Anna Khler

List of Publications by Citations

180 papers	10,915 citations	53 h-index	101 g-index
190 ext. papers	11,893 ext. citations	7.8 avg, IF	6.31 L-index

#	Paper	IF	Citations
180	Effect of interchain interactions on the absorption and emission of poly(3-hexylthiophene). *Physical Review B*, **2003**, 67,	3.3	767
179	Spin-dependent exciton formation in pi-conjugated compounds. *Nature*, **2001**, 413, 828-31	50.4	420
178	The energy gap law for triplet states in Pt-containing conjugated polymers and monomers. *Journal of the American Chemical Society*, **2001**, 123, 9412-7	16.4	415
177	Triplet states in organic semiconductors. *Materials Science and Engineering Reports*, **2009**, 66, 71-109	30.9	399
176	Iodine Migration and its Effect on Hysteresis in Perovskite Solar Cells. *Advanced Materials*, **2016**, 28, 2446-54	24	369
175	Fluorescence and Phosphorescence in Organic Materials. *Advanced Materials*, **2002**, 14, 701	24	337
174	Large magnetoresistance in nonmagnetic π-conjugated semiconductor thin film devices. *Physical Review B*, **2005**, 72,	3.3	322
173	Charge separation in localized and delocalized electronic states in polymeric semiconductors. *Nature*, **1998**, 392, 903-906	50.4	299
172	Solution-processible conjugated electrophosphorescent polymers. *Journal of the American Chemical Society*, **2004**, 126, 7041-8	16.4	271
171	**2015**,		221
170	Triplet energy back transfer in conjugated polymers with pendant phosphorescent iridium complexes. *Journal of the American Chemical Society*, **2006**, 128, 6647-56	16.4	214
169	Evolution of lowest singlet and triplet excited states with number of thienyl rings in platinum poly-ynes. *Journal of Chemical Physics*, **1999**, 110, 4963-4970	3.9	211
168	The Singlet–Triplet Exchange Energy in Conjugated Polymers. *Advanced Functional Materials*, **2004**, 14, 11-18	15.6	210
167	Morphology-dependent energy transfer within polyfluorene thin films. *Physical Review B*, **2004**, 69,	3.3	201
166	Control of aggregate formation in poly(3-hexylthiophene) by solvent, molecular weight, and synthetic method. *Journal of Polymer Science, Part B: Polymer Physics*, **2012**, 50, 442-453	2.6	181
165	Synthesis and Electronic Structure of Platinum-Containing Poly-ynes with Aromatic and Heteroaromatic Rings. *Macromolecules*, **1998**, 31, 722-727	5.5	160
164	Highly fluorescent crystalline and liquid crystalline columnar phases of pyrene-based structures. *Journal of Physical Chemistry B*, **2006**, 110, 7653-9	3.4	157

163	Spatial extent of the singlet and triplet excitons in transition metal-containing poly-ynes. *Journal of Chemical Physics*, **1996**, 105, 3868-3877	3.9	157
162	Synthesis, Electrochemistry, and Spectroscopy of Blue Platinum(II) Polyynes and Diynes. *Angewandte Chemie - International Edition*, **1998**, 37, 3036-3039	16.4	150
161	Charge transport in organic semiconductors. *Topics in Current Chemistry*, **2012**, 312, 1-65		147
160	The singlet–triplet energy gap in organic and Pt-containing phenylene ethynylene polymers and monomers. *Journal of Chemical Physics*, **2002**, 116, 9457-9463	3.9	144
159	Triplet states in a series of Pt-containing ethynylenes. *Journal of Chemical Physics*, **2000**, 113, 7627-7634	3.9	137
158	Why does the electrical conductivity in PEDOT:PSS decrease with PSS content? A study combining thermoelectric measurements with impedance spectroscopy. *Journal of Polymer Science, Part B: Polymer Physics*, **2012**, 50, 976-983	2.6	135
157	Spin-Crossover Iron(II) Coordination Polymer with Fluorescent Properties: Correlation between Emission Properties and Spin State. *Journal of the American Chemical Society*, **2018**, 140, 700-709	16.4	131
156	Role of structural order and excess energy on ultrafast free charge generation in hybrid polythiophene/Si photovoltaics probed in real time by near-infrared broadband transient absorption. *Journal of the American Chemical Society*, **2011**, 133, 18220-33	16.4	119
155	Effect of Thermal and Structural Disorder on the Electronic Structure of Hybrid Perovskite Semiconductor CH3NH3PbI3. *Journal of Physical Chemistry Letters*, **2016**, 7, 3014-21	6.4	108
154	The role of PbI in CHNHPbI perovskite stability, solar cell parameters and device degradation. *Physical Chemistry Chemical Physics*, **2017**, 20, 605-614	3.6	106
153	Temperature Induced Order-Disorder Transition in Solutions of Conjugated Polymers Probed by Optical Spectroscopy. *Journal of Physical Chemistry Letters*, **2017**, 8, 114-125	6.4	105
152	An order-disorder transition in the conjugated polymer MEH-PPV. *Journal of the American Chemical Society*, **2012**, 134, 11594-601	16.4	105
151	Synthesis, characterisation and optical spectroscopy of platinum(II) di-ynes and poly-ynes incorporating condensed aromatic spacers in the backbone. *Dalton Transactions*, **2004**, 2377-85	4.3	99
150	"Hot or cold": how do charge transfer states at the donor-acceptor interface of an organic solar cell dissociate?. *Physical Chemistry Chemical Physics*, **2015**, 17, 28451-62	3.6	98
149	Synthesis, characterisation and optical spectroscopy of diynes and poly-ynes containing derivatised fluorenes in the backbone. *Dalton Transactions*, **2003**, 74-84	4.3	95
148	Enhanced photocurrent response in photocells made with platinum-poly-yne/C60 blends by photoinduced electron transfer. *Synthetic Metals*, **1996**, 77, 147-150	3.6	94
147	What controls triplet exciton transfer in organic semiconductors?. *Journal of Materials Chemistry*, **2011**, 21, 4003-4011		93
146	Blue-to-green electrophosphorescence of iridium-based cyclometallated materials. *Chemical Communications*, **2005**, 4708-10	5.8	93

145	Improving Processability and Efficiency of Resonant TADF Emitters: A Design Strategy. *Advanced Optical Materials*, **2020**, 8, 1901627	8.1	85
144	Morphology dependence of the triplet excited state formation and absorption in polyfluorene. *Physical Review B*, **2005**, 71,	3.3	84
143	What determines inhomogeneous broadening of electronic transitions in conjugated polymers?. *Journal of Physical Chemistry B*, **2010**, 114, 17037-48	3.4	80
142	Low-energy vibrational modes in phenylene oligomers studied by THz time-domain spectroscopy. *Chemical Physics Letters*, **2003**, 377, 256-262	2.5	78
141	Unified description for hopping transport in organic semiconductors including both energetic disorder and polaronic contributions. *Physical Review B*, **2013**, 88,	3.3	77
140	Triazine Based Bipolar Host Materials for Blue Phosphorescent OLEDs. *Chemistry of Materials*, **2013** , 25, 3758-3765	9.6	77
139	A series of CBP-derivatives as host materials for blue phosphorescent organic light-emitting diodes. *Journal of Materials Chemistry*, **2011**, 21, 2266-2273		77
138	Photocurrent measurements on aggregates in ladder-type poly(p-phenylene). *Chemical Physics Letters*, **1995**, 243, 456-461	2.5	73
137	Structural characterisation of a series of acetylide-functionalised oligopyridines and the synthesis, characterisation and optical spectroscopy of platinum di-ynes and poly-ynes containing oligopyridyl linker groups in the backbone. *Dalton Transactions RSC*, **2002**, 1358-1368		72
136	A Deep Blue B,N-Doped Heptacene Emitter That Shows Both Thermally Activated Delayed Fluorescence and Delayed Fluorescence by Triplet-Triplet Annihilation. *Journal of the American Chemical Society*, **2020**, 142, 6588-6599	16.4	71
135	Does conjugation help exciton dissociation? a study on poly(p-phenylene)s in planar heterojunctions with C60 or TNF. *Advanced Materials*, **2012**, 24, 922-5	24	71
134	Role of the effective mass and interfacial dipoles on exciton dissociation in organic donor-acceptor solar cells. *Physical Review B*, **2013**, 87,	3.3	70
133	Spectroscopic Signature of Two Distinct H-Aggregate Species in Poly(3-hexylthiophene). *Macromolecules*, **2015**, 48, 1543-1553	5.5	68
132	Electronic excitations in luminescent conjugated polymers. *Solid State Communications*, **1997**, 102, 249-258	2.6	65
131	The photovoltaic effect in a platinum poly-yne. *Synthetic Metals*, **1994**, 67, 245-249	3.6	65
130	Excimer Formation by Steric Twisting in Carbazole and Triphenylamine-Based Host Materials. *Journal of Physical Chemistry C*, **2015**, 119, 2380-2387	3.8	59
129	Triplet energy transfer in conjugated polymers. I. Experimental investigation of a weakly disordered compound. *Physical Review B*, **2008**, 78,	3.3	58
128	Hole-transporting host-polymer series consisting of triphenylamine basic structures for phosphorescent polymer light-emitting diodes. *Journal of Polymer Science Part A*, **2010**, 48, 3417-3430	2.5	55

127	Triplet excimer emission in a series of 4,4′-bis(N-carbazolyl)-2,2′-biphenyl derivatives. *Journal of Physical Chemistry B*, **2011**, 115, 414-21	3.4	53
126	The red-phase of poly[2-methoxy-5-(2-ethylhexyloxy)-1,4-phenylenevinylene] (MEH-PPV): a disordered HJ-aggregate. *Journal of Chemical Physics*, **2013**, 139, 114903	3.9	52
125	π-Conjugated Donor Polymers: Structure Formation and Morphology in Solution, Bulk and Photovoltaic Blends. *Advanced Energy Materials*, **2017**, 7, 1700314	21.8	51
124	Double peak emission in lead halide perovskites by self-absorption. *Journal of Materials Chemistry C* , **2020**, 8, 2289-2300	7.1	51
123	Efficient Charge Separation of Cold Charge-Transfer States in Organic Solar Cells Through Incoherent Hopping. *Journal of Physical Chemistry Letters*, **2017**, 8, 2093-2098	6.4	49
122	Synthesis and characterisation of new acetylide-functionalised aromatic and hetero-aromatic ligands and their dinuclear platinum complexes. *Dalton Transactions*, **2003**, 65-73	4.3	48
121	The Impact of Polydispersity and Molecular Weight on the Order-Disorder Transition in Poly(3-hexylthiophene). *Journal of Physical Chemistry Letters*, **2014**, 5, 2742-7	6.4	47
120	Synthesis and optical characterisation of platinum(II) poly-yne polymers incorporating substituted 1,4-diethynylbenzene derivatives and an investigation of the intermolecular interactions in the diethynylbenzene molecular precursors. *New Journal of Chemistry*, **2003**, 27, 140-149	3.6	47
119	How do disorder, reorganization, and localization influence the hole mobility in conjugated copolymers?. *Journal of the American Chemical Society*, **2013**, 135, 1772-82	16.4	46
118	Controlling the π-stacking behavior of pyrene derivatives: influence of H-bonding and steric effects in different states of aggregation. *ChemPhysChem*, **2013**, 14, 1818-29	3.2	44
117	Electronic Processes of Conjugated Polymers in Semiconductor Device Structures. *Synthetic Metals*, **1997**, 84, 463-470	3.6	44
116	Synthesis, characterisation and electronic properties of a series of platinum(II) poly-ynes containing novel thienyl-pyridine linker groups. *Dalton Transactions RSC*, **2002**, 2441-2448		44
115	How to interpret absorption and fluorescence spectra of charge transfer states in an organic solar cell. *Materials Horizons*, **2018**, 5, 837-848	14.4	43
114	The Impact of Driving Force and Temperature on the Electron Transfer in Donor–Acceptor Blend Systems. *Journal of Physical Chemistry C*, **2017**, 121, 22739-22752	3.8	41
113	Spectral diffusion in poly(para-phenylene)-type polymers with different energetic disorder. *Physical Review B*, **2010**, 81,	3.3	41
112	A Combined Theoretical and Experimental Study of Dissociation of Charge Transfer States at the Donor-Acceptor Interface of Organic Solar Cells. *Journal of Physical Chemistry B*, **2015**, 119, 10359-71	3.4	40
111	Monomolecular and Bimolecular Recombination of Electron–Hole Pairs at the Interface of a Bilayer Organic Solar Cell. *Advanced Functional Materials*, **2017**, 27, 1604906	15.6	40
110	How do Triplets and Charges Move in Disordered Organic Semiconductors? A Monte Carlo Study Comprising the Equilibrium and Nonequilibrium Regime. *Journal of Physical Chemistry C*, **2012**, 116, 16371-16383	3.8	40

109	Impact of excess PbI2 on the structure and the temperature dependent optical properties of methylammonium lead iodide perovskites. *Journal of Materials Chemistry C*, **2018**, 6, 7512-7519	7.1	38
108	Triplet energy transfer in conjugated polymers. II. A polaron theory description addressing the influence of disorder. *Physical Review B*, **2008**, 78,	3.3	38
107	What is the Binding Energy of a Charge Transfer State in an Organic Solar Cell?. *Advanced Energy Materials*, **2019**, 9, 1900814	21.8	37
106	Revealing structure formation in PCPDTBT by optical spectroscopy. *Journal of Polymer Science, Part B: Polymer Physics*, **2015**, 53, 1416-1430	2.6	37
105	Reversible Laser-Induced Amplified Spontaneous Emission from Coexisting Tetragonal and Orthorhombic Phases in Hybrid Lead Halide Perovskites. *Advanced Optical Materials*, **2016**, 4, 917-928	8.1	35
104	Triplet energy transfer in conjugated polymers. III. An experimental assessment regarding the influence of disorder on polaronic transport. *Physical Review B*, **2010**, 81,	3.3	35
103	Interplay between hopping and band transport in high-mobility disordered semiconductors at large carrier concentrations: The case of the amorphous oxide InGaZnO. *Physical Review B*, **2016**, 93,	3.3	34
102	Role of Intrinsic Photogeneration in Single Layer and Bilayer Solar Cells with C60 and PCBM. *Journal of Physical Chemistry C*, **2016**, 120, 25083-25091	3.8	34
101	Phosphorescence and spin-dependent exciton formation in conjugated polymers. *Organic Electronics*, **2003**, 4, 179-189	3.5	34
100	The effects of H2O and O2 on the photocurrent spectra of MEH-PPV. *Synthetic Metals*, **1999**, 102, 871-872	3.6	33
99	To Hop or Not to Hop? Understanding the Temperature Dependence of Spectral Diffusion in Organic Semiconductors. *Journal of Physical Chemistry Letters*, **2013**, 4, 1694-700	6.4	32
98	Fluorescence and Phosphorescence in Organic Materials. *Advanced Engineering Materials*, **2002**, 4, 453-459	3.5	32
97	Direct observation of backbone planarization via side-chain alignment in single bulky-substituted polythiophenes. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 2699-2704	11.5	31
96	Triplet energies and excimer formation in meta- and para-linked carbazolebiphenyl matrix materials. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2015**, 373,	3	30
95	Does Excess Energy Assist Photogeneration in an Organic Low-Bandgap Solar Cell?. *Advanced Functional Materials*, **2015**, 25, 1287-1295	15.6	30
94	Control of β-phase formation in polyfluorene thin films via Franck–Condon analysis. *Synthetic Metals*, **2003**, 139, 905-907	3.6	30
93	Does Electron Delocalization Influence Charge Separation at Donor–Acceptor Interfaces in Organic Photovoltaic Cells?. *Journal of Physical Chemistry C*, **2018**, 122, 21792-21802	3.8	30
92	Synthesis and Comparison of the Optical Properties of Platinum(II) Poly-ynes with Fused and Non-Fused Oligothiophenes. *Macromolecules*, **2009**, 42, 1131-1141	5.5	28

91	High Versatility and Stability of Mechanochemically Synthesized Halide Perovskite Powders for Optoelectronic Devices. *ACS Applied Materials & Interfaces*, **2019**, 11, 30259-30268	9.5	26
90	Emission Enhancement and Intermittency in Polycrystalline Organolead Halide Perovskite Films. *Molecules*, **2016**, 21,	4.8	26
89	Controlling aggregate formation in conjugated polymers by spin-coating below the critical temperature of the disorderBorder transition. *Journal of Polymer Science, Part B: Polymer Physics*, **2018**, 56, 532-542	2.6	25
88	Watching Paint Dry: The Impact of Diiodooctane on the Kinetics of Aggregate Formation in Thin Films of Poly(3-hexylthiophene). *Macromolecules*, **2016**, 49, 6420-6430	5.5	24
87	Synthesis and characterization of platinum(II) di-ynes and poly-ynes incorporating ethylenedioxythiophene (EDOT) spacers in the backbone. *Dalton Transactions*, **2011**, 40, 10174-83	4.3	24
86	Atomic-Level Insight into the Postsynthesis Band Gap Engineering of a Lewis Base Polymer Using Lewis Acid Tris(pentafluorophenyl)borane. *Chemistry of Materials*, **2019**, 31, 6715-6725	9.6	23
85	Disorder vs Delocalization: Which Is More Advantageous for High-Efficiency Organic Solar Cells?. *Journal of Physical Chemistry Letters*, **2019**, 10, 7107-7112	6.4	23
84	Environmental Control of Triplet Emission in DonorBridgeAcceptor Organometallics. *Advanced Functional Materials*, **2020**, 30, 1908715	15.6	22
83	Ultrafast Energy Transfer between Disordered and Highly Planarized Chains of Poly[2-methoxy-5-(2-ethylhexyloxy)-1,4-phenylenevinylene] (MEH-PPV). *ACS Macro Letters*, **2015**, 4, 412-416	6.6	21
82	Investigating two-step MAPbI3 thin film formation during spin coating by simultaneous in situ absorption and photoluminescence spectroscopy. *Journal of Materials Chemistry A*, **2020**, 8, 5086-5094	13	21
81	Origin of Meyer-Neldel type compensation behavior in organic semiconductors at large carrier concentrations: Disorder versus thermodynamic description. *Physical Review B*, **2014**, 90,	3.3	21
80	Measuring Reduced C60 Diffusion in Crosslinked Polymer Films by Optical Spectroscopy. *Advanced Functional Materials*, **2014**, 24, 6172-6177	15.6	19
79	Dimensionality-dependent energy transfer in polymer-intercalated SnS2 nanocomposites. *Physical Review B*, **2007**, 75,	3.3	18
78	Polarization of singlet and triplet excited states in a platinum-containing conjugated polymer. *Physical Review B*, **2003**, 67,	3.3	18
77	Compact Layers of Hybrid Halide Perovskites Fabricated via the Aerosol Deposition Process-Uncoupling Material Synthesis and Layer Formation. *Materials*, **2016**, 9,	3.5	18
76	Relaxation dynamics and exciton energy transfer in the low-temperature phase of MEH-PPV. *Journal of Chemical Physics*, **2015**, 142, 212429	3.9	17
75	Triplet-triplet annihilation in a series of poly(p-phenylene) derivatives. *Journal of Physical Chemistry B*, **2011**, 115, 8417-23	3.4	17
74	The role of C-H and C-C stretching modes in the intrinsic non-radiative decay of triplet states in a Pt-containing conjugated phenylene ethynylene. *Journal of Chemical Physics*, **2012**, 136, 094905	3.9	17

73	Synthese, Elektrochemie und Spektroskopie von blauen Platin(II)-polyinen und -diinen. *Angewandte Chemie*, **1998**, 110, 3180-3183	3.6	17
72	Donor-acceptor interactions in organometallic and organic poly-ynes. *Synthetic Metals*, **1999**, 101, 246-247	3.6	16
71	Iron(II) Spin Crossover Complexes Based on a Redox Active Equatorial Schiff-Base-Like Ligand. *Inorganic Chemistry*, **2020**, 59, 8320-8333	5.1	15
70	Novel host materials for blue phosphorescent OLEDs **2013**,		15
69	Synthesis of new conjugated thiophene polymers. *Synthetic Metals*, **1996**, 76, 169-171	3.6	14
68	The effect of intermolecular interaction on excited states in p-DTS(FBTTH2)2. *Journal of Chemical Physics*, **2016**, 144, 074904	3.9	14
67	UV photocurrent spectroscopy in poly(p-phenylene vinylene) and derivatives. *Synthetic Metals*, **1997**, 84, 675-676	3.6	13
66	The effect of delocalization on the exchange energy in meta- and para-linked Pt-containing carbazole polymers and monomers. *Journal of Chemical Physics*, **2006**, 124, 244701	3.9	13
65	Spectroscopic study of spin-dependent exciton formation rates in π-conjugated semiconductors: Comparison with electroluminescence techniques. *Physical Review B*, **2004**, 70,	3.3	13
64	Polymer light-emitting diodes with spin-polarised charge injection. *Synthetic Metals*, **2004**, 147, 155-158	3.6	13
63	Polarized blue photoluminescence of mesoscopically ordered electrospun non-conjugated polyacrylonitrile nanofibers. *Materials Horizons*, **2020**, 7, 1605-1612	14.4	12
62	Diffusion-limited energy transfer in blends of oligofluorenes with an anthracene derivative. *Journal of Physical Chemistry B*, **2011**, 115, 8063-70	3.4	12
61	Effect of the solvent on the conformation of isolated MEH-PPV chains intercalated into SnS2. *ChemPhysChem*, **2008**, 9, 1430-6	3.2	12
60	A Fluorescence-Detected Coordination-Induced Spin State Switch. *Journal of the American Chemical Society*, **2021**, 143, 3466-3480	16.4	11
59	Dielectric/Semiconductor Interface Limits Charge Carrier Motion at Elevated Temperatures and Large Carrier Densities in a High-Mobility Organic Semiconductor. *Advanced Functional Materials*, **2019**, 29, 1807867	15.6	11
58	Investigating the Tetragonal-to-Orthorhombic Phase Transition of Methylammonium Lead Iodide Single Crystals by Detailed Photoluminescence Analysis. *Advanced Optical Materials*, **2020**, 8, 2000455	8.1	11
57	Influence of the Excited-State Charge-Transfer Character on the Exciton Dissociation in Donor/Acceptor Copolymers. *Journal of Physical Chemistry C*, **2014**, 118, 27-36	3.8	10
56	Influence of crosslinking on charge carrier mobility in crosslinkable polyfluorene derivatives. *Journal of Polymer Science, Part B: Polymer Physics*, **2017**, 55, 112-120	2.6	9

55	Rod-like nano-light harvester. *Macromolecular Rapid Communications*, **2014**, 35, 52-5	4.8	9
54	Kinetic Monte Carlo Study of Triplet-Triplet Annihilation in Conjugated Luminescent Materials. *Physical Review Applied*, **2020**, 14,	4.3	9
53	The influence of torsion on excimer formation in bipolar host materials for blue phosphorescent OLEDs. *Journal of Chemical Physics*, **2016**, 144, 214906	3.9	9
52	Triplet Exciton Diffusion and Quenching in Matrix-Free Solid Photon Upconversion Films. *Journal of Physical Chemistry C*, **2021**, 125, 3764-3775	3.8	9
51	Thiophene–Pyrrole containing S,N-heteroheptacenes: synthesis, and optical and electrochemical characterisation. *Organic Chemistry Frontiers*, **2017**, 4, 1629-1635	5.2	8
50	Facile Synthesis and Chain-Length Dependence of the Optical and Structural Properties of Diketopyrrolopyrrole-Based Oligomers. *Chemistry - A European Journal*, **2017**, 23, 13718-13723	4.8	8
49	Structural Information for Conjugated Polymers from Optical Modeling. *Journal of Physical Chemistry A*, **2018**, 122, 3621-3625	2.8	8
48	Organic solar cells with crosslinked polymeric exciton blocking layer. *Physica Status Solidi (A) Applications and Materials Science*, **2015**, 212, 2162-2168	1.6	8
47	On the formation mechanism for electrically generated exciplexes in a carbazole–pyridine copolymer. *Journal of Polymer Science, Part B: Polymer Physics*, **2012**, 50, 361-369	2.6	8
46	Interplay of localized pyrene chromophores and π-conjugation in novel poly(2,7-pyrene) ladder polymers. *Journal of Chemical Physics*, **2017**, 146, 174903	3.9	7
45	Ground State Bleaching at Donor–Acceptor Interfaces. *Advanced Functional Materials*, **2014**, 24, 6439-6448	15.6	7
44	Diindolocarbazole - achieving multiresonant thermally activated delayed fluorescence without the need for acceptor units.. *Materials Horizons*, **2022**,	14.4	7
43	High Triplet Energy Host Materials for Blue TADF OLEDs-A Tool Box Approach. *Frontiers in Chemistry*, **2020**, 8, 657	5	7
42	Thermally Activated Delayed Fluorescent Dendrimers that Underpin High-efficiency Host-Free Solution-Processed Organic Light Emitting Diodes.. *Advanced Materials*, **2022**, e2110344	24	7
41	Role of transport band edge variation on delocalized charge transport in high-mobility crystalline organic semiconductors. *Physical Review B*, **2017**, 96,	3.3	6
40	Regiochemistry of Donor Dendrons Controls the Performance of Thermally Activated Delayed Fluorescence Dendrimer Emitters for High Efficiency Solution-Processed Organic Light-Emitting Diodes.. *Advanced Science*, **2022**, e2201470	13.6	6
39	Fundamentals of Organic Semiconductor Devices **2015**, 307-388		5
38	Spectroscopic Study of Thiophene-Pyrrole-Containing S,N-Heteroheptacenes Compared to Acenes and Phenacenes. *Journal of Physical Chemistry B*, **2017**, 121, 7492-7501	3.4	5

37	Density of States of OLED Host Materials from Thermally Stimulated Luminescence. *Physical Review Applied*, **2021**, 15,	4.3	5
36	Initiator-free crosslinking of oxetane functionalized low bandgap polymers: an approach towards stabilized bulk heterojunction solar cells. *Journal of Materials Chemistry C*, **2016**, 4, 10347-10357	7.1	5
35	Mapping the Density of States Distribution of Organic Semiconductors by Employing Energy Resolved Electrochemical Impedance Spectroscopy. *Advanced Functional Materials*, **2021**, 31, 2007738	15.6	5
34	Elucidating Aggregation Pathways in the Donor-Acceptor Type Molecules p-DTS(FBTTh) and p-SIDT(FBTTh). *Journal of Physical Chemistry B*, **2018**, 122, 9191-9201	3.4	5
33	Electronic and Optical Processes of Organic Semiconductors **2015**, 193-305		4
32	Negative field-dependent charge mobility in crystalline organic semiconductors with delocalized transport. *Chemical Papers*, **2018**, 72, 1685-1695	1.9	4
31	Analytic model of hopping transport in organic semiconductors including both energetic disorder and polaronic contributions **2014**,		4
30	Exciton dynamics in blends of phosphorescent emitters. *Physica Status Solidi (B): Basic Research*, **2008**, 245, 810-813	1.3	4
29	Versatile Approach to Well-Defined Oligofluorenes and Polyfluorenes with Low Dispersity. *Macromolecules*, **2020**, 53, 10137-10146	5.5	4
28	The Impact of Solvent Vapor on the Film Morphology and Crystallization Kinetics of Lead Halide Perovskites during Annealing. *ACS Applied Materials & Interfaces*, **2021**, 13, 45365-45374	9.5	4
27	Charges and Excited States in Organic Semiconductors **2015**, 87-191		3
26	The Electronic Structure of Organic Semiconductors **2015**, 1-86		3
25	What is the role of planarity and torsional freedom for aggregation in a conjugated donor acceptor model oligomer?. *Journal of Materials Chemistry C*, **2020**, 8, 4944-4955	7.1	3
24	Influence of Bromo Substitution on Structure and Optoelectronic Properties of Homopolymers and Gradient Copolymers of 3-Hexylthiophene. *Macromolecules*, **2020**, 53, 2474-2484	5.5	3
23	Synthesis, spectroscopic characterization, thermal and luminescent properties of new organosulfur-functionalized platinum(II) bis(alkenylarylalkynyl) complexes. *Journal of Organometallic Chemistry*, **2016**, 818, 185-194	2.3	3
22	Excited state dynamics and conformations of a Cu(ii)-phthalocyanine-perylenebisimide dyad. *Physical Chemistry Chemical Physics*, **2017**, 19, 22169-22176	3.6	3
21	Charge carrier mobility in amorphous organic semiconductors **2013**, 192-234		3
20	Role of Torsional Flexibility in the Film Formation Process in Two Conjugated Model Oligomers. *Journal of Physical Chemistry Letters*, **2020**, 11, 9379-9386	6.4	3

19	The Impact of Grain Boundaries on Charge Transport in Polycrystalline Organic Field-Effect Transistors. *Advanced Optical Materials*, **2021**, 9, 2100115	8.1	3
18	Organic Bidirectional Phototransistors Based on Diketopyrrolopyrrole and Fullerene. *Advanced Functional Materials*, **2019**, 29, 1805684	15.6	3
17	Facile Method for the Investigation of Temperature-Dependent C Diffusion in Conjugated Polymers. *ACS Applied Materials & Interfaces*, **2018**, 10, 21499-21509	9.5	3
16	A New Series of Conjugated Platinum-co-Poly(p-phenylenebutadiynylene)s Polymers: Syntheses and Photophysical Properties. *Macromolecular Chemistry and Physics*, **2019**, 220, 1800494	2.6	2
15	Extracting structural information from MEH-PPV optical spectra. *Journal of Chemical Physics*, **2018**, 149, 044903	3.9	2
14	Enhancing Thermally Activated Delayed Fluorescence by Fine-Tuning the Dendron Donor Strength.. *Journal of Physical Chemistry B*, **2022**,	3.4	2
13	Understanding the Role of Order in Y-Series Non-Fullerene Solar Cells to Realize High Open-Circuit Voltages. *Advanced Energy Materials*,2103422	21.8	2
12	Role of the reorganization energy for charge transport in disordered organic semiconductors. *Physical Review B*, **2021**, 103,	3.3	2
11	Suppressed ion migration in powder-based perovskite thick films using an ionic liquid. *Journal of Materials Chemistry C*, **2021**, 9, 11827-11837	7.1	2
10	Static and Dynamic Disorder of Charge Transfer States Probed by Optical Spectroscopy. *Advanced Energy Materials*,2103063	21.8	2
9	Low efficiency roll-off blue TADF OLEDs employing a novel acridine□pyrimidine based high triplet energy host. *Journal of Materials Chemistry C*,	7.1	1
8	OBO-Fused Benzo[fg]tetracene as Acceptor With Potential for Thermally Activated Delayed Fluorescence Emitters. *Frontiers in Chemistry*, **2020**, 8, 563411	5	1
7	Unraveling the Role of Multiphonon Excitations and Disorder Concerning the Meyer-Neldel Type Compensation Effect in Organic Semiconductors. *Physical Review Applied*, **2018**, 10,	4.3	1
6	Posttreatment of powder aerosol deposited oxide ceramic films by high power LED. *International Journal of Applied Ceramic Technology*, **2022**, 19, 1540-1553	2	1
5	19-2: Invited Paper: Design of Multi-Resonance Thermally Activated Delayed Fluorescence Materials for Organic Light-Emitting Diodes. *Digest of Technical Papers SID International Symposium*, **2021**, 52, 228-231	0.5	0
4	Substitution Effects on a New Pyridylbenzimidazole Acceptor for Thermally Activated Delayed Fluorescence and Their Use in Organic Light-Emitting Diodes. *Advanced Optical Materials*,2100846	8.1	0
3	Photogeneration of Charge Carriers in Solution-Processable Organic Semiconductors **2019**, 259-308		
2	New Light Emitting Polymers and High Energy Hosts for Triplet Emission. *Materials Research Society Symposia Proceedings*, **2004**, 846, DD7.7.1		

1 Publisher's Note: "The influence of torsion on excimer formation in bipolar host materials for blue phosphorescent OLEDs" [J. Chem. Phys. 144, 214906 (2016)]. *Journal of Chemical Physics*, **2016**, 144, 239902 3.9