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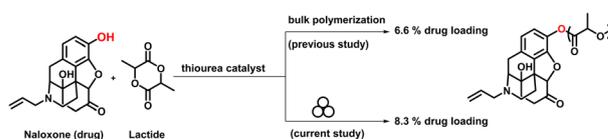
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## COMMUNICATIONS

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**Naloxone-initiated mechanochemical synthesis of poly(lactic acid)**

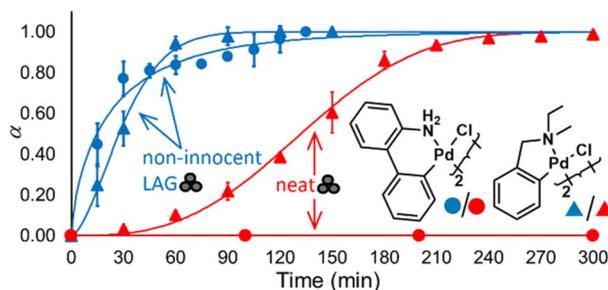
Mohammad A. Ebqa'ai,  
Sandun Bogahawaththa Kasthuri Dias, Andrew J. Kassick,  
Saadyah Averick and Toby L. Nelson\*



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**Experimental and kinetic modelling study of NC palladacycles mechanosynthesis**

Rachel J. Allenbaugh,\* Tia M. Ariagno and Jeffrey Selby

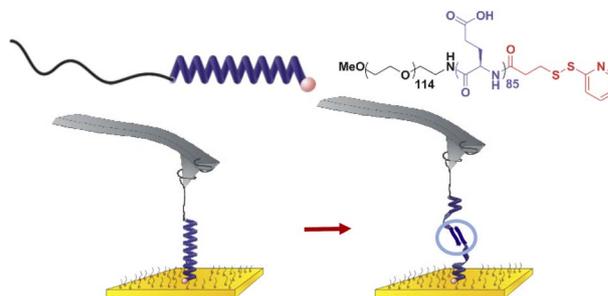


## PAPERS

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**Single-molecule force spectroscopy shows that side chain interactions govern the mechanochemical response of polypeptide  $\alpha$ -helices and prevent the formation of  $\beta$ -sheets**

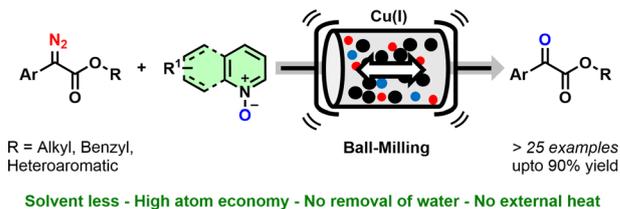
Marie Asano, Damien Sluysmans, Nicolas Willet,  
Colin Bonduelle, Sébastien Lecommandoux\*  
and Anne-Sophie Duwez\*



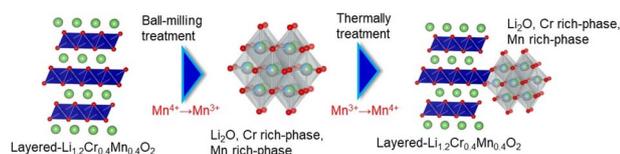
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**Eco-friendly anaerobic oxidation of aryl diazo esters with heterocyclic N-oxide under ball milling: synthesis of 1,2-dicarbonyl systems**

Souvik Guha, Subhabrata Sen\* and Ludovic Gremaud\*



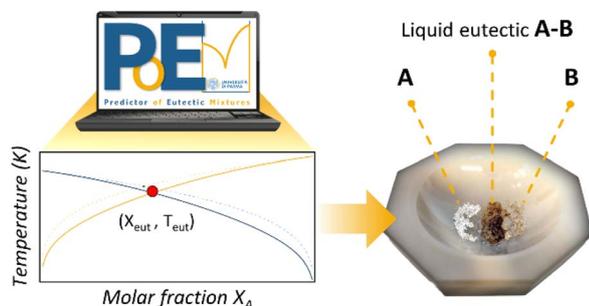
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### Cathode properties of a controlled crystallinity nano-Li<sub>1.2</sub>Cr<sub>0.4</sub>Mn<sub>0.4</sub>O<sub>2</sub> cathode for lithium ion batteries

Ayuko Kitajou,\* Shohei Matsuda, Koji Ohara, Kazutaka Ikeda and Shunsuke Muto

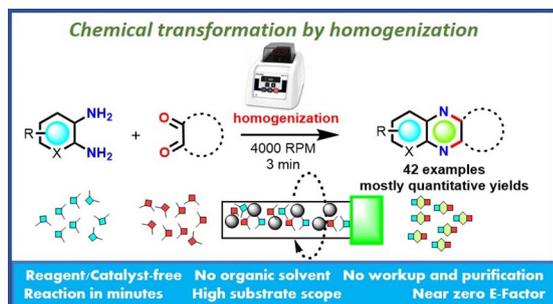
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### A method to predict binary eutectic mixtures for mechanochemical syntheses and cocrystallizations

Michele Prencipe, Paolo P. Mazzeo and Alessia Bacchi\*

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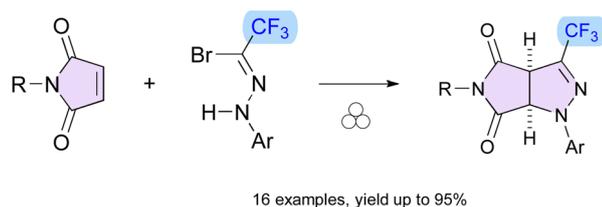


### Homogenization offers access to quinoxalines in minutes: a solvent-free, catalyst-free protocol with a near-zero E-factor

Abboy Chatterjee, Didreekshya Mahanta, Shamima Hussain, Amrita Chatterjee\* and Mainak Banerjee\*

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Synthesis via mechanochemically generated CF<sub>3</sub>-nitrile imines



### Trapping *in situ* generated CF<sub>3</sub>-nitrile imines with maleimides under solvent-free mechanochemical conditions

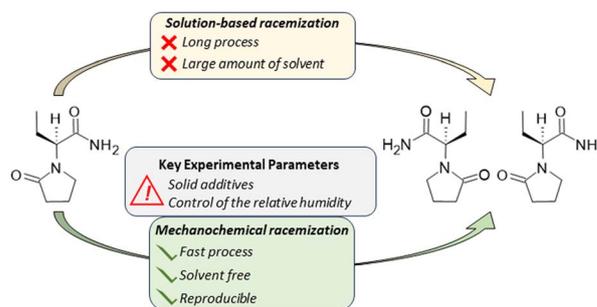
Greta Utecht-Jarzyńska, Szymon Jarzyński and Marcin Jasiński\*



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## Efficient racemization of the pharmaceutical compound Levetiracetam using solvent-free mechanochemistry

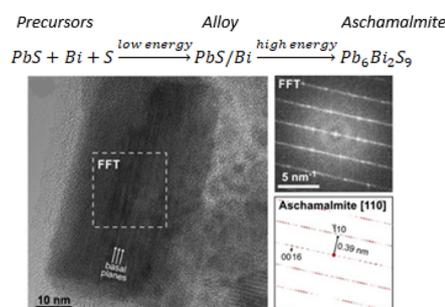
Chrystal Lopes, Lucia Casali, Franziska Emmerling, Tom Leysens, Valérie Dupray, Clement Brandel\* and Yohann Cartigny\*



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## Rapid mechanochemical synthesis and properties in Pb–Bi–S system

Peter Baláž, Erika Dutková,\* Nina Daneu, Michal Hegedüs, Matej Baláž, Emmanuel Guilmeau, Róbert Džunda, Mária Bali-Hudáková, Veronika Garbárová, Jianzhong Jiang and Marcela Achimovičová



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## Coordination polymers containing dimeric Cu<sub>2</sub>X<sub>2</sub> and polymeric (CuI)<sub>n</sub> clusters linked by unsymmetrical isomeric pyridine-benzimidazole linkers: modulating photophysical properties by mechanical stimuli

Prantik Dutta, Abhijit Garai and Kumar Biradha\*

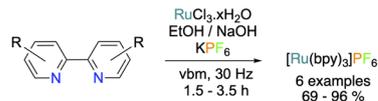


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## Mechanosynthesis of ruthenium trisbipyridyl complexes and application in photoredox catalysis in a ball-mill

Florian Luttringer, Matthieu Lavayssiere, Enita Rastoder, Nikita Salov, Tristan Gravelet, François Quintin, Julien Pinaud, Frédéric Lamaty and Xavier Bantreil\*

### Mechanosynthesis of photoredox catalysts

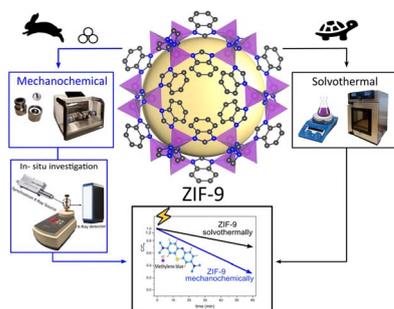


- ✓ Solventless conditions
- ✓ Easy purification with acidic washings
- ✓ Short reaction time
- ✓ New transparent material for milling jars

### Mechanophotocatalysis: reductive dehalogenation



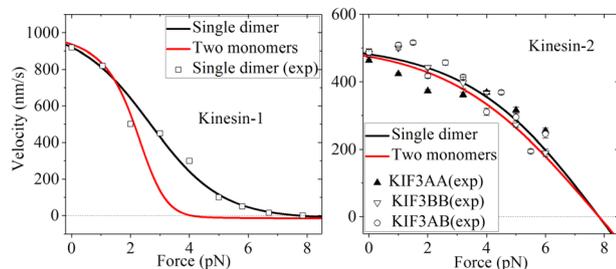
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### Mechanochemical ZIF-9 formation: *in situ* analysis and photocatalytic enhancement evaluation

Noelia Rodríguez-Sánchez, Carsten Prinz, Ralf Bienert, Menta Ballesteros, A. Rabdel Ruiz Salvador, Biswajit Bhattacharya\* and Franziska Emmerling\*

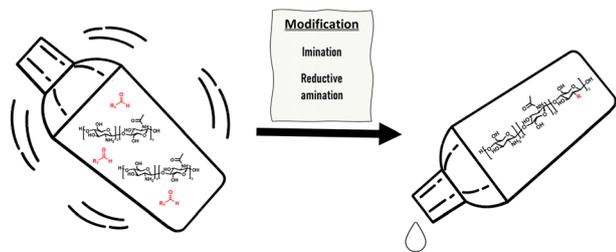
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### Mechanochemical coupling of two coupled kinesin monomers: comparison with that of the single dimer

Ping Xie\*

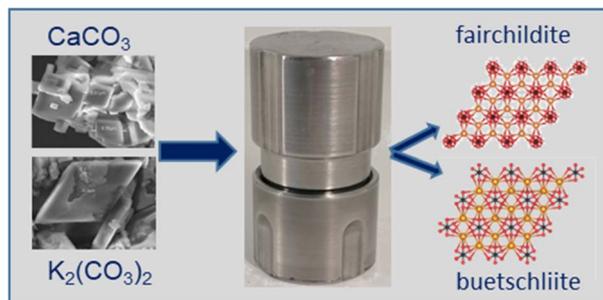
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### Shaking up conjugates between chitosan and aldehydes via mechanochemistry

Casper Van Poucke, Sven Mangelinckx and Christian V. Stevens\*

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### Mechanochemical synthesis and transformation of the polymorphic double carbonates fairchildite and buetschliite, $(K_2Ca(CO_3)_2)$ : an *in situ* X-ray powder diffraction study

Volker Kahlenberg,\* Doris E. Braun, Wolfgang Schmidt, Hang Liu, Sebastian Leiting and Claudia Weidenthaler\*



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## Mechanochemical synthesis of rock salt-type $\text{Na}_2\text{CaSnS}_4$ as a sodium-ion conductor

Hamdi Ben Yahia,\* Atsushi Sakuda and Akitoshi Hayashi\*

