

Cheng Gu

List of Publications by Year in descending order

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74
papers

4,892
citations

109137

35
h-index

95083

68
g-index

77
all docs

77
docs citations

77
times ranked

5151
citing authors

#	ARTICLE	IF	CITATIONS
1	Achieving a Significantly Increased Efficiency in Nondoped Pure Blue Fluorescent OLED: A Quasi-Equivalent Hybridized Excited State. <i>Advanced Functional Materials</i> , 2015, 25, 1755-1762.	7.8	381
2	Radical Covalent Organic Frameworks: A General Strategy to Immobilize Open-Accessible Polyradicals for High-Performance Capacitive Energy Storage. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 6814-6818.	7.2	342
3	Design and control of gas diffusion process in a nanoporous soft crystal. <i>Science</i> , 2019, 363, 387-391.	6.0	332
4	Controlled Synthesis of Conjugated Microporous Polymer Films: Versatile Platforms for Highly Sensitive and Label-Free Chemo- and Biosensing. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 4850-4855.	7.2	258
5	High Yields of Singlet Excitons in Organic Electroluminescence through Two Paths of Cold and Hot Excitons. <i>Advanced Optical Materials</i> , 2014, 2, 510-515.	3.6	216
6	Electrochemical Route to Fabricate Film-Like Conjugated Microporous Polymers and Application for Organic Electronics. <i>Advanced Materials</i> , 2013, 25, 3443-3448.	11.1	212
7	Conjugated Microporous Polymer Films: Designed Synthesis, Conducting Properties, and Photoenergy Conversions. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 13594-13598.	7.2	182
8	A Molecular Glass for Deep-Blue Organic Light-Emitting Diodes Comprising a 9,9'-Spirobifluorene Core and Peripheral Carbazole Groups. <i>Advanced Functional Materials</i> , 2007, 17, 2869-2877.	7.8	179
9	A highly soluble, crystalline covalent organic framework compatible with device implementation. <i>Chemical Science</i> , 2019, 10, 1023-1028.	3.7	173
10	Design of Highly Photofunctional Porous Polymer Films with Controlled Thickness and Prominent Microporosity. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 11540-11544.	7.2	140
11	Electropolymerized Conjugated Microporous Poly(zinc-porphyrin) Films as Potential Electrode Materials in Supercapacitors. <i>Advanced Energy Materials</i> , 2015, 5, 1402175.	10.2	128
12	Porous Organic Polymer Films with Tunable Work Functions and Selective Hole and Electron Flows for Energy Conversions. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 3049-3053.	7.2	121
13	Achieving High Efficiency of PTB7-Based Polymer Solar Cells via Integrated Optimization of Both Anode and Cathode Interlayers. <i>Advanced Energy Materials</i> , 2014, 4, 1301771.	10.2	102
14	Luminescent Porous Polymers Based on Aggregation-Induced Mechanism: Design, Synthesis and Functions. <i>Small</i> , 2016, 12, 6513-6527.	5.2	96
15	The Origin of the Improved Efficiency and Stability of Triphenylamine-Substituted Anthracene Derivatives for OLEDs: A Theoretical Investigation. <i>ChemPhysChem</i> , 2008, 9, 2601-2609.	1.0	93
16	Crystalline and Stable Benzofuran-Linked Covalent Organic Frameworks from Irreversible Cascade Reactions. <i>Journal of the American Chemical Society</i> , 2020, 142, 13316-13321.	6.6	85
17	Color-Stable White Electroluminescence Based on a Cross-Linked Network Film Prepared by Electrochemical Copolymerization. <i>Advanced Materials</i> , 2010, 22, 2702-2705.	11.1	78
18	Study of \hat{I}^2 phase and Chains Aggregation Degrees in Poly(9,9-dioctylfluorene) (PFO) Solution. <i>Journal of Physical Chemistry C</i> , 2012, 116, 7993-7999.	1.5	75

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19	Mechanochromic and thermochromic fluorescent properties of Cyanostilbene derivatives. <i>Dyes and Pigments</i> , 2013, 98, 486-492.	2.0	74
20	Multilayer Polymer Stacking by In Situ Electrochemical Polymerization for Color-Stable White Electroluminescence. <i>Advanced Materials</i> , 2011, 23, 527-530.	11.1	68
21	Highly-efficient solution-processed OLEDs based on new bipolar emitters. <i>Chemical Communications</i> , 2010, 46, 3923.	2.2	67
22	In Situ Electrochemical Deposition and Doping of C ₆₀ Films Applied to High-Performance Inverted Organic Photovoltaics. <i>Advanced Materials</i> , 2012, 24, 5727-5731.	11.1	67
23	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. <i>Advanced Optical Materials</i> , 2017, 5, 1700747.	3.6	65
24	Large Titanium-Oxo Clusters as Precursors to Synthesize the Single Crystals of Ti-MOFs. , 2021, 3, 64-68.		62
25	Cross-Linked Multifunctional Conjugated Polymers Prepared by In Situ Electrochemical Deposition for a Highly-Efficient Blue-Emitting and Electron-Transport Layer. <i>Advanced Materials</i> , 2012, 24, 2413-2417.	11.1	57
26	Electrocleavage Synthesis of Solution-Processed, Imine-Linked, and Crystalline Covalent Organic Framework Thin Films. <i>Journal of the American Chemical Society</i> , 2022, 144, 8961-8968.	6.6	48
27	Aromatic S-Heterocycle and Fluorene Derivatives as Solution-Processed Blue Fluorescent Emitters: Structure-Property Relationships for Different Sulfur Oxidation States. <i>Journal of Physical Chemistry C</i> , 2013, 117, 14189-14196.	1.5	47
28	A solution-processable deep red molecular emitter for non-doped organic red-light-emitting diodes. <i>Dyes and Pigments</i> , 2011, 91, 356-363.	2.0	44
29	Hybridization of Emerging Crystalline Porous Materials: Synthesis Dimensionality and Electrochemical Energy Storage Application. <i>Advanced Energy Materials</i> , 2022, 12, 2100321.	10.2	41
30	Hypercrosslinked Polymer Gels as a Synthetic Hybridization Platform for Designing Versatile Molecular Separators. <i>Journal of the American Chemical Society</i> , 2022, 144, 6861-6870.	6.6	40
31	Highly Efficient and Fully Solution-Processed White Electroluminescence Based on Fluorescent Small Molecules and a Polar Conjugated Polymer as the Electron-Injection Material. <i>Advanced Functional Materials</i> , 2012, 22, 1092-1097.	7.8	39
32	Electropolymerization of Molecular-Sieving Polythiophene Membranes for H ₂ Separation. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 8768-8772.	7.2	39
33	A new kind of peripheral carbazole substituted ruthenium(II) complexes for electrochemical deposition organic light-emitting diodes. <i>Journal of Materials Chemistry</i> , 2009, 19, 3941.	6.7	38
34	Cascade exciton-pumping engines with manipulated speed and efficiency in light-harvesting porous π -network films. <i>Scientific Reports</i> , 2015, 5, 8867.	1.6	37
35	Efficient Organic Light-Emitting Transistors Based on High-Quality Ambipolar Single Crystals. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 43976-43983.	4.0	36
36	High performance, flexible, poly(3,4-ethylenedioxythiophene) supercapacitors achieved by doping redox mediators in organogel electrolytes. <i>Journal of Power Sources</i> , 2016, 332, 413-419.	4.0	35

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37	Synthesis and Electrochemical Properties of Peripheral Carbazole Functional Ter(9,9-spirobifluorene)s. <i>Journal of Organic Chemistry</i> , 2008, 73, 4212-4218.	1.7	33
38	Electrochemical polymerization films for highly efficient electroluminescent devices and RGB color pixel. <i>Electrochemistry Communications</i> , 2010, 12, 553-556.	2.3	33
39	Almost completely dedoped electrochemically deposited luminescent films exhibiting excellent LED performance. <i>Electrochimica Acta</i> , 2009, 54, 7006-7011.	2.6	32
40	Electroactive Self-Assembled Monolayers for Enhanced Efficiency and Stability of Electropolymerized Luminescent Films and Devices. <i>Advanced Functional Materials</i> , 2011, 21, 2896-2900.	7.8	30
41	Electrochemical polymerization: an emerging approach for fabricating high-quality luminescent films and super-resolution OLEDs. <i>Journal of Materials Chemistry C</i> , 2020, 8, 5310-5320.	2.7	30
42	Electrochemical Synthesis, Deposition, and Doping of Polycyclic Aromatic Hydrocarbon Films. <i>Journal of the American Chemical Society</i> , 2021, 143, 2682-2687.	6.6	30
43	Thiophene Disubstituted Benzothiadiazole Derivatives: An Effective Planarization Strategy Toward Deep-Red to Near-Infrared (NIR) Organic Light-Emitting Diodes. <i>Frontiers in Chemistry</i> , 2019, 7, 276.	1.8	29
44	Fully solution-processed and multilayer blue organic light-emitting diodes based on efficient small molecule emissive layer and intergrated interlayer optimization. <i>Organic Electronics</i> , 2015, 27, 35-40.	1.4	25
45	Porous Organic Polymer Films with Tunable Work Functions and Selective Hole and Electron Flows for Energy Conversions. <i>Angewandte Chemie</i> , 2016, 128, 3101-3105.	1.6	25
46	Design of Photothermal Covalent Organic Frameworks by Radical Immobilization. <i>CCS Chemistry</i> , 2022, 4, 2842-2853.	4.6	25
47	Phenothiazine-based covalent organic frameworks with low exciton binding energies for photocatalysis. <i>Chemical Science</i> , 2022, 13, 8679-8685.	3.7	25
48	A triphenylamine-capped solution-processable wholly aromatic organic molecule with electrochemical stability and its potential application in photovoltaic devices. <i>New Journal of Chemistry</i> , 2013, 37, 2440.	1.4	23
49	Suppressing charge trapping effect in ambipolar conducting polymer with vertically standing graphene as the composite electrode for high performance supercapacitor. <i>Energy Storage Materials</i> , 2020, 29, 281-286.	9.5	23
50	Electrochemical Synthesis of Transparent, Amorphous, C ₆₀ -Rich, Photoactive, and Low-Doped Film with an Interconnected Structure. <i>Small</i> , 2013, 9, 2064-2068.	5.2	21
51	Electropolymerization of Molecular-Sieving Polythiophene Membranes for H ₂ Separation. <i>Angewandte Chemie</i> , 2019, 131, 8860-8864.	1.6	20
52	Lamellar Organic Light-Emitting Crystals Exhibiting Spectral Gain and 3.6% External Quantum Efficiency in Transistors. , 2021, 3, 428-432.		20
53	Insight into the Efficiency and Stability of All-Polymer Solar Cells Based on Two 2D-Conjugated Polymer Donors: Achieving High Fill Factor of 78%. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 43433-43440.	4.0	19
54	Chemistry and materials based on 5,5'-bibenzo[c][1,2,5]thiadiazole. <i>Chemical Communications</i> , 2013, 49, 5730.	2.2	18

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55	Design of Persistent and Stable Porous Radical Polymers by Electronic Isolation Strategy. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 24424-24429.	7.2	18
56	Functionality of peripheral side chain for enhanced performance of conjugated polymer—F8BT as an example. <i>Journal of Polymer Science Part A</i> , 2011, 49, 4549-4555.	2.5	16
57	Cross-linked luminescent films via electropolymerization of multifunctional precursors for highly efficient electroluminescence. <i>Polymer Chemistry</i> , 2013, 4, 2090.	1.9	16
58	Electrochemical Deposition of a Single-Crystalline Nanorod Polycyclic Aromatic Hydrocarbon Film with Efficient Charge and Exciton Transport. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	14
59	Simultaneous enhancement of the carrier mobility and luminous efficiency through thermal annealing a molecular glass material and device. <i>Journal of Materials Chemistry</i> , 2012, 22, 21502.	6.7	13
60	Synthesis and characterization of new polyfluorene derivatives: using phenanthro[9,10-d]imidazole group as a building block for deep blue light-emitting polymer. <i>Polymer Bulletin</i> , 2012, 69, 273-289.	1.7	13
61	Dihydrophenazine linked porous organic polymers for high capacitance and energy density pseudocapacitive electrodes and devices. <i>Journal of Materials Chemistry A</i> , 2021, 9, 4984-4989.	5.2	13
62	Controllable Optical, Electrical, and Morphologic Properties of 3,4-Ethylenedioxythiophene Based Electropolymerization Films. <i>Macromolecular Rapid Communications</i> , 2011, 32, 1014-1019.	2.0	12
63	Decorating Covalent Organic Frameworks with High-density Chelate Groups for Uranium Extraction. <i>Chemical Research in Chinese Universities</i> , 2022, 38, 433-439.	1.3	12
64	In situ synthesis of electroactive conjugated microporous fullerene films capable of supercapacitive energy storage. <i>Chemical Communications</i> , 2017, 53, 9602-9605.	2.2	10
65	Construction of unimpeded proton-conducting pathways in solution-processed nanoporous polymer membranes. <i>Materials Horizons</i> , 2021, 8, 3088-3095.	6.4	9
66	Characterization of complicated electropolymerization using UV-vis spectroelectrochemistry and an electrochemical quartz-crystal microbalance with dissipation: A case study of tricarbazole derivatives. <i>Electrochemistry Communications</i> , 2021, 123, 106913.	2.3	9
67	Organic single crystals of cyano-substituted p-phenylene vinylene derivatives as transistors with low surface trap density. <i>Chemical Communications</i> , 2020, 56, 13776-13779.	2.2	8
68	Highly efficient photocatalytic hydrogen evolution based on conjugated molecular micro/nano-crystalline sheets. <i>Journal of Materials Chemistry A</i> , 2021, 9, 2120-2125.	5.2	8
69	Design of Persistent and Stable Porous Radical Polymers by Electronical Isolation Strategy. <i>Angewandte Chemie</i> , 2021, 133, 24629.	1.6	8
70	Mixed bipolar fluorescent small molecules for solution processable white light-emitting devices with excellent efficiency roll-off. <i>Journal of Materials Chemistry C</i> , 2013, 1, 7175.	2.7	5
71	Accurately Stoichiometric Regulating Oxidation States in Hole Transporting Material to Enhance the Hole Mobility of Perovskite Solar Cells. <i>Solar Rrl</i> , 2020, 4, 2000127.	3.1	5
72	Triazine and Porphyrin-Based Cross-Linked Conjugated Polymers: Protonation-Assisted Dissolution and Thermoelectric Properties. <i>CCS Chemistry</i> , 0, , 2688-2695.	4.6	5

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73	Electrochemical Deposition of a Single-Crystalline Nanorod Polycyclic Aromatic Hydrocarbon Film with Efficient Charge and Exciton Transport. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	3
74	A highly sensitive detecting system to precisely evaluate emission spectra and quantum efficiency of organic crystal light-emitting transistors. <i>Optics Letters</i> , 2021, 46, 3296-3299.	1.7	1