

# RSC Mechanochemistry

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**Cover**  
See Azhar Iqbal, Chenjiang Liu, Yonghong Zhang *et al.*, pp. 447–451. Image reproduced by permission of Yonghong Zhang from *RSC Mechanochem.*, 2024, 1, 447.



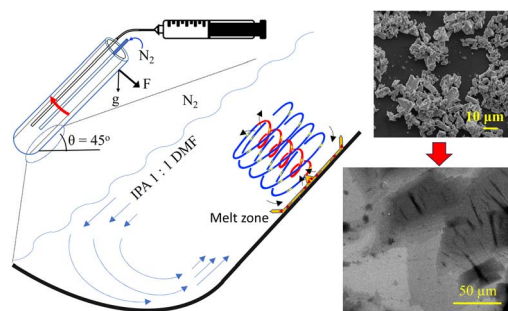
**Inside cover**  
See Ramesh Ch DeKa, Ranjit Thakuria *et al.*, pp. 452–464. Image reproduced by permission of Ranjit Thakuria from *RSC Mechanochem.*, 2024, 1, 452.

## COMMUNICATIONS

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### Vortex mediated fabrication of 2D antimonene sheets from antimony powder

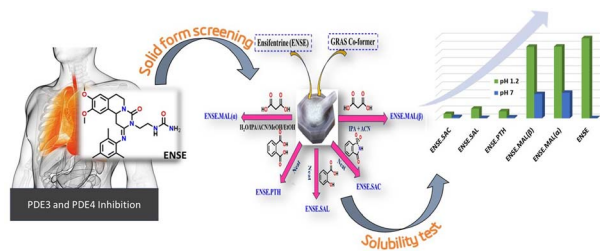
Fayed Abdullah Alrashaidi, Soraya Rahpeima, Xuan Luo, Kasturi Vimalanathan, Abdulrahman S. Alotabi, Thaar Alharbi, Xianjue Chen, Dechao Chen, Youhong Tang, Christopher Gibson, Nadim Darwish, Qin Li and Colin L. Raston\*



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### Mechanical approach for creating different molecular adducts and regulating salt polymorphs: a case study of the anti-inflammatory medication ensifentrine

Ananya Kar, Lopamudra Giri,\* Gowtham Kenguva, Smruti Rekha Rout and Rambabu Dandela\*



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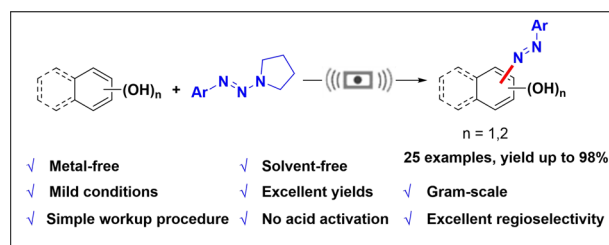
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Fundamental questions  
Elemental answers

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## Solvent-free mechanochemical synthesis of azo dyes

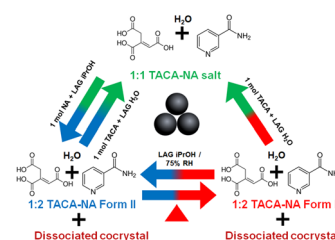
Lin Zhang, Qinglang Song, Yanxian Wang, Rui Chen, Yu Xia, Bin Wang, Weiwei Jin, Shaofeng Wu, Ziren Chen, Azhar Iqbal,\* Chenjiang Liu\* and Yonghong Zhang\*



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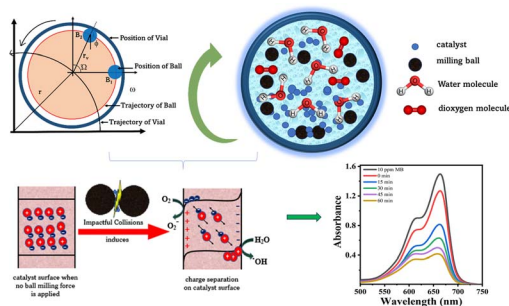
Diptajyoti Gogoi, Kalyan J. Kalita, Nishant Biswakarma, Mihails Arhangelkis, Ramesh Ch Deka\* and Ranjit Thakuria\*



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Ball milling assisted mechano-catalytic dye degradation using SrTiO<sub>3</sub> nanoparticles

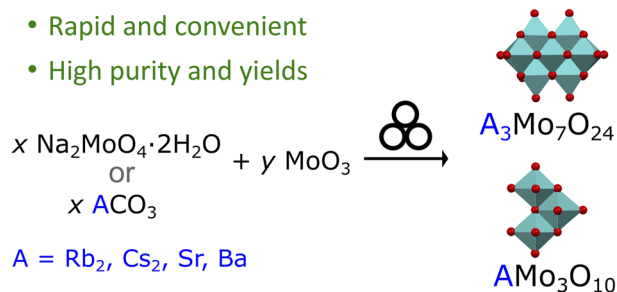
Aman Shukla, Akshay Gaur, Shivam Dubey and Rahul Vaish\*



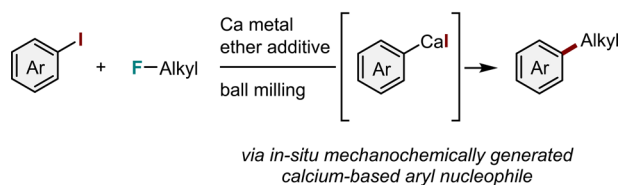
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## Rapid and efficient mechanosynthesis of alkali and alkaline earth molybdates

Andres Lara-Contreras, Patrick Julien,\* Jennifer Scott and Emily C. Corcoran\*

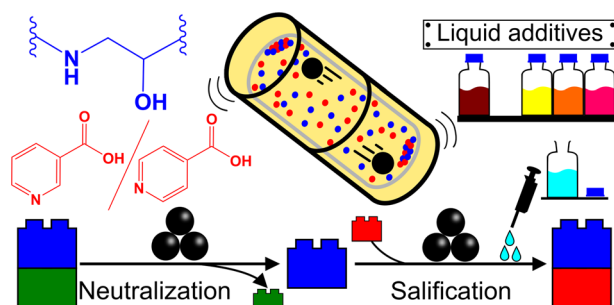


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The first nucleophilic substitution of C(sp<sup>3</sup>)-F bond by organocalciumDirect arylation of alkyl fluorides using *in situ* mechanochemically generated calcium-based heavy Grignard reagents

Pan Gao, Julong Jiang, Yamato Fukuzawa, Satoshi Maeda, Koji Kubota\* and Hajime Ito\*

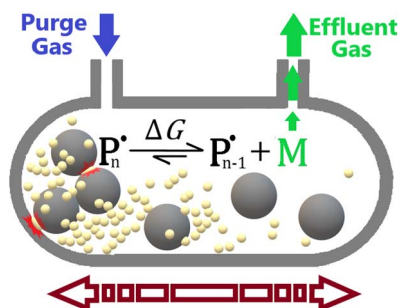
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Delbert S. Botes, Jesus Daniel Loya, Mahboubeh Ghahremani, Bailee B. Newham, Mikaela I. Aleman, Gary C. George, III, Daniel K. Unruh and Kristin M. Hutchins\*

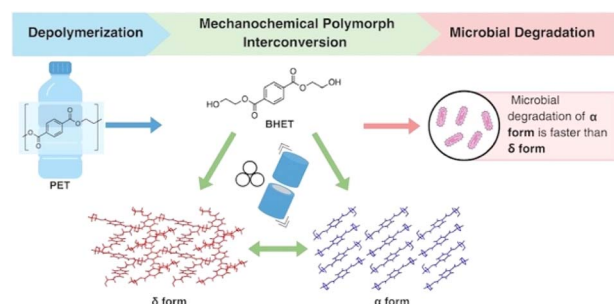
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Yuchen Chang, Van Son Nguyen, Adrian H. Hergesell, Claire L. Seitzinger, Jan Meisner, Ina Vollmer, F. Joseph Schork and Carsten Sievers\*

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Polymorphism control of polyethylene terephthalate (PET) degradation product *via* mechanochemistry leads to accelerated microbial degradation

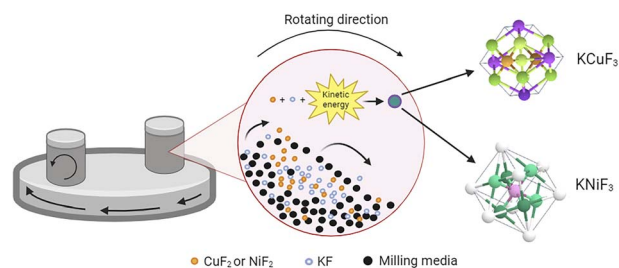
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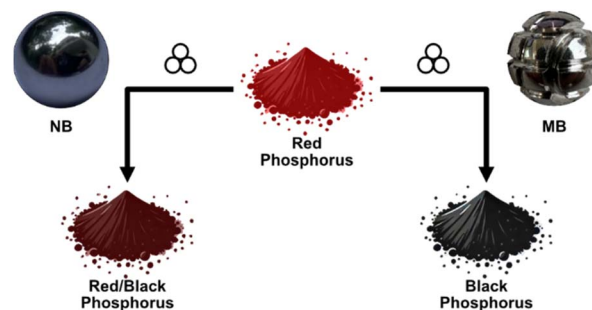
Suhmi Hwang, Phil M. Preuß, Wilm Pickhardt, Sven Grätz and Lars Borhardt\*



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Obida Bawadkji\* and Rainer Haag



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Carlos Naranjo-Castañeda, Marco A. Leyva-Ramírez and Eusebio Juaristi\*

