

## PUBLICATIONS (Updated March 2020)

### Books (6)

6. *Shots of Knowledge: The Science of Whiskey*. Arnold, R. & Simanek, E. TCU Press, 2016.
- 4 & 5. *Chem 112 Laboratory Manual(s)*. Texas A&M University, 2007, 2<sup>nd</sup> Ed. 2008
- 2 & 3. *Chem 111 Laboratory Manual(s)*. Texas A&M University, 2007, 2<sup>nd</sup> Ed. 2008
1. *Fundamentals of Organic Chemistry 6E*. McMurry, J.E. & Simanek, E.E. Thompson/Brooks Cole, 2007.

### Book chapters (5)

5. *Chapter 10: Cationic Triazine Dendrimers: Synthesis, Characterization and Biological Applications*. Enciso, A.E.; Simanek, E.E. In *Cationic Polymers for Regenerative Medicine*, 2015, S.K. Samal, Ed. RSC Publishing.
4. *Chapter 17. Triazine dendrimers for DNA and siRNA delivery: Progress, challenges, and opportunities*. Mintzer, M.A.; Merkel, O.M.; Kissel, T.; Simanek, E.E. in "Dendrimer-based drug delivery systems: from theory to practice" Yien Chen, Editor. Wiley. 2012. doi: 10.1016/j.addr.2012.03.008. Review. PMID: 22465784
3. *Dendrimers based on melamine: vehicles for drug delivery?* Simanek, E. E. ACS Symposium Series 2006, 923(Polymeric Drug Delivery I), 121-136.
2. *Carbohydrate Libraries in Solution Using Thioglycosides. From Multistep to Programmable, Orthogonal, One-pot Synthesis*. Simanek, E.E.; Wong, C.-H. in *Solid Support Oligosaccharide Synthesis and Combinatorial Carbohydrate Libraries*. Ed. Peter Seeberger. Wiley and Sons. NY, NY. 2001.
1. *Approaches to Synthesis Based on Non-covalent Bonds*. Whitesides, G M.; Simanek, E.E.; Gorman, C. B. NATO Advanced Institute on Chemical Synthesis: Gnosis to Prognosis. (1994) American Chemical Society: Washington, DC.

### Scientific Research Publications

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103. *In Vitro Skin Penetration of Dendrimer Nanoparticles*. Kraeling, M.E.K.; Topping, V.D.; Belgrave, K.R.; Schlick, K.; Simanek, E.E.; Man, S.; Dadiboyena, S.; Patri, A.K.; Sprando, R.L.; Yourick, J.J. *Applied In Vitro Toxicology* 2019, 5(3), 134-149. doi: 10.1089/aivt.2019.0004
102. *Nanoparticle physicochemical properties determine the activation of intracellular complement*. Ilinskaya, A.N.; Shah, A.; Enciso, A.E.; Chan, K.C.; Kaczmarczyk, J.A.; Blonder, J.; Simanek, E.E.; Dobrovolskaia, M.A. *Nanomedicine: Nanotechnology, Biology and Medicine*, 2019, 17, 266-275.
101. *Synthesis of Macrocycles Derived from Substituted Triazines*. Yepremyan, A.; Mehmood, A.; Asgari, P.; Janesko, B.G.; Simanek, E.E. *ChemBioChem*, 2019, 20, 241-246.
100. *A new triazine bearing a pyrazolone group capable of copper, nickel, and zinc chelation*. Yepremyan, A.; Mehmood, A.; Brewer, S.M.; Barnett, M.M.; Janesko, B.G.; Akkaraju, G.; Simanek, E.E.; Green, K.N. *RSC Advances*, 2018, 8, 3024-3035.

99. *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.
98. *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.
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96. *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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