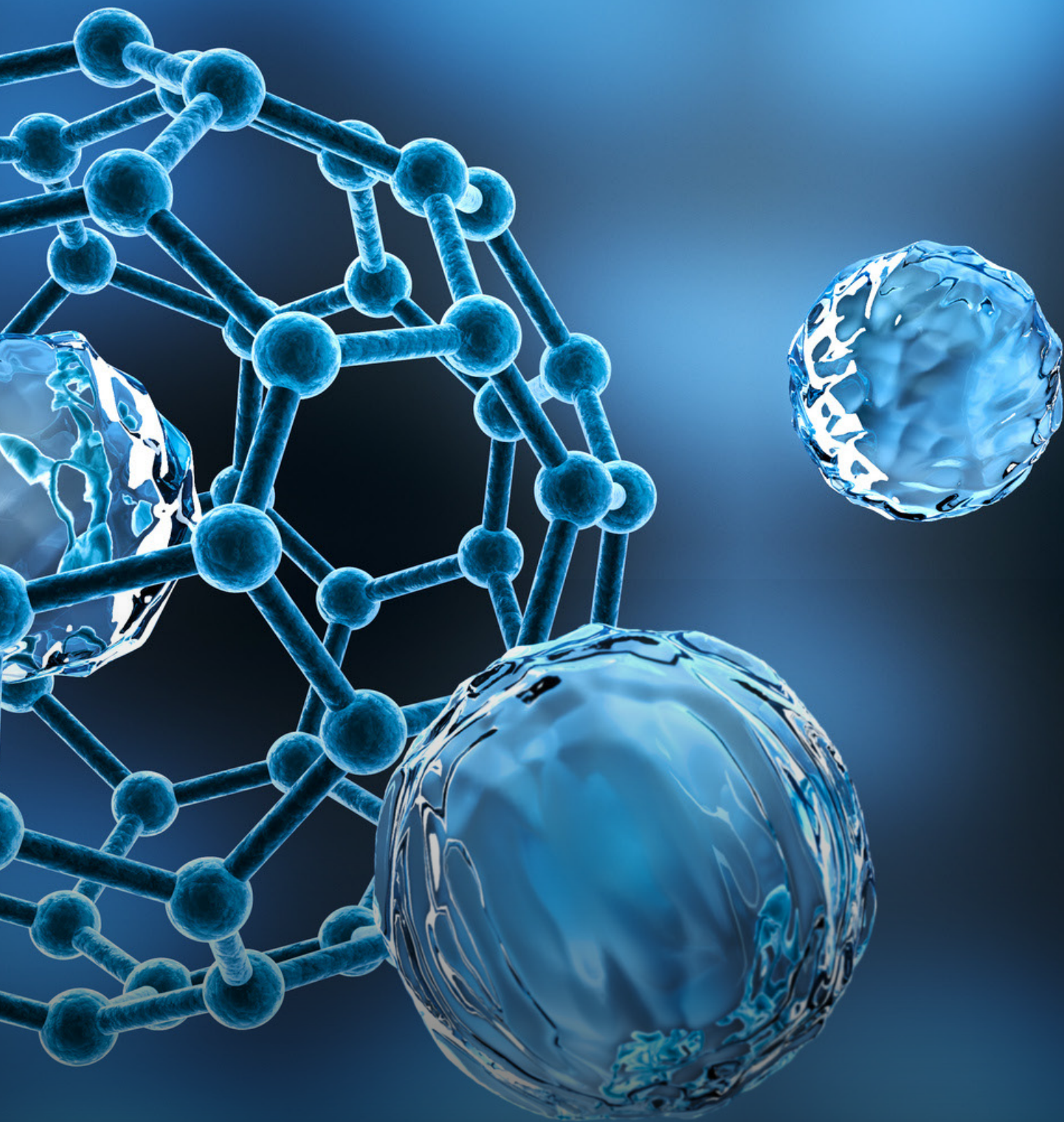




MECHANOCHEMISTRY

FROM SYNTHESIS TO SURFACE INSIGHT

Accelerate your mechanochemistry research with a seamless workflow - from high-energy milling and particle characterization - powered by Retsch and Microtrac.

STEP ONE

SYNTHESIS WITH MILLING SYSTEMS



[retsch.com](https://www.retsch.com)

Unlock the power of mechanochemical reactions:

- | **Mixer Mill MM 500 control:** milling under controlled temperature (cooling or heating)
- | **High-Energy Ball Mill Emax:** extreme energy input for fast results
- | **Planetary Ball Mill PM 300:** high-speed, scalable grinding
- | **Planetary Ball Mill PM 100:** basic model, allrounder
- | **MM 400 / MM 500 nano:** reproducibility even with low sample volumes
- | **Mixer Mill MM 500 vario:** high throughput at elevated energy input
- | **Drum Mill TM 300:** upscaling for co-crystal synthesis in kg scale

Ideal for co-crystal synthesis, clay activation, screening, light-induced reactions, in-situ Raman spectroscopy & more.



MIXER MILL MM 500
CONTROL WITH CRYOPAD

STEP TWO

MATERIAL CHARACTERIZATION



[microtrac.com](https://www.microtrac.com)

Reveal your material's true nature:

- | **Specific Surface Area & Porosity:** Key parameters to optimize solid-state reactions and material performance
- | **Particle Size & Shape:** Allow understanding reaction kinetics and energy transfer
- | **Zeta Potential:** Assess dispersion and stability in liquid environments

Microtrac's high-precision instruments close the loop from synthesis to material insight.



SURFACE AREA
POROSITY
DENSITY
CATALYST EVALUATION



PARTICLE SIZE
SHAPE
DISPERSION STABILITY



CONTACT US