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## 2023

**Polymer-dominant drag reduction in turbulent channel flow over a superhydrophobic surface.**

Zhang L, Garcia-Gonzalez RI, Crick CR, Ng HC-H and Poole RJ. *Physics of Fluids* vol. 35, (12).Aip Publishing.

**Investigating bio-based solvents as a sustainable alternative in the formulation and fabrication of superhydrophobic surfaces.**

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**In situ monitor of superhydrophobic surface degradation to predict its drag reduction in turbulent flow.**

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**Engineering Biofouling Resistant Materials Through the Systematic Adaptation of Surface Morphology.**

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## 2022

**Robust and durable liquid-repellent surfaces.**

Chen F, Wang Y, Tian Y, Zhang D, Song J, Crick CR, Carmalt CJ, Parkin IP and Lu Y. *Chemical Society Reviews* vol. 51, (20) 8476-8583.Royal Society of Chemistry.

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**Study on the Influence of Polymer/Particle Properties on the Resilience of Superhydrophobic Coatings.**

Mehanna YA and Crick CR. *Acs Omega* vol. 7, (21) 18052-18062.American Chemical Society (Acs).

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**The challenges, achievements and applications of submersible superhydrophobic materials.**

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**Heat-Treated Micronized Polyethylene Powder for Efficient Oil/Water Separating Filters.**

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**Pigmented self-cleaning coatings with enhanced UV resilience via the limitation of photocatalytic activity and its effects.**

Upton RL and Crick CR. *Molecular Systems Design & Engineering* vol. 5, (4) 876-881. *Royal Society of Chemistry*.

**A general formulation approach for the fabrication of water repellent materials: how composition can impact resilience and functionality.**

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**Fabrication of optimized oilwater separation devices through the targeted treatment of silica meshes.**

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### **The combinatorial atmospheric pressure chemical vapour deposition (cAPCVD) of a gradating substitutional/interstitial N-doped anatase TiO<sub>2</sub> thin-film; UVA and visible light photocatalytic activities.**

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### **Superhydrophobic polymer films via aerosol assisted deposition Taking a leaf out of nature's book.**

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