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A journal at the forefront of the design and understanding of solid-state and crystalline materials

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IN THIS ISSUE

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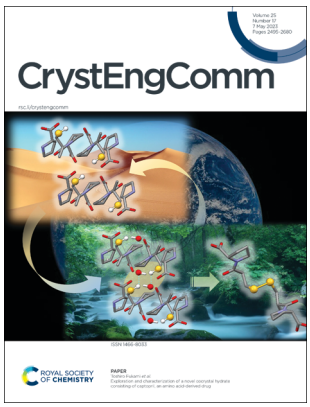

Cover
See Toshiro Fukami *et al.*, pp. 2523–2533.
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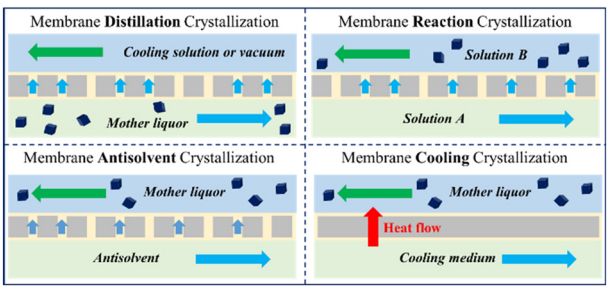
HIGHLIGHT

2503

Recent advances in membrane crystallization

Lixia Shen,* Mingyan Dang and Xingwei Han

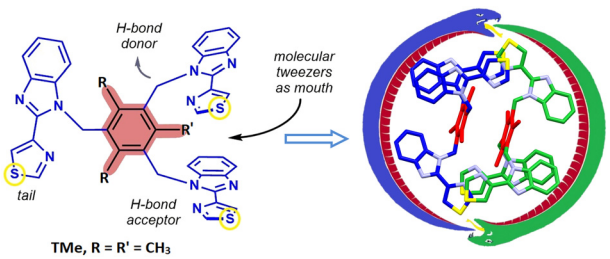


COMMUNICATION

2518

A double ouroboros-shaped noncovalent molecular dimer

Moon Kedia, K. R. Soumya, Upasana Phukon, Isha Mishra, Reema L. Borkar, Palanichamy Vengadeshwaran, Mamina Bhol and Malaichamy Sathiyendiran*



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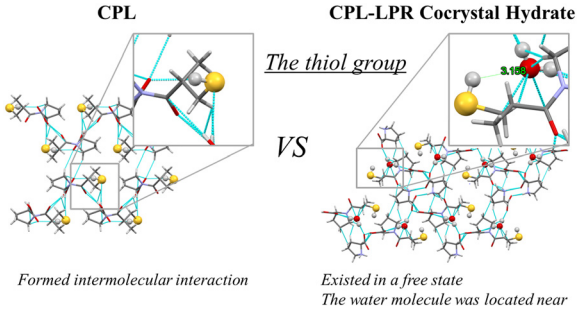
PAPERS

2523

Exploration and characterization of a novel cocrystal hydrate consisting of captopril, an amino acid-derived drug

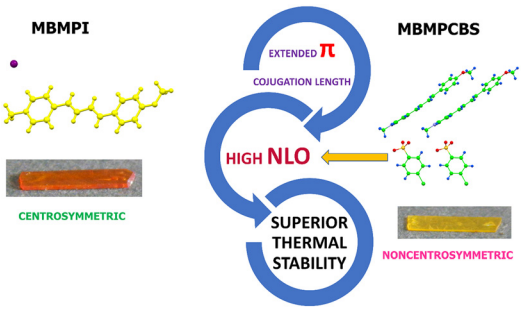
Ryotaro Haku, Kazuhiko Takatori, Naoto Suzuki, Makoto Ono, Varin Titapiwatanakun* and Toshiro Fukami*



2534

4-[4-(4-Methoxyphenyl)-1,3-butadienyl]-1-methylpyridinium 4-chlorobenzene sulphonate (MBMPCBS) – an efficient nonlinear optical crystal with superior thermal stability

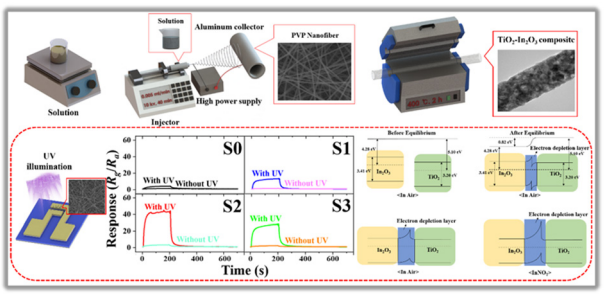
Anand Arul and Jerald Vijay Ramaclus*



2546

High-performance UV-activated room temperature NO_2 sensors based on TiO_2/In_2O_3 composite

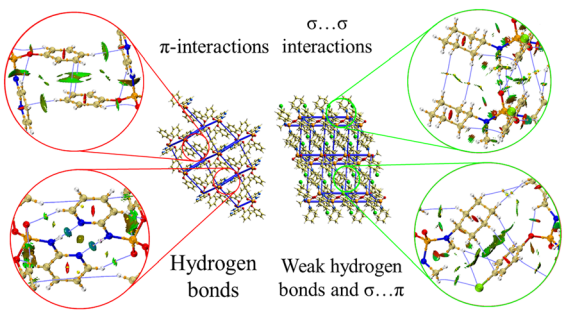
Zhicheng Cai, Jiho Park, Doyeon Jun and Sunghoon Park*



2557

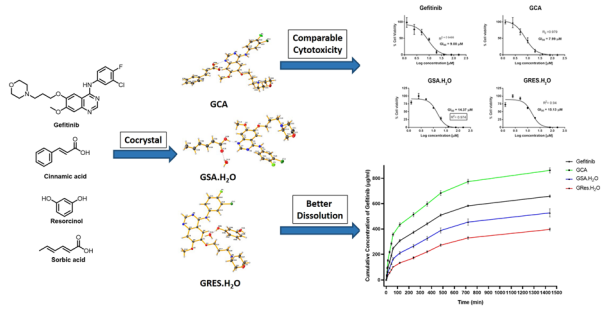
Competing and directing interactions in new phosphoramide/thiophosphoramide structures: energy considerations and evidence for CH···HC contacts and aliphatic–aromatic stacking

Saeed Hosseinpoor, Mehrdad Pourayoubi,* Mozhgan Abrishami, Marjan Sobati, Fatemeh Karimi Ahmadabad, Fahimeh Sabbaghi, Marek Nečas, Michal Dušek, Monika Kučeráková and Manpreet Kaur



PAPERS

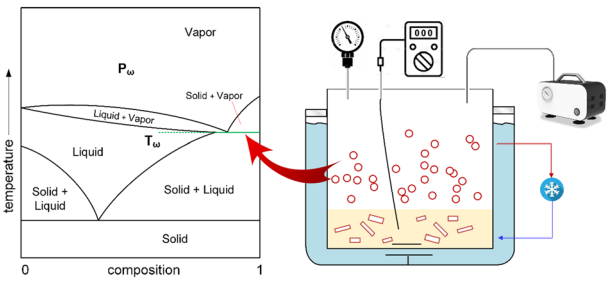
2570



Novel pharmaceutical co-crystals of gefitinib: synthesis, dissolution, cytotoxicity, and theoretical studies

Althaf Shaik, Pranav Umesh Bhagwat, Parimaladevi Palanisamy, Dimple Chhabria, Pankaj Dubey, Sivapriya Kirubakaran* and Vijay Thiruvenkatam*

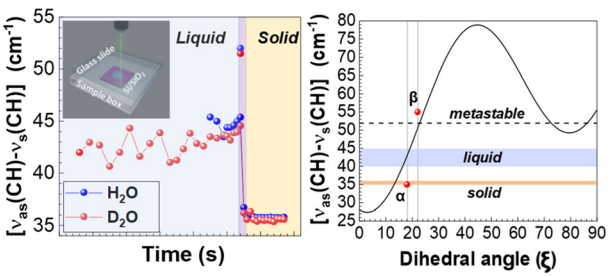
2582



A multi-stage crystallization separation process operated under three-phase conditions to obtain high-purity and high-yield *para*-xylene from xylene mixtures

Zhenxing Cai, Hui Zhao, Jixiang Liu, Xiaobo Chen and Chaohe Yang*

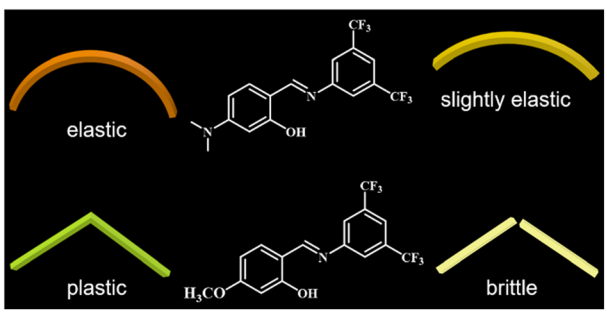
2591



***In situ* Raman study of the crystallization of glycine**

Jingjing Wang, Adriana Alieva, Matthew Boyes, Andrew J. Pollard and Cinzia Casiraghi*

2600



Mechanistic study on the structure–property relationship of flexible organic crystals

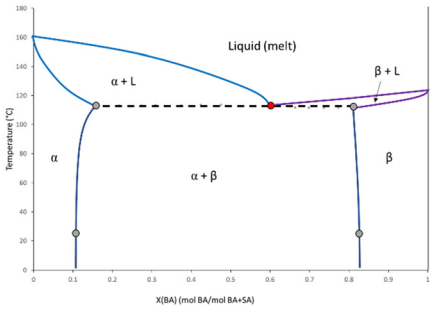
Hongtu Zhao, Xiunan Zhang, Kui Chen, Wenbo Wu, Shuyu Li, Ting Wang,* Xin Huang, Na Wang, Lina Zhou and Hongxun Hao*

PAPERS

2607

Solubility enhancements through crystalline solid solutions, the non-linear Tammann diagram and the *T*–*X* phase diagram of salicylic acid–benzoic acid

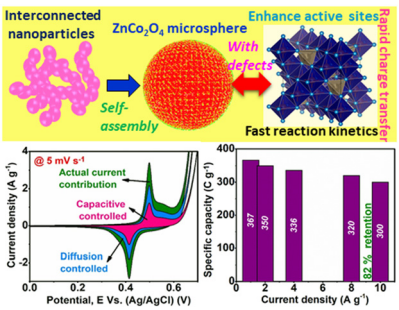
Seyed Sepehr Mohajerani, Francesco Ricci and Fredrik L. Nordstrom*



2618

Engineering cationic vacancies on sphere-like zinc cobaltite microstructures *via* self-assembly of silkworm-like interconnected nanoparticles for battery-type supercapacitors

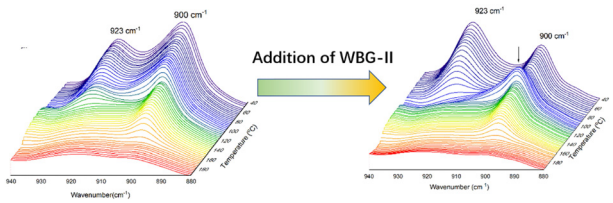
Gutturu Rajasekhara Reddy, Gangavarapu Prathyusha, Namgee Jung, Bathinapatla Sravani* and Sang Woo Joo*



2629

Promoting form I′ crystallization and melting-recrystallization by adding a β-nucleating agent into poly(butene-1)/isotactic polypropylene blends

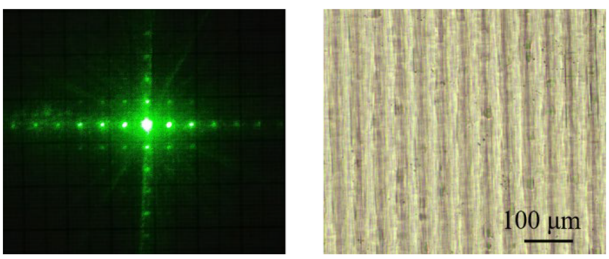
Min Xu, Yu Han, Xiangyang Li,* Jianjun Ding, Kang Zheng, Yongxing Lin, Lin Chen and Xingyou Tian



2647

Single crystal growth and effect of cleavage micro-striations on the crystallinity and optical properties of mercurous halide single crystals

Yanxiao Bi, Lin Liu, Zhongjie Yue, Rongzhen Li, Guodong Zhang* and Xutang Tao*



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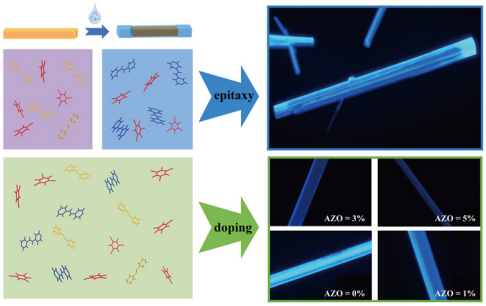
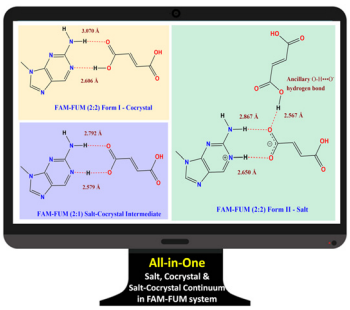
2655



A new strategy: realization of organic heteroepitaxy and organic alloys based on the similarity of C═C and N═N

Shaoqing Guan, Guixia Zhao, Yichen Sun, Zhenxun Tang, Jiahong Pan, Jianjun Wang, Zhuoyu Ji* and Xiangke Wang

2662



Famciclovir–fumaric acid: an all-in-one multicomponent system with salt, cocrystal and salt–cocrystal continuum

Lohith Kotte, Vinusha Pendota, Bojja Sreedhar and Jagadeesh Babu Nanubolu*