

Mingzhu Li

List of Publications by Year in descending order

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127
papers

7,416
citations

41323

49
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56687

83
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140
all docs

140
docs citations

140
times ranked

8862
citing authors

#	ARTICLE	IF	CITATIONS
1	Patterned Colloidal Photonic Crystals. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 2544-2553.	7.2	413
2	A Strong Integrated Strength and Toughness Artificial Nacre Based on Dopamine Cross-Linked Graphene Oxide. <i>ACS Nano</i> , 2014, 8, 9511-9517.	7.3	347
3	Super-tough MXene-functionalized graphene sheets. <i>Nature Communications</i> , 2020, 11, 2077.	5.8	289
4	Ultratough Artificial Nacre Based on Conjugated Cross-Linked Graphene Oxide. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 3750-3755.	7.2	278
5	Bio-Inspired Photonic Crystal Microchip for Fluorescent Ultratrace Detection. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 5791-5795.	7.2	253
6	Janus interface materials: superhydrophobic air/solid interface and superoleophobic water/solid interface inspired by a lotus leaf. <i>Soft Matter</i> , 2011, 7, 5948.	1.2	203
7	Hydrophilic-Hydrophobic Patterned Molecularly Imprinted Photonic Crystal Sensors for High-Sensitive Colorimetric Detection of Tetracycline. <i>Small</i> , 2015, 11, 2738-2742.	5.2	176
8	A Mechanically Robust Conducting Polymer Network Electrode for Efficient Flexible Perovskite Solar Cells. <i>Joule</i> , 2019, 3, 2205-2218.	11.7	175
9	Fabrication of Transparent Multilayer Circuits by Inkjet Printing. <i>Advanced Materials</i> , 2016, 28, 1420-1426.	11.1	172
10	Recent advances in colloidal photonic crystal sensors: Materials, structures and analysis methods. <i>Nano Today</i> , 2018, 22, 132-144.	6.2	170
11	Rate-dependent interface capture beyond the coffee-ring effect. <i>Scientific Reports</i> , 2016, 6, 24628.	1.6	161
12	Ultrasensitive DNA Detection Using Photonic Crystals. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 7258-7262.	7.2	160
13	Programmable droplet manipulation by a magnetic-actuated robot. <i>Science Advances</i> , 2020, 6, eaay5808.	4.7	160
14	Wearable Large-Scale Perovskite Solar Power Source via Nanocellular Scaffold. <i>Advanced Materials</i> , 2017, 29, 1703236.	11.1	152
15	A general printing approach for scalable growth of perovskite single-crystal films. <i>Science Advances</i> , 2018, 4, eaat2390.	4.7	150
16	Enhancement of photochemical hydrogen evolution over Pt-loaded hierarchical titania photonic crystal. <i>Energy and Environmental Science</i> , 2010, 3, 1503.	15.6	139
17	Bioinspired Layered Composites Based on Flattened Double-Walled Carbon Nanotubes. <i>Advanced Materials</i> , 2012, 24, 1838-1843.	11.1	137
18	Spontaneous droplets gyrating via asymmetric self-splitting on heterogeneous surfaces. <i>Nature Communications</i> , 2019, 10, 950.	5.8	135

#	ARTICLE	IF	CITATIONS
19	Diffraction-Grated Perovskite Induced Highly Efficient Solar Cells through Nanophotonic Light Trapping. <i>Advanced Energy Materials</i> , 2018, 8, 1702960.	10.2	119
20	Patterning Fluorescent Quantum Dot Nanocomposites by Reactive Inkjet Printing. <i>Small</i> , 2015, 11, 1649-1654.	5.2	117
21	Direct-Writing Multifunctional Perovskite Single Crystal Arrays by Inkjet Printing. <i>Small</i> , 2017, 13, 1603217.	5.2	117
22	Multilevel Conductance Switching of Memory Device through Photoelectric Effect. <i>Journal of the American Chemical Society</i> , 2012, 134, 20053-20059.	6.6	114
23	Nacre-inspired crystallization and elastic ϵ -brick-and-mortar-structure for a wearable perovskite solar module. <i>Energy and Environmental Science</i> , 2019, 12, 979-987.	15.6	114
24	A Light-Responsive Release Platform by Controlling the Wetting Behavior of Hydrophobic Surface. <i>ACS Nano</i> , 2014, 8, 744-751.	7.3	102
25	Hierarchically Macro-/Mesoporous Ti ^{IV} Si Oxides Photonic Crystal with Highly Efficient Photocatalytic Capability. <i>Environmental Science & Technology</i> , 2009, 43, 9425-9431.	4.6	97
26	Direct-writing colloidal photonic crystal microfluidic chips by inkjet printing for label-free protein detection. <i>Lab on A Chip</i> , 2012, 12, 3089.	3.1	95
27	Splitting a Droplet for Femtoliter Liquid Patterns and Single Cell Isolation. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 9060-9065.	4.0	95
28	An underwater pH-responsive superoleophobic surface with reversibly switchable oil-adhesion. <i>Soft Matter</i> , 2012, 8, 6740.	1.2	89
29	Patterned photonic crystals for hiding information. <i>Journal of Materials Chemistry C</i> , 2017, 5, 4621-4628.	2.7	89
30	Bioinspired Micropatterned Superhydrophilic Au-Areoles for Surface-Enhanced Raman Scattering (SERS) Trace Detection. <i>Advanced Functional Materials</i> , 2018, 28, 1800448.	7.8	87
31	Highly reproducible SERS arrays directly written by inkjet printing. <i>Nanoscale</i> , 2015, 7, 421-425.	2.8	81
32	Four-Dimensional Screening Anti-Counterfeiting Pattern by Inkjet Printed Photonic Crystals. <i>Chemistry - an Asian Journal</i> , 2016, 11, 2680-2685.	1.7	72
33	Facile full-color printing with a single transparent ink. <i>Science Advances</i> , 2021, 7, eabh1992.	4.7	72
34	The Structural Color of Red Rose Petals and Their Duplicates. <i>Langmuir</i> , 2010, 26, 14885-14888.	1.6	71
35	Bioinspired Quasi-3D Multiplexed Anti-Counterfeit Imaging via Self-Assembled and Nanoimprinted Photonic Architectures. <i>Advanced Materials</i> , 2022, 34, e2107243.	11.1	70
36	Bioinspired Supertough Graphene Fiber through Sequential Interfacial Interactions. <i>ACS Nano</i> , 2018, 12, 8901-8908.	7.3	67

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37	A Butterfly-Inspired Hierarchical Light-Trapping Structure towards a High-Performance Polarization-Sensitive Perovskite Photodetector. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 16456-16462.	7.2	67
38	Tautomeric Molecule Acts as a "Sunscreen" for Metal Halide Perovskite Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 8673-8677.	7.2	67
39	Hierarchical TiO ₂ photonic crystal spheres prepared by spray drying for highly efficient photocatalysis. <i>Journal of Materials Chemistry A</i> , 2013, 1, 541-547.	5.2	66
40	Controllable Growth of High-Quality Inorganic Perovskite Microplate Arrays for Functional Optoelectronics. <i>Advanced Materials</i> , 2020, 32, e1908006.	11.1	66
41	Bioinspired Color Switchable Photonic Crystal Silicone Elastomer Kirigami. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 14307-14312.	7.2	66
42	Droplet Precise Self-Splitting on Patterned Adhesive Surfaces for Simultaneous Multidetector. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 10535-10539.	7.2	65
43	Highly effective protein detection for avidin-biotin system based on colloidal photonic crystals enhanced fluoroimmunoassay. <i>Biosensors and Bioelectronics</i> , 2011, 26, 2165-2170.	5.3	60
44	Highly reflective superhydrophobic white coating inspired by poplar leaf hairs toward an effective "cool roof". <i>Energy and Environmental Science</i> , 2011, 4, 3364.	15.6	57
45	Ultratough Bioinspired Graphene Fiber via Sequential Toughening of Hydrogen and Ionic Bonding. <i>ACS Nano</i> , 2018, 12, 12638-12645.	7.3	53
46	Janus Structural Color from a 2D Photonic Crystal Hybrid with a Fabry-Perot Cavity. <i>Advanced Optical Materials</i> , 2018, 6, 1800651.	3.6	53
47	In Situ Inkjet Printing of the Perovskite Single-Crystal Array-Embedded Polydimethylsiloxane Film for Wearable Light-Emitting Devices. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 22157-22162.	4.0	53
48	Designable structural coloration by colloidal particle assembly: from nature to artificial manufacturing. <i>IScience</i> , 2021, 24, 102121.	1.9	52
49	High efficient perovskite whispering-gallery solar cells. <i>Nano Energy</i> , 2018, 51, 556-562.	8.2	51
50	Hierarchical optical antenna: Gold nanoparticle-modified photonic crystal for highly-sensitive label-free DNA detection. <i>Journal of Materials Chemistry</i> , 2012, 22, 8127.	6.7	50
51	Patterned Wettability Surface for Competition-Driving Large-Grained Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2019, 9, 1900838.	10.2	44
52	Heterogeneous Wettability Surfaces: Principle, Construction, and Applications. <i>Small Structures</i> , 2020, 1, 2000028.	6.9	39
53	Moiré Perovskite Photodetector toward High-Sensitive Digital Polarization Imaging. <i>Advanced Energy Materials</i> , 2021, 11, 2100742.	10.2	39
54	Recent Progress in Responsive Structural Color. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 2885-2900.	2.1	38

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55	Colorful Efficient Moiré Perovskite Solar Cells. <i>Advanced Materials</i> , 2021, 33, e2008091.	11.1	37
56	Steerable Droplet Bouncing for Precise Materials Transportation. <i>Advanced Materials Interfaces</i> , 2019, 6, 1901033.	1.9	35
57	Programmed Coassembly of One-Dimensional Binary Superstructures by Liquid Soft Confinement. <i>Journal of the American Chemical Society</i> , 2018, 140, 18-21.	6.6	34
58	Interfacial modification towards highly efficient and stable perovskite solar cells. <i>Nanoscale</i> , 2020, 12, 18563-18575.	2.8	34
59	Efficient Luminescence of Long Persistent Phosphor Combined with Photonic Crystal. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 6317-6321.	4.0	33
60	Breaking the symmetry to suppress the Plateau Rayleigh instability and optimize hydropower utilization. <i>Nature Communications</i> , 2021, 12, 6899.	5.8	32
61	Three dimensional MOF sponge for fast dynamic adsorption. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 5746-5752.	1.3	29
62	Plasmonic Biomimetic Nanocomposite with Spontaneous Subwavelength Structuring as Broadband Absorbers. <i>ACS Energy Letters</i> , 2018, 3, 1578-1583.	8.8	29
63	Aquatic plant inspired hierarchical artificial leaves for highly efficient photocatalysis. <i>Journal of Materials Chemistry A</i> , 2013, 1, 7760.	5.2	27
64	Photo-induced amplification of readout contrast in nanoscale data storage. <i>Journal of Materials Chemistry</i> , 2012, 22, 4299.	6.7	26
65	A Butterfly Inspired Hierarchical Light Trapping Structure towards a High Performance Polarization Sensitive Perovskite Photodetector. <i>Angewandte Chemie</i> , 2019, 131, 16608-16614.	1.6	26
66	Bio-inspired anisotropic micro/nano-surface from a natural stamp: grasshopper wings. <i>Soft Matter</i> , 2011, 7, 7973.	1.2	25
67	Large-area, crack-free polysilazane-based photonic crystals. <i>Journal of Materials Chemistry</i> , 2012, 22, 5300.	6.7	25
68	Rayleigh Instability-Assisted Satellite Droplets Elimination in Inkjet Printing. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 41521-41528.	4.0	25
69	Micro-Nano Structure Functionalized Perovskite Optoelectronics: From Structure Functionalities to Device Applications. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	25
70	Flexible Au nanoparticle arrays induced metal-enhanced fluorescence towards pressure sensors. <i>Journal of Materials Chemistry</i> , 2011, 21, 5234.	6.7	24
71	Enhanced Efficiency of Perovskite Solar Cells by using Core-Ultrathin Shell Structure Ag@SiO ₂ Nanowires as Plasmonic Antennas. <i>Advanced Electronic Materials</i> , 2017, 3, 1700169.	2.6	24
72	Progress of electrically responsive photonic crystals. <i>Composites Communications</i> , 2019, 12, 47-53.	3.3	24

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73	Precise Droplet Manipulation Based on Surface Heterogeneity. <i>Accounts of Materials Research</i> , 2021, 2, 230-241.	5.9	22
74	Graphdiyne Nanospheres as a Wettability and Electron Modifier for Enhanced Hydrogenation Catalysis. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	22
75	Thermally driven self-healing efficient flexible perovskite solar cells. <i>Nano Energy</i> , 2022, 100, 107523.	8.2	20
76	Bioinspired light-driven photonic crystal actuator with MXene-hydrogel muscle. <i>Cell Reports Physical Science</i> , 2022, 3, 100915.	2.8	19
77	A green solvent for operating highly efficient low-power photon upconversion in air. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 14516-14520.	1.3	18
78	A facile fabrication strategy for anisotropic photonic crystals using deformable spherical nanoparticles. <i>Nanoscale</i> , 2019, 11, 14147-14154.	2.8	17
79	Nacre inspired robust self-encapsulating flexible perovskite photodetector. <i>Nano Energy</i> , 2022, 98, 107254.	8.2	17
80	Coherent control of spontaneous emission by photonic crystals. <i>Chemical Physics Letters</i> , 2007, 444, 287-291.	1.2	16
81	Photonic crystal boosted chemiluminescence reaction. <i>Laser and Photonics Reviews</i> , 2013, 7, L39-L43.	4.4	16
82	Reversibly phototunable TiO ₂ photonic crystal modulated by Ag nanoparticles's oxidation/reduction. <i>Applied Physics Letters</i> , 2011, 98, .	1.5	13
83	A General Layer-by-Layer Printing Method for Scalable High-Resolution Full-Color Flexible Luminescent Patterns. <i>Advanced Optical Materials</i> , 2019, 7, 1900127.	3.6	13
84	Strong Photonic Band-Gap Effect on the Spontaneous Emission in 3D Lead Halide Perovskite Photonic Crystals. <i>ChemPhysChem</i> , 2018, 19, 2101-2106.	1.0	12
85	Strukturierte kolloidale photonische Kristalle. <i>Angewandte Chemie</i> , 2018, 130, 2571-2581.	1.6	12
86	Slot-Waveguide Silicon Nitride Organic Hybrid Distributed Feedback Laser. <i>Scientific Reports</i> , 2019, 9, 18438.	1.6	12
87	Material gain concentration quenching in organic dye-doped polymer thin films. <i>Optical Materials Express</i> , 2019, 9, 1208.	1.6	12
88	Bioinspired photonic structures by the reflector layer of firefly lantern for highly efficient chemiluminescence. <i>Scientific Reports</i> , 2015, 5, 12965.	1.6	11
89	ReinforcedRimJump: Tangent-Based Shortest-Path Planning for Two-Dimensional Maps. <i>IEEE Transactions on Industrial Informatics</i> , 2020, 16, 949-958.	7.2	10
90	Research Progress of Photonic Crystal Solar Cells. <i>Acta Chimica Sinica</i> , 2018, 76, 9.	0.5	10

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91	Effects of dietary grape seed oil and linseed oil on growth, muscle fatty acid composition and expression of putative Δ^5 fatty acyl desaturase in abalone <i>Haliotis discus hannai</i> Ino. <i>Aquaculture</i> , 2013, 406-407, 105-114.	1.7	9
92	Integrated silicon nitride organic hybrid DFB laser with inkjet printed gain medium. <i>Optics Express</i> , 2019, 27, 29350.	1.7	8
93	Graphdiyne Nanospheres as a Wettability and Electron Modifier for Enhanced Hydrogenation Catalysis. <i>Angewandte Chemie</i> , 0, , .	1.6	8
94	Fabrication of tunable colloid crystals from amine-terminated polyamidoamine dendrimers. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2006, 290, 233-238.	2.3	7
95	Energy transfer boosted by photonic crystals with metal film patterns. <i>Applied Physics Letters</i> , 2007, 91, 203516.	1.5	7
96	High effective sensors based on photonic crystals. <i>Frontiers of Chemistry in China: Selected Publications From Chinese Universities</i> , 2010, 5, 115-122.	0.4	7
97	Organic dye-sensitized sponge-like TiO ₂ photoanode for dye-sensitized solar cells. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2013, 371, 20120314.	1.6	7
98	Scalable Fabrication of Conductive Lines by Patterned Wettability-Assisted Bar-Coating for Low Cost Paper-Based Circuits. <i>Advanced Materials Interfaces</i> , 2019, 6, 1802047.	1.9	7
99	Ideal Time of Day for Risky Decision Making: Evidence from the Balloon Analogue Risk Task. <i>Nature and Science of Sleep</i> , 2020, Volume 12, 477-486.	1.4	7
100	Tautomeric Molecule Acts as a "Sunscreen" for Metal Halide Perovskite Solar Cells. <i>Angewandte Chemie</i> , 2021, 133, 8755-8759.	1.6	7
101	Dissociation of Subjective and Objective Alertness During Prolonged Wakefulness. <i>Nature and Science of Sleep</i> , 2021, Volume 13, 923-932.	1.4	7
102	Non-Hookean Droplet Spring for Enhancing Hydropower Harvest. <i>Small</i> , 2022, 18, e2200875.	5.2	7
103	A white-lighting LED system with a highly efficient thin luminous film. <i>Applied Physics A: Materials Science and Processing</i> , 2010, 98, 85-90.	1.1	6
104	RimJump: Edge-based Shortest Path Planning for a 2D Map. <i>Robotica</i> , 2019, 37, 641-655.	1.3	6
105	Nanostructural effects on optical properties of tungsten inverse opal. <i>Applied Physics A: Materials Science and Processing</i> , 2008, 93, 489-493.	1.1	5
106	Droplet Precise Self-Splitting on Patterned Adhesive Surfaces for Simultaneous Multidetector. <i>Angewandte Chemie</i> , 2020, 132, 10622-10626.	1.6	5
107	Bioinspired Color Switchable Photonic Crystal Silicone Elastomer Kirigami. <i>Angewandte Chemie</i> , 2021, 133, 14428-14433.	1.6	5
108	Directional Laser from Solution-Crown Grating-Patterned Perovskite Single-Crystal Microdisks. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	5

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109	Bio-inspired double-layer structure artificial microreactor with highly efficient light harvesting for photocatalysts. RSC Advances, 2015, 5, 11096-11100.	1.7	4
110	Inkjet Printing: Fabrication of Transparent Multilayer Circuits by Inkjet Printing (Adv. Mater. 7/2016). Advanced Materials, 2016, 28, 1523-1523.	11.1	4
111	Perovskite Solar Cells: Colorful Efficient Moiré Perovskite Solar Cells (Adv. Mater. 15/2021). Advanced Materials, 2021, 33, 2170116.	11.1	4
112	Solar Cells: Diffraction Grated Perovskite Induced Highly Efficient Solar Cells through Nanophotonic Light Trapping (Adv. Energy Mater. 12/2018). Advanced Energy Materials, 2018, 8, 1870052.	10.2	3
113	A Self-Growing Strategy for Large-Scale Crystal Assembly Tubes. Chemistry - an Asian Journal, 2018, 13, 761-764.	1.7	2
114	Perovskite Solar Cells: Patterned Wettability Surface for Competition-Driving Large-Grained Perovskite Solar Cells (Adv. Energy Mater. 25/2019). Advanced Energy Materials, 2019, 9, 1970098.	10.2	2
115	Bioinspired multiscale optical structures towards efficient light management in optoelectronic devices. Materials Today Nano, 2022, , 100225.	2.3	2
116	InnenrÄ¼cktitelbild: Ultratough Artificial Nacre Based on Conjugated Cross-linked Graphene Oxide (Angew. Chem. 13/2013). Angewandte Chemie, 2013, 125, 3863-3863.	1.6	1
117	Quantum Dots: Patterning Fluorescent Quantum Dot Nanocomposites by Reactive Inkjet Printing (Small 14/2015). Small, 2015, 11, 1614-1614.	5.2	1
118	Single Crystals: Direct-Writing Multifunctional Perovskite Single Crystal Arrays by Inkjet Printing (Small 8/2017). Small, 2017, 13, .	5.2	1
119	Adjustable object floating states based on three-segment three-phase contact line evolution. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2201665119.	3.3	1
120	Photonic Crystals: Hydrophilic-Hydrophobic Patterned Molecularly Imprinted Photonic Crystal Sensors for High-Sensitive Colorimetric Detection of Tetracycline (Small 23/2015). Small, 2015, 11, 2828-2828.	5.2	0
121	Bioassays: Bioinspired Micropatterned Superhydrophilic Au-Areoles for Surface-Enhanced Raman Scattering (SERS) Trace Detection (Adv. Funct. Mater. 21/2018). Advanced Functional Materials, 2018, 28, 1870144.	7.8	0
122	Layer-by-Layer Printing: A General Layer-by-Layer Printing Method for Scalable High-Resolution Full-Color Flexible Luminescent Patterns (Advanced Optical Materials 12/2019). Advanced Optical Materials, 2019, 7, 1970045.	3.6	0
123	RÄ¼cktitelbild: Droplet Precise Self-Splitting on Patterned Adhesive Surfaces for Simultaneous Multidetector (Angew. Chem. 26/2020). Angewandte Chemie, 2020, 132, 10754-10754.	1.6	0
124	RÄ¼cktitelbild: Tautomeric Molecule Acts as a "Sunscreens" for Metal Halide Perovskite Solar Cells (Angew. Chem. 16/2021). Angewandte Chemie, 2021, 133, 9228-9228.	1.6	0
125	Titelbild: Bioinspired Color Switchable Photonic Crystal Silicone Elastomer Kirigami (Angew. Chem.) Tj ETQq1 1 0.784314 rgBT /Overlock 1.6	1.6	0
126	Moiré Perovskite Photodetector toward High-Sensitive Digital Polarization Imaging (Adv. Energy) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 10.2	10.2	0

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127	Directional Laser From Solution-grown Grating-patterned Perovskite Single-crystal Microdisks. Angewandte Chemie, 0, , .	1.6	0