

Mingzhu Li

List of Publications by Year in descending order

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Version: 2024-02-01

128
papers

7,416
citations

41344

49
h-index

56724

83
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140
all docs

140
docs citations

140
times ranked

8862
citing authors

#	ARTICLE	IF	CITATIONS
1	Bioinspired Quasi-3D Multiplexed Anti-Counterfeit Imaging via Self-Assembled and Nanoimprinted Photonic Architectures. <i>Advanced Materials</i> , 2022, 34, e2107243.	21.0	70
2	Recent Progress in Responsive Structural Color. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 2885-2900.	4.6	38
3	Adjustable object floating states based on three-segment three-phase contact line evolution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2201665119.	7.1	1
4	Non-Hookean Droplet Spring for Enhancing Hydropower Harvest. <i>Small</i> , 2022, 18, e2200875.	10.0	7
5	Nacre inspired robust self-encapsulating flexible perovskite photodetector. <i>Nano Energy</i> , 2022, 98, 107254.	16.0	17
6	Micro-Nano Structure Functionalized Perovskite Optoelectronics: From Structure Functionalities to Device Applications. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	25
7	Bioinspired multiscale optical structures towards efficient light management in optoelectronic devices. <i>Materials Today Nano</i> , 2022, , 100225.	4.6	2
8	Graphdiyne Nanospheres as a Wettability and Electron Modifier for Enhanced Hydrogenation Catalysis. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	22
9	Bioinspired light-driven photonic crystal actuator with MXene-hydrogel muscle. <i>Cell Reports Physical Science</i> , 2022, 3, 100915.	5.6	19
10	Directional Laser from Solution-Grown Grating-Patterned Perovskite Single-Crystal Microdisks. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	5
11	Thermally driven self-healing efficient flexible perovskite solar cells. <i>Nano Energy</i> , 2022, 100, 107523.	16.0	20
12	Designable structural coloration by colloidal particle assembly: from nature to artificial manufacturing. <i>IScience</i> , 2021, 24, 102121.	4.1	52
13	Tautomeric Molecule Acts as a "Sunscreen" for Metal Halide Perovskite Solar Cells. <i>Angewandte Chemie</i> , 2021, 133, 8755-8759.	2.0	7
14	Tautomeric Molecule Acts as a "Sunscreen" for Metal Halide Perovskite Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 8673-8677.	13.8	67
15	Precise Droplet Manipulation Based on Surface Heterogeneity. <i>Accounts of Materials Research</i> , 2021, 2, 230-241.	11.7	22
16	Titelbild: Tautomeric Molecule Acts as a "Sunscreen" for Metal Halide Perovskite Solar Cells (Angew. Chem. 16/2021). <i>Angewandte Chemie</i> , 2021, 133, 9228-9228.	2.0	0
17	Colorful Efficient Moiré-Perovskite Solar Cells. <i>Advanced Materials</i> , 2021, 33, e2008091.	21.0	37
18	Perovskite Solar Cells: Colorful Efficient Moiré-Perovskite Solar Cells (Adv. Mater. 15/2021). <i>Advanced Materials</i> , 2021, 33, 2170116.	21.0	4

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19	Bioinspired Color Switchable Photonic Crystal Silicone Elastomer Kirigami. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 14307-14312.	13.8	66
20	Bioinspired Color Switchable Photonic Crystal Silicone Elastomer Kirigami. <i>Angewandte Chemie</i> , 2021, 133, 14428-14433.	2.0	5
21	Moiré Perovskite Photodetector toward High-Sensitive Digital Polarization Imaging. <i>Advanced Energy Materials</i> , 2021, 11, 2100742.	19.5	39
22	Titelbild: Bioinspired Color Switchable Photonic Crystal Silicone Elastomer Kirigami (<i>Angew. Chem.</i>)	2.0	0
23	Dissociation of Subjective and Objective Alertness During Prolonged Wakefulness. <i>Nature and Science of Sleep</i> , 2021, Volume 13, 923-932.	2.7	7
24	Moiré Perovskite Photodetector toward High-Sensitive Digital Polarization Imaging (<i>Adv. Energy</i>)	19.5	0
25	Facile full-color printing with a single transparent ink. <i>Science Advances</i> , 2021, 7, eabh1992.	10.3	72
26	Breaking the symmetry to suppress the Plateau-Rayleigh instability and optimize hydropower utilization. <i>Nature Communications</i> , 2021, 12, 6899.	12.8	32
27	ReinforcedRimJump: Tangent-Based Shortest-Path Planning for Two-Dimensional Maps. <i>IEEE Transactions on Industrial Informatics</i> , 2020, 16, 949-958.	11.3	10
28	Heterogeneous Wettability Surfaces: Principle, Construction, and Applications. <i>Small Structures</i> , 2020, 1, 2000028.	12.0	39
29	Interfacial modification towards highly efficient and stable perovskite solar cells. <i>Nanoscale</i> , 2020, 12, 18563-18575.	5.6	34
30	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.	2.7	7
31	Titelbild: Droplet Precise Self-Splitting on Patterned Adhesive Surfaces for Simultaneous Multidetector (<i>Angew. Chem.</i> 26/2020). <i>Angewandte Chemie</i> , 2020, 132, 10754-10754.	2.0	0
32	Controllable Growth of High-Quality Inorganic Perovskite Microplate Arrays for Functional Optoelectronics. <i>Advanced Materials</i> , 2020, 32, e1908006.	21.0	66
33	Programmable droplet manipulation by a magnetic-actuated robot. <i>Science Advances</i> , 2020, 6, eaay5808.	10.3	160
34	Super-tough MXene-functionalized graphene sheets. <i>Nature Communications</i> , 2020, 11, 2077.	12.8	289
35	Droplet Precise Self-Splitting on Patterned Adhesive Surfaces for Simultaneous Multidetector. <i>Angewandte Chemie</i> , 2020, 132, 10622-10626.	2.0	5
36	Droplet Precise Self-Splitting on Patterned Adhesive Surfaces for Simultaneous Multidetector. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 10535-10539.	13.8	65

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37	In Situ Inkjet Printing of the Perovskite Single-Crystal Array-Embedded Polydimethylsiloxane Film for Wearable Light-Emitting Devices. ACS Applied Materials & Interfaces, 2020, 12, 22157-22162.	8.0	53
38	A Butterfly-Inspired Hierarchical Light-Trapping Structure towards a High-Performance Polarization-Sensitive Perovskite Photodetector. Angewandte Chemie - International Edition, 2019, 58, 16456-16462.	13.8	67
39	A facile fabrication strategy for anisotropic photonic crystals using deformable spherical nanoparticles. Nanoscale, 2019, 11, 14147-14154.	5.6	17
40	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.	19.5	2
41	A Mechanically Robust Conducting Polymer Network Electrode for Efficient Flexible Perovskite Solar Cells. Joule, 2019, 3, 2205-2218.	24.0	175
42	Steerable Droplet Bouncing for Precise Materials Transportation. Advanced Materials Interfaces, 2019, 6, 1901033.	3.7	35
43	A Butterfly-Inspired Hierarchical Light-Trapping Structure towards a High-Performance Polarization-Sensitive Perovskite Photodetector. Angewandte Chemie, 2019, 131, 16608-16614.	2.0	26
44	Nacre-inspired crystallization and elastic brick-and-mortar-structure for a wearable perovskite solar module. Energy and Environmental Science, 2019, 12, 979-987.	30.8	114
45	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.	7.3	0
46	Patterned Wettability Surface for Competition-Driving Large-Grained Perovskite Solar Cells. Advanced Energy Materials, 2019, 9, 1900838.	19.5	44
47	A General Layer-by-Layer Printing Method for Scalable High-Resolution Full-Color Flexible Luminescent Patterns. Advanced Optical Materials, 2019, 7, 1900127.	7.3	13
48	A green solvent for operating highly efficient low-power photon upconversion in air. Physical Chemistry Chemical Physics, 2019, 21, 14516-14520.	2.8	18
49	Spontaneous droplets gyrating via asymmetric self-splitting on heterogeneous surfaces. Nature Communications, 2019, 10, 950.	12.8	135
50	Scalable Fabrication of Conductive Lines by Patterned Wettability-Assisted Bar-Coating for Low Cost Paper-Based Circuits. Advanced Materials Interfaces, 2019, 6, 1802047.	3.7	7
51	Slot-Waveguide Silicon Nitride Organic Hybrid Distributed Feedback Laser. Scientific Reports, 2019, 9, 18438.	3.3	12
52	Progress of electrically responsive photonic crystals. Composites Communications, 2019, 12, 47-53.	6.3	24
53	RimJump: Edge-based Shortest Path Planning for a 2D Map. Robotica, 2019, 37, 641-655.	1.9	6
54	Integrated silicon nitride organic hybrid DFB laser with inkjet printed gain medium. Optics Express, 2019, 27, 29350.	3.4	8

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55	Material gain concentration quenching in organic dye-doped polymer thin films. <i>Optical Materials Express</i> , 2019, 9, 1208.	3.0	12
56	Bioinspired Micropatterned Superhydrophilic Au-Areoles for Surface-Enhanced Raman Scattering (SERS) Trace Detection. <i>Advanced Functional Materials</i> , 2018, 28, 1800448.	14.9	87
57	A Self-Growing Strategy for Large-Scale Crystal Assembly Tubes. <i>Chemistry - an Asian Journal</i> , 2018, 13, 761-764.	3.3	2
58	Diffraction-Grated Perovskite Induced Highly Efficient Solar Cells through Nanophotonic Light Trapping. <i>Advanced Energy Materials</i> , 2018, 8, 1702960.	19.5	119
59	Programmed Coassembly of One-Dimensional Binary Superstructures by Liquid Soft Confinement. <i>Journal of the American Chemical Society</i> , 2018, 140, 18-21.	13.7	34
60	Solar Cells: Diffraction-Grated Perovskite Induced Highly Efficient Solar Cells through Nanophotonic Light Trapping (Adv. Energy Mater. 12/2018). <i>Advanced Energy Materials</i> , 2018, 8, 1870052.	19.5	3
61	Strong Photonic-Band-Gap Effect on the Spontaneous Emission in 3D Lead Halide Perovskite Photonic Crystals. <i>ChemPhysChem</i> , 2018, 19, 2101-2106.	2.1	12
62	Strukturierte kolloidale photonische Kristalle. <i>Angewandte Chemie</i> , 2018, 130, 2571-2581.	2.0	12
63	Patterned Colloidal Photonic Crystals. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 2544-2553.	13.8	413
64	Ultratough Bioinspired Graphene Fiber <i>via</i> Sequential Toughening of Hydrogen and Ionic Bonding. <i>ACS Nano</i> , 2018, 12, 12638-12645.	14.6	53
65	Recent advances in colloidal photonic crystal sensors: Materials, structures and analysis methods. <i>Nano Today</i> , 2018, 22, 132-144.	11.9	170
66	Bioassays: Bioinspired Micropatterned Superhydrophilic Au-Areoles for Surface-Enhanced Raman Scattering (SERS) Trace Detection (Adv. Funct. Mater. 21/2018). <i>Advanced Functional Materials</i> , 2018, 28, 1870144.	14.9	0
67	Plasmonic Biomimetic Nanocomposite with Spontaneous Subwavelength Structuring as Broadband Absorbers. <i>ACS Energy Letters</i> , 2018, 3, 1578-1583.	17.4	29
68	High efficient perovskite whispering-gallery solar cells. <i>Nano Energy</i> , 2018, 51, 556-562.	16.0	51
69	A general printing approach for scalable growth of perovskite single-crystal films. <i>Science Advances</i> , 2018, 4, eaat2390.	10.3	150
70	Janus Structural Color from a 2D Photonic Crystal Hybrid with a Fabry-Perot Cavity. <i>Advanced Optical Materials</i> , 2018, 6, 1800651.	7.3	53
71	Bioinspired Supertough Graphene Fiber through Sequential Interfacial Interactions. <i>ACS Nano</i> , 2018, 12, 8901-8908.	14.6	67
72	Research Progress of Photonic Crystal Solar Cells. <i>Acta Chimica Sinica</i> , 2018, 76, 9.	1.4	10

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73	Single Crystals: Direct Writing Multifunctional Perovskite Single Crystal Arrays by Inkjet Printing (Small 8/2017). Small, 2017, 13, .	10.0	1
74	Patterned photonic crystals for hiding information. Journal of Materials Chemistry C, 2017, 5, 4621-4628.	5.5	89
75	Direct Writing Multifunctional Perovskite Single Crystal Arrays by Inkjet Printing. Small, 2017, 13, 1603217.	10.0	117
76	Enhanced Efficiency of Perovskite Solar Cells by using Core-Ultrathin Shell Structure Ag@SiO ₂ Nanowires as Plasmonic Antennas. Advanced Electronic Materials, 2017, 3, 1700169.	5.1	24
77	Wearable Large-Scale Perovskite Solar Power Source via Nanocellular Scaffold. Advanced Materials, 2017, 29, 1703236.	21.0	152
78	Rayleigh Instability-Assisted Satellite Droplets Elimination in Inkjet Printing. ACS Applied Materials & Interfaces, 2017, 9, 41521-41528.	8.0	25
79	Three dimensional MOF sponge for fast dynamic adsorption. Physical Chemistry Chemical Physics, 2017, 19, 5746-5752.	2.8	29
80	Fabrication of Transparent Multilayer Circuits by Inkjet Printing. Advanced Materials, 2016, 28, 1420-1426.	21.0	172
81	Rate-dependent interface capture beyond the coffee-ring effect. Scientific Reports, 2016, 6, 24628.	3.3	161
82	Four-Dimensional Screening Anti-Counterfeiting Pattern by Inkjet Printed Photonic Crystals. Chemistry - an Asian Journal, 2016, 11, 2680-2685.	3.3	72
83	Inkjet Printing: Fabrication of Transparent Multilayer Circuits by Inkjet Printing (Adv. Mater. 7/2016). Advanced Materials, 2016, 28, 1523-1523.	21.0	4
84	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.	10.0	0
85	Bioinspired photonic structures by the reflector layer of firefly lantern for highly efficient chemiluminescence. Scientific Reports, 2015, 5, 12965.	3.3	11
86	Hydrophilic-Hydrophobic Patterned Molecularly Imprinted Photonic Crystal Sensors for High-Sensitive Colorimetric Detection of Tetracycline. Small, 2015, 11, 2738-2742.	10.0	176
87	Patterning Fluorescent Quantum Dot Nanocomposites by Reactive Inkjet Printing. Small, 2015, 11, 1649-1654.	10.0	117
88	Bio-inspired double-layer structure artificial microreactor with highly efficient light harvesting for photocatalysts. RSC Advances, 2015, 5, 11096-11100.	3.6	4
89	Splitting a Droplet for Femtoliter Liquid Patterns and Single Cell Isolation. ACS Applied Materials & Interfaces, 2015, 7, 9060-9065.	8.0	95
90	Quantum Dots: Patterning Fluorescent Quantum Dot Nanocomposites by Reactive Inkjet Printing (Small 14/2015). Small, 2015, 11, 1614-1614.	10.0	1

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91	Highly reproducible SERS arrays directly written by inkjet printing. <i>Nanoscale</i> , 2015, 7, 421-425.	5.6	81
92	Bio-inspired Photonic Crystal Microchip for Fluorescent Ultratrace Detection. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 5791-5795.	13.8	253
93	A Light-Responsive Release Platform by Controlling the Wetting Behavior of Hydrophobic Surface. <i>ACS Nano</i> , 2014, 8, 744-751.	14.6	102
94	Efficient Luminescence of Long Persistent Phosphor Combined with Photonic Crystal. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 6317-6321.	8.0	33
95	A Strong Integrated Strength and Toughness Artificial Nacre Based on Dopamine Cross-Linked Graphene Oxide. <i>ACS Nano</i> , 2014, 8, 9511-9517.	14.6	347
96	Aquatic plant inspired hierarchical artificial leaves for highly efficient photocatalysis. <i>Journal of Materials Chemistry A</i> , 2013, 1, 7760.	10.3	27
97	Photonic crystal boosted chemiluminescence reaction. <i>Laser and Photonics Reviews</i> , 2013, 7, L39-L43.	8.7	16
98	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.	10.3	66
99	Ultratough Artificial Nacre Based on Conjugated Cross-linked Graphene Oxide. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 3750-3755.	13.8	278
100	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.	3.5	9
101	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.	3.4	7
102	InnenrÄ¼cktitelbild: Ultratough Artificial Nacre Based on Conjugated Cross-linked Graphene Oxide (Angew. Chem. 13/2013). <i>Angewandte Chemie</i> , 2013, 125, 3863-3863.	2.0	1
103	Large-area, crack-free polysilazane-based photonic crystals. <i>Journal of Materials Chemistry</i> , 2012, 22, 5300.	6.7	25
104	An underwater pH-responsive superoleophobic surface with reversibly switchable oil-adhesion. <i>Soft Matter</i> , 2012, 8, 6740.	2.7	89
105	Multilevel Conductance Switching of Memory Device through Photoelectric Effect. <i>Journal of the American Chemical Society</i> , 2012, 134, 20053-20059.	13.7	114
106	Photo-induced amplification of readout contrast in nanoscale data storage. <i>Journal of Materials Chemistry</i> , 2012, 22, 4299.	6.7	26
107	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
108	Direct-writing colloidal photonic crystal microfluidic chips by inkjet printing for label-free protein detection. <i>Lab on A Chip</i> , 2012, 12, 3089.	6.0	95

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109	Bioinspired Layered Composites Based on Flattened Double-Walled Carbon Nanotubes. <i>Advanced Materials</i> , 2012, 24, 1838-1843.	21.0	137
110	Flexible Au nanoparticle arrays induced metal-enhanced fluorescence towards pressure sensors. <i>Journal of Materials Chemistry</i> , 2011, 21, 5234.	6.7	24
111	Bio-inspired anisotropic micro/nano-surface from a natural stamp: grasshopper wings. <i>Soft Matter</i> , 2011, 7, 7973.	2.7	25
112	Janus interface materials: superhydrophobic air/solid interface and superoleophobic water/solid interface inspired by a lotus leaf. <i>Soft Matter</i> , 2011, 7, 5948.	2.7	203
113	Highly reflective superhydrophobic white coating inspired by poplar leaf hairs toward an effective "cool roof". <i>Energy and Environmental Science</i> , 2011, 4, 3364.	30.8	57
114	Highly effective protein detection for avidin-biotin system based on colloidal photonic crystals enhanced fluoroimmunoassay. <i>Biosensors and Bioelectronics</i> , 2011, 26, 2165-2170.	10.1	60
115	Reversibly phototunable TiO ₂ photonic crystal modulated by Ag nanoparticles' oxidation/reduction. <i>Applied Physics Letters</i> , 2011, 98, .	3.3	13
116	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.	2.3	6
117	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
118	The Structural Color of Red Rose Petals and Their Duplicates. <i>Langmuir</i> , 2010, 26, 14885-14888.	3.5	71
119	Enhancement of photochemical hydrogen evolution over Pt-loaded hierarchical titania photonic crystal. <i>Energy and Environmental Science</i> , 2010, 3, 1503.	30.8	139
120	Hierarchically Macro-/Mesoporous Ti ^{IV} /Si Oxides Photonic Crystal with Highly Efficient Photocatalytic Capability. <i>Environmental Science & Technology</i> , 2009, 43, 9425-9431.	10.0	97
121	Nanostructural effects on optical properties of tungsten inverse opal. <i>Applied Physics A: Materials Science and Processing</i> , 2008, 93, 489-493.	2.3	5
122	Ultrasensitive DNA Detection Using Photonic Crystals. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 7258-7262.	13.8	160
123	Energy transfer boosted by photonic crystals with metal film patterns. <i>Applied Physics Letters</i> , 2007, 91, 203516.	3.3	7
124	Coherent control of spontaneous emission by photonic crystals. <i>Chemical Physics Letters</i> , 2007, 444, 287-291.	2.6	16
125	Fabrication of tunable colloid crystals from amine-terminated polyamidoamine dendrimers. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2006, 290, 233-238.	4.7	7
126	Recent advances in photonic crystal sensors. <i>Scientia Sinica Chimica</i> , 0, , .	0.4	0

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127	Directional Laser From Solution-grown Grating-patterned Perovskite Single-crystal Microdisks. Angewandte Chemie, 0, , .	2.0	0
128	Graphdiyne Nanospheres as a Wettability and Electron Modifier for Enhanced Hydrogenation Catalysis. Angewandte Chemie, 0, , .	2.0	8