

17. Mondal, T.; Charles, L.; Lutz, J. F., Damage and Repair in Informational Poly(N-substituted urethane)s. *Angewandte Chemie International Edition* **2020**, *59* (46) 20390-20393
16. Ding, L.; Lyu, Z. B.; Louis, B.; Tintaru, A.; Laurini, E.; Marson, D.; Zhang, M. J.; Shao, W. X.; Jiang, Y. F.; Bouhleb, A.; Balasse, L.; Garrigue, P.; Mas, E.; Giorgio, S.; Iovanna, J.; Huang, Y. Y.; Pricl, S.; Guillet, B.; Peng, L., Surface Charge of Supramolecular Nanosystems for In Vivo Biodistribution: A MicroSPECT/CT Imaging Study. *Small* **2020**, *16* (37) 2003290
15. Charles, L.; Wesdemiotis, C., Mass spectrometry of synthetic polymers. *Rapid Communications in Mass Spectrometry* **2020**, *34* (S2) e8827
14. Charles, L.; Mondal, T.; Greff, V.; Razzini, M.; Monnier, V.; Burel, A.; Carapito, C.; Lutz, J. F., Optimal conditions for tandem mass spectrometric sequencing of information-containing nitrogen-substituted polyurethanes. *Rapid Communications in Mass Spectrometry* **2020**, *34* (14) e8815
13. Pannequin, A.; Laurini, E.; Giordano, L.; Muselli, A.; Pricl, S.; Tintaru, A., Caution: Chemical Instability of Natural Biomolecules During Routine Analysis. *Molecules* **2020**, *25* (14) 3292
12. Fouquet, T. N. J.; Pizzala, H.; Rollet, M.; Crozet, D.; Giusti, P.; Charles, L., Mass Spectrometry-Based Analytical Strategy for Comprehensive Molecular Characterization of Biodegradable Poly(lactic-co-glycolic Acid) Copolymers. *Journal of the American Society for Mass Spectrometry* **2020**, *31* (7) 1554-1562
11. Laurent, E.; Amalian, J. A.; Parmentier, M.; Oswald, L.; Al Ouahabi, A.; Dufour, F.; Launay, K.; Clement, J. L.; Gimes, D.; Delsuc, M. A.; Charles, L.; Lutz, J. F., High-Capacity Digital Polymers: Storing Images in Single Molecules. *Macromolecules* **2020**, *53* (10) 4022-4029
10. Cavallo, G.; Clement, J. L.; Gimes, D.; Charles, L.; Lutz, J. F., Selective Bond Cleavage in Informational Poly(Alkoxyamine Phosphodiester)s. *Macromolecular Rapid Communications* **2020**, *41* (12) 2000215
9. Deletraz, A.; Zeamari, K.; Hua, K. Y.; Combes, M.; Villamena, F. A.; Tuccio, B.; Callizot, N.; Durand, G., Substituted alpha-Phenyl and alpha-Naphthyl-N-tert-butyl Nitrones: Synthesis, Spin-Trapping, and Neuroprotection Evaluation. *Journal of Organic Chemistry* **2020**, *85* (9) 6073-6085
8. Slomberg, D. L.; Catalano, R.; Ziarelli, F.; Viel, S.; Bartolomei, V.; Labille, J.; Masion, A., Aqueous aging of a silica coated TiO₂ UV filter used in sunscreens: investigations at the molecular scale with dynamic nuclear polarization NMR. *RSC Advances* **2020**, *10* (14) 8266-8274
7. Charles, L.; Chendo, C.; Poyer, S., Ion mobility spectrometry - Mass spectrometry coupling for synthetic polymers. *Rapid Communications in Mass Spectrometry* **2020**, *34* (S2) e8624
6. Ziarelli, F.; Thureau, P.; Viel, S.; Mollica, G., Solvent suppression in solid-state DNP NMR using Electronic Mixing-Mediated Annihilation. *Magnetic Resonance in Chemistry* **2020**, *58* (11) 1076-1081
5. Carvalho, V. N. D.; Hertanu, A.; Grelard, A.; McHinda, S.; Soustelle, L.; Loquet, A.; Dufourc, E. J.; Varma, G.; Alsop, D. C.; Thureau, P.; Girard, O. M.; Duhamel, G., MRI assessment of multiple dipolar relaxation time (T-1D) components in biological tissues interpreted with a generalized inhomogeneous magnetization transfer (ihMT) model. *Journal of Magnetic Resonance* **2020**, *311*, 106668
4. Poyer, S.; Petit, B. E.; Telitel, S.; Karamessini, D.; Lutz, J. F.; Charles, L., Promoting carboxylate salts in the ESI source to simplify positive mode MS/MS sequencing of acid-terminated encoded polyurethanes. *International Journal of Mass Spectrometry* **2020**, *448*, 116271

3. De Zordo-Banliat, A.; Barthelemy, L.; Bourdreux, F.; Tuccio, B.; Dagousset, G.; Pegot, B.; Magnier, E., Visible-Light-Induced Metal-Free Trifluoromethylselenolation of Electron-Rich Heteroarenes Using the Nucleophilic [Me₄N][SeCF₃] Reagent. *European Journal of Organic Chemistry* **2020**, *2020* (4) 506-509
2. Roy, M.; Berezhnaia, V.; Villa, M.; Vanthuyne, N.; Giorgi, M.; Naubron, J. V.; Poyer, S.; Monnier, V.; Charles, L.; Carissan, Y.; Hagebaum-Reignier, D.; Rodriguez, J.; Gingras, M.; Coquerel, Y., Stereoselective Syntheses, Structures, and Properties of Extremely Distorted Chiral Nanographenes Embedding Hextuple Helicenes. *Angewandte Chemie International Edition* **2020**, *59* (8) 3264-3271
1. Ding, L.; Lyu, Z. B.; Tintaru, A.; Laurini, E.; Marson, D.; Louis, B.; Bouhlel, A.; Balasse, L.; Fernandez, S.; Garrigue, P.; Mas, E.; Giorgio, S.; Pricl, S.; Guillet, B.; Peng, L., A self-assembling amphiphilic dendrimer nanotracer for SPECT imaging. *Chemical Communications* **2020**, *56* (2) 301-304