

## 2013 Publications

Slattery, C. N., Deasy, R.E., Maguire, A. R., Kopach. M. E., Singh, U. K., Argentine, M. D., Trankle, W. G., Scherer. R. B, Moynihan H., 2013. *A Telescoped Approach to Aryl Hydroxymethylation in the Synthesis of a Key Pharmaceutical Intermediate*. J. Org. Chem, **78**(12): p. 5955-5963.

Lu Dai, Yuqing Liu, Junyang Liu, Xiaoming Wena, ZhengShuang Xu, Zhuo Wang, Hong Sun, Shoubin Tang, Anita R. Maguire, Junmin Quan, Hui Zhang , Tao Ye., 2013. *A novel CyclinE/CyclinA-CDK Inhibitor targets p27Kip1 degradation, cell cycle progression and cell survival: Implications in cancer therapy*. Cancer Letters, **333**(1): p. 103-112.

Marcus A. O'Mahony, Denise M. Croker, Åke C. Rasmuson, Stephane Veessler, and Benjamin K. Hodnett., 2013. *Measuring the Solubility of a Quickly Transforming Metastable Polymorph of Carbamazepine*. Organic Process Research & Development, **17**: p. 512-518.

Hui Liu, Yuqing Liu, Zhuo Wang, Xiangyou Xing, Anita R. Maguire, Hendrik Luesch, Hui Zhang, Zhengshuang Xu and Tao Ye\*., 2013. *Total Synthesis and Biological Evaluation of Grassypeptolide A*. Chem. Eur. J., **19**(21): p. 6774-6784.

G.Walker, 2013. *Liquid marble granulation using super-hydrophobic powders*. Chemical Engineering Journal, **228**: p. 984-992.

Yun Hu, Andrea Erxleben, B. Kieran Hodnett, Boyan Li, Patrick McArdle, Åke C. Rasmuson and Alan G. Ryder., 2013. *Solid-State Transformations of Sulfathiazole Polymorphs: The Effects of Milling and Humidity*. Crystal Growth & Design, **13**: p. 3404-3413.

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Paluch, K.J., McCabe, T., Müller-Bunz, H., Corrigan, O, I., Healy, A.M., and Tajber, L., 2013. *Formation and physicochemical properties of crystalline and amorphous salts with different stoichiometries formed between ciprofloxacin and succinic acid*. Molecular Pharmaceutics, **10**(10): p. 3640-3654.

Kevin S. Eccles, Robin E. Morrison, Carla A. Daly, Graham E. O'Mahony, Anita R. Maguire & Simon E. Lawrence., 2013. *Co-crystallisation through halogen bonding with racemic or enantiopure sulfinamides*. CrystEngComm, **15**: p. 7571-7575.

Paluch, K.J., Tajber, L., Corrigan, O, I., Healy, A.M., 2013. *Impact of alternative solid state forms and specific surface area of high-dose, hydrophilic active pharmaceutical ingredients on tabletability*. Molecular Pharmaceutics, **10**(10): p. 3628-3639.

- Khraisheh, M., Kim, J., Campos, L., Al-Muhtaseb, A.H., Walker, G.M., Alghouti., 2013. *M. Removal of carbamazepine from water by a novel TiO<sub>2</sub>-coconut shell powder/UV process: Composite preparation and photocatalytic activity*. Environmental Engineering Science., **30**(9): p. 515-526.
- Catherine N. Slattery, Sarah O’Keeffe, Anita R. Maguire., 2013. *Electronic effects of aryl-substituted bis(oxazoline) ligands on the outcome of asymmetric copper-catalysed C–H insertion and aromatic addition reactions*. Tet Asymm, **24**(20): p. 1265-1275.
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- Peter A. Byrne, Jimmy Muldoon, Yannick Ortin, Helge Müller-Bunz, and Declan G. Gilheany\*., 2013. *Investigations on the Operation of Stereochemical Drift in the Wittig Reaction by NMR and Variable-Temperature NMR Spectroscopy of Oxaphosphetane Intermediates and Their Quench Products*. European Journal of Organic Chemistry, **1**: p. 86-98.
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- Olivia M. Kenny, Nigel P. Brunton, Dilip K. Rai, Stuart G. Collins, Peter W. Jones, Anita R. Maguire, Nora M. O’Brien., 2013. *Cytotoxic and apoptotic potential of potato glycoalkaloids in a number of cancer cell lines*. J. Agri. Science & Applications, **2**(4): p. 184-192.
- Su, Weiyi; Hao, Hongxun; Glennon, Brian; Barrett, Mark., 2013. *Spontaneous Polymorphic Nucleation of D-Mannitol in Aqueous Solution Monitored with Raman Spectroscopy and FBRM*. Crystal Growth & Design, **13**(12): p. 5179-5187.
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- Y. Hu, K. Gniado, A. Erxleben, P. McArdle Mechanochemical reaction of sulfathiazole with carboxylic acids: formation of a cocrystal, a salt, and coamorphous solids. Crystal Growth & Design, **14**(2): p. 803-813.