



Celebration of Success

Showcasing winning examples
of good practice from the

**2021 Chemical
Industry Awards**

CIA

CHEMICAL
INDUSTRIES
ASSOCIATION



MOF Technologies™
Adsorbent Nanomaterials



GSK Innovation Award

Winner: MOF Technologies, Belfast

Sponsor: GSK

This Award acknowledges the successful use and application of innovation within a business or across a supply chain to achieve tangible business results with clear societal impact.

The MOF Technologies vision is that every person, everywhere, will experience an improved quality of life thanks to Metal-Organic Framework, or MOF, enabled products. This is something the team has spent the last ten years working towards – bringing the incredible opportunities of MOFs to the real world. MOF Technologies take innovative organisations from ideation to commercialisation in a low risk, cost-effective and scalable way, using their unrivalled MOF-expertise, tried and tested co-development process, and now award-winning patented technology.

Metal-Organic Frameworks (MOFs) are a new class of ultra-porous, super adsorbents which have been making waves in the scientific arena for their unmatched affinity for gas separation, storage and delivery. MOFs intrinsic properties makes them the ideal materials to play a key role in transitioning to a greener tomorrow including their application in carbon capture, heat adsorption, hydrogen storage and battery applications. However, despite their potential, very few commercial MOF-based products exist. One of the main factors that held MOFs back from commercialisation is the ability to produce quality, cost-effective MOF material at industrial volumes.

MOF Technologies has used its deep MOF expertise and engineering prowess to overcome this challenge, developing their unique, patented manufacturing method for producing (MOFs) on a commercial scale. Their "Mechanochemical" manufacturing process does not just provide a cost-effective and consistently high-quality supply of MOFs at a ton scale, it is also environmentally friendly – an aspect that has brought industry recognition for sustainability.

"At MOF Technologies we are committed to the sustainable production of MOF materials, a new class of fine chemicals that enables the use of our planet's resources more efficiently. We are delighted for the recognition of our unique and innovative manufacturing method for producing MOFs that is simple, environmentally friendly, and affordable." Dr. Jose Casaban, CTO at MOF Technologies.

This manufacturing process, coupled with MOF Technologies' specialised MOF-knowledge, technology and skillset, has been pivotal in unlocking the power of MOFs, bringing the world's first commercial MOF-based product to life and developing exciting proofs of concepts and prototypes for various industries, ready to be launched into the real world.



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feel better
live longer**

We are a science-led global healthcare company with a special purpose to improve the quality of human life by helping people do more, feel better, live longer.

Every day, we help improve the health of millions of people around the world by discovering, developing and manufacturing innovative medicines, vaccines and

consumer healthcare products.

We aim to bring differentiated, high-quality and needed healthcare products to as many people as possible, preventing and treating disease and keeping people well with our scientific and technical know-how and talented people.