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RSC Mechanochemistry

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See Riina Aav *et al.*, pp. 507–515. Image reproduced by permission of Tatsiana Jarg, Natalja Jekimova and Riina Aav from *RSC Mechanochem.*, 2025, **2**, 507.

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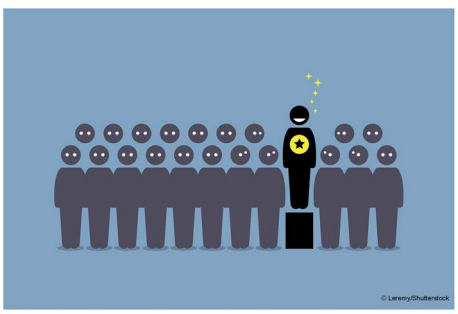
Outstanding Reviewers for *RSC Mechanochemistry* in 2024



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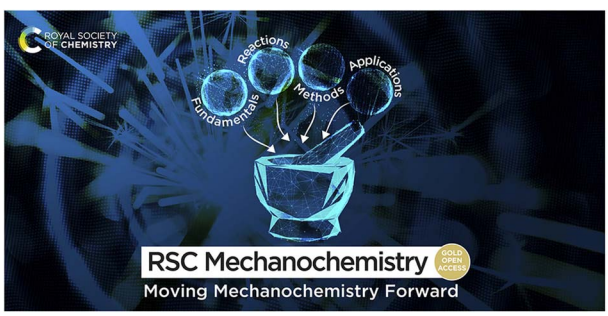
Moving mechanochemistry forward: reimagining inorganic chemistry through mechanochemistry

Felipe García, Mamoru Senna and Vladimir Šepelák



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COMMUNICATION

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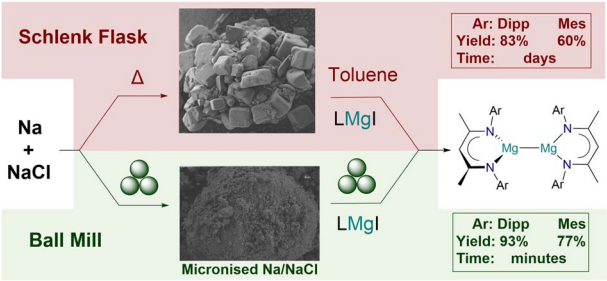
Mechanochemically micronised Na/NaCl; a superfine reductant

Laura E. English, Ross A. Jackson, Nicholas J. Evans, Dawid J. Babula, Harvey J. Draper, Sarah R. Brown, Joseph Fletcher, David J. Liptrot and Kyle G. Pearce*



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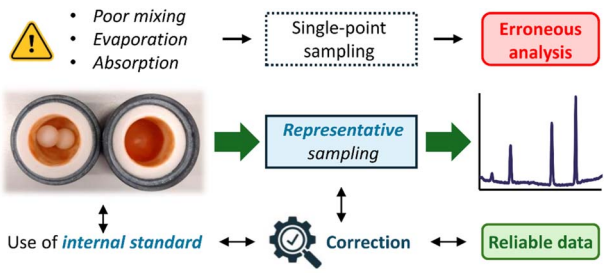
How reliable is internal standard method in monitoring mechanochemical synthesis? A case study of triphenylmethane in HPLC-UV-MS analysis of hemicucurbit[*n*]urils

Tatsiana Jarg, Jevgenija Tamm, Elina Suut-Tuule, Ketren-Marlein Lootus, Dzmitry Kananovich and Riina Aav*



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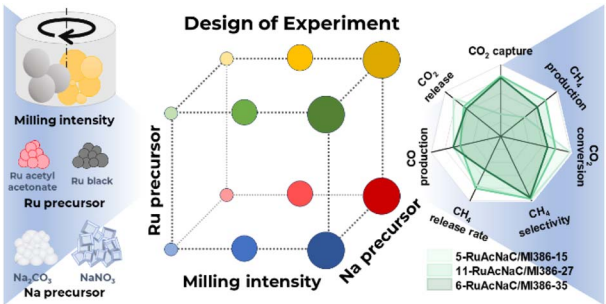
Rational screening of milling parameters for Ru–Na/Al_2O_3 dual-function materials for integrated CO_2 capture and methanation

Andrea Braga, Maila Danielis,* Sara Colussi and Alessandro Trovarelli



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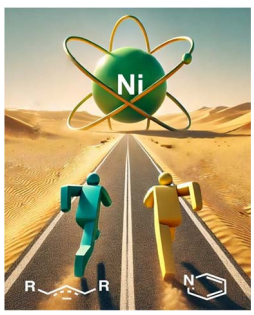
Solvent influence on the mechanism of a mechanochemical metal-halide metathesis reaction

Sourabh Kumar, Dillon Button-Jennings, Timothy P. Hanusa and Ashlie Martini*



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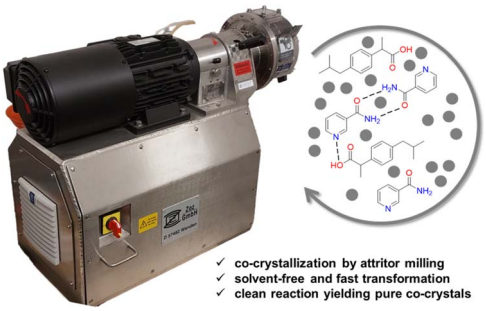

Utilizing an attritor mill for solvent-free mechanochemical synthesis of *rac*-ibuprofen:nicotinamide co-crystals

Sarah Triller, Frederik Winkelmann, Jan-Hendrik Schöbel and Michael Felderhoff*

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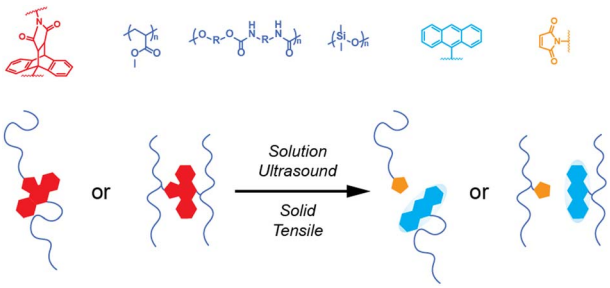

Solid-state mechanochemical activation of anthracene–maleimide adducts: the influence of the polymer matrix

Justus P. Wesseler, James R. Hemmer, Christoph Weder and José Augusto Berrocal*

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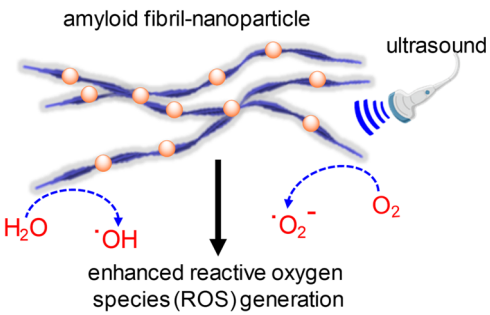

Ultrasound-based mechanochemical generation of reactive oxygen species from nanoparticle-conjugated amyloid fibrils

Soumi Das, Jayanta Dolai,* Buddhadev Mukherjee, Anupam Maity* and Nikhil R. Jana*

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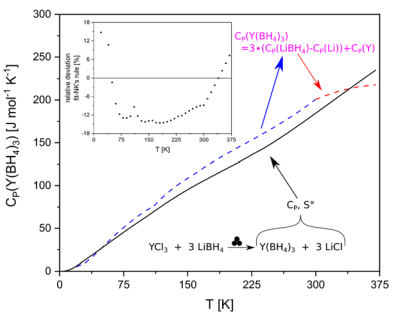

Calorimetric determination of the heat capacity function and absolute entropy of yttrium borohydride ($Y(BH_4)_3$) mechanochemically prepared

Konrad Burkmann, Franziska Habermann, Bianca Störr, Jürgen Seidel, Roman Gumeniuk, Klaus Bohmhammel and Florian Mertens*

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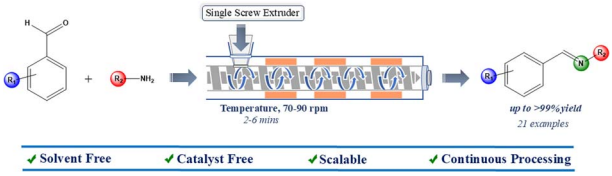
One-pot synthesis of aldimines *via* single screw extrusion: a mechanochemical approach

Aditya Sunil Lade, Khetal Vasant Surana, Sai Srinivas Ponugoti and Shreerang V. Joshi*



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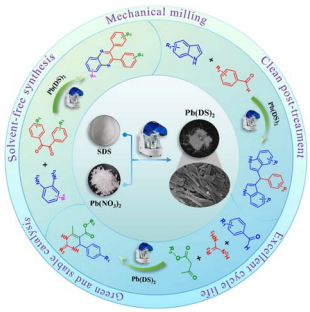
Preparation of lead dodecyl sulfate nanorod materials mediated by mechanochemistry and green solvent-free catalytic synthesis of heterocyclic derivatives

Zhiqiang Wu,* Yuan Min, Yongqin Li, Fang Qian, Lin-an Cao, Rong Tan, Enke Feng, Jiya Ding* and Pengxi Jiang



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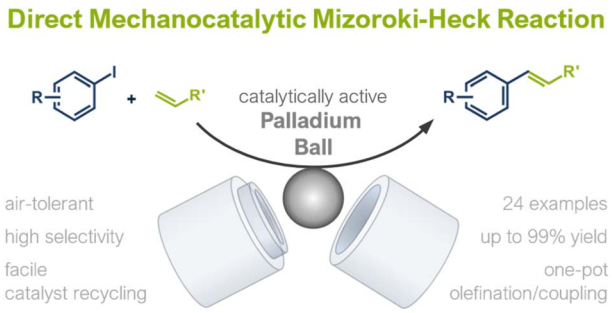
Thermally accelerated Heck reaction under direct mechanocatalysis using palladium milling balls

Johanna Templ,* Suhmi Hwang, Tino Schwemin, Hakan Baltaci and Lars Borchardt*



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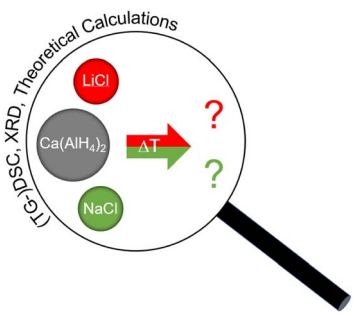
Thermodynamic and kinetic study of the effect of LiCl and NaCl on the thermal dehydrogenation of $Ca(AlH_4)_2$

Franziska Habermann, Anneliese Wirth, Konrad Burkmann, Jakob Kraus, Bianca Störr, Hartmut Stöcker, Jürgen Seidel, Jens Kortus, Roman Gumeniuk, Klaus Bohmhammel and Florian Mertens*