

A polydimethylsiloxane-coated metal structure for all-c

Nature Sustainability

2, 718-724

DOI: [10.1038/s41893-019-0348-5](https://doi.org/10.1038/s41893-019-0348-5)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Passive cooling in an urban setting. <i>Nature Sustainability</i> , 2019, 2, 663-664.	11.5	16
2	The super-cool materials that send heat to space. <i>Nature</i> , 2020, 577, 18-20.	13.7	61
3	Transparent Polymer Coatings for Energy-Efficient Daytime Window Cooling. <i>Cell Reports Physical Science</i> , 2020, 1, 100231.	2.8	36
4	Review on passive daytime radiative cooling: Fundamentals, recent researches, challenges and opportunities. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 133, 110263.	8.2	84
5	Climate change effect on the cooling performance and assessment of passive daytime photonic radiative cooler in India. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 134, 110303.	8.2	14
6	Environmental effect on the performance of passive daytime photonic radiative cooling and building energy-saving potential. <i>Journal of Cleaner Production</i> , 2020, 274, 123119.	4.6	36
7	Transparent nanocellulose metamaterial enables controlled optical diffusion and radiative cooling. <i>Journal of Materials Chemistry C</i> , 2020, 8, 11687-11694.	2.7	45
8	Universal strategy for all-weather and all-terrain radiative cooling with non-reciprocal mid-infrared windows. <i>Solar Energy</i> , 2020, 207, 471-478.	2.9	18
9	Integration of daytime radiative cooling and solar heating for year-round energy saving in buildings. <i>Nature Communications</i> , 2020, 11, 6101.	5.8	188
10	Multispectral Thermal Management Designs for Net-Zero Energy Buildings. , 2020, 2, 1624-1643.		50
11	Keep Cool: Polyhedral ZnO@ZIF-8 Polymer Coatings for Daytime Radiative Cooling. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 15226-15232.	1.8	26
12	Switching of heating and cooling modes using thermal radiation films. <i>Current Applied Physics</i> , 2020, 20, 1073-1079.	1.1	6
13	On the energy potential of daytime radiative cooling for urban heat island mitigation. <i>Solar Energy</i> , 2020, 208, 430-444.	2.9	33
14	A Janus emitter for passive heat release from enclosures. <i>Science Advances</i> , 2020, 6, .	4.7	116
15	Plasmon-Enhanced Infrared Emission Approaching the Theoretical Limit of Radiative Cooling Ability. <i>Nano Letters</i> , 2020, 20, 6974-6980.	4.5	57
16	Scalable On-Chip Radiative Coolers for Concentrated Solar Energy Devices. <i>ACS Photonics</i> , 2020, 7, 2748-2755.	3.2	21
17	Ultrahigh emissivity of grating-patterned PDMS film from 8 to 13 μm wavelength regime. <i>Applied Physics Letters</i> , 2020, 117, .	1.5	52
18	Reflectivity of solid and hollow microsphere composites and the effects of uniform and varying diameters. <i>Journal of Applied Physics</i> , 2020, 128, .	1.1	20

#	ARTICLE	IF	CITATIONS
19	Cross-Linked Porous Polymeric Coating without a Metal-Reflective Layer for Sub-Ambient Radiative Cooling. ACS Applied Materials & Interfaces, 2020, 12, 57832-57839.	4.0	56
20	Flexible Transparent Heat Mirror for Thermal Applications. Nanomaterials, 2020, 10, 2479.	1.9	4
21	Implementation of Passive Radiative Cooling Technology in Buildings: A Review. Buildings, 2020, 10, 215.	1.4	17
22	Highly Solar-Reflective Structures for Daytime Radiative Cooling under High Humidity. ACS Applied Materials & Interfaces, 2020, 12, 51409-51417.	4.0	88
23	Multilayered SiO ₂ /Si ₃ N ₄ photonic emitter to achieve high-performance all-day radiative cooling. Solar Energy Materials and Solar Cells, 2020, 212, 110584.	3.0	98
24	Bioinspired "e-Skin" with Cooperative Thermo-Optical Effect for Daytime Radiative Cooling. ACS Applied Materials & Interfaces, 2020, 12, 25286-25293.	4.0	84
25	Low-cost radiative cooling blade coating with ultrahigh visible light transmittance and emission within an "atmospheric window". Solar Energy Materials and Solar Cells, 2020, 213, 110563.	3.0	59
26	Doped semiconductor nanoparticles for possible daytime radiative cooling applications. Semiconductor Science and Technology, 2020, 35, 075018.	1.0	3
27	Biologically inspired flexible photonic films for efficient passive radiative cooling. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 14657-14666.	3.3	260
28	Directional and Spectral Control of Thermal Emission and Its Application in Radiative Cooling and Infrared Light Sources. Physical Review Applied, 2020, 13, .	1.5	16
29	Smart Textile-Based Personal Thermal Comfort Systems: Current Status and Potential Solutions. Advanced Materials Technologies, 2020, 5, 1901155.	3.0	82
30	High-Performance Multilayer Radiative Cooling Films Designed with Flexible Hybrid Optimization Strategy. Materials, 2020, 13, 2885.	1.3	21
31	Passive daytime radiative cooling: Principle, application, and economic analysis. MRS Energy & Sustainability, 2020, 7, 1.	1.3	31
32	A simulation study for comparing the cooling performance of different daytime radiative cooling materials. Solar Energy Materials and Solar Cells, 2020, 209, 110459.	3.0	25
33	Spectrally Selective Inorganic-Based Multilayer Emitter for Daytime Radiative Cooling. ACS Applied Materials & Interfaces, 2020, 12, 8073-8081.	4.0	195
34	Bulk material based selective infrared emitter for sub-ambient daytime radiative cooling. Solar Energy Materials and Solar Cells, 2020, 211, 110548.	3.0	37
35	High-temperature infrared camouflage with efficient thermal management. Light: Science and Applications, 2020, 9, 60.	7.7	187
36	Colored Radiative Cooling Coatings with Nanoparticles. ACS Photonics, 2020, 7, 1312-1322.	3.2	91

#	ARTICLE	IF	CITATIONS
37	Theoretical and experimental research towards the actual application of sub-ambient radiative cooling. <i>Solar Energy Materials and Solar Cells</i> , 2021, 220, 110826.	3.0	12
38	Scalable and hierarchically designed polymer film as a selective thermal emitter for high-performance all-day radiative cooling. <i>Nature Nanotechnology</i> , 2021, 16, 153-158.	15.6	405
39	Recent advances in the development of radiative sky cooling inspired from solar thermal harvesting. <i>Nano Energy</i> , 2021, 81, 105611.	8.2	36
40	Self-cleaning and spectrally selective coating on cotton fabric for passive daytime radiative cooling. <i>Chemical Engineering Journal</i> , 2021, 407, 127104.	6.6	84
41	Optimization and performance analysis of a multilayer structure for daytime radiative cooling. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2021, 260, 107475.	1.1	16
42	Nighttime Radiative Cooling for Water Harvesting from Solar Panels. <i>ACS Photonics</i> , 2021, 8, 269-275.	3.2	41
43	Spectrally Selective Absorbers/Emitters for Solar Steam Generation and Radiative Cooling-Enabled Atmospheric Water Harvesting. <i>Global Challenges</i> , 2021, 5, 2000058.	1.8	34
44	Simple dual-layer emitter for daytime radiative cooling. <i>OSA Continuum</i> , 2021, 4, 416.	1.8	10
45	A structural polymer for highly efficient all-day passive radiative cooling. <i>Nature Communications</i> , 2021, 12, 365.	5.8	287
46	Performance Assessment of a Promising Radiative Cooler for Cool Roofs via Simulation. <i>IOP Conference Series: Earth and Environmental Science</i> , 0, 631, 012103.	0.2	0
47	A double-sided radiative cooling architecture with a record local cooling power density of 270 W/m ² . , 2021, , .		0
48	Photonics Empowered Passive Radiative Cooling. <i>Advanced Photonics Research</i> , 2021, 2, 2000106.	1.7	20
49	Beyond the Visible: Bioinspired Infrared Adaptive Materials. <i>Advanced Materials</i> , 2021, 33, e2004754.	11.1	201
50	Hybrid concentrated radiative cooling and solar heating in a single system. <i>Cell Reports Physical Science</i> , 2021, 2, 100338.	2.8	33
51	Scalable Aqueous Processing-Enabled Passive Daytime Radiative Cooling Coatings. <i>Advanced Functional Materials</i> , 2021, 31, 2010334.	7.8	74
52	Designing Mesoporous Photonic Structures for High-Performance Passive Daytime Radiative Cooling. <i>Nano Letters</i> , 2021, 21, 1412-1418.	4.5	106
53	Vapor condensation with daytime radiative cooling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	86
54	Outdoor-Useable, Wireless/Battery-Free Patch-Type Tissue Oximeter with Radiative Cooling. <i>Advanced Science</i> , 2021, 8, 2004885.	5.6	50

#	ARTICLE	IF	CITATIONS
55	Investigating the Effect of Radiative Cooling on the Operating Temperature of Photovoltaic Modules. Solar Rrl, 2021, 5, 2000735.	3.1	30
56	Urban change as an untapped opportunity for climate adaptation. Npj Urban Sustainability, 2021, 1, .	3.7	49
57	Directional radiation for optimal radiative cooling. Optics Express, 2021, 29, 8376.	1.7	17
58	Multispectral camouflage for infrared, visible, lasers and microwave with radiative cooling. Nature Communications, 2021, 12, 1805.	5.8	184
59	Spectrally Selective Nanoparticle Mixture Coating for Passive Daytime Radiative Cooling. ACS Applied Materials & Interfaces, 2021, 13, 21119-21126.	4.0	71
60	Efficient Thin Polymer Coating as a Selective Thermal Emitter for Passive Daytime Radiative Cooling. ACS Applied Materials & Interfaces, 2021, 13, 24130-24137.	4.0	34
61	Superhydrophobic and Recyclable Cellulose-Fiber-Based Composites for High-Efficiency Passive Radiative Cooling. ACS Applied Materials & Interfaces, 2021, 13, 22521-22530.	4.0	98
62	Enhancing infrared emission behavior of polymer coatings for radiative cooling applications. Journal Physics D: Applied Physics, 2021, 54, 295501.	1.3	27
63	Performance evaluation of various strategies to improve sub-ambient radiative sky cooling. Renewable Energy, 2021, 169, 1305-1316.	4.3	19
64	Radiative cooling for dew condensation. International Journal of Heat and Mass Transfer, 2021, 172, 121160.	2.5	17
65	Scalable and Flexible Electrospun Film for Daytime Subambient Radiative Cooling. ACS Applied Materials & Interfaces, 2021, 13, 29558-29566.	4.0	67
66	Cover shields for sub-ambient radiative cooling: A literature review. Renewable and Sustainable Energy Reviews, 2021, 143, 110959.	8.2	47
67	Exploiting radiative cooling for uninterrupted 24-hour water harvesting from the atmosphere. Science Advances, 2021, 7, .	4.7	100
68	Construction of efficient passive radiative cooling emitter with selective emission in the whole atmospheric window and durable anti-contamination performance. Solar Energy Materials and Solar Cells, 2021, 224, 110998.	3.0	16
69	Energy saving potential of a fresh air pre-cooling system using radiative sky cooling. Building Simulation, 2022, 15, 167-178.	3.0	14
70	Expanding the applicability of daytime radiative cooling: Technological developments and limitations. Energy and Buildings, 2021, 243, 110990.	3.1	25
71	Design and Utilization of Infrared Light for Interfacial Solar Water Purification. ACS Energy Letters, 2021, 6, 2645-2657.	8.8	29
72	Bilayer porous polymer for efficient passive building cooling. Nano Energy, 2021, 85, 105971.	8.2	123

#	ARTICLE	IF	CITATIONS
73	The heat mitigation potential and climatic impact of super-cool broadband radiative coolers on a city scale. <i>Cell Reports Physical Science</i> , 2021, 2, 100485.	2.8	26
74	Suppressing Thermal Negative Effect and Maintaining High-Temperature Steady Electrical Performance of Triboelectric Nanogenerators by Employing Phase Change Material. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 41657-41668.	4.0	14
75	Contactless and spatially structured cooling by directing thermal radiation. <i>Scientific Reports</i> , 2021, 11, 16209.	1.6	5
76	Effective radiative cooling with ZrO ₂ /PDMS reflective coating. <i>Solar Energy Materials and Solar Cells</i> , 2021, 229, 111129.	3.0	50
77	Bio-inspired structure using random, three-dimensional pores in the polymeric matrix for daytime radiative cooling. <i>Solar Energy Materials and Solar Cells</i> , 2021, 227, 111101.	3.0	33
78	Reflective and transparent cellulose-based passive radiative coolers. <i>Cellulose</i> , 2021, 28, 9383-9393.	2.4	42
79	Experimental development and testing of low-cost scalable radiative cooling materials for building applications. <i>Solar Energy Materials and Solar Cells</i> , 2021, 230, 111209.	3.0	29
80	A rigid spectral selective cover for integrated solar heating and radiative sky cooling system. <i>Solar Energy Materials and Solar Cells</i> , 2021, 230, 111270.	3.0	7
81	Superhydrophobic porous film for daytime radiative cooling. <i>Applied Materials Today</i> , 2021, 24, 101100.	2.3	45
82	Bioinspired Radiative Cooling Structure with Randomly Stacked Fibers for Efficient All-Day Passive Cooling. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 43387-43395.	4.0	39
83	Effective daytime radiative cooling via a template method based PDMS sponge emitter with synergistic thermo-optical activity. <i>Solar Energy Materials and Solar Cells</i> , 2021, 230, 111205.	3.0	31
84	Potential building energy savings by passive strategies combining daytime radiative coolers and thermochromic smart windows. <i>Case Studies in Thermal Engineering</i> , 2021, 28, 101517.	2.8	21
85	Review of radiative cooling materials: Performance evaluation and design approaches. <i>Nano Energy</i> , 2021, 88, 106259.	8.2	129
86	A flexible and scalable solution for daytime passive radiative cooling using polymer sheets. <i>Energy and Buildings</i> , 2021, 252, 111400.	3.1	22
87	A membrane reflector, polymer hybrid infrared emitter for better radiative cooling performance. <i>Solar Energy Materials and Solar Cells</i> , 2022, 234, 111417.	3.0	6
88	A Triple-Mode Mid-infrared Modulator for All-Surface Radiative Thermal Management. , 2021, , .		0
89	Easy Way to Achieve Self-Adaptive Cooling of Passive Radiative Materials. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 27241-27248.	4.0	46
90	Spectrally selective filter design for passive radiative cooling. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2020, 37, 1173.	0.9	23

#	ARTICLE	IF	CITATIONS
91	Maximal nighttime electrical power generation via optimal radiative cooling. <i>Optics Express</i> , 2020, 28, 25460.	1.7	47
92	Bio-skin inspired 3D porous cellulose/AlPO ₄ nano-laminated film with structure-enhanced selective emission for all-day non-power cooling. <i>Journal of Materials Chemistry A</i> , 2021, 9, 25178-25188.	5.2	15
93	Multi-bioinspired self-cleaning energy-free cooling coatings. <i>Journal of Materials Chemistry A</i> , 2021, 9, 24276-24282.	5.2	77
94	Thermally Optically Designed Scalable Photonic Films with High Thermal Conductivity for Subambient and Above-Ambient Radiative Cooling. <i>Advanced Functional Materials</i> , 2022, 32, 2109542.	7.8	91
95	Highly Sunlight Reflective and Infrared Semi-Transparent Nanomesh Textiles. <i>ACS Nano</i> , 2021, 15, 15962-15971.	7.3	44
96	Colorful surfaces for radiative cooling. <i>Journal of Photonics for Energy</i> , 2021, 11, .	0.8	21
97	Boosting daytime radiative cooling performance with nanoporous polyethylene film. <i>Energy and Built Environment</i> , 2023, 4, 131-139.	2.9	9
98	Sustainable and Inexpensive Polydimethylsiloxane Sponges for Daytime Radiative Cooling. <i>Advanced Science</i> , 2021, 8, e2102502.	5.6	68
99	Ultra-Wideband Transparent Conductive Electrode for Electrochromic Synergistic Solar and Radiative Heat Management. <i>ACS Energy Letters</i> , 2021, 6, 3906-3915.	8.8	56
100	Cooling performance of porous polymer radiative coating under different environmental conditions throughout all-year. <i>Solar Energy</i> , 2021, 228, 474-485.	2.9	25
101	Passive daytime radiative cooling: Fundamentals, material designs, and applications. <i>EcoMat</i> , 2022, 4, e12153.	6.8	56
102	Transparent radiative cooling films containing poly(methylmethacrylate), silica, and silver. <i>Optical Materials</i> , 2021, 122, 111651.	1.7	21
103	Cooling the Earth: a polymer-based selective thermal emitter for all-day radiative cooling. <i>Science China Chemistry</i> , 2021, 64, 339-340.	4.2	4
104	Flexible Polymer Photonic Films with Embedded Microvoids for High-Performance Passive Daytime Radiative Cooling. <i>ACS Photonics</i> , 2021, 8, 3301-3307.	3.2	30
105	Universal Experimental Methods for Evaluating the Performance of Radiative Cooling Materials. <i>Advanced Materials Technologies</i> , 2022, 7, 2101205.	3.0	3
106	A weather-resistant daytime radiative cooler based on fluorocarbon resin. <i>Solar Energy Materials and Solar Cells</i> , 2022, 235, 111486.	3.0	7
107	Homogeneous Polymer Films for Passive Daytime Cooling: Optimized Thickness for Maximized Cooling Performance. <i>Advanced Energy and Sustainability Research</i> , 2022, 3, 2100166.	2.8	6
108	Do-it-yourself radiative cooler as a radiative cooling standard and cooling component for device design. <i>Journal of Photonics for Energy</i> , 2021, 12, .	0.8	5

#	ARTICLE	IF	CITATIONS
109	Scalable Titanium Dioxide-Free Coatings for Self-Adaptive Passive Radiative Cooling and Heating. SSRN Electronic Journal, 0, , .	0.4	0
110	Performance evaluation of radiative cooling for commercial-scale warehouse. Materials Today Energy, 2022, 24, 100927.	2.5	13
111	Urban overheating mitigation through facades: the role of new and innovative cool coatings. , 2022, , 61-87.		1
112	A self-cleaning architecture in cold vapor generation system for hypersaline brines. EcoMat, 2022, 4, .	6.8	12
113	Radiative cooling technologies: a platform for passive heat dissipation. Journal of the Korean Physical Society, 2022, 81, 481-489.	0.3	2
114	Interfacial Solar Steam/Vapor Generation for Heating and Cooling. Advanced Science, 2022, 9, e2104181.	5.6	42
115	Flexible composite film with artificial opal photonic crystals for efficient all-day passive radiative cooling. Optics Express, 2022, 30, 6003.	1.7	2
116	Thermal management of polymer electrolyte membrane fuel cells: A critical review of heat transfer mechanisms, cooling approaches, and advanced cooling techniques analysis. Energy Conversion and Management, 2022, 254, 115221.	4.4	62
117	Concentrated radiative cooling. Applied Energy, 2022, 310, 118368.	5.1	18
118	Fabrication of superhydrophobic P(VDF-HFP)/SiO ₂ composite film for stable radiative cooling. Composites Science and Technology, 2022, 220, 109279.	3.8	41
119	Anti-Greenhouse Effect via Regulation of Surface Emissivity. IEEE Photonics Journal, 2022, 14, 1-7.	1.0	3
120	Photonics and thermodynamics concepts in radiative cooling. Nature Photonics, 2022, 16, 182-190.	15.6	187
121	Protecting ice from melting under sunlight via radiative cooling. Science Advances, 2022, 8, eabj9756.	4.7	80
122	Droplet effect on the infrared transmittance of radiative cooler for direct water condensation. Solar Energy Materials and Solar Cells, 2022, 238, 111615.	3.0	12
123	Deep Learning for the Modeling and Inverse Design of Radiative Heat Transfer. Physical Review Applied, 2021, 16, .	1.5	20
124	Temperature-adaptive radiative coating for all-season household thermal regulation. Science, 2021, 374, 1504-1509.	6.0	251
125	Scalable thermochromic smart windows with passive radiative cooling regulation. Science, 2021, 374, 1501-1504.	6.0	339
126	Cooling capacity evaluation of passive radiation cooling materials. Journal of Physics: Conference Series, 2022, 2200, 012021.	0.3	0

#	ARTICLE	IF	CITATIONS
127	Recent Progress in Daytime Radiative Cooling: Advanced Material Designs and Applications. Small Methods, 2022, 6, e2101379.	4.6	53
128	Scalable and waterborne titanium-dioxide-free thermochromic coatings for self-adaptive passive radiative cooling and heating. Cell Reports Physical Science, 2022, 3, 100782.	2.8	36
129	Anisotropic absorber and tunable source of MIR radiation based on a black phosphorus-SiC metasurface. Photonics and Nanostructures - Fundamentals and Applications, 2022, 50, 101020.	1.0	16
130	Investigation of polyesters as daytime radiative cooling materials. Molecular Crystals and Liquid Crystals, 0, , 1-7.	0.4	0
131	All-Color Sub-ambient Radiative Cooling Based on Photoluminescence. ACS Photonics, 2022, 9, 1196-1205.	3.2	21
132	Internal thermal mass for passive cooling and ventilation: adaptive comfort limits, ideal quantities, embodied carbon. Buildings and Cities, 2022, 3, 42.	1.1	2
133	Cost effective 24-h radiative cooler with multiphase interface enhanced solar scattering and thermal emission. Materials Today Communications, 2022, 31, 103398.	0.9	7
134	Highly optically selective polyethylene porous films as versatile optical shields for daytime radiative cooling applications. Solar Energy Materials and Solar Cells, 2022, 240, 111727.	3.0	14
135	A hierarchically structured self-cleaning energy-free polymer film for daytime radiative cooling. Chemical Engineering Journal, 2022, 442, 136239.	6.6	60
136	Enhanced Condensation on Soft Materials through Bulk Lubricant Infusion. Advanced Functional Materials, 2022, 32, .	7.8	10
137	Near infrared photothermoelectric effect in transparent AZO/ITO/Ag/ITO thin films. Scientific Reports, 2021, 11, 24313.	1.6	8
138	Concentrated radiative cooling and its constraint from reciprocity. Optics Express, 2022, 30, 275.	1.7	12
139	Determining the Effectiveness of Radiative Coolerâ€Integrated Solar Cells. Advanced Energy Materials, 2022, 12, .	10.2	19
140	Coloured low-emissivity films for building envelopes for year-round energy savings. Nature Sustainability, 2022, 5, 339-347.	11.5	80
141	Uninterrupted Selfâ€Generation Thermoelectric Power Device Based on the Radiative Cooling Emitter and Solar Selective Absorber. Solar Rrl, 2022, 6, .	3.1	8
142	A self-adaptive film for passive radiative cooling and solar heating regulation. Journal of Materials Chemistry A, 2022, 10, 11092-11100.	5.2	36
143	Commercialâ€Like Selfâ€Cleaning Colored ZrO₂â€Based Bilayer Coating for Remarkable Daytime Subâ€Ambient Radiative Cooling. Advanced Materials Technologies, 2022, 7, .	3.0	20
144	Radiative Cooling and Solar Heating Janus Films for Personal Thermal Management. ACS Applied Materials & Interfaces, 2022, 14, 18877-18883.	4.0	41

#	ARTICLE	IF	CITATIONS
145	Radiative cooling for buildings: A review of techno-enviro-economics and life-cycle assessment methods. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 162, 112415.	8.2	31
146	Colored Radiative Cooling Coatings Using Phosphor Dyes. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
147	Processing Bulk Wood into a Light-Permeable Passive Radiative Cooling Material for Energy-Efficient Building. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
148	High-performance see-through power windows. <i>Energy and Environmental Science</i> , 2022, 15, 2629-2637.	15.6	51
149	Sustainable and self-cleaning bilayer coatings for high-efficiency daytime radiative cooling. <i>Journal of Materials Chemistry C</i> , 2022, 10, 8329-8338.	2.7	14
150	Water Harvesting from Air: Current Passive Approaches and Outlook. , 2022, 4, 1003-1024.		51
151	Color-preserving passive radiative cooling for an actively temperature-regulated enclosure. <i>Light: Science and Applications</i> , 2022, 11, 122.	7.7	56
152	Scalable Superhydrophobic Flexible Nanofiber Film for Passive Daytime Radiative Cooling. <i>ACS Applied Polymer Materials</i> , 2022, 4, 3343-3351.	2.0	20
153	Iridescent Daytime Radiative Cooling with No Absorption Peaks in the Visible Range. <i>Small</i> , 2022, 18, e2202400.	5.2	42
154	Hierarchical-Morphology Metal/Polymer Heterostructure for Scalable Multimodal Thermal Management. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 24755-24765.	4.0	10
155	A dual-layer polymer-based film for all-day sub-ambient radiative sky cooling. <i>Energy</i> , 2022, 254, 124350.	4.5	18
156	Eco-friendly preparation of durable superhydrophobic porous film for daytime radiative cooling. <i>Journal of Materials Science</i> , 2022, 57, 10425-10443.	1.7	9
157	3D sustainable polysiloxane/ZnO hybrid membrane with enhanced reflectivity and flame retardancy for daytime radiative cooling. <i>Optical Materials</i> , 2022, 129, 112472.	1.7	4
158	Colored Radiative Cooling Coatings Using Phosphor Dyes. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
159	Rationally Tuning Phase Separation in Polymeric Membranes toward Optimized All-day Passive Radiative Coolers. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 27222-27232.	4.0	11
160	Dynamic radiation regulations for thermal comfort. <i>Nano Energy</i> , 2022, 100, 107435.	8.2	49
161	Scalable Colored Sub-Ambient Radiative Coolers Based on a Polymer-Tamm Photonic Structure. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
162	Heat-shedding with photonic structures: radiative cooling and its potential. <i>Journal of Materials Chemistry C</i> , 2022, 10, 9915-9937.	2.7	15

#	ARTICLE	IF	CITATIONS
163	Colored radiative cooling coatings using phosphor dyes. <i>Materials Today Nano</i> , 2022, 19, 100239.	2.3	15
164	Photonic-Structure Colored Radiative Coolers for Daytime Subambient Cooling. <i>Nano Letters</i> , 2022, 22, 4925-4932.	4.5	46
165	All-day continuous electrical power generator by solar heating and radiative cooling from the sky. <i>Applied Energy</i> , 2022, 322, 119403.	5.1	16
166	Development of temperature-responsive transmission switch film (TRTSF) using phase change material for self-adaptive radiative cooling. <i>Applied Energy</i> , 2022, 322, 119457.	5.1	9
167	All-day radiative cooling using a grating-patterned PDMS film emitter. <i>Applied Thermal Engineering</i> , 2022, 214, 118771.	3.0	13
168	Recyclable, UV-Blocking, and Radiative Cooling Multifunctional Composite Membranes. <i>ACS Omega</i> , 2022, 7, 25244-25252.	1.6	3
169	Electrospun poly(vinyl alcohol)/silica film for radiative cooling. <i>Advanced Composites and Hybrid Materials</i> , 2022, 5, 1966-1975.	9.9	40
170	CaCO ₃ micro particle-based radiative cooling device without metal reflector for entire day. <i>Materials Today Communications</i> , 2022, 32, 103990.	0.9	7
171	Highly solar reflectance and infrared transparent porous coating for non-contact heat dissipations. <i>IScience</i> , 2022, 25, 104726.	1.9	16
172	A full-spectrum synergetic management strategy for passive cooling of solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2022, 245, 111860.	3.0	8
173	Bio-Inspired Anti-Icing Material as an Energy-Saving Design toward Sustainable Ice Repellency. <i>Advanced Materials Technologies</i> , 2022, 7, .	3.0	8
174	A tailored indoor setup for reproducible passive daytime cooling characterization. <i>Cell Reports Physical Science</i> , 2022, 3, 100986.	2.8	5
175	Cherimoya-like polysilsequioxane microspheres with structure-enhanced spectral capability for passive daytime radiative cooling. <i>Materials Today Communications</i> , 2022, 32, 104096.	0.9	1
176	Designing a self-classifying smart device with sensor, display, and radiative cooling functions via spectrum-selective response. <i>Nanoscale Horizons</i> , 2022, 7, 1087-1094.	4.1	3
177	Minimizing solar absorption losses in TiO ₂ particles-based passive daytime radiative cooling coatings. , 2022, , .		0
178	Fiber-spinning Asymmetric Assembly for Janus-structured Bifunctional Nanofiber Films towards All-Weather Smart Textile. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	4
179	Fiber-spinning Asymmetric Assembly for Janus-structured Bifunctional Nanofiber Films towards All-Weather Smart Textile. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	17
180	Micro-Nano Porous Structure for Efficient Daytime Radiative Sky Cooling. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	37

#	ARTICLE	IF	CITATIONS
181	Angularly selective thermal emitters for deep subfreezing daytime radiative cooling. <i>Nanophotonics</i> , 2022, 11, 3709-3717.	2.9	12
182	All-day thermoelectric power generation beyond 10^2 regime via radiative heat exchange with space and water-based heat storage. <i>Applied Physics Letters</i> , 2022, 121, .	1.5	2
183	A tandem radiative/evaporative cooler for weather-insensitive and high-performance daytime passive cooling. <i>Science Advances</i> , 2022, 8, .	4.7	62
184	Nonreciprocal Thermal Photonics for Energy Conversion and Radiative Heat Transfer. <i>Physical Review Applied</i> , 2022, 18, .	1.5	33
185	Radiative-cooling-based nighttime electricity generation with power density exceeding 100 mW/m ² . <i>IScience</i> , 2022, 25, 104858.	1.9	15
186	Durable radiative cooling against environmental aging. <i>Nature Communications</i> , 2022, 13, .	5.8	91
187	Thermal radiative switching interface for energy-efficient temperature control. <i>Renewable Energy</i> , 2022, 197, 574-582.	4.3	10
188	Quantitative characterization of the effect of inclination angle on flat-plate radiative cooling performance in buildings. <i>Journal of Building Engineering</i> , 2022, 59, 105124.	1.6	2
189	Colored passive daytime radiative cooling coatings based on dielectric and plasmonic spheres. <i>Applied Thermal Engineering</i> , 2022, 216, 119125.	3.0	16
190	Self-assembling hierarchical flexible cellulose films assisted by electrostatic field for passive daytime radiative cooling. <i>Chemical Engineering Journal</i> , 2023, 451, 138558.	6.6	18
191	Intelligent radiative thermostat induced by near-field radiative thermal diode. <i>Materials Today Physics</i> , 2022, 27, 100828.	2.9	6
192	An easily prepared and long-term effective cooling coating that can be cooled to sub-ambient temperature without polyethylene film. <i>Solar Energy</i> , 2022, 246, 1-13.	2.9	4
193	Assembling graphene aerogel hollow fibres for solar steam generation. <i>Composites Communications</i> , 2022, 35, 101302.	3.3	7
194	Thermal camouflage device with efficient thermal management. <i>International Journal of Heat and Mass Transfer</i> , 2022, 198, 123402.	2.5	2
195	A Recyclable, Up-Scalable and Eco-Friendly Radiative Cooling Material for All-Day Sub-Ambient Comfort. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
196	Infrared-Reflective Transparent Hyperbolic Metamaterials for Use in Radiative Cooling Windows. <i>Advanced Functional Materials</i> , 2023, 33, .	7.8	21
197	Radiative cooling for passive thermal management towards sustainable carbon neutrality. <i>National Science Review</i> , 2023, 10, .	4.6	41
198	Radiative cooling for energy sustainability: Materials, systems, and applications. <i>Physical Review Materials</i> , 2022, 6, .	0.9	10

#	ARTICLE	IF	CITATIONS
199	An Ultrathin Transparent Radiative Cooling Photonic Structure with a High NIR Reflection. <i>Advanced Materials Interfaces</i> , 2022, 9, .	1.9	13
200	A review of the development of colored radiative cooling surfaces. <i>Carbon Capture Science & Technology</i> , 2022, 4, 100066.	4.9	9
201	Janus Helical Ribbon Structure of Ordered Nanowire Films for Flexible Solar Thermoelectric Devices. <i>Advanced Materials</i> , 2022, 34, .	11.1	27
202	Bioinspired Stable Single-Layer Janus Fabric with Directional Water/Moisture Transport Property for Integrated Personal Cooling Management. <i>Advanced Fiber Materials</i> , 2023, 5, 138-153.	7.9	29
203	Nanoparticle-polymer hybrid dual-layer coating with broadband solar reflection for high-performance daytime passive radiative cooling. <i>Energy and Buildings</i> , 2022, 276, 112507.	3.1	11
204	Î±-MoO ₃ â€“SiC metasurface for mid-IR directional propagation of phonon polaritons and passive daytime radiative cooling. <i>Applied Physics Letters</i> , 2022, 121, .	1.5	9
205	<i>In Situ</i> Combustion Synthesis of Gr/<i>h</i>-BN Composites and Its Passive Heat Dissipation Application. <i>ACS Omega</i> , 2022, 7, 36786-36794.	1.6	2
206	A recyclable, up-scalable and eco-friendly radiative cooling material for all-day sub-ambient comfort. <i>Chemical Engineering Journal</i> , 2023, 455, 139786.	6.6	17
207	Green-Manufactured and Recyclable Coatings for Subambient Daytime Radiative Cooling. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 46972-46979.	4.0	14
208	Superâ€“Largeâ€“Scale Hierarchically Porous Films Based on Selfâ€“Assembled Eyeâ€“Like Air Pores for Highâ€“Performance Daytime Radiative Cooling. <i>Small</i> , 2022, 18, .	5.2	15
209	High-Performance Transparent Radiative Cooler Designed by Quantum Computing. <i>ACS Energy Letters</i> , 2022, 7, 4134-4141.	8.8	24
210	Potential passive cooling methods based on radiation controls in buildings. <i>Energy Conversion and Management</i> , 2022, 272, 116342.	4.4	17
211	A numerical approach to evaluate the personal radiative thermal management of textiles part one: Mid-infrared transmittance, reflection and absorption. <i>Results in Physics</i> , 2022, 43, 106043.	2.0	3
212	A self-cleaning nanoparticle polymer hybrid cooling film in humid environment. <i>Energy and Buildings</i> , 2022, 277, 112579.	3.1	0
213	Emerging materials and engineering strategies for performance advance of radiative sky cooling technology. <i>Chemical Engineering Journal</i> , 2023, 453, 139739.	6.6	17
214	Weatherable, solvent-soluble, paintable and transparent fluoropolymers for daytime radiative cooling. <i>International Journal of Thermal Sciences</i> , 2023, 184, 107959.	2.6	1
215	A simple, accurate, and universal method for characterizing and comparing radiative cooling materials and devices. <i>International Journal of Heat and Mass Transfer</i> , 2023, 200, 123494.	2.5	6
216	Comprehensive evaluation and analysis of a porous polymer coating for highly efficient passive radiative cooling. <i>Solar Energy Materials and Solar Cells</i> , 2023, 250, 112081.	3.0	7

#	ARTICLE	IF	CITATIONS
217	Enhanced dew harvest with porous wind covers. <i>Solar Energy Materials and Solar Cells</i> , 2023, 250, 112099.	3.0	1
218	Salt-template-assisted melt-processed porous poly (vinylidene fluoride) nanocomposites for highly efficient all-day passive radiative cooling. <i>Composites Part A: Applied Science and Manufacturing</i> , 2023, 164, 107311.	3.8	9
219	Robust passive daytime radiative coolers based on thermally insulating and spectrally selective composite aerogels with designed fiber-reinforced porous architecture. <i>Solar Energy</i> , 2022, 247, 564-573.	2.9	6
220	Radiative cooling performance and life-cycle assessment of a scalable MgO paint for building applications. <i>Journal of Cleaner Production</i> , 2022, 380, 135035.	4.6	11
221	Impact of aging, precipitation, and orientation on performance of radiative cooling for building envelope: A field investigation. <i>Energy and Buildings</i> , 2023, 279, 112716.	3.1	5
222	Processing bulk wood into a light-permeable passive radiative cooling material for energy-efficient building. <i>Composites Part B: Engineering</i> , 2023, 250, 110426.	5.9	7
223	Scalable and all-season passive thermal modulation enabled by radiative cooling, selective solar absorption, and thermal retention. <i>Applied Thermal Engineering</i> , 2023, 221, 119707.	3.0	2
224	Recent Advances in Material Engineering and Applications for Passive Daytime Radiative Cooling. <i>Advanced Optical Materials</i> , 2023, 11, .	3.6	19
226	Cellulose-Based Radiative Cooling and Solar Heating Powers Ionic Thermoelectrics. <i>Advanced Science</i> , 2023, 10, .	5.6	16
227	Emerging Materials and Strategies for Passive Daytime Radiative Cooling. <i>Small</i> , 2023, 19, .	5.2	23
228	Phase Change Material Enhanced Radiative Cooler for Temperature-Adaptive Thermal Regulation. <i>ACS Nano</i> , 2023, 17, 1693-1700.	7.3	21
229	Dual-Mode Porous Polymeric Films with Coral-like Hierarchical Structure for All-Day Radiative Cooling and Heating. <i>ACS Nano</i> , 2023, 17, 2029-2038.	7.3	37
230	Superhydrophobic SiO ₂ Glass Bubbles Composite Coating for Stable and Highly Efficient Daytime Radiative Cooling. <i>ACS Applied Materials & Interfaces</i> , 2023, 15, 4799-4813.	4.0	9
231	Nanocomposite hydrogel for daytime passive cooling enabled by combined effects of radiative and evaporative cooling. <i>Chemical Engineering Journal</i> , 2023, 457, 141231.	6.6	25
232	A Scalable Heat Pump Film with Zero Energy Consumption. <i>Polymers</i> , 2023, 15, 159.	2.0	0
233	Scalable and flexible porous hybrid film as a thermal insulating subambient radiative cooler for energy-saving buildings. , 2023, 2, 20220063.		3
234	Localized Photoactuation of Polymer Pens for Nanolithography. <i>Molecules</i> , 2023, 28, 1171.	1.7	3
235	Dynamic electrochromism for all-season radiative thermoregulation. <i>Nature Sustainability</i> , 2023, 6, 428-437.	11.5	37

#	ARTICLE	IF	CITATIONS
236	Biodegradable, scalable and flexible fiber membrane for green passive radiative cooling. <i>Solar Energy Materials and Solar Cells</i> , 2023, 253, 112209.	3.0	9
237	Hierarchical Fabric Emitter for Highly Efficient Passive Radiative Heat Release. <i>Advanced Fiber Materials</i> , 2023, 5, 1367-1377.	7.9	1
238	Transparent, anti-corrosion and high broadband emission coating for zero energy consumption cooling technology. <i>Materials Today Physics</i> , 2023, 34, 101070.	2.9	1
239	Metal-free radiative cooling polymer films containing high bandgap materials employing a tandem approach. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2023, 298, 108495.	1.1	1
240	Quadruple-layer film for daytime radiative cooling in high humidity environments. <i>Optical Materials</i> , 2023, 136, 113473.	1.7	0
241	Electrical tuning of radiative cooling at ambient conditions. <i>Cell Reports Physical Science</i> , 2023, 4, 101274.	2.8	6
242	Zebra-inspired stretchable, biodegradable radiation modulator for all-day sustainable energy harvesters. <i>Science Advances</i> , 2023, 9, .	4.7	19
243	Polyethylene terephthalate-based colored emitters for efficient daytime radiative cooling. <i>Results in Physics</i> , 2023, 46, 106254.	2.0	2
244	Novel Passive Radiation Cooling Materials with High Emissivity Discovered by FDTD Method. <i>Energies</i> , 2023, 16, 1832.	1.6	0
245	A Review of Nanoparticle Material Coatings in Passive Radiative Cooling Systems Including Skylights. <i>Energies</i> , 2023, 16, 1975.	1.6	4
246	From Chitosan to Chitin: Bio-Inspired Thin Films for Passive Daytime Radiative Cooling. <i>Advanced Science</i> , 2023, 10, .	5.6	8
247	Translucent-Colored radiative coolers based on localized surface plasmon resonances for Energy-Efficient windows. <i>Solar Energy</i> , 2023, 253, 472-479.	2.9	1
248	Perspective on near-field radiative heat transfer. <i>Applied Physics Letters</i> , 2023, 122, .	1.5	10
249	Direct Measurement of Electrically Modulated Far-Field Thermal Infrared Emission and its Dynamics. <i>Physical Review Applied</i> , 2023, 19, .	1.5	1
250	Radiative-Cooling Composites with Enhanced Infrared Emissivity by Structural Infrared Scattering through Indium Tin Oxide Nanoparticles in a Polymer Matrix. <i>ACS Applied Materials & Interfaces</i> , 2023, 15, 16026-16033.	4.0	10
251	Structural Engineering of Hierarchical Aerogels Hybrid Networks for Efficient Thermal Comfort Management and Versatile Protection. <i>Small</i> , 2023, 19, .	5.2	9
252	Scalable Colored Subambient Radiative Coolers Based on a Polymer-Inspired Tamm Photonic Structure. <i>ACS Applied Materials & Interfaces</i> , 2023, 15, 16277-16287.	4.0	9
253	Superhydrophobic poly-4-methyl-1-pentene/polyvinylidene fluoride coating with excellent passive daytime radiation cooling performance. <i>Applied Physics A: Materials Science and Processing</i> , 2023, 129, .	1.1	3

#	ARTICLE	IF	CITATIONS
254	Switchable Kirigami Structures as Window Envelopes for Energy-Efficient Buildings. Research, 2023, 6, .	2.8	7
255	Low-cost and scalable sub-ambient radiative cooling porous films. Journal of Photonics for Energy, 2023, 13, .	0.8	4
256	All-day uninterrupted thermoelectric generator by simultaneous harvesting of solar heating and radiative cooling. Optics Express, 2023, 31, 14495.	1.7	3
257	Facile "Synergistic Inner"Outer Activation"Strategy for Nano"Engineering of Nature"Skin"Derived Wearable Daytime Radiation Cooling Materials. Small, 2023, 19, .	5.2	4
258	Engineering Structural Janus MXene"nanofibrils Aerogels for Season"Adaptive Radiative Thermal Regulation. Small, 2023, 19, .	5.2	13
259	Thermochromic Energy Efficient Windows: Fundamentals, Recent Advances, and Perspectives. Chemical Reviews, 2023, 123, 7025-7080.	23.0	28
260	Colloidal inorganic nano- and microparticles for passive daytime radiative cooling. Nano Convergence, 2023, 10, .	6.3	3
261	Universal Color Retrofit to Polymer-Based Radiative Cooling Materials. ACS Applied Materials & Interfaces, 0, , .	4.0	1
262	Effective Surface Modification of 2D MXene toward Thermal Energy Conversion and Management. Small Methods, 2023, 7, .	4.6	4
263	Bright-white hydrogels for on-demand passive cooling. Science China Chemistry, 2023, 66, 1511-1519.	4.2	3
264	Upcycling Chips"Bags for Passive Daytime Cooling. Advanced Materials Technologies, 0, , .	3.0	1
272	Radiative cooling paints. , 2023, , 393-419.		1
276	Thermally Conductive Radiative Cooling Polymer Composite for Outdoor Thermal Management. , 2023, , .		0
285	Photonic structures in radiative cooling. Light: Science and Applications, 2023, 12, .	7.7	28
288	Best practices for radiative cooling. Nature Sustainability, 2023, 6, 1030-1032.	11.5	7
304	Controllable-morphology polymer blend photonic metafoam for radiative cooling. Materials Horizons, 2023, 10, 5060-5070.	6.4	6
305	Promising thermal photonic management materials for sustainable human habitat. Nano Research, 2024, 17, 112-131.	5.8	1
347	Smart building block with colored radiative cooling devices and quantum dot light emitting diodes. Nanoscale, 2024, 16, 1664-1672.	2.8	0

#	ARTICLE	IF	CITATIONS
---	---------	----	-----------