoprogrammable Organic Light-Emitting Diodes. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 4038-4041.	7.2	104
50	Organic Photorefractive Materials and Applications. <i>Advanced Materials</i> , 2011, 23, 4725-4763.	11.1	104
51	Electrochemically Induced Structural Changes in Conducting Polymers. <i>Zeitschrift Fur Elektrotechnik Und Elektrochemie</i> , 1988, 92, 1266-1271.	0.9	99
52	Merocyanine Dyes in the Cyanine Limit: A New Class of Chromophores for Photorefractive Materials. <i>Angewandte Chemie International Edition in English</i> , 1997, 36, 2765-2768.	4.4	99
53	Luminescent Neutral Platinum Complexes Bearing an Asymmetric $\text{N}^{\langle \text{sup} \rangle \wedge \langle \text{sup} \rangle \text{N}^{\langle \text{sup} \rangle \wedge \langle \text{sup} \rangle \text{N}^{\langle \text{sup} \rangle \wedge \langle \text{sup} \rangle}$ Ligand for High-Performance Solution-Processed OLEDs. <i>Advanced Materials</i> , 2013, 25, 437-442.	11.1	95
54	Synthesis and Nonlinear Optical Properties of Three-Dimensional Phosphonium Ion Chromophores. <i>Chemistry - A European Journal</i> , 1998, 4, 512-521.	1.7	94

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55	Modern Trends in Organic Light-Emitting Devices (OLEDs). Monatshefte für Chemie, 2006, 137, 811-824.	0.9	94
56	Ultrafast Dynamics of Carrier Mobility in a Conjugated Polymer Probed at Molecular and Microscopic Length Scales. Physical Review Letters, 2009, 103, 027404.	2.9	92
57	Near-infrared sensitivity enhancement of photorefractive polymer composites by pre-illumination. Nature, 2002, 418, 959-964.	13.7	91
58	Highly efficient photorefractive polymers for dynamic holography. Optical Engineering, 1995, 34, 2213.	0.5	90
59	Crosslinkable TAPC-Based Hole-Transport Materials for Solution-Processed Organic Light-Emitting Diodes with Reduced Efficiency Roll-Off. Advanced Functional Materials, 2013, 23, 359-365.	7.8	89
60	Indium-Free Perovskite Solar Cells Enabled by Impermeable Tin-Oxide Electron Extraction Layers. Advanced Materials, 2017, 29, 1606656.	11.1	88
61	Minimizing optical losses in bulk heterojunction polymer solar cells. Applied Physics B: Lasers and Optics, 2007, 86, 721-727.	1.1	87
62	The Simple Way to Solution-Processed Multilayer OLEDs – Layered Block-Copolymer Networks by Living Cationic Polymerization. Advanced Materials, 2009, 21, 879-884.	11.1	84
63	Direct Comparison of Highly Efficient Solution- and Vacuum-Processed Organic Solar Cells Based on Merocyanine Dyes. Advanced Materials, 2010, 22, 4193-4197.	11.1	84
64	Aggregation-dependent photovoltaic properties of squaraine/PC61BM bulk heterojunctions. Physical Chemistry Chemical Physics, 2012, 14, 8328.	1.3	84
65	Electrochemical Solid-State Studies on Oligomeric p-Phenylenes as Model Compounds for Conductive Polymers. Angewandte Chemie International Edition in English, 1990, 29, 692-695.	4.4	83
66	Subchromophore interactions in tricyanovinyl-substituted triarylamines – a combined experimental and computational study. Journal of the Chemical Society Perkin Transactions II, 1999, , 577-588.	0.9	83
67	Efficient Blue Organic Light-Emitting Diodes with Graded Hole-Transport Layers. ChemPhysChem, 2000, 1, 207-211.	1.0	81
68	Photochromic Transduction Layers in Organic Memory Elements. Advanced Materials, 2013, 25, 469-476.	11.1	80
69	Syntheses and NLO Properties of Chromium Carbonyl Arene Complexes with Conjugated Side Chains: The Amphoteric Nature of Chromium Carbonyl Complexation in Push-Pull Chromophores. Organometallics, 1999, 18, 5066-5074.	1.1	78
70	Charge carrier photogeneration, trapping, and space-charge field formation in PVK-based photorefractive materials. Physical Review B, 2000, 61, 13515-13527.	1.1	77
71	Efficient Synthesis of Carbazolyl- and Thienyl-Substituted $\beta$ -Diketones and Properties of Their Red- and Green-Light-Emitting Ir(III) Complexes. Journal of Organic Chemistry, 2009, 74, 2718-2725.	1.7	76
72	Crosslinkable hole-transport materials for preparation of multilayer organic light emitting devices by spin-coating. Macromolecular Rapid Communications, 1999, 20, 224-228.	2.0	76

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73	Making Graphene Nanoribbons Photoluminescent. <i>Nano Letters</i> , 2017, 17, 4029-4037.	4.5	73
74	Triplet-Polaron Quenching in Conjugated Polymers. <i>Journal of Physical Chemistry B</i> , 2007, 111, 12075-12080.	1.2	71
75	Enlightening solutions. <i>Nature</i> , 2005, 437, 327-328.	13.7	70
76	Solution-Like Behavior of Photoswitchable Spiropyran Embedded in Metal-Organic Frameworks. <i>Inorganic Chemistry</i> , 2017, 56, 13100-13110.	1.9	70
77	Radical Cations in Electrospray Mass Spectrometry: Formation of Open-Shell Species, Examination of the Fragmentation Behaviour in ESI-MS <sup>n</sup> and Reaction Mechanism Studies by Detection of Transient Radical Cations. <i>European Journal of Organic Chemistry</i> , 2007, 2007, 5162-5174.	1.2	69
78	Electrospun Black Titania Nanofibers: Influence of Hydrogen Plasma-Induced Disorder on the Electronic Structure and Photoelectrochemical Performance. <i>Journal of Physical Chemistry C</i> , 2015, 119, 18835-18842.	1.5	68
79	Influence of Solid-State Packing of Dipolar Merocyanine Dyes on Transistor and Solar Cell Performances. <i>Journal of the American Chemical Society</i> , 2015, 137, 13524-13534.	6.6	68
80	Ellipsometric measurements of poling birefringence, the Pockels effect, and the Kerr effect in high-performance photorefractive polymer composites. <i>Applied Optics</i> , 1996, 35, 2346.	2.1	67
81	Metal-Free, Multicomponent Synthesis of Pyrrole-Based $\pi$ -Conjugated Polymers from Imines, Acid Chlorides, and Alkynes. <i>Journal of the American Chemical Society</i> , 2016, 138, 10516-10521.	6.6	67
82	Reactions on Vinyl Isocyanate/Maleimide Copolymers: $\pi$ -NLO-functionalized Polymers with High Glass Transitions for Nonlinear Optical Applications. <i>Macromolecules</i> , 1998, 31, 1454-1465.	2.2	65
83	Birefringence, Pockels, and Kerr effects in photorefractive polymers. <i>Applied Physics Letters</i> , 1996, 68, 1748-1750.	1.5	64
84	Influence of the glass-transition temperature and the chromophore content on the grating buildup dynamics of poly(N-vinylcarbazole)-based photorefractive polymers. <i>Applied Optics</i> , 1998, 37, 2843.	2.1	63
85	Intensity-dependent photocurrent generation at the anode in bulk-heterojunction solar cells. <i>Applied Physics B: Lasers and Optics</i> , 2008, 92, 209-218.	1.1	63
86	Novel Photo-Cross-Linkable Hole-Transporting Polymers: Synthesis, Characterization, and Application in Organic Light Emitting Diodes. <i>Macromolecules</i> , 2006, 39, 8911-8919.	2.2	60
87	Effect of Polymer Nanoparticle Formation on the Efficiency of Polythiophene Based $\pi$ -Bulk-Heterojunction-Solar Cells. <i>Journal of Physical Chemistry C</i> , 2008, 112, 12583-12589.	1.5	60
88	Improved performance of photorefractive polymers based on merocyanine dyes in a polar matrix. <i>Applied Physics Letters</i> , 1998, 73, 4-6.	1.5	59
89	Effect of Side Chain Length Variation on the Optical Properties of PPE-PPV Hybrid Polymers. <i>Chemistry of Materials</i> , 2008, 20, 2727-2735.	3.2	59
90	Near-Infrared Absorbing Merocyanine Dyes for Bulk Heterojunction Solar Cells. <i>Organic Letters</i> , 2010, 12, 3666-3669.	2.4	59

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91	Outsmarting Waveguide Losses in Thin-Film Light-Emitting Diodes. <i>Advanced Functional Materials</i> , 2001, 11, 251-253.	7.8	58
92	Ultranarrow Bandwidth Organic Photodiodes by Exchange Narrowing in Merocyanine H <sub>2</sub> and J <sub>2</sub> Aggregate Excitonic Systems. <i>Advanced Functional Materials</i> , 2019, 29, 1805058.	7.8	58
93	Mass transfer and convolution. <i>Journal of Electroanalytical Chemistry</i> , 1994, 368, 183-191.	1.9	56
94	A Photochromic Diode With a Continuum of Intermediate States: Towards High Density Multilevel Storage. <i>Advanced Materials</i> , 2013, 25, 4807-4813.	11.1	56
95	Impact of excess Pbl <sub>2</sub> on the structure and the temperature dependent optical properties of methylammonium lead iodide perovskites. <i>Journal of Materials Chemistry C</i> , 2018, 6, 7512-7519.	2.7	54
96	Benzannelated [2.2]paracyclophanes: synthesis and electronic properties. <i>Journal of the American Chemical Society</i> , 1993, 115, 3511-3518.	6.6	53
97	Influence of Glass-Transition Temperature and Chromophore Content on the Steady-State Performance of Poly(N-vinylcarbazole)-Based Photorefractive Polymers. <i>Advanced Materials</i> , 1999, 11, 123-127.	11.1	53
98	Highly Substituted Azulene Dyes as Multifunctional NLO and Electron-Transfer Compounds. <i>Chemistry - A European Journal</i> , 2003, 9, 4232-4239.	1.7	53
99	A Lasing Organic Light-Emitting Diode. <i>Advanced Materials</i> , 2010, 22, 531-534.	11.1	53
100	NIR-Absorbing Merocyanine Dyes for BHJ Solar Cells. <i>Chemistry of Materials</i> , 2014, 26, 4856-4866.	3.2	53
101	Highly Reduced Porphyrins. <i>Angewandte Chemie International Edition in English</i> , 1989, 28, 604-607.	4.4	52
102	Solution Processed Organic Double Light-Emitting Layer Diode Based on Cross-Linkable Small Molecular Systems. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 9563-9567.	7.2	52
103	Nickel(II) and Copper(II) Coordination Polymers Derived from 1,2,4,5-Tetraaminobenzene for Lithium-Ion Batteries. <i>Chemistry of Materials</i> , 2019, 31, 5197-5205.	3.2	52
104	Highly color-stable solution-processed multilayer WOLEDs for lighting application. <i>Journal of Materials Chemistry</i> , 2010, 20, 3301.	6.7	50
105	Optical gain by a simple photoisomerization process. <i>Nature Materials</i> , 2008, 7, 490-497.	13.3	49
106	Investigation of the Photocross-Linking Mechanism in Oxetane-Functionalized Semiconductors. <i>Chemistry of Materials</i> , 2011, 23, 5001-5005.	3.2	49
107	An efficient carbonyl-alkene metathesis of bicyclic oxetanes: photoinduced electron transfer reduction of the Patern <sup>o</sup> chi adducts from 2,3-dihydrofuran and aromatic aldehydes. <i>Photochemical and Photobiological Sciences</i> , 2006, 5, 51-55.	1.6	48
108	Deep blue organic light-emitting diodes based on triphenylenes. <i>Synthetic Metals</i> , 2010, 160, 691-700.	2.1	45

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109	Three-dimensional holographic imaging of living tissue using a highly sensitive photorefractive polymer device. <i>Optics Express</i> , 2009, 17, 11834.	1.7	44
110	Voltammetry of fullerenes C60 and C70 in dimethylamine and methylene chloride. <i>Journal of Electroanalytical Chemistry</i> , 1993, 347, 425-433.	1.9	43
111	Synthesis and Nonlinear Optical Properties of Carbonylrhenium Bromide Complexes with Conjugated Pyridines. <i>European Journal of Inorganic Chemistry</i> , 1999, 1999, 483-490.	1.0	43
112	Submicrometer Patterning of Amorphous and $\beta$ Phase in a Crosslinkable Poly(9,9-diocetylfluorene): Dual Wavelength Lasing from a Mixed Morphology Device. <i>Advanced Functional Materials</i> , 2011, 21, 2564-2570.	7.8	42
113	Amplified spontaneous emission in an organic semiconductor multilayer waveguide structure including a highly conductive transparent electrode. <i>Applied Physics Letters</i> , 2005, 86, 221102.	1.5	40
114	Photophysical properties and OLED performance of light-emitting platinum(ii) complexes. <i>Dalton Transactions</i> , 2013, 42, 13612.	1.6	40
115	Cationic $\pi$ -electron systems with high quadratic hyperpolarisability. <i>Perkin Transactions II RSC</i> , 2001, , 964-974.	1.1	39
116	Optical description of solid-state dye-sensitized solar cells. I. Measurement of layer optical properties. <i>Journal of Applied Physics</i> , 2009, 106, .	1.1	39
117	Doped but Stable: Spirobisacridine Hole Transporting Materials for Hysteresis-Free and Stable Perovskite Solar Cells. <i>Journal of the American Chemical Society</i> , 2020, 142, 1792-1800.	6.6	39
118	Voltammetric studies of solution and solid-state properties of monodisperse oligo(p-phenylenevinylene)s. <i>Advanced Materials</i> , 1994, 6, 671-674.	11.1	38
119	Crosslinkable hole-transporting polymers by palladium-catalyzed C-N-coupling reaction. <i>Macromolecular Rapid Communications</i> , 2000, 21, 583-589.	2.0	38
120	Synthesis and Characterization of Novel Multifunctional High-Tg Photorefractive Materials Obtained via Reactive Precursor Polymers. <i>Macromolecules</i> , 2000, 33, 1972-1977.	2.2	38
121	A Straightforward Modular Approach to NLO-Active $\beta$ -Amino Vinyl Nitrothiophenes. <i>Organic Letters</i> , 2000, 2, 2419-2422.	2.4	38
122	Optical computing by use of photorefractive polymers. <i>Optics Letters</i> , 1995, 20, 76.	1.7	37
123	Interference method for the determination of the complex refractive index of thin polymer layers. <i>Applied Physics Letters</i> , 2007, 91, .	1.5	37
124	Measuring the profile of the emission zone in polymeric organic light-emitting diodes. <i>Applied Physics Letters</i> , 2009, 94, 263301.	1.5	37
125	Fluoride recognition by a chiral urea receptor linked to a phthalimide chromophore. <i>Organic and Biomolecular Chemistry</i> , 2009, 7, 3499.	1.5	37
126	Molecular Oxygen as a Redox Catalyst in Intramolecular Photocycloadditions of Coumarins. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 6000-6004.	7.2	36

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127	Hierarchical charge carrier motion in conjugated polymers. <i>Chemical Physics Letters</i> , 2010, 498, 302-306.	1.2	35
128	Parallel Bulkâ€Heterojunction Solar Cell by Electrostatically Driven Phase Separation. <i>Advanced Materials</i> , 2011, 23, 5398-5403.	11.1	34
129	Merocyaninfarbstoffe im Cyaninlimit: eine neue Chromophorklasse für photorefraktive Materialien. <i>Angewandte Chemie</i> , 1997, 109, 2933-2936.	1.6	33
130	Does Electron Delocalization Influence Charge Separation at Donorâ€Acceptor Interfaces in Organic Photovoltaic Cells?. <i>Journal of Physical Chemistry C</i> , 2018, 122, 21792-21802.	1.5	33
131	Impact of Titanium Dioxide Surface Defects on the Interfacial Composition and Energetics of Evaporated Perovskite Active Layers. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 32500-32508.	4.0	33
132	Influence of chain length and defects on the electrical conductivity of conducting polymers. <i>Synthetic Metals</i> , 1993, 57, 5040-5045.	2.1	31
133	A High Molecular Weight Aromatic PhOLED Matrix Polymer Obtained by Metal-Free, Superacid-Catalyzed Polyhydroxyalkylation. <i>Macromolecules</i> , 2009, 42, 9225-9230.	2.2	31
134	Towards organic light-emitting diode microdisplays with sub-pixel patterning. <i>Organic Electronics</i> , 2010, 11, 57-61.	1.4	31
135	Stability improvement of high-performance photorefractive polymers containing eutectic mixtures of electro-optic chromophores. <i>Advanced Materials</i> , 1997, 9, 1043-1046.	11.1	30
136	Comparison of new photorefractive composites based on a poly(phenylene vinylene) derivative with traditional poly(n-vinylcarbazole) composites. <i>Physical Chemistry Chemical Physics</i> , 1999, 1, 1749-1756.	1.3	30
137	Monolithic Integration of Multiâ€Color Organic LEDs by Grayscale Lithography. <i>Advanced Materials</i> , 2010, 22, 4634-4638.	11.1	30
138	Comparative Studies on Optical, Redox, and Photovoltaic Properties of a Series of Dâ€Aâ€D and Analogous Dâ€A Chromophores. <i>Advanced Functional Materials</i> , 2014, 24, 4645-4653.	7.8	30
139	Hoch reduzierte Porphyrine. <i>Angewandte Chemie</i> , 1989, 101, 638-640.	1.6	29
140	Amorphous Plastics Pave the Way to Widespread Holographic Applications. <i>Angewandte Chemie International Edition in English</i> , 1997, 36, 945-948.	4.4	29
141	Embedding Organic Lightâ€Emitting Diodes into Channel Waveguide Structures. <i>Advanced Materials</i> , 2008, 20, 1966-1971.	11.1	29
142	Time-independent, high electron mobility in thin PC 61 BM films: Relevance to organic photovoltaics. <i>Organic Electronics</i> , 2014, 15, 3729-3734.	1.4	29
143	Organische Leuchtdioden: Bilderzeugung. <i>Chemie in Unserer Zeit</i> , 2005, 39, 336-347.	0.1	28
144	Ultrafast charge carrier mobility dynamics in poly(spirobifluorene-co-benzothiadiazole): Influence of temperature on initial transport. <i>Physical Review B</i> , 2010, 82, .	1.1	28

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145	In-situ modification of PEDOT:PSS work function using alkyl alcohols as secondary processing solvents and their impact on merocyanine based bulk heterojunction solar cells. <i>Organic Electronics</i> , 2015, 21, 171-176.	1.4	28
146	Structure-Property Relationships from Atomistic Multiscale Simulations of the Relevant Processes in Organic Solar Cells. I. Thermodynamic Aspects. <i>Journal of Physical Chemistry C</i> , 2017, 121, 4-25.	1.5	28
147	Crosslinkable hole- and electron-transport materials for application in organic light emitting devices (OLEDs). <i>Designed Monomers and Polymers</i> , 2002, 5, 195-210.	0.7	27
148	Exciton diffusion, annihilation and their role in the charge carrier generation in fluorene based copolymers. <i>Chemical Physics</i> , 2012, 404, 42-47.	0.9	27
149	Enhanced photocurrent generation by folding-driven H-aggregate formation. <i>Chemical Science</i> , 2013, 4, 2071.	3.7	27
150	Comparative Study of Printed Multilayer OLED Fabrication through Slot Die Coating, Gravure and Inkjet Printing, and Their Combination. <i>Colloids and Interfaces</i> , 2019, 3, 32.	0.9	27
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