

Sebastian Reineke

List of Publications by Citations

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131
papers

9,557
citations

39
h-index

97
g-index

166
ext. papers

10,670
ext. citations

9.2
avg, IF

6.42
L-index

#	Paper	IF	Citations
131	White organic light-emitting diodes with fluorescent tube efficiency. <i>Nature</i> , 2009 , 459, 234-8	50.4	2874
130	External quantum efficiency above 100% in a singlet-exciton-fission-based organic photovoltaic cell. <i>Science</i> , 2013 , 340, 334-7	33.3	676
129	Triplet-exciton quenching in organic phosphorescent light-emitting diodes with Ir-based emitters. <i>Physical Review B</i> , 2007 , 75,	3.3	644
128	White organic light-emitting diodes: Status and perspective. <i>Reviews of Modern Physics</i> , 2013 , 85, 1245-1293	49.3	458
127	Triplet Harvesting in Hybrid White Organic Light-Emitting Diodes. <i>Advanced Functional Materials</i> , 2009 , 19, 1319-1333	15.6	408
126	Harvesting Triplet Excitons from Fluorescent Blue Emitters in White Organic Light-Emitting Diodes. <i>Advanced Materials</i> , 2007 , 19, 3672-3676	24	379
125	Selective turn-on ammonia sensing enabled by high-temperature fluorescence in metal-organic frameworks with open metal sites. <i>Journal of the American Chemical Society</i> , 2013 , 135, 13326-9	16.4	368
124	Influence of charge balance and exciton distribution on efficiency and lifetime of phosphorescent organic light-emitting devices. <i>Journal of Applied Physics</i> , 2008 , 104, 014510	2.5	197
123	Fast spin-flip enables efficient and stable organic electroluminescence from charge-transfer states. <i>Nature Photonics</i> , 2020 , 14, 636-642	33.9	154
122	High-Efficiency Red Organic Light-Emitting Diodes with External Quantum Efficiency Close to 30% Based on a Novel Thermally Activated Delayed Fluorescence Emitter. <i>Advanced Materials</i> , 2019 , 31, e1902368	24	152
121	Room temperature triplet state spectroscopy of organic semiconductors. <i>Scientific Reports</i> , 2014 , 4, 3797	7.9	142
120	Reduced efficiency roll-off in high-efficiency hybrid white organic light-emitting diodes. <i>Applied Physics Letters</i> , 2008 , 92, 053311	3.4	132
119	Recent advances in light outcoupling from white organic light-emitting diodes. <i>Journal of Photonics for Energy</i> , 2015 , 5, 057607	1.2	130
118	Complementary LED technologies. <i>Nature Materials</i> , 2015 , 14, 459-62	27	122
117	Highly efficient white top-emitting organic light-emitting diodes comprising laminated microlens films. <i>Nano Letters</i> , 2012 , 12, 424-8	11.5	121
116	Reduced efficiency roll-off in phosphorescent organic light emitting diodes by suppression of triplet-triplet annihilation. <i>Applied Physics Letters</i> , 2007 , 91, 123508	3.4	118
115	Highly phosphorescent organic mixed films: The effect of aggregation on triplet-triplet annihilation. <i>Applied Physics Letters</i> , 2009 , 94, 163305	3.4	93

114	Blue-Light-Absorbing Thin Films Showing Ultralong Room-Temperature Phosphorescence. <i>Advanced Materials</i> , 2019 , 31, e1807887	24	90
113	Emissive and charge-generating donor-acceptor interfaces for organic optoelectronics with low voltage losses. <i>Nature Materials</i> , 2019 , 18, 459-464	27	89
112	High-performance organic light-emitting diodes comprising ultrastable glass layers. <i>Science Advances</i> , 2018 , 4, eaar8332	14.3	86
111	Storage of charge carriers on emitter molecules in organic light-emitting diodes. <i>Physical Review B</i> , 2012 , 86,	3.3	81
110	Conjugation-Induced Thermally Activated Delayed Fluorescence (TADF): From Conventional Non-TADF Units to TADF-Active Polymers. <i>Advanced Functional Materials</i> , 2017 , 27, 1605051	15.6	77
109	Spin-dependent charge transfer state design rules in organic photovoltaics. <i>Nature Communications</i> , 2015 , 6, 6415	17.4	76
108	Highly efficient white organic light-emitting diodes based on fluorescent blue emitters. <i>Journal of Applied Physics</i> , 2010 , 108, 113113	2.5	76
107	Improved high-brightness efficiency of phosphorescent organic LEDs comprising emitter molecules with small permanent dipole moments. <i>Advanced Materials</i> , 2010 , 22, 3189-93	24	76
106	Adjustable white-light emission from a photo-structured micro-OLED array. <i>Light: Science and Applications</i> , 2016 , 5, e16121	16.7	75
105	Highly efficient, dual state emission from an organic semiconductor. <i>Applied Physics Letters</i> , 2013 , 103, 093302	3.4	67
104	Recent progress in the understanding of exciton dynamics within phosphorescent OLEDs. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2012 , 209, 2341-2353	1.6	66
103	Optical Energy Losses in Organic/Inorganic Hybrid Perovskite Light-Emitting Diodes. <i>Advanced Optical Materials</i> , 2018 , 6, 1800667	8.1	66
102	White top-emitting organic light-emitting diodes with forward directed emission and high color quality. <i>Organic Electronics</i> , 2010 , 11, 1676-1682	3.5	61
101	Programmable transparent organic luminescent tags. <i>Science Advances</i> , 2019 , 5, eaau7310	14.3	59
100	Aromatic Phosphonates: A Novel Group of Emitters Showing Blue Ultralong Room Temperature Phosphorescence. <i>Advanced Materials</i> , 2020 , 32, e2000880	24	58
99	Highly Luminescent and Water-Resistant CsPbBr ₃ -CsPbBr ₃ Perovskite Nanocrystals Coordinated with Partially Hydrolyzed Poly(methyl methacrylate) and Polyethylenimine. <i>ACS Nano</i> , 2019 , 13, 10386-10396	16.7	55
98	Measurement of triplet exciton diffusion in organic light-emitting diodes. <i>Physical Review B</i> , 2010 , 81,	3.3	51
97	Influence of the hole blocking layer on blue phosphorescent organic light-emitting devices using 3,6-di(9-carbazolyl)-9-(2-ethylhexyl)carbazole as host material. <i>Applied Physics Letters</i> , 2010 , 96, 093304	3.4	47

96	Hyperbranched Polymers with High Transparency and Inherent High Refractive Index for Application in Organic Light-Emitting Diodes. <i>Advanced Functional Materials</i> , 2016 , 26, 2545-2553	15.6	44
95	Organic light-emitting diodes for lighting: High color quality by controlling energy transfer processes in host-guest-systems. <i>Journal of Applied Physics</i> , 2012 , 111, 033102	2.5	41
94	Nanostructured singlet fission photovoltaics subject to triplet-charge annihilation. <i>Advanced Materials</i> , 2014 , 26, 1366-71	24	40
93	Synthesis of Vinylene-Linked Two-Dimensional Conjugated Polymers via the Horner-Wadsworth-Emmons Reaction. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 23620-23625	16.4	36
92	Interplay of Fluorescence and Phosphorescence in Organic Biluminescent Emitters. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 14946-14953	3.8	35
91	Tailor-made nanostructures bridging chaos and order for highly efficient white organic light-emitting diodes. <i>Nature Communications</i> , 2019 , 10, 2972	17.4	32
90	Quantum efficiency enhancement in top-emitting organic light-emitting diodes as a result of enhanced intrinsic quantum yield. <i>Applied Physics Letters</i> , 2006 , 89, 263512	3.4	30
89	Simultaneous Singlet-Singlet and Triplet-Singlet Förster Resonance Energy Transfer from a Single Donor Material. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 310-315	6.4	30
88	Hydrofluoroethers as heat-transfer fluids for OLEDs: Operational range, stability, and efficiency improvement. <i>Organic Electronics</i> , 2012 , 13, 356-360	3.5	29
87	Enhanced light emission from top-emitting organic light-emitting diodes by optimizing surface plasmon polariton losses. <i>Physical Review B</i> , 2015 , 92,	3.3	29
86	Direct observation of host-guest triplet-triplet annihilation in phosphorescent solid mixed films. <i>Physica Status Solidi - Rapid Research Letters</i> , 2009 , 3, 67-69	2.5	29
85	Three-terminal RGB full-color OLED pixels for ultrahigh density displays. <i>Scientific Reports</i> , 2018 , 8, 9684	4.9	29
84	White top-emitting organic light-emitting diodes employing a heterostructure of down-conversion layers. <i>Organic Electronics</i> , 2011 , 12, 2126-2130	3.5	27
83	Integrated optical model for organic light-emitting devices. <i>Journal of Applied Physics</i> , 2011 , 109, 083114	4.5	25
82	Luminescent sp ² -Carbon-Linked 2D Conjugated Polymers with High Photostability. <i>Chemistry of Materials</i> , 2020 , 32, 7985-7991	9.6	25
81	Organic Light-Emitting Diodes Based on Conjugation-Induced Thermally Activated Delayed Fluorescence Polymers: Interplay Between Intra- and Intermolecular Charge Transfer States. <i>Frontiers in Chemistry</i> , 2019 , 7, 688	5	22
80	Biluminescence Under Ambient Conditions: Water-Soluble Organic Emitter in High-Oxygen-Barrier Polymer. <i>Advanced Optical Materials</i> , 2020 , 8, 2000427	8.1	22
79	White organic light-emitting diodes with 4 nm metal electrode. <i>Applied Physics Letters</i> , 2015 , 107, 163303	3.4	21

78	Experimental proof of Joule heating-induced switched-back regions in OLEDs. <i>Light: Science and Applications</i> , 2020 , 9, 5	16.7	19
77	Measurement and simulation of exciton decay times in organic light-emitting devices with different layer structures. <i>Optics Letters</i> , 2009 , 34, 1375-7	3	19
76	Transparent and color-tunable organic light-emitting diodes with highly balanced emission to both sides. <i>Organic Electronics</i> , 2017 , 41, 315-318	3.5	18
75	Investigating the molecular orientation of Ir(ppy) ₃ and Ir(ppy) ₂ (acac) emitter complexes by X-ray diffraction. <i>Organic Electronics</i> , 2018 , 53, 198-204	3.5	18
74	Color temperature tuning of white organic light-emitting diodes via spatial control of micro-cavity effects based on thin metal strips. <i>Organic Electronics</i> , 2015 , 26, 334-339	3.5	17
73	Full Electrothermal OLED Model Including Nonlinear Self-heating Effects. <i>Physical Review Applied</i> , 2018 , 10,	4.3	17
72	Photoluminescence degradation of blue OLED emitters 2008 ,		17
71	High Electron Affinity Molecular Dopant CN6-CP for Efficient Organic Light-Emitting Diodes. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 11660-11666	9.5	17
70	Statistical treatment of Photoluminescence Quantum Yield Measurements. <i>Scientific Reports</i> , 2019 , 9, 15638	4.9	16
69	Coupled Optical Modeling for Optimization of Organic Light-Emitting Diodes with External Outcoupling Structures. <i>ACS Photonics</i> , 2018 , 5, 422-430	6.3	16
68	Efficiency of Light Outcoupling Structures in Organic Light-Emitting Diodes: 2D TiO ₂ Array as a Model System. <i>Advanced Functional Materials</i> , 2019 , 29, 1901748	15.6	15
67	Measuring carrier mobility in conventional multilayer organic light emitting devices by delayed exciton generation. <i>Physica Status Solidi (B): Basic Research</i> , 2008 , 245, 804-809	1.3	15
66	Exploiting lateral current flow due to doped layers in semiconductor devices having crossbar electrodes. <i>Organic Electronics</i> , 2019 , 65, 82-90	3.5	15
65	36-1: Invited Paper: 2nd Generation Organics: High Power Efficiency, Ultra Long Life, and Low-Cost OLED Devices. <i>Digest of Technical Papers SID International Symposium</i> , 2007 , 38, 1282-1285	0.5	13
64	Investigation of Thermally Activated Delayed Fluorescence from a Donor-Acceptor Compound with Time-Resolved Fluorescence and Density Functional Theory Applying an Optimally Tuned Range-Separated Hybrid Functional. <i>Journal of Physical Chemistry A</i> , 2020 , 124, 1535-1553	2.8	12
63	Electrothermal Feedback and Absorption-Induced Open-Circuit-Voltage Turnover in Solar Cells. <i>Physical Review Applied</i> , 2018 , 9,	4.3	12
62	Fast and cost effective fabrication of microlens arrays for enhancing light out-coupling of organic light-emitting diodes. <i>Materials Letters</i> , 2019 , 252, 268-271	3.3	11
61	Scattering quantified: Evaluation of corrugation induced outcoupling concepts in organic light-emitting diodes. <i>Organic Electronics</i> , 2018 , 58, 250-256	3.5	11

60	Novel organic light-emitting diode design for future lasing applications. <i>Organic Electronics</i> , 2017 , 48, 132-137	3.5	10
59	Real-time beam shaping without additional optical elements. <i>Light: Science and Applications</i> , 2018 , 7, 18	16.7	10
58	Efficiency and lifetime enhancement of phosphorescent organic devices 2008 ,		10
57	Reduced Intrinsic Non-Radiative Losses Allow Room-Temperature Triplet Emission from Purely Organic Emitters. <i>Advanced Materials</i> , 2021 , 33, e2101844	24	10
56	Straight-forward control of the degree of micro-cavity effects in organic light-emitting diodes based on a thin striped metal layer. <i>Organic Electronics</i> , 2013 , 14, 2444-2450	3.5	9
55	Introducing pinMOS Memory: A Novel, Nonvolatile Organic Memory Device. <i>Advanced Functional Materials</i> , 2020 , 30, 1907119	15.6	9
54	Ultrathin MoO ₃ Layers in Composite Metal Electrodes: Improved Optics Allow Highly Efficient Organic Light-Emitting Diodes. <i>Advanced Optical Materials</i> , 2019 , 7, 1801262	8.1	9
53	Dissecting Tetra-phenylbenzidine: Biphenyl as the Origin of Room Temperature Phosphorescence. <i>Journal of Physical Chemistry A</i> , 2020 , 124, 479-485	2.8	8
52	Synthese von Vinyl-verknüpften zweidimensionalen konjugierten Polymeren via Horner-Wadsworth-Emmons-Reaktion. <i>Angewandte Chemie</i> , 2020 , 132, 23827-23832	3.6	8
51	Cool white light-emitting three stack OLED structures for AMOLED display applications. <i>Optics Express</i> , 2016 , 24, 28131-28142	3.3	8
50	Selectively absorbing small-molecule solar cells for self-powered electrochromic windows. <i>Nano Energy</i> , 2021 , 89, 106404	17.1	8
49	High performance two-color hybrid TADF-phosphorescent WOLEDs with bimodal Förster and Dexter-type exciton distribution. <i>Organic Electronics</i> , 2019 , 75, 105365	3.5	7
48	High-Speed and Continuous-Wave Programmable Luminescent Tags Based on Exclusive Room Temperature Phosphorescence (RTP). <i>Advanced Science</i> , 2021 , 8, e2102104	13.6	7
47	Inside or outside: Evaluation of the efficiency enhancement of OLEDs with applied external scattering layers. <i>Scientific Reports</i> , 2019 , 9, 18601	4.9	7
46	Thermally Activated Delayed Fluorescence in a Y N@C Endohedral Fullerene: Time-Resolved Luminescence and EPR Studies. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 277-281	16.4	7
45	Organic light-emitting diodes 2019 , 695-726		6
44	Polymer Featuring Thermally Activated Delayed Fluorescence as Emitter in Light-Emitting Electrochemical Cells. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 6227-6234	6.4	6
43	3D electrothermal simulations of organic LEDs showing negative differential resistance. <i>Optical and Quantum Electronics</i> , 2017 , 49, 1	2.4	6

42	Quantitative analysis of charge transport in intrinsic and doped organic semiconductors combining steady-state and frequency-domain data. <i>Journal of Applied Physics</i> , 2018 , 124, 105501	2.5	6
41	Novel concepts for OLED lighting 2010 ,		5
40	Dimers or Solid-State Solvation? Intermolecular Effects of Multiple Donor-Acceptor Thermally Activated Delayed Fluorescence Emitter Determining Organic Light-Emitting Diode Performance. <i>Advanced Optical Materials</i> , 2021 , 9, 2002153	8.1	5
39	Refined Setup for Angle-Resolved Photoluminescence Spectroscopy of Thin Films. <i>Physical Review Applied</i> , 2020 , 14,	4.3	4
38	Orientation of OLED Emitter Molecules Revealed by XRD 2016 ,		4
37	Viologen-Immobilized 2D Polymer Film Enabling Highly Efficient Electrochromic Device for Solar-Powered Smart Window. <i>Advanced Materials</i> , 2021 , 34, e2106073	24	4
36	Conjugation-Induced Thermally Activated Delayed Fluorescence: Photophysics of a Carbazole-Benzophenone Monomer-to-Tetramer Molecular Series. <i>Journal of Physical Chemistry A</i> , 2021 , 125, 1345-1354	2.8	4
35	P-176: Quantitative Analysis of Charge Transport in Single-Carrier Devices and OLEDs Combining DC and AC Data. <i>Digest of Technical Papers SID International Symposium</i> , 2019 , 50, 1895-1898	0.5	3
34	Influence of the Dielectric Constant around an Emitter on Its Delayed Fluorescence. <i>Physical Review Applied</i> , 2019 , 12,	4.3	3
33	White Organic Light-Emitting Diodes with Fluorescent Tube Efficiency. <i>Materials Research Society Symposia Proceedings</i> , 2009 , 1212, 1		3
32	Purely Organic Microparticles Showing Ultralong Room Temperature Phosphorescence. <i>ACS Omega</i> , 2021 , 6, 13087-13093	3.9	3
31	New concept for organic light-emitting devices under high excitations using emission from a metal-free area 2016 ,		3
30	Investigating Free Charge-Carrier Recombination in Organic LEDs Using Open-Circuit Conditions. <i>Advanced Optical Materials</i> , 2019 , 7, 1801426	8.1	3
29	3-2: Invited Paper: Color on Demand [Color-Tunable OLEDs for Lighting and Displays. <i>Digest of Technical Papers SID International Symposium</i> , 2017 , 48, 5-8	0.5	2
28	Locking excitons in two-dimensional emitting layers for efficient monochrome and white organic light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 8929-8937	7.1	2
27	Influence of bilayer resist processing on p-i-n OLEDs: towards multicolor photolithographic structuring of organic displays 2015 ,		2
26	Influence of the Electron Blocking Layer on the Performance of Multilayer White Organic Light-Emitting Diodes. <i>Materials Research Society Symposia Proceedings</i> , 2012 , 1402, 84		2
25	Parameter optimization of light outcoupling structures for high-efficiency organic light-emitting diodes. <i>Journal of Applied Physics</i> , 2020 , 128, 185501	2.5	2

24	Organic light-emitting diodes with split recombination zones: A concept for versatile color tuning. <i>Organic Electronics</i> , 2020 , 78, 105558	3.5	2
23	Thermally Activated Delayed Fluorescence in a Y3N@C80 Endohedral Fullerene: Time-Resolved Luminescence and EPR Studies. <i>Angewandte Chemie</i> , 2018 , 130, 283-287	3.6	2
22	26-1: Invited Paper: Thermally Activated Delayed Fluorescence Organic Light-Emitting Diodes Comprising Ultrastable Glass Layers. <i>Digest of Technical Papers SID International Symposium</i> , 2019 , 50, 356-359	0.5	1
21	Modeling and simulation of electrothermal feedback in large-area organic LEDs 2017 ,		1
20	Zeit für eine neue Lichtquelle. <i>Physik in Unserer Zeit</i> , 2009 , 40, 170-171	0.1	1
19	Improved light outcoupling of organic light-emitting diodes by combined optimization of thin film layers and external textures 2018 ,		1
18	Bragg scattering of non-radiative modes in red top-emitting organic light emitting diodes with variation of cavity length 2016 ,		1
17	Tailoring Organic LEDs for Bidirectional Optogenetic Control via Dual-Color Switching. <i>Advanced Functional Materials</i> , 2110590	15.6	1
16	Organic Dye-Doped PMMA Lasing. <i>Polymers</i> , 2021 , 13,	4.5	1
15	Organic Electronics and Beyond. <i>Advanced Optical Materials</i> , 2021 , 9, 2101108	8.1	1
14	Electrothermal Tristability Causes Sudden Burn-In Phenomena in Organic LEDs (Adv. Funct. Mater. 47/2021). <i>Advanced Functional Materials</i> , 2021 , 31, 2170349	15.6	0
13	Analysis and optimization of light outcoupling in OLEDs with external hierarchical textures. <i>Optics Express</i> , 2021 , 29, 23701-23716	3.3	0
12	Electrothermal Tristability Causes Sudden Burn-In Phenomena in Organic LEDs. <i>Advanced Functional Materials</i> , 2106716	15.6	0
11	Radically more stable. <i>Nature Materials</i> , 2019 , 18, 917-918	27	
10	38.1: Quantitative Analysis of Charge Transport in Single-Carrier Devices and OLEDs Combining DC and AC Data. <i>Digest of Technical Papers SID International Symposium</i> , 2019 , 50, 414-417	0.5	
9	51.3: Top-Emitting OLEDs for Solid State Lighting: High Efficiency by Optical Modeling. <i>Digest of Technical Papers SID International Symposium</i> , 2012 , 43, 691-693	0.5	
8	Recent Progress in the Understanding of Exciton Dynamics within Phosphorescent OLEDs 2013 , 349-369		
7	72.4: Invited Paper: Novel Approaches for OLED Lighting. <i>Digest of Technical Papers SID International Symposium</i> , 2011 , 42, 1067-1070	0.5	

- 6 Four color stacked white organic light-emitting diodes utilizing the concept of triplet harvesting. *Materials Research Society Symposia Proceedings*, **2011**, 1286, 1
- 5 25.2: Invited Paper: Concepts for Highly Efficient White OLEDs. *Digest of Technical Papers SID International Symposium*, **2010**, 41, 353 0.5
- 4 Leuchtende Zukunft für effiziente weiße OLEDs. *Optik & Photonik*, **2010**, 5, 32-35
- 3 Suppressing exciton deconfinement and dissociation for efficient thermally activated delayed fluorescence OLEDs. *Journal of Applied Physics*, **2021**, 130, 155501 2.5
- 2 White-Light Emitting Materials for Organic Light-Emitting Diode-Based Displays and Lighting **2016**, 231-272
- 1 84-3: Invited Paper: Organic Light-Emitting Diode Beam Shaping: Pixel Design for Variable Angular Emission Profile Control. *Digest of Technical Papers SID International Symposium*, **2018**, 49, 1143-1146 0.5