Cheng Gu

List of Publications by Citations

74 papers	3,661 citations	31 h-index	60 g-index
77 ext. papers	4,315 ext. citations	10.5 avg, IF	5.31 L-index

#	Paper	IF	Citations
74	Achieving a Significantly Increased Efficiency in Nondoped Pure Blue Fluorescent OLED: A Quasi-Equivalent Hybridized Excited State. *Advanced Functional Materials*, **2015**, 25, 1755-1762	15.6	304
73	Radical covalent organic frameworks: a general strategy to immobilize open-accessible polyradicals for high-performance capacitive energy storage. *Angewandte Chemie - International Edition*, **2015**, 54, 6814-8	16.4	283
72	Controlled synthesis of conjugated microporous polymer films: versatile platforms for highly sensitive and label-free chemo- and biosensing. *Angewandte Chemie - International Edition*, **2014**, 53, 4850-5	16.4	229
71	Electrochemical route to fabricate film-like conjugated microporous polymers and application for organic electronics. *Advanced Materials*, **2013**, 25, 3443-8	24	179
70	Design and control of gas diffusion process in a nanoporous soft crystal. *Science*, **2019**, 363, 387-391	33.3	177
69	A Molecular Glass for Deep-Blue Organic Light-Emitting Diodes Comprising a 9,9?-Spirobifluorene Core and Peripheral Carbazole Groups. *Advanced Functional Materials*, **2007**, 17, 2869-2877	15.6	169
68	High Yields of Singlet Excitons in Organic Electroluminescence through Two Paths of Cold and Hot Excitons. *Advanced Optical Materials*, **2014**, 2, 510-515	8.1	157
67	Conjugated Microporous Polymer Films: Designed Synthesis, Conducting Properties, and Photoenergy Conversions. *Angewandte Chemie - International Edition*, **2015**, 54, 13594-8	16.4	151
66	Design of Highly Photofunctional Porous Polymer Films with Controlled Thickness and Prominent Microporosity. *Angewandte Chemie - International Edition*, **2015**, 54, 11540-4	16.4	120
65	A highly soluble, crystalline covalent organic framework compatible with device implementation. *Chemical Science*, **2019**, 10, 1023-1028	9.4	102
64	Electropolymerized Conjugated Microporous Poly(zinc-porphyrin) Films as Potential Electrode Materials in Supercapacitors. *Advanced Energy Materials*, **2015**, 5, 1402175	21.8	96
63	Porous Organic Polymer Films with Tunable Work Functions and Selective Hole and Electron Flows for Energy Conversions. *Angewandte Chemie - International Edition*, **2016**, 55, 3049-53	16.4	95
62	Achieving High Efficiency of PTB7-Based Polymer Solar Cells via Integrated Optimization of Both Anode and Cathode Interlayers. *Advanced Energy Materials*, **2014**, 4, 1301771	21.8	92
61	The origin of the improved efficiency and stability of triphenylamine-substituted anthracene derivatives for OLEDs: a theoretical investigation. *ChemPhysChem*, **2008**, 9, 2601-9	3.2	84
60	Luminescent Porous Polymers Based on Aggregation-Induced Mechanism: Design, Synthesis and Functions. *Small*, **2016**, 12, 6513-6527	11	84
59	Color-stable white electroluminescence based on a cross-linked network film prepared by electrochemical copolymerization. *Advanced Materials*, **2010**, 22, 2702-5	24	70
58	Mechanochromic and thermochromic fluorescent properties of cyanostilbene derivatives. *Dyes and Pigments*, **2013**, 98, 486-492	4.6	63

57	Multilayer polymer stacking by in situ electrochemical polymerization for color-stable white electroluminescence. *Advanced Materials*, **2011**, 23, 527-30	24	63
56	Highly-efficient solution-processed OLEDs based on new bipolar emitters. *Chemical Communications*, **2010**, 46, 3923-5	5.8	62
55	In situ electrochemical deposition and doping of C60 films applied to high-performance inverted organic photovoltaics. *Advanced Materials*, **2012**, 24, 5727-31	24	60
54	Study of β-phase and Chains Aggregation Degrees in Poly(9,9-dioctylfluorene) (PFO) Solution. *Journal of Physical Chemistry C*, **2012**, 116, 7993-7999	3.8	57
53	Controlled Synthesis of Conjugated Microporous Polymer Films: Versatile Platforms for Highly Sensitive and Label-Free Chemo- and Biosensing. *Angewandte Chemie*, **2014**, 126, 4950-4955	3.6	51
52	Cross-linked multifunctional conjugated polymers prepared by in situ electrochemical deposition for a highly-efficient blue-emitting and electron-transport layer. *Advanced Materials*, **2012**, 24, 2413-7	24	49
51	Highly Efficient Nondoped Near-Ultraviolet Electroluminescence with an External Quantum Efficiency Greater Than 6.5% Based on a Carbazole–Triazole Hybrid Molecule with High and Balanced Charge Mobility. *Advanced Optical Materials*, **2017**, 5, 1700747	8.1	45
50	A solution-processable deep red molecular emitter for non-doped organic red-light-emitting diodes. *Dyes and Pigments*, **2011**, 91, 356-363	4.6	41
49	Conjugated Microporous Polymer Films: Designed Synthesis, Conducting Properties, and Photoenergy Conversions. *Angewandte Chemie*, **2015**, 127, 13798-13802	3.6	40
48	Aromatic S-Heterocycle and Fluorene Derivatives as Solution-Processed Blue Fluorescent Emitters: Structure–Property Relationships for Different Sulfur Oxidation States. *Journal of Physical Chemistry C*, **2013**, 117, 14189-14196	3.8	40
47	Highly Efficient and Fully Solution-Processed White Electroluminescence Based on Fluorescent Small Molecules and a Polar Conjugated Polymer as the Electron-Injection Material. *Advanced Functional Materials*, **2012**, 22, 1092-1097	15.6	37
46	Cascade exciton-pumping engines with manipulated speed and efficiency in light-harvesting porous network films. *Scientific Reports*, **2015**, 5, 8867	4.9	35
45	A new kind of peripheral carbazole substituted ruthenium(II) complexes for electrochemical deposition organic light-emitting diodes. *Journal of Materials Chemistry*, **2009**, 19, 3941		35
44	Crystalline and Stable Benzofuran-Linked Covalent Organic Frameworks from Irreversible Cascade Reactions. *Journal of the American Chemical Society*, **2020**, 142, 13316-13321	16.4	32
43	Electrochemical polymerization films for highly efficient electroluminescent devices and RGB color pixel. *Electrochemistry Communications*, **2010**, 12, 553-556	5.1	30
42	Synthesis and electrochemical properties of peripheral carbazole functional Ter(9,9-spirobifluorene)s. *Journal of Organic Chemistry*, **2008**, 73, 4212-8	4.2	30
41	High performance, flexible, poly(3,4-ethylenedioxythiophene) supercapacitors achieved by doping redox mediators in organogel electrolytes. *Journal of Power Sources*, **2016**, 332, 413-419	8.9	30
40	Almost completely dedoped electrochemically deposited luminescent films exhibiting excellent LED performance. *Electrochimica Acta*, **2009**, 54, 7006-7011	6.7	27

39	Fully solution-processed and multilayer blue organic light-emitting diodes based on efficient small molecule emissive layer and intergrated interlayer optimization. *Organic Electronics*, **2015**, 27, 35-40	3.5	24
38	Electropolymerization of Molecular-Sieving Polythiophene Membranes for H Separation. *Angewandte Chemie - International Edition*, **2019**, 58, 8768-8772	16.4	23
37	Electroactive Self-Assembled Monolayers for Enhanced Efficiency and Stability of Electropolymerized Luminescent Films and Devices. *Advanced Functional Materials*, **2011**, 21, 2896-2900	15.6	23
36	A triphenylamine-capped solution-processable wholly aromatic organic molecule with electrochemical stability and its potential application in photovoltaic devices. *New Journal of Chemistry*, **2013**, 37, 2440	3.6	22
35	Porous Organic Polymer Films with Tunable Work Functions and Selective Hole and Electron Flows for Energy Conversions. *Angewandte Chemie*, **2016**, 128, 3101-3105	3.6	22
34	Design of Highly Photofunctional Porous Polymer Films with Controlled Thickness and Prominent Microporosity. *Angewandte Chemie*, **2015**, 127, 11702-11706	3.6	21
33	Large Titanium-Oxo Clusters as Precursors to Synthesize the Single Crystals of Ti-MOFs **2021**, 3, 64-68		20
32	Thiophene Disubstituted Benzothiadiazole Derivatives: An Effective Planarization Strategy Toward Deep-Red to Near-Infrared (NIR) Organic Light-Emitting Diodes. *Frontiers in Chemistry*, **2019**, 7, 276	5	19
31	Electrochemical synthesis of transparent, amorphous, C-rich, photoactive, and low-doped film with an interconnected structure. *Small*, **2013**, 9, 2064-8	11	19
30	Chemistry and materials based on 5,5′-bibenzo[c][1,2,5]thiadiazole. *Chemical Communications*, **2013**, 49, 5730-2	5.8	18
29	Efficient Organic Light-Emitting Transistors Based on High-Quality Ambipolar Single Crystals. *ACS Applied Materials & Interfaces*, **2020**, 12, 43976-43983	9.5	17
28	Insight into the Efficiency and Stability of All-Polymer Solar Cells Based on Two 2D-Conjugated Polymer Donors: Achieving High Fill Factor of 78. *ACS Applied Materials & Interfaces*, **2019**, 11, 43433-43440	9.5	16
27	Functionality of peripheral side chain for enhanced performance of conjugated polymer-F8BT as an example. *Journal of Polymer Science Part A*, **2011**, 49, 4549-4555	2.5	15
26	Cross-linked luminescent films via electropolymerization of multifunctional precursors for highly efficient electroluminescence. *Polymer Chemistry*, **2013**, 4, 2090	4.9	14
25	Electrochemical Synthesis, Deposition, and Doping of Polycyclic Aromatic Hydrocarbon Films. *Journal of the American Chemical Society*, **2021**, 143, 2682-2687	16.4	14
24	Electropolymerization of Molecular-Sieving Polythiophene Membranes for H2 Separation. *Angewandte Chemie*, **2019**, 131, 8860-8864	3.6	13
23	Synthesis and characterization of new polyfluorene derivatives: using phenanthro[9,10-d]imidazole group as a building block for deep blue light-emitting polymer. *Polymer Bulletin*, **2012**, 69, 273-289	2.4	12
22	Electrochemical polymerization: an emerging approach for fabricating high-quality luminescent films and super-resolution OLEDs. *Journal of Materials Chemistry C*, **2020**, 8, 5310-5320	7.1	11

21	Suppressing charge trapping effect in ambipolar conducting polymer with vertically standing graphene as the composite electrode for high performance supercapacitor. *Energy Storage Materials*, **2020**, 29, 281-286	19.4	11
20	Simultaneous enhancement of the carrier mobility and luminous efficiency through thermal annealing a molecular glass material and device. *Journal of Materials Chemistry*, **2012**, 22, 21502		11
19	Controllable optical, electrical, and morphologic properties of 3,4-ethylenedioxythiophene based electrocopolymerization films. *Macromolecular Rapid Communications*, **2011**, 32, 1014-9	4.8	11
18	Hybridization of Emerging Crystalline Porous Materials: Synthesis Dimensionality and Electrochemical Energy Storage Application. *Advanced Energy Materials*,2100321	21.8	11
17	Lamellar Organic Light-Emitting Crystals Exhibiting Spectral Gain and 3.6% External Quantum Efficiency in Transistors **2021**, 3, 428-432		9
16	In situ synthesis of electroactive conjugated microporous fullerene films capable of supercapacitive energy storage. *Chemical Communications*, **2017**, 53, 9602-9605	5.8	7
15	Design of Photothermal Covalent Organic Frameworks by Radical Immobilization. *CCS Chemistry*,1-28	7.2	6
14	Electrocleavage Synthesis of Solution-Processed, Imine-Linked, and Crystalline Covalent Organic Framework Thin Films.. *Journal of the American Chemical Society*, **2022**,	16.4	6
13	Mixed bipolar fluorescent small molecules for solution processable white light-emitting devices with excellent efficiency roll-off. *Journal of Materials Chemistry C*, **2013**, 1, 7175	7.1	5
12	Characterization of complicated electropolymerization using UV□is spectroelectrochemistry and an electrochemical quartz-crystal microbalance with dissipation: A case study of tricarbazole derivatives. *Electrochemistry Communications*, **2021**, 123, 106913	5.1	5
11	Accurately Stoichiometric Regulating Oxidation States in Hole Transporting Material to Enhance the Hole Mobility of Perovskite Solar Cells. *Solar Rrl*, **2020**, 4, 2000127	7.1	4
10	Construction of unimpeded proton-conducting pathways in solution-processed nanoporous polymer membranes. *Materials Horizons*, **2021**, 8, 3088-3095	14.4	4
9	Dihydrophenazine linked porous organic polymers for high capacitance and energy density pseudocapacitive electrodes and devices. *Journal of Materials Chemistry A*, **2021**, 9, 4984-4989	13	4
8	Design of Persistent and Stable Porous Radical Polymers by Electronic Isolation Strategy. *Angewandte Chemie - International Edition*, **2021**, 60, 24424-24429	16.4	4
7	Electrochemical Deposition of a Single-Crystalline Nanorod Polycyclic Aromatic Hydrocarbon Film with Efficient Charge and Exciton Transport.. *Angewandte Chemie - International Edition*, **2021**,	16.4	3
6	Triazine and Porphyrin-Based Cross-Linked Conjugated Polymers: Protonation-Assisted Dissolution and Thermoelectric Properties. *CCS Chemistry*,2688-2695	7.2	3
5	Organic single crystals of cyano-substituted -phenylene vinylene derivatives as transistors with low surface trap density. *Chemical Communications*, **2020**, 56, 13776-13779	5.8	3
4	Highly efficient photocatalytic hydrogen evolution based on conjugated molecular micro/nano-crystalline sheets. *Journal of Materials Chemistry A*, **2021**, 9, 2120-2125	13	3

3	Decorating Covalent Organic Frameworks with High-density Chelate Groups for Uranium Extraction. *Chemical Research in Chinese Universities*,1	2.2	1
2	Highly sensitive detecting system to precisely evaluate the emission spectra and quantum efficiency of organic crystal light-emitting transistors. *Optics Letters*, **2021**, 46, 3296-3299	3	0
1	Design of Persistent and Stable Porous Radical Polymers by Electronic Isolation Strategy. *Angewandte Chemie*, **2021**, 133, 24629	3.6	0