

Sheng Bi

List of Publications by Year in descending order

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57
papers

1,316
citations

331670

21
h-index

395702

33
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57
all docs

57
docs citations

57
times ranked

910
citing authors

#	ARTICLE	IF	CITATIONS
1	Self-assembly diketopyrrolopyrrole-based materials and polymer blend with enhanced crystal alignment and property for organic field-effect transistors. <i>Organic Electronics</i> , 2019, 65, 96-99.	2.6	68
2	Nanoparticles for organic electronics applications. <i>Materials Research Express</i> , 2020, 7, 012004.	1.6	61
3	Highly enhanced performance of integrated piezo photo-transistor with dual inverted OLED gate and nanowire array channel. <i>Nano Energy</i> , 2019, 66, 104101.	16.0	55
4	Silver nanowire networks with preparations and applications: a review. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 15669-15696.	2.2	54
5	Temperature gradient controlled crystal growth from TIPS pentacene-poly(β -methyl styrene) blends for improving performance of organic thin film transistors. <i>Organic Electronics</i> , 2016, 32, 195-199.	2.6	52
6	Performance of OLED under mechanical strain: a review. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 20688-20729.	2.2	52
7	Solution-grown small-molecule organic semiconductor with enhanced crystal alignment and areal coverage for organic thin film transistors. <i>AIP Advances</i> , 2015, 5, .	1.3	48
8	Piezoelectricity in monolayer MXene for nanogenerators and piezotronics. <i>Nano Energy</i> , 2021, 90, 106528.	16.0	43
9	A high-performance bionic pressure memory device based on piezo-OLED and piezo-memristor as luminescence-fish neuromorphic tactile system. <i>Nano Energy</i> , 2020, 77, 105120.	16.0	41
10	High-Performance and Reliable Silver Nanotube Networks for Efficient and Large-Scale Transparent Electromagnetic Interference Shielding. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 15525-15535.	8.0	41
11	Air-stable solution-processed n -channel organic thin film transistors with polymer-enhanced morphology. <i>Applied Physics Letters</i> , 2015, 106, .	3.3	40
12	Single-Layer MoS ₂ Mechanical Resonant Piezo-Sensors with High Mass Sensitivity. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 41991-41998.	8.0	39
13	Conjugated Polymer Controlled Morphology and Charge Transport of Small-Molecule Organic Semiconductors. <i>Scientific Reports</i> , 2020, 10, 4344.	3.3	39
14	Hyaline and stretchable haptic interfaces based on serpentine-shaped silver nanofiber networks. <i>Nano Energy</i> , 2020, 73, 104782.	16.0	37
15	Layer-dependent anisotropic frictional behavior in two-dimensional monolayer hybrid perovskite/ITO layered heterojunctions. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 2540-2546.	2.8	31
16	High Performance Vertical Resonant Photo-Effect-Transistor with an All-Around OLED-Gate for Ultra-Electromagnetic Stability. <i>ACS Nano</i> , 2019, 13, 8425-8432.	14.6	27
17	Simple and Low-Cost Plasmonic Fiber-Optic Probe as SERS and Biosensing Platform. <i>Advanced Optical Materials</i> , 2019, 7, 1900337.	7.3	26
18	Reciprocated suppression of polymer crystallization toward improved solid polymer electrolytes: Higher ion conductivity and tunable mechanical properties. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2015, 53, 1450-1457.	2.1	24

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19	High Performance and Efficiency Resonant Photo-Effect-Transistor by Near-Field Nano-Strip-Controlled Organic Light Emitting Diode Gate. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 6526-6534.	4.6	24
20	Effect of Donor-Acceptor Vertical Composition Profile on Performance of Organic Bulk Heterojunction Solar Cells. <i>Scientific Reports</i> , 2018, 8, 9574.	3.3	23
21	Self-assembly crystal microribbons with nucleation additive for high-performance organic thin film transistors. <i>Japanese Journal of Applied Physics</i> , 2019, 58, 061009.	1.5	23
22	Ultra-low misorientation angle in small-molecule semiconductor/polyethylene oxide blends for organic thin film transistors. <i>Journal of Polymer Research</i> , 2020, 27, 1.	2.4	23
23	Long-range crystal alignment with polymer additive for organic thin film transistors. <i>Journal of Polymer Research</i> , 2019, 26, 1.	2.4	22
24	Manipulate organic crystal morphology and charge transport. <i>Organic Electronics</i> , 2022, 103, 106448.	2.6	21
25	Small-molecule additives for organic thin film transistors. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 20899-20913.	2.2	20
26	Development and current situation of flexible and transparent EM shielding materials. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 25603-25630.	2.2	20
27	Poly(α -methylstyrene) polymer and small-molecule semiconductor blend with reduced crystal misorientation for organic thin film transistors. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 14335-14343.	2.2	19
28	Effect of Polymer Molecular Weight on Morphology and Charge Transport of Small-Molecular Organic Semiconductors. <i>Electronic Materials Letters</i> , 2020, 16, 441-450.	2.2	19
29	Recent progress in multifunctional hydrogel-based supercapacitors. <i>Journal of Science: Advanced Materials and Devices</i> , 2021, 6, 338-350.	3.1	19
30	Paper-like Foldable Nanowave Circuit with Ultralarge Curvature and Ultrahigh Stability. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 43368-43375.	8.0	18
31	Nanoscale alignment of semiconductor crystals for high-fidelity organic electronics applications. <i>Applied Nanoscience (Switzerland)</i> , 2021, 11, 787-795.	3.1	18
32	Size-dependent Young's modulus in ZnO nanowires with strong surface atomic bonds. <i>Nanotechnology</i> , 2018, 29, 125702.	2.6	17
33	Phase segregation controlled semiconductor crystallization for organic thin film transistors. <i>Journal of Science: Advanced Materials and Devices</i> , 2020, 5, 151-163.	3.1	17
34	A facile and novel route to improve TIPS pentacene based organic thin film transistor performance with elastomer. <i>Synthetic Metals</i> , 2020, 262, 116337.	3.9	17
35	Photo-Triggered Logic Circuits Assembled on Integrated Illuminants and Resonant Nanowires. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 46501-46508.	8.0	17
36	Monolayer MXene Nanoelectromechanical Piezoresonators with 0.2 Zeptogram Mass Resolution. <i>Advanced Science</i> , 2022, 9, .	11.2	17

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37	High-Dynamic-Range Pressure Mapping Interactions by Dual Piezo-Phototronic Transistor with Piezo-Nanowire Channels and Piezo-OLED Gates. <i>Advanced Functional Materials</i> , 2020, 30, 2004724.	14.9	14
38	Tailoring the molecular weight of polymer additives for organic semiconductors. <i>Materials Advances</i> , 2022, 3, 1953-1973.	5.4	14
39	Atomic Layer Dependence of Shear Modulus in a Two-Dimensional Single-Crystal Organic-Inorganic Hybrid Perovskite. <i>Journal of Physical Chemistry C</i> , 2019, 123, 15251-15257.	3.1	13
40	Ultra-High-Responsivity Vertical Nanowire-based Phototransistor under Standing-Wave Plasmon Mode Interaction Induced by Near-Field Circular OLED. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 3947-3954.	4.6	13
41	Polyacrylate polymer assisted crystallization: Improved charge transport and performance consistency for solution-processable small-molecule semiconductor based organic thin film transistors. <i>Journal of Science: Advanced Materials and Devices</i> , 2019, 4, 467-472.	3.1	12
42	Recent advances in MXene-based force sensors: a mini-review. <i>RSC Advances</i> , 2021, 11, 19169-19184.	3.6	12
43	Recent mechanical processing techniques of two-dimensional layered materials: A review. <i>Journal of Science: Advanced Materials and Devices</i> , 2021, 6, 135-152.	3.1	11
44	Efficient small molecule photovoltaic donor based on 2,3-diphenyl-substituted quinoxaline core for solution-processed organic solar cells. <i>RSC Advances</i> , 2017, 7, 23779-23786.	3.6	9
45	Phase segregation effect on TIPS pentacene crystallization and morphology for organic thin film transistors. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 4503-4510.	2.2	9
46	Crystal growth of small-molecule organic semiconductors with nucleation additive. <i>Current Applied Physics</i> , 2021, 21, 107-115.	2.4	9
47	Dynamic photonic perovskite light-emitting diodes with post-treatment-enhanced crystallization as writable and wipeable inscribers. <i>Nanoscale Advances</i> , 2021, 3, 6659-6668.	4.6	9
48	Large-Dimensional Organic Semiconductor Crystals with Poly(butyl acrylate) Polymer for Solution-Processed Organic Thin Film Transistors. <i>Electronic Materials Letters</i> , 2021, 17, 33-42.	2.2	8
49	Performance enhancement by vertical morphology alteration of the active layer in organic solar cells. <i>RSC Advances</i> , 2018, 8, 6519-6526.	3.6	7
50	Polyferrocenylsilane Semicrystalline Polymer Additive for Solution-Processed p-Channel Organic Thin Film Transistors. <i>Polymers</i> , 2021, 13, 402.	4.5	7
51	Tuning charge transport in organic semiconductors with nanoparticles and hexamethyldisilazane. <i>Journal of Nanoparticle Research</i> , 2021, 23, 1.	1.9	7
52	Poly(butyl acrylate) polymer enhanced phase segregation and morphology of organic semiconductor for solution-processed thin film transistors. <i>Journal of Applied Polymer Science</i> , 2021, 138, 50654.	2.6	7
53	A color-tunable and high-effective organic light-emitting diode device with forward-inverse structure as intelligent lighting display. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 22309-22318.	2.2	6
54	High-performance fully-stretchable solid-state lithium-ion battery with a nanowire-network configuration and crosslinked hydrogel. <i>Journal of Materials Chemistry A</i> , 2022, 10, 11562-11573.	10.3	6

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55	Silver Nanotube Networks with Ultrahigh Strain Limit as Reliable Flexible Transparent Electrode and Tactile Sensor. <i>Advanced Engineering Materials</i> , 2022, 24, 2100832.	3.5	5
56	Poly(α -methyl styrene) polymer additive for organic thin film transistors. <i>Journal of Materials Science: Materials in Electronics</i> , 2022, 33, 1101-1122.	2.2	3
57	Near-Infrared to Visible Light Converter by Integrating Graphene Transistor into Perovskite Quantum Dot Light Emitting Diodes. <i>Advanced Materials Technologies</i> , 2022, 7, .	5.8	3