

## PUBLICATIONS OF E. SIMANEK

Updated: 1/16/2017

### Books

2. *Shots of Knowledge: The Science of Whiskey*. Arnold, R. & Simanek, E. TCU Press, 2016.
1. *Fundamentals of Organic Chemistry 6E*. McMurry, J.E. & Simanek, E.E. Thompson/Brooks Cole, 2007.

### Publications from Texas Christian University

117. *Intrinsic Fluorescence of Triazine Dendrimers Provides a New Approach to Study Dendrimer Structure and Conformational Dynamics*. Raut, S.; Enciso, A. E.; Pavan, G. M.; Lee, C.; Yepremyan, A.; Tomalia, D. A.; Simanek, E. E. Gryczynski, Z. *J. Phys. Chem. C*, **2017**, *12*, 6946-54. DOI: 10.1021/acs.jpcc.6b11110.
116. *Facile synthesis of stable, water soluble, dendron-coated gold nanoparticles*. Enciso, A.E.; Doni, G.; Nifosi, R.; Palazzesi, F.; Gonzalez, R.; Coffey, J. L.; Simanek, E. E.; Pavan, G. M.; Mohamed, A. A. *Nanoscale*, **2017**, *9*, 3128-32. DOI: 10.1039/c6nr09679d.
115. *Thermoregulated Coacervation, Metal-encapsulation and Nanoparticle Synthesis in Novel Triazine Dendrimers*. Enciso, A.; Ramirez-Crescencio, F.; Hasan, M.; Costa, V.; Annunziata, P.; Redon, R.; Coffey, J.L.; Simanek, E.E. *Molecules* **2016**, *21*, 599. doi:10.3390/molecules21050599. PMID: 27187331
114. *Solid-phase Synthesis of Libraries of Triazine Dendrimers and Orthogonal Staining Methods for Tracking Reactions on Resin*. Huang, A.Y.-T.; Patra, S.; Chen, H.-T.; Kao, K.-L.; Simanek, E.E. *Asian J. Org. Chem.* **2016**, *5*(7), 860-864. 10.1002/ajoc.201600085R1
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111. *Developing an Educational Tool to Model Food-Chains*. Biffi, D.; Hartwig, B.; de la Fuente, Y.; Patterson, M.; Steward, M.; Simanek, E.E.; Weinburgh, M. *Elect. J. Science Educ.* **2016**, *20*(1), 40-53.
110. *Engaging Students with Dynamic Models: Peruvian Food Chain Jenga*. Biffi, D., Hartweg, B., Stewart, M., Patterson, M., Simanek, E. E.; Weinburgh, M. (2016). Peruvian Food Chain Jenga. *Science Scope*, **2016**, *39*, 51-57.
109. *Synthesis and Antimicrobial Activity of Triazine Dendrimers with DABCO Groups*. Sreepurambuduru, R.S.; Abid, Z.M.; Claunch, K.M.; Chen, H.-H.; McGillvray, S.; Simanek, E.E. *RSC Advances* **2016**, *6*, 8806-8810.
108. *Accelerated Synthesis of Large Generation Triazine Dendrimers Using Microwave Assisted Reactions*. Enciso, A. E.; Ramirez-Crescencio, F.; Zeiser, M. J.; Redon, R.; Simanek, E. E. *Polymer J.* **2015**, *6*, 5219-5224.
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105. *Influence of linker groups on the solubility of triazine dendrimers*. Enciso, A.E.; Garzoni, M.; Pavan, G.M.; Simanek, E.E. *New J. Chem.* **2015**, *39*, 1247-1252.
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**Publications from Post-doctoral Studies with Dr. Chi-Huey Wong:**

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**Publications from Graduate Studies with Dr. George M. Whitesides:**

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1. *Self-Assembly Through Hydrogen Bonding: Preparation of a Supramolecular Aggregate Composed of 10 Molecules.* Mathias, J.P.; Simanek, E.E.; Seto, C.T.; Whitesides, G.M. *Angew. Chem., Int. Ed. Eng.* **1993**, *32*, 1766-1769.

**Active Patents/Pending**

1. Pictorial teaching system for use in e.g. elementary or secondary school, has die cutting tool with set of separate die cutting cells formed in panel, and resource access indicia imprinted on visual aided printed on sides of sheet material.  
Patent Number: US2013029303-A1; Patent Assignee: Simanek, E.E.; Abid, Z.M.; Bigham, N.; Chatley, K.S.; Dang, S.B.; Moore, A.R.; Poole, K.E.; Purgett, T.; Zimmermann, E.S.