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## 2020

**Heat-treated micronized polyethylene powder for efficient oil/water separating filters.**

Mehanna YA and Crick CR. *Materials* vol. 13, (14).

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

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Mehanna YA, Upton RL and Crick CR. *Journal of Materials Chemistry A* vol. 7, (13) 7333-7337. *Royal Society of Chemistry*.

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**Covalently Attached Antimicrobial Surfaces Using BODIPY: Improving Efficiency and Effectiveness.**

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## 2017

**Low-Noise Plasmonic Nanopore Biosensors for Single Molecule Detection at Elevated Temperatures.**

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**Ambipolar Transport in Solution-Synthesized Graphene Nanoribbons.**

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**Self-Assembled Spherical Supercluster Metamaterials from Nanoscale Building Blocks.**

Turek VA, Francescato Y, Cadinu P, Crick CR, Elliott L, Chen Y, Umland V, Ivanov AP, Velleman L, Hong M, Vilar R, Maier SA, Giannini V and Edel JB. *Acs Photonics* vol. 3, (1) 35-42.

**Copper-based water repellent and antibacterial coatings by aerosol assisted chemical vapour deposition.**

Ozkan E, Crick CC, Taylor A, Allan E and Parkin IP. *Chemical Science* vol. 7, (8) 5126-5131.

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**Fabrication of optimized oil-water separation devices through the targeted treatment of silica meshes.**

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**Precise attoliter temperature control of nanopore sensors using a nanoplasmonic bullseye.**

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**Superhydrophobic surfaces as an on-chip microfluidic toolkit for total droplet control.**

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**An investigation into bacterial attachment to an elastomeric superhydrophobic surface prepared via aerosol assisted deposition.**

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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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