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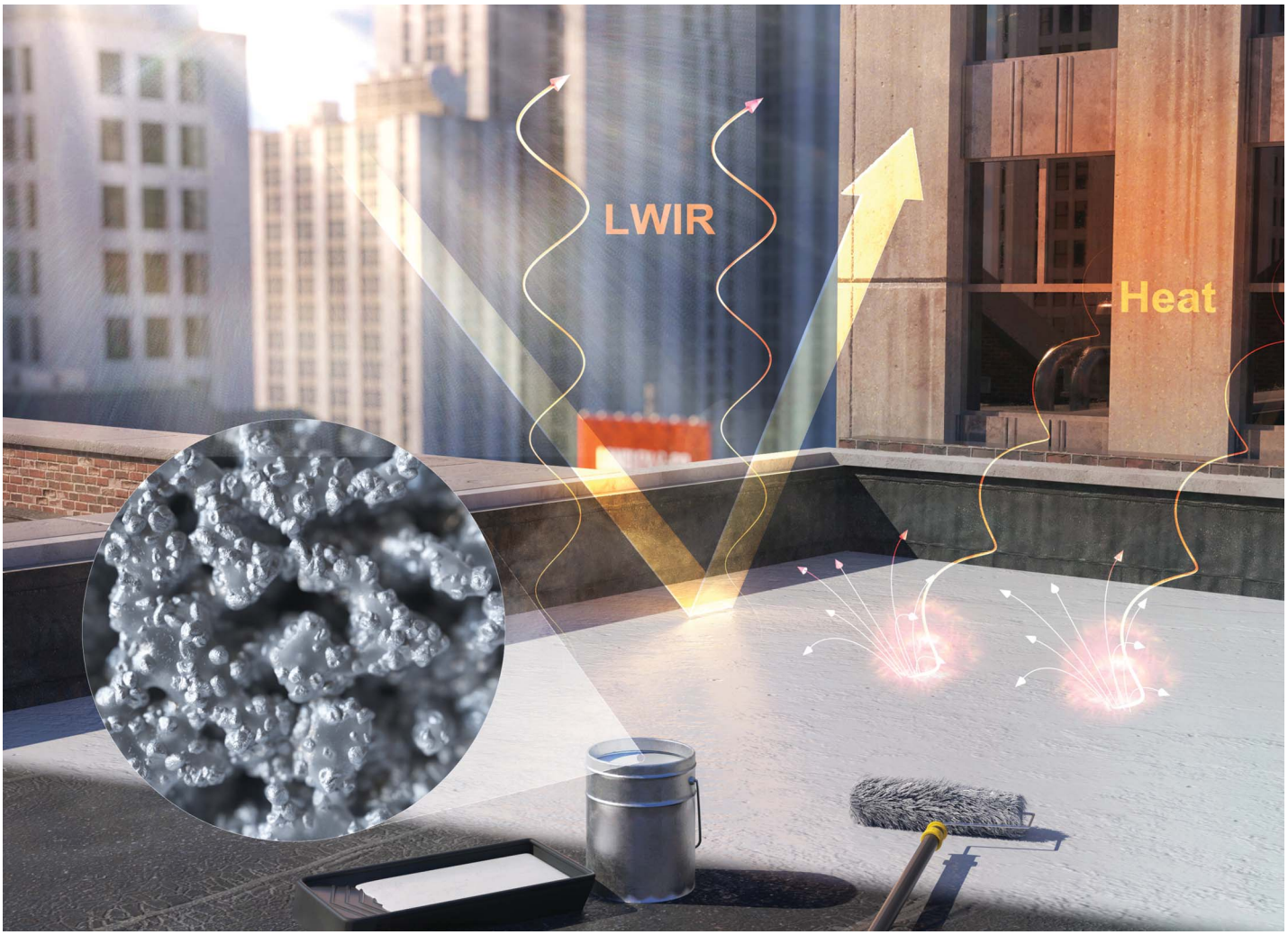
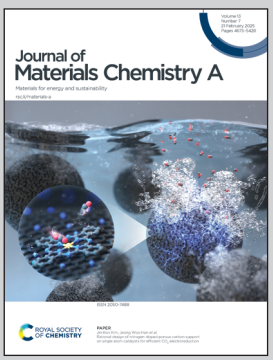


Showcasing research on CYTOP-based PDRC paint by a group of researchers led by Dr. Hyunho Park, Dr. Gumin Kang, and Dr. Jin Hong Kim from Nanophotonics Research Center, Korea Institute of Science and Technology, Seoul, Republic of Korea.

A hierarchically engineered polymer composite with a dual-scatter structure for enhanced passive radiative cooling

A perfluoropolymer-based nanostructured paint for passive daytime radiative cooling has been developed. The paint exhibits exceptionally high solar reflectance (98.2%) and infrared emittance (96.4%), attributed to the optimal chemical structure of the binding polymer and the nanovoid-Al_2O_3 dual-scatter nanostructure. Consequently, the paint achieves subambient surface cooling of 5.4 °C, outperforming commercial acrylic and alkyd white paints.

As featured in:



See Gumin Kang, Hyungduk Ko, Jin Hong Kim *et al.*, *J. Mater. Chem. A*, 2025, **13**, 4870.

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