Huanli Dong

List of Publications by Citations

290	15,380	58	116
papers	citations	h-index	g-index
301	17,881	12	6.96
ext. papers	ext. citations	avg, IF	L-index

#	Paper	IF	Citations
290	Semiconducting π-conjugated systems in field-effect transistors: a material odyssey of organic electronics. *Chemical Reviews*, **2012**, 112, 2208-67	68.1	2738
289	25th anniversary article: key points for high-mobility organic field-effect transistors. *Advanced Materials*, **2013**, 25, 6158-83	24	598
288	Sulfonated graphene for persistent aromatic pollutant management. *Advanced Materials*, **2011**, 23, 3959-63	24	598
287	Organic photoresponse materials and devices. *Chemical Society Reviews*, **2012**, 41, 1754-808	58.5	493
286	Organic semiconductor crystals. *Chemical Society Reviews*, **2018**, 47, 422-500	58.5	429
285	High mobility emissive organic semiconductor. *Nature Communications*, **2015**, 6, 10032	17.4	303
284	High performance organic semiconductors for field-effect transistors. *Chemical Communications*, **2010**, 46, 5211-22	5.8	285
283	Spherical α-Ni(OH)2 nanoarchitecture grown on graphene as advanced electrochemical pseudocapacitor materials. *Chemical Communications*, **2012**, 48, 2773-5	5.8	213
282	Organic Semiconductor Single Crystals for Electronics and Photonics. *Advanced Materials*, **2018**, 30, e1801048	24	211
281	Organic crystalline materials in flexible electronics. *Chemical Society Reviews*, **2019**, 48, 1492-1530	58.5	202
280	2D Organic Materials for Optoelectronic Applications. *Advanced Materials*, **2018**, 30, 1702415	24	201
279	Rational Design of Charge-Transfer Interactions in Halogen-Bonded Co-crystals toward Versatile Solid-State Optoelectronics. *Journal of the American Chemical Society*, **2015**, 137, 11038-46	16.4	198
278	Short-Wave Near-Infrared Linear Dichroism of Two-Dimensional Germanium Selenide. *Journal of the American Chemical Society*, **2017**, 139, 14976-14982	16.4	191
277	High mobility, air stable, organic single crystal transistors of an n-type diperylene bisimide. *Advanced Materials*, **2012**, 24, 2626-30	24	187
276	Organic single-crystalline p-n junction nanoribbons. *Journal of the American Chemical Society*, **2010**, 132, 11580-4	16.4	181
275	Synthesizing MnO2 nanosheets from graphene oxide templates for high performance pseudosupercapacitors. *Chemical Science*, **2012**, 3, 433-437	9.4	177
274	Millimeter-sized molecular monolayer two-dimensional crystals. *Advanced Materials*, **2011**, 23, 2059-63	24	171

273	Revealing the charge-transfer interactions in self-assembled organic cocrystals: two-dimensional photonic applications. *Angewandte Chemie - International Edition*, **2015**, 54, 6785-9	16.4	169
272	Charge Transport in Organic and Polymeric Semiconductors for Flexible and Stretchable Devices. *Advanced Materials*, **2016**, 28, 4513-23	24	147
271	Cocrystals Strategy towards Materials for Near-Infrared Photothermal Conversion and Imaging. *Angewandte Chemie - International Edition*, **2018**, 57, 3963-3967	16.4	143
270	High performance n-type and ambipolar small organic semiconductors for organic thin film transistors. *Physical Chemistry Chemical Physics*, **2014**, 16, 22448-57	3.6	143
269	Organic single crystal field-effect transistors: advances and perspectives. *Journal of Materials Chemistry*, **2010**, 20, 4994		141
268	A General Method for Growing Two-Dimensional Crystals of Organic Semiconductors by "Solution Epitaxy". *Angewandte Chemie - International Edition*, **2016**, 55, 9519-23	16.4	125
267	Aromatic Extension at 2,6-Positions of Anthracene toward an Elegant Strategy for Organic Semiconductors with Efficient Charge Transport and Strong Solid State Emission. *Journal of the American Chemical Society*, **2017**, 139, 17261-17264	16.4	124
266	Nanowire crystals of a rigid rod conjugated polymer. *Journal of the American Chemical Society*, **2009** , 131, 17315-20	16.4	123
265	N-Type 2D Organic Single Crystals for High-Performance Organic Field-Effect Transistors and Near-Infrared Phototransistors. *Advanced Materials*, **2018**, 30, e1706260	24	119
264	Halogenated Tetraazapentacenes with Electron Mobility as High as 27.8 cm V s in Solution-Processed n-Channel Organic Thin-Film Transistors. *Advanced Materials*, **2018**, 30, e1803467	24	110
263	Effective and Selective Catalysts for Cinnamaldehyde Hydrogenation: Hydrophobic Hybrids of Metal-Organic Frameworks, Metal Nanoparticles, and Micro- and Mesoporous Polymers. *Angewandte Chemie - International Edition*, **2018**, 57, 5708-5713	16.4	108
262	Band-like transport in small-molecule thin films toward high mobility and ultrahigh detectivity phototransistor arrays. *Nature Communications*, **2019**, 10, 12	17.4	107
261	Intermolecular Charge-Transfer Interactions Facilitate Two-Photon Absorption in Styrylpyridine-Tetracyanobenzene Cocrystals. *Angewandte Chemie - International Edition*, **2017**, 56, 7831-7835	16.4	102
260	Spiro-OMeTAD single crystals: Remarkably enhanced charge-carrier transport via mesoscale ordering. *Science Advances*, **2016**, 2, e1501491	14.3	96
259	Morphology control for high performance organic thin film transistors. *Chemical Science*, **2011**, 2, 590-600	9.4	93
258	Ordering of conjugated polymer molecules: recent advances and perspectives. *Polymer Chemistry*, **2013**, 4, 5197	4.9	90
257	Tuning the crystal polymorphs of alkyl thienoacene via solution self-assembly toward air-stable and high-performance organic field-effect transistors. *Advanced Materials*, **2015**, 27, 825-30	24	88
256	Deepening Insights of Charge Transfer and Photophysics in a Novel Donor-Acceptor Cocrystal for Waveguide Couplers and Photonic Logic Computation. *Advanced Materials*, **2016**, 28, 5954-62	24	86

255	Aqueous Solution Processed Photoconductive Cathode Interlayer for High Performance Polymer Solar Cells with Thick Interlayer and Thick Active Layer. *Advanced Materials*, **2016**, 28, 7521-6	24	86
254	Porphyrin Supramolecular 1D Structures via Surfactant-Assisted Self-Assembly. *Advanced Materials*, **2015**, 27, 5379-87	24	85
253	Approaching Intra- and Interchain Charge Transport of Conjugated Polymers Facilely by Topochemical Polymerized Single Crystals. *Advanced Materials*, **2017**, 29, 1701251	24	84
252	Uncovering the Intramolecular Emission and Tuning the Nonlinear Optical Properties of Organic Materials by Cocrystallization. *Angewandte Chemie - International Edition*, **2016**, 55, 14023-14027	16.4	82
251	High-Performance All-Polymer Photoresponse Devices Based on Acceptor–Acceptor Conjugated Polymers. *Advanced Functional Materials*, **2016**, 26, 6306-6315	15.6	79
250	Interface engineering for high-performance organic field-effect transistors. *Physical Chemistry Chemical Physics*, **2012**, 14, 14165-80	3.6	79
249	Thin film field-effect transistors of 2,6-diphenyl anthracene (DPA). *Chemical Communications*, **2015**, 51, 11777-9	5.8	78
248	Channel-restricted meniscus self-assembly for uniformly aligned growth of single-crystal arrays of organic semiconductors. *Materials Today*, **2019**, 24, 17-25	21.8	75
247	Quinoline-Flanked Diketopyrrolopyrrole Copolymers Breaking through Electron Mobility over 6 cm V s in Flexible Thin Film Devices. *Advanced Materials*, **2018**, 30, 1704843	24	73
246	Organic Field-Effect Transistor for Energy-Related Applications: Low-Power-Consumption Devices, Near-Infrared Phototransistors, and Organic Thermoelectric Devices. *Advanced Energy Materials*, **2018**, 8, 1801003	21.8	73
245	Fine-tuned nanostructures assembled from L-lysine-functionalized perylene bisimides. *Langmuir*, **2011**, 27, 11364-71	4	73
244	Mica, a potential two-dimensional-crystal gate insulator for organic field-effect transistors. *Advanced Materials*, **2011**, 23, 5502-7	24	73
243	High-Efficiency Single-Component Organic Light-Emitting Transistors. *Advanced Materials*, **2019**, 31, e1902175	24	72
242	Phototransistors of a Rigid Rod Conjugated Polymer. *Journal of Physical Chemistry C*, **2008**, 112, 19690-19693	3.6	72
241	Crystal Engineering of Organic Optoelectronic Materials. *CheM*, **2019**, 5, 2814-2853	16.2	71
240	Dibenzothiophene Derivatives: From Herringbone to Lamellar Packing Motif. *Crystal Growth and Design*, **2010**, 10, 4155-4160	3.5	69
239	Mesopolymer synthesis by ligand-modulated direct arylation polycondensation towards n-type and ambipolar conjugated systems. *Nature Chemistry*, **2019**, 11, 271-277	17.6	67
238	Recent advances in polymer phototransistors. *Polymer Chemistry*, **2015**, 6, 7933-7944	4.9	63

237	Solvatomechanical Bending of Organic Charge Transfer Cocrystal. *Journal of the American Chemical Society*, **2018**, 140, 6186-6189	16.4	63
236	Highly transparent, strong, and flexible fluorographene/fluorinated polyimide nanocomposite films with low dielectric constant. *Journal of Materials Chemistry C*, **2018**, 6, 6378-6384	7.1	62
235	Solution-Processed Large-Area Nanocrystal Arrays of Metal-Organic Frameworks as Wearable, Ultrasensitive, Electronic Skin for Health Monitoring. *Small*, **2015**, 11, 3351-6	11	61
234	Recent progress of high performance organic thin film field-effect transistors. *Journal of Materials Chemistry*, **2011**, 21, 11708		61
233	High Performance Nanocrystals of a Donor−Acceptor Conjugated Polymer. *Chemistry of Materials*, **2013**, 25, 2649-2655	9.6	59
232	Surface Polarity and Self-Structured Nanogrooves Collaboratively Oriented Molecular Packing for High Crystallinity toward Efficient Charge Transport. *Journal of the American Chemical Society*, **2017**, 139, 2734-2740	16.4	57
231	Synthesis of a Conjugated Polymer with Broad Absorption and Its Application in High-Performance Phototransistors. *Macromolecules*, **2012**, 45, 1296-1302	5.5	57
230	Graphene and graphene oxide nanogap electrodes fabricated by atomic force microscopy nanolithography. *Applied Physics Letters*, **2010**, 97, 133301	3.4	57
229	Multilevel Investigation of Charge Transport in Conjugated Polymers. *Accounts of Chemical Research*, **2016**, 49, 2435-2443	24.3	56
228	Gibbs-Curie-Wulff Theorem in Organic Materials: A Case Study on the Relationship between Surface Energy and Crystal Growth. *Advanced Materials*, **2016**, 28, 1697-702	24	55
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226	Large scale, flexible organic transistor arrays and circuits based on polyimide materials. *Organic Electronics*, **2013**, 14, 2528-2533	3.5	54
225	Organic field-effect optical waveguides. *Nature Communications*, **2018**, 9, 4790	17.4	54
224	Organic Laser Molecule with High Mobility, High Photoluminescence Quantum Yield, and Deep-Blue Lasing Characteristics. *Journal of the American Chemical Society*, **2020**, 142, 6332-6339	16.4	53
223	2D Mica Crystal as Electret in Organic Field-Effect Transistors for Multistate Memory. *Advanced Materials*, **2016**, 28, 3755-60	24	52
222	Copolymer dielectrics with balanced chain-packing density and surface polarity for high-performance flexible organic electronics. *Nature Communications*, **2018**, 9, 2339	17.4	52
221	Low-temperature, bottom-up synthesis of graphene via a radical-coupling reaction. *Journal of the American Chemical Society*, **2013**, 135, 9050-4	16.4	51
220	Substitution effect on molecular packing and transistor performance of indolo[3,2-b]carbazole derivatives. *Journal of Materials Chemistry*, **2012**, 22, 4409-4417		50

219	Aggregation-induced emission enhancement based on 11,11,12,12,-tetracyano-9,10-anthraquinodimethane. *Chemical Communications*, **2013**, 49, 1199-201	5.8	48
218	Molecular Crystal Engineering: Tuning Organic Semiconductor from p-type to n-type by Adjusting Their Substitutional Symmetry. *Advanced Materials*, **2017**, 29, 1605053	24	47
217	Co-crystal engineering: a novel method to obtain one-dimensional (1D) carbon nanocrystals of corannulene-fullerene by a solution process. *Nanoscale*, **2016**, 8, 14920-4	7.7	47
216	High-performance organic nanoscale photoswitches based on nanogap electrodes coated with a blend of poly(3-hexylthiophene) and [6,6]-phenyl-C61-butyric acid methyl ester (P3HT:PCBM). *Advanced Materials*, **2010**, 22, 1645-8	24	47
215	Ordering rigid rod conjugated polymer molecules for high performance photoswitchers. *Langmuir*, **2008**, 24, 13241-4	4	47
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213	Large-Size 2D □Cu S Nanosheets with Giant Phase Transition Temperature Lowering (120 K) Synthesized by a Novel Method of Super-Cooling Chemical-Vapor-Deposition. *Advanced Materials*, **2016**, 28, 8271-8276	24	46
212	Two-Dimensional High-Quality Monolayered Triangular WS Flakes for Field-Effect Transistors. *ACS Applied Materials & Interfaces*, **2018**, 10, 22435-22444	9.5	46
211	Controlled growth and assembly of one-dimensional ordered nanostructures of organic functional materials. *Soft Matter*, **2011**, 7, 1615-1630	3.6	45
210	Two-dimensional Cr2O3 and interconnected graphene□Cr2O3 nanosheets: synthesis and their application in lithium storage. *Journal of Materials Chemistry A*, **2014**, 2, 944-948	13	44
209	Ambipolar Conjugated Polymers with Ultrahigh Balanced Hole and Electron Mobility for Printed Organic Complementary Logic via a Two-Step C?H Activation Strategy. *Advanced Materials*, **2019**, 31, e1806010	24	43
208	Quadruply B<-N-Fused Dibenzo-azaacene with High Electron Affinity and High Electron Mobility. *Journal of the American Chemical Society*, **2019**, 141, 17015-17021	16.4	41
207	5-Alkyloxy-6-fluorobenzo[c][1,2,5]thiadiazole- and Silafluorene-Based D□A Alternating Conjugated Polymers: Synthesis and Application in Polymer Photovoltaic Cells. *Macromolecules*, **2014**, 47, 4645-4652	5.5	41
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204	Organic UV-Sensitive Phototransistors Based on Distriphenylamineethynylpyrene Derivatives with Ultra-High Detectivity Approaching 10. *Advanced Materials*, **2020**, 32, e1907791	24	39
203	Nanogap Electrodes towards Solid State Single-Molecule Transistors. *Small*, **2015**, 11, 6115-41	11	39
202	Asymmetric thiophene/pyridine flanked diketopyrrolopyrrole polymers for high performance polymer ambipolar field-effect transistors and solar cells. *Journal of Materials Chemistry C*, **2017**, 5, 566-572	7.1	38

201	The Impact of Interlayer Electronic Coupling on Charge Transport in Organic Semiconductors: A Case Study on Titanylphthalocyanine Single Crystals. *Angewandte Chemie - International Edition*, **2016**, 55, 5206-9	16.4	38
200	Revealing the Charge-Transfer Interactions in Self-Assembled Organic Cocrystals: Two-Dimensional Photonic Applications. *Angewandte Chemie*, **2015**, 127, 6889-6893	3.6	38
199	Vertical Organic Field-Effect Transistors. *Advanced Functional Materials*, **2019**, 29, 1808453	15.6	38
198	Role of redox centre in charge transport investigated by novel self-assembled conjugated polymer molecular junctions. *Nature Communications*, **2015**, 6, 7478	17.4	37
197	Organic Cocrystals: New Strategy for Molecular Collaborative Innovation. *Topics in Current Chemistry*, **2016**, 374, 83	7.2	37
196	Recent advances in one-dimensional organic p□ heterojunctions for optoelectronic device applications. *Journal of Materials Chemistry C*, **2016**, 4, 9388-9398	7.1	37
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194	Rational Control of Charge Transfer Excitons Toward High-Contrast Reversible Mechanoresponsive Luminescent Switching. *Angewandte Chemie - International Edition*, **2020**, 59, 17580-17586	16.4	36
193	High performance n-type single crystalline transistors of naphthalene bis(dicarboximide) and their anisotropic transport in crystals. *Chemical Communications*, **2012**, 48, 5154-6	5.8	36
192	Two-Dimensional Conjugated Polymer Synthesized by Interfacial Suzuki Reaction: Towards Electronic Device Applications. *Angewandte Chemie - International Edition*, **2020**, 59, 9403-9407	16.4	35
191	Single crystal ribbons and transistors of a solution processed sickle-like fused-ring thienoacene. *Journal of Materials Chemistry*, **2010**, 20, 6014		35
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189	Organic Ferroelectric-Based 1T1T Random Access Memory Cell Employing a Common Dielectric Layer Overcoming the Half-Selection Problem. *Advanced Materials*, **2017**, 29, 1701907	24	34
188	Organic-Single-Crystal Vertical Field-Effect Transistors and Phototransistors. *Advanced Materials*, **2018**, 30, e1803655	24	34
187	Molecular orientation and field-effect transistors of a rigid rod conjugated polymer thin films. *Journal of Physical Chemistry B*, **2009**, 113, 4176-80	3.4	33
186	Organic Light-Emitting Transistors Entering a New Development Stage. *Advanced Materials*, **2021**, 33, e2007149	24	33
185	Novel Air Stable Organic Radical Semiconductor of Dimers of Dithienothiophene, Single Crystals, and Field-Effect Transistors. *Advanced Materials*, **2016**, 28, 7466-71	24	33
184	A cross-dipole stacking molecule of an anthracene derivative: integrating optical and electrical properties. *Journal of Materials Chemistry C*, **2015**, 3, 3068-3071	7.1	32

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181	Quick Fabrication of Large-area Organic Semiconductor Single Crystal Arrays with a Rapid Annealing Self-Solution-Shearing Method. *Scientific Reports*, **2015**, 5, 13195	4.9	31
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178	Conjugated polymers with 2,7-linked 3,6-difluorocarbazole as donor unit for high efficiency polymer solar cells. *Polymer Chemistry*, **2013**, 4, 2773	4.9	30
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174	Electrochemical polymerization for two-dimensional conjugated polymers. *Journal of Materials Chemistry C*, **2018**, 6, 10672-10686	7.1	29
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171	Intermolecular Charge-Transfer Interactions Facilitate Two-Photon Absorption in Styrylpyridine Tetracyanobenzene Cocrystals. *Angewandte Chemie*, **2017**, 129, 7939-7943	3.6	27
170	Effective and Selective Catalysts for Cinnamaldehyde Hydrogenation: Hydrophobic Hybrids of Metal Organic Frameworks, Metal Nanoparticles, and Micro- and Mesoporous Polymers. *Angewandte Chemie*, **2018**, 130, 5810-5815	3.6	27
169	Challenges of organic ocrystals *Science China Materials*, **2015**, 58, 854-859	7.1	27
168	Controlled self-assembly and photovoltaic characteristics of porphyrin derivatives on a silicon surface at solid-liquid interfaces. *Soft Matter*, **2014**, 10, 2612-8	3.6	26
167	5,6-Difluorobenzothiadiazole and silafluorene based conjugated polymers for organic photovoltaic cells. *Journal of Materials Chemistry C*, **2014**, 2, 5116-5123	7.1	26
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160	Large-area single-crystalline nanocone arrays of an organic charge-transfer complex: controlling growth, characterization, and applications. *Small*, **2011**, 7, 1412-5	11	25
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144	A General Method for Growing Two-Dimensional Crystals of Organic Semiconductors by Solution Epitaxy *Angewandte Chemie*, **2016**, 128, 9671-9675	3.6	22
143	Epitaxially-crystallized oriented naphthalene bis(dicarboximide) morphology for significant performance improvement of electron-transporting thin-film transistors. *Chemical Communications*, **2016**, 52, 4902-5	5.8	21
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138	A novel method for photolithographic polymer shadow masking: toward high-resolution high-performance top-contact organic field effect transistors. *Chemical Communications*, **2014**, 50, 8328-30	5.8	20
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132	Solution-Processed Flexible Organic Ferroelectric Phototransistor. *ACS Applied Materials & Interfaces*, **2017**, 9, 43880-43885	9.5	19
131	High-efficiency large-bandgap material for polymer solar cells. *Macromolecular Rapid Communications*, **2015**, 36, 84-9	4.8	18
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