Cheng-Kang Mai

List of Publications by Citations

34 papers	1,890 citations	20 h-index	36 g-index
36 ext. papers	2,038 ext. citations	11.4 avg, IF	4.64 L-index

#	Paper	IF	Citations
34	Polymer homo-tandem solar cells with best efficiency of 11.3%. *Advanced Materials*, **2015**, 27, 1767-73	24	386
33	Conjugated polyelectrolyte hole transport layer for inverted-type perovskite solar cells. *Nature Communications*, **2015**, 6, 7348	17.4	248
32	Conductive conjugated polyelectrolyte as hole-transporting layer for organic bulk heterojunction solar cells. *Advanced Materials*, **2014**, 26, 780-5	24	174
31	Side-chain effects on the conductivity, morphology, and thermoelectric properties of self-doped narrow-band-gap conjugated polyelectrolytes. *Journal of the American Chemical Society*, **2014**, 136, 13478-81	16.4	147
30	Facile doping of anionic narrow-band-gap conjugated polyelectrolytes during dialysis. *Angewandte Chemie - International Edition*, **2013**, 52, 12874-8	16.4	108
29	Varying the ionic functionalities of conjugated polyelectrolytes leads to both p- and n-type carbon nanotube composites for flexible thermoelectrics. *Energy and Environmental Science*, **2015**, 8, 2341-2346	35.4	89
28	Tethered tertiary amines as solid-state n-type dopants for solution-processable organic semiconductors. *Chemical Science*, **2016**, 7, 1914-1919	9.4	71
27	Solution-processed pH-neutral conjugated polyelectrolyte improves interfacial contact in organic solar cells. *ACS Nano*, **2015**, 9, 371-7	16.7	63
26	A concise formal synthesis of diazonamide A by the stereoselective construction of the C10 quaternary center. *Angewandte Chemie - International Edition*, **2010**, 49, 2397-400	16.4	63
25	High thermal stability solution-processable narrow-band gap molecular semiconductors. *Journal of the American Chemical Society*, **2014**, 136, 16144-7	16.4	51
24	Controlling the Thermoelectric Properties of Thiophene-Derived Single-Molecule Junctions. *Chemistry of Materials*, **2014**, 26, 7229-7235	9.6	48
23	Alpha-arylation of 3-aryloxindoles. *Organic Letters*, **2010**, 12, 2306-9	6.2	43
22	Ternary D1D2AD2 Structured Conjugated Polymer: Efficient Green-Solvent-Processed Polymer/Neat-C70 Solar Cells. *Chemistry of Materials*, **2016**, 28, 7479-7486	9.6	40
21	Conjugated Polyelectrolytes as Efficient Hole Transport Layers in Perovskite Light-Emitting Diodes. *ACS Nano*, **2018**, 12, 5826-5833	16.7	38
20	Narrow band gap conjugated polyelectrolytes for photothermal killing of bacteria. *Journal of Materials Chemistry B*, **2015**, 3, 7340-7346	7.3	36
19	Large-scale integration of flexible materials into rolled and corrugated thermoelectric modules. *Journal of Applied Polymer Science*, **2017**, 134,	2.9	32
18	Anisotropic Thermal Transport in Thermoelectric Composites of Conjugated Polyelectrolytes/Single-Walled Carbon Nanotubes. *Macromolecules*, **2016**, 49, 4957-4963	5.5	26

17	Effect of chiral 2-ethylhexyl side chains on chiroptical properties of the narrow bandgap conjugated polymers PCPDTBT and PCDTPT. *Chemical Science*, **2016**, 7, 5313-5321	9.4	24
16	Study on the thermal reactions of [60]fullerene with amino acids and amino acid esters. *Organic and Biomolecular Chemistry*, **2012**, 10, 8720-9	3.9	22
15	A Concise Formal Synthesis of Diazonamide A by the Stereoselective Construction of the C10 Quaternary Center. *Angewandte Chemie*, **2010**, 122, 2447-2450	3.6	20
14	Anaerobic Respiration on Self-Doped Conjugated Polyelectrolytes: Impact of Chemical Structure. *Angewandte Chemie - International Edition*, **2017**, 56, 6519-6522	16.4	18
13	Electrical properties of doped conjugated polyelectrolytes with modulated density of the ionic functionalities. *Chemical Communications*, **2015**, 51, 17607-10	5.8	17
12	End-Group-Mediated Aggregation of Poly(3-hexylthiophene). *Macromolecules*, **2015**, 48, 6224-6232	5.5	14
11	Facile Doping of Anionic Narrow-Band-Gap Conjugated Polyelectrolytes During Dialysis. *Angewandte Chemie*, **2013**, 125, 13112-13116	3.6	13
10	Excited State Dynamics of a Self-Doped Conjugated Polyelectrolyte. *Advanced Functional Materials*, **2020**, 30, 1906148	15.6	12
9	Influence of molecular structure on the performance of low Voc loss polymer solar cells. *Journal of Materials Chemistry A*, **2016**, 4, 15232-15239	13	12
8	Structural variations to a donor polymer with low energy losses. *Journal of Materials Chemistry A*, **2017**, 5, 18618-18626	13	11
7	Conjugated Polyelectrolyte/Graphene Hetero-Bilayer Nanocomposites Exhibit Temperature Switchable Type of Conductivity. *Advanced Electronic Materials*, **2017**, 3, 1600515	6.4	10
6	One-pot synthesis of semicrystalline/amorphous multiblock copolymers via divinyl-terminated telechelic polyolefins. *Chemical Communications*, **2016**, 52, 2237-40	5.8	10
5	Electronic properties of conjugated polyelectrolyte/single-walled carbon nanotube composites. *Advanced Materials*, **2014**, 26, 4697-703	24	10
4	Chiroptical Properties of a Benzotriazole–Thiophene Copolymer Bearing Chiral Ethylhexyl Side Chains. *Macromolecules*, **2016**, 49, 9301-9308	5.5	10
3	Silicon direct bonding via low-temperature wet chemical surface activation. *RSC Advances*, **2016**, 6, 37079-37084	3.7	10
2	Anaerobic Respiration on Self-Doped Conjugated Polyelectrolytes: Impact of Chemical Structure. *Angewandte Chemie*, **2017**, 129, 6619-6622	3.6	8
1	Optical Properties of Benzotriazole-Based Conjugated Polyelectrolytes. *Macromolecules*, **2016**, 49, 6343-6349	5.5	6