

Rongjin Li

List of Publications by Year in descending order

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papers

5,871
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109321

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79
all docs

79
docs citations

79
times ranked

9018
citing authors

#	ARTICLE	IF	CITATIONS
1	Exfoliation of Graphite into Graphene in Aqueous Solutions of Inorganic Salts. <i>Journal of the American Chemical Society</i> , 2014, 136, 6083-6091.	13.7	1,181
2	Electrochemically Exfoliated Graphene as Solution-Processable, Highly Conductive Electrodes for Organic Electronics. <i>ACS Nano</i> , 2013, 7, 3598-3606.	14.6	532
3	Graphene nanoribbon heterojunctions. <i>Nature Nanotechnology</i> , 2014, 9, 896-900.	31.5	528
4	Micro- and Nanocrystals of Organic Semiconductors. <i>Accounts of Chemical Research</i> , 2010, 43, 529-540.	15.6	370
5	2D Organic Materials for Optoelectronic Applications. <i>Advanced Materials</i> , 2018, 30, 1702415.	21.0	266
6	Transparent Conductive Electrodes from Graphene/PEDOT:PSS Hybrid Inks for Ultrathin Organic Photodetectors. <i>Advanced Materials</i> , 2015, 27, 669-675.	21.0	251
7	High-Performance Field-Effect Transistor Based on Dibenzothieno[3,2-b:4,5-b']dithiophene, an Easily Synthesized Semiconductor with High Ionization Potential. <i>Advanced Materials</i> , 2007, 19, 3008-3011.	21.0	178
8	Intermolecular Charge-Transfer Interactions Facilitate Two-Photon Absorption in Styrylpyridine-Tetracyanobenzene Cocrystals. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 7831-7835.	13.8	146
9	N-type 2D Organic Single Crystals for High-Performance Organic Field-Effect Transistors and Near-Infrared Phototransistors. <i>Advanced Materials</i> , 2018, 30, e1706260.	21.0	145
10	Electrochemical Functionalization of Graphene at the Nanoscale with Self-Assembling Diazonium Salts. <i>ACS Nano</i> , 2016, 10, 7125-7134.	14.6	132
11	Space-Confined Strategy toward Large-Area Two-Dimensional Single Crystals of Molecular Materials. <i>Journal of the American Chemical Society</i> , 2018, 140, 5339-5342.	13.7	132
12	Bioinspired Wafer-Scale Production of Highly Stretchable Carbon Films for Transparent Conductive Electrodes. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 5535-5538.	13.8	129
13	Micrometer-Sized Organic Single Crystals, Anisotropic Transport, and Field-Effect Transistors of a Fused-Ring Thienoacene. <i>Advanced Materials</i> , 2009, 21, 4492-4495.	21.0	106
14	Dicyanomethylene-Substituted Fused Tetrathienoquinoid for High-Performance, Ambient-Stable, Solution-Processable n-Channel Organic Thin-Film Transistors. <i>Chemistry of Materials</i> , 2011, 23, 3138-3140.	6.7	105
15	Cruciforms: Assembling Single Crystal Micro- and Nanostructures from One to Three Dimensions and Their Applications in Organic Field-Effect Transistors. <i>Chemistry of Materials</i> , 2009, 21, 2840-2845.	6.7	103
16	Gibbs-Curie-Wulff Theorem in Organic Materials: A Case Study on the Relationship between Surface Energy and Crystal Growth. <i>Advanced Materials</i> , 2016, 28, 1697-1702.	21.0	88
17	Metastable Copper-Phthalocyanine Single-Crystal Nanowires and Their Use in Fabricating High-Performance Field-Effect Transistors. <i>Advanced Functional Materials</i> , 2009, 19, 3776-3780.	14.9	81
18	Two-Dimensional High-Quality Monolayered Triangular WS ₂ Flakes for Field-Effect Transistors. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 22435-22444.	8.0	77

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19	Vertical organic nanocrystal arrays for crossbar memristors with tuning switching dynamics toward neuromorphic computing. <i>SmartMat</i> , 2021, 2, 99-108.	10.7	73
20	Molecular Crystal Engineering: Tuning Organic Semiconductor from p-type to n-type by Adjusting Their Substitutional Symmetry. <i>Advanced Materials</i> , 2017, 29, 1605053.	21.0	64
21	2D Mica Crystal as Electret in Organic Field-Effect Transistors for Multistate Memory. <i>Advanced Materials</i> , 2016, 28, 3755-3760.	21.0	62
22	Organic Single Crystal Field-Effect Transistors Based on 6 <i>H</i> -pyrrolo[3,2 <i>b</i> :4,5- <i>b'</i>]bis[1,4]benzothiazine and its Derivatives. <i>Advanced Materials</i> , 2010, 22, 2458-2462.	21.0	56
23	Dibenzothiophene derivatives as new prototype semiconductors for organic field-effect transistors. <i>Journal of Materials Chemistry</i> , 2007, 17, 1421.	6.7	55
24	Co-crystal engineering: a novel method to obtain one-dimensional (1D) carbon nanocrystals of corannulene fullerene by a solution process. <i>Nanoscale</i> , 2016, 8, 14920-14924.	5.6	55
25	Layer-Defining Strategy to Grow Two-Dimensional Molecular Crystals on a Liquid Surface down to the Monolayer Limit. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 16082-16086.	13.8	53
26	Solution-Processed, Large-Area, Two-Dimensional Crystals of Organic Semiconductors for Field-Effect Transistors and Phototransistors. <i>ACS Central Science</i> , 2020, 6, 636-652.	11.3	53
27	Organic Cocrystals: New Strategy for Molecular Collaborative Innovation. <i>Topics in Current Chemistry</i> , 2016, 374, 83.	5.8	52
28	Sonication-assisted liquid-phase exfoliated \pm -GeTe: a two-dimensional material with high Fe^{3+} sensitivity. <i>Nanoscale</i> , 2018, 10, 15989-15997.	5.6	48
29	Organic Ferroelectric-Based 1T1T Random Access Memory Cell Employing a Common Dielectric Layer Overcoming the Half-Selection Problem. <i>Advanced Materials</i> , 2017, 29, 1701907.	21.0	46
30	A π -Phase Separation Molecular Design Strategy Towards Large-Area 2D Molecular Crystals. <i>Advanced Materials</i> , 2019, 31, e1901437.	21.0	44
31	Isomeric Dibenzoheptazethrenes for Air-Stable Organic Field-Effect Transistors. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 16230-16236.	13.8	42
32	New type of organic semiconductors for field-effect transistors with carbon-carbon triple bonds. <i>Journal of Materials Chemistry</i> , 2009, 19, 1477.	6.7	41
33	Impact of C-H \cdots X (X = F, N) and π - π Interactions on Tuning the Degree of Charge Transfer in $\text{F}_{6\text{T}}\text{NAP}$ -Based Organic Binary Compound Single Crystals. <i>Crystal Growth and Design</i> , 2018, 18, 1776-1785.	3.0	40
34	Single crystal ribbons and transistors of a solution processed sickle-like fused-ring thienoacene. <i>Journal of Materials Chemistry</i> , 2010, 20, 6014.	6.7	36
35	Intermolecular Charge-Transfer Interactions Facilitate Two-Photon Absorption in Styrylpyridine-Tetracyanobenzene Cocrystals. <i>Angewandte Chemie</i> , 2017, 129, 7939-7943.	2.0	32
36	A bowl-shaped sumanene derivative with dense convex-concave columnar packing for high-performance organic field-effect transistors. <i>Chemical Communications</i> , 2017, 53, 11407-11409.	4.1	31

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37	2D Molecular Crystal Bilayer p-n Junctions: A General Route toward High-Performance and Well-Balanced Ambipolar Organic Field-Effect Transistors. <i>Small</i> , 2019, 15, e1902187.	10.0	29
38	A novel angularly fused bistetracene: facile synthesis, crystal packing and single-crystal field effect transistors. <i>Journal of Materials Chemistry C</i> , 2017, 5, 1308-1312.	5.5	27
39	Negative Phototransistors with Ultrahigh Sensitivity and Weak-Light Detection Based on 1D/2D Molecular Crystal p-n Heterojunctions and their Application in Light Encoders. <i>Advanced Materials</i> , 2022, 34, e2201364.	21.0	26
40	Micrometer- and Nanometer-Sized, Single-Crystalline Ribbons of a Cyclic Triphenylamine Dimer and Their Application in Organic Transistors. <i>Advanced Materials</i> , 2009, 21, 1605-1608.	21.0	22
41	Highly adhesive, washable and stretchable on-skin electrodes based on polydopamine and silk fibroin for ambulatory electrocardiography sensing. <i>Journal of Materials Chemistry C</i> , 2020, 8, 12257-12264.	5.5	21
42	Mass Production of Nanogap Electrodes toward Robust Resistive Random Access Memory. <i>Advanced Materials</i> , 2016, 28, 8227-8233.	21.0	20
43	Physicochemical, self-assembly and field-effect transistor properties of anti- and syn- thienoacene isomers. <i>Journal of Materials Chemistry</i> , 2011, 21, 11335.	6.7	18
44	Unidirectional and crystalline organic semiconductor microwire arrays by solvent vapor annealing with PMMA as the assisting layer. <i>Journal of Materials Chemistry C</i> , 2018, 6, 12479-12483.	5.5	15
45	Thermal-assisted self-assembly: a self-adaptive strategy towards large-area uniaxial organic single-crystalline microribbon arrays. <i>Nanoscale</i> , 2019, 11, 12781-12787.	5.6	15
46	Isomeric Dibenzooheptazethrenes for Air-Stable Organic Field-Effect Transistors. <i>Angewandte Chemie</i> , 2021, 133, 16366-16372.	2.0	14
47	The prospects of organic semiconductor single crystals for spintronic applications. <i>Journal of Materials Chemistry C</i> , 2022, 10, 2507-2515.	5.5	14
48	Reversible Modification of Nitrogen-Doped Graphene Based on Se-N Dynamic Covalent Bonds for Field-Effect Transistors. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 24360-24366.	8.0	13
49	Self-assembly of reduced graphene oxide at liquid-air interface for organic field-effect transistors. <i>Journal of Materials Chemistry</i> , 2012, 22, 6171.	6.7	12
50	2D molecular crystal templated organic p-n heterojunctions for high-performance ambipolar organic field-effect transistors. <i>Journal of Materials Chemistry C</i> , 2021, 9, 5758-5764.	5.5	12
51	Few-layered organic single-crystalline heterojunctions for high-performance phototransistors. <i>Nano Research</i> , 2022, 15, 2667-2673.	10.4	12
52	Organic Optoelectronics: 2D Organic Materials for Optoelectronic Applications (<i>Adv. Mater.</i> 2/2018). <i>Advanced Materials</i> , 2018, 30, 1870012.	21.0	11
53	Ultra-thin two-dimensional molecular crystals grown on a liquid surface for high-performance phototransistors. <i>Chemical Communications</i> , 2021, 57, 2669-2672.	4.1	11
54	Continuous and highly ordered organic semiconductor thin films via dip-coating: the critical role of meniscus angle. <i>Science China Materials</i> , 2020, 63, 1257-1264.	6.3	10

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55	High-yield and sustainable synthesis of quinoidal compounds assisted by keto-enol tautomerism. <i>Chemical Science</i> , 2021, 12, 9366-9371.	7.4	10
56	Few-layered two-dimensional molecular crystals for organic artificial visual memories with record-high photoresponse. <i>Journal of Materials Chemistry C</i> , 2021, 9, 8834-8841.	5.5	10
57	High-performance deformable photoswitches with p-doped graphene as the top window electrode. <i>Journal of Materials Chemistry C</i> , 2015, 3, 37-40.	5.5	8
58	p-n heterojunctions composed of two-dimensional molecular crystals for high-performance ambipolar organic field-effect transistors. <i>APL Materials</i> , 2021, 9, 051108.	5.1	8
59	Organic single crystals or crystalline micro/nanostructures: Preparation and field-effect transistor applications. <i>Science China Chemistry</i> , 2010, 53, 1225-1234.	8.2	6
60	Layer-Defining Strategy to Grow Two-Dimensional Molecular Crystals on a Liquid Surface down to the Monolayer Limit. <i>Angewandte Chemie</i> , 2019, 131, 16228-16232.	2.0	6
61	Random Access Memory: Organic Ferroelectric-Based 1T1T Random Access Memory Cell Employing a Common Dielectric Layer Overcoming the Half-Selection Problem (<i>Adv. Mater.</i> 34/2017). <i>Advanced Materials</i> , 2017, 29, .	21.0	5
62	Organic Single Crystals: N-Type 2D Organic Single Crystals for High-Performance Organic Field-Effect Transistors and Near-Infrared Phototransistors (<i>Adv. Mater.</i> 16/2018). <i>Advanced Materials</i> , 2018, 30, 1870114.	21.0	5
63	Spin injection and transport in single-crystalline organic spin valves based on TIPS-pentacene. <i>Science China Materials</i> , 2021, 64, 2795-2804.	6.3	5
64	Soft template-assisted self-assembly: a general strategy toward two-dimensional molecular crystals for high-performance organic field-effect transistors. <i>Journal of Materials Chemistry C</i> , 2022, 10, 2575-2580.	5.5	5
65	Highly Efficient Contact Doping for High-Performance Organic UV-Sensitive Phototransistors. <i>Crystals</i> , 2022, 12, 651.	2.2	5
66	Enhanced stability of a rubrene analogue with a brickwork packing motif. <i>Journal of Materials Chemistry C</i> , 2017, 5, 8376-8379.	5.5	4
67	Highly efficient modulation of the electronic properties of organic semiconductors by surface doping with 2D molecular crystals. <i>Science China Chemistry</i> , 2020, 63, 973-979.	8.2	3
68	Organic Memory Devices: 2D Mica Crystal as Electret in Organic Field-Effect Transistors for Multistate Memory (<i>Adv. Mater.</i> 19/2016). <i>Advanced Materials</i> , 2016, 28, 3792-3792.	21.0	2
69	Organic Single Crystals: A Phase Separation-Molecular Design Strategy Towards Large-Area 2D Molecular Crystals (<i>Adv. Mater.</i> 35/2019). <i>Advanced Materials</i> , 2019, 31, 1970251.	21.0	2
70	Bandgap Engineering of an Aryl-Fused Tetrathianaphthalene for Visible-Blind Organic Field-Effect Transistors. <i>Frontiers in Chemistry</i> , 2021, 9, 698246.	3.6	2
71	Field-Effect Devices: Molecular Crystal Engineering: Tuning Organic Semiconductor from p-type to n-type by Adjusting Their Substitutional Symmetry (<i>Adv. Mater.</i> 10/2017). <i>Advanced Materials</i> , 2017, 29, .	21.0	1
72	Two-dimensional molecular crystals: a review. <i>Scientia Sinica Chimica</i> , 2021, 51, 21-40.	0.4	1

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73	Improvement of electrical characteristics of fluorinated perylene diimide thin-film transistors by gate dielectric surface treatment. , 2007, , .		0
74	A new compound between tetracene and rubrene to improve the weakness. Journal of Photochemistry and Photobiology A: Chemistry, 2018, 355, 131-135.	3.9	0
75	Innenr¼cktitelbild: Layerâ€Defining Strategy to Grow Twoâ€Dimensional Molecular Crystals on a Liquid Surface down to the Monolayer Limit (Angew. Chem. 45/2019). Angewandte Chemie, 2019, 131, 16479-16479.	2.0	0
76	Organic Cocrystals: New Strategy for Molecular Collaborative Innovation. Topics in Current Chemistry Collections, 2019, , 229-262.	0.5	0