

LIST OF MRSEC-SUPPORTED PUBLICATIONS

2016-2017 MRL PUBLICATIONS [239]

IRG-1 [20]

a. Primary MRSEC Support that Acknowledge the MRSEC Award DMR-1121053 [7]

1. J. Lawrence, S.-H. Lee, A. Abdilla, M.D. Nothling, J.M. Ren, A.S. Knight, C. Fleischmann, Y. Li, A.S. Abrams, B.V.K.J. Schmidt, M.C. Hawker, L.A. Connal, A.J. McGrath, P.G. Clark, W.R. Gutekunst, C.J. **Hawker**, “A versatile and scalable strategy to discrete oligomers,” *J. Am. Chem. Soc.* **138** (2016) 6306-6310.
DOI: 10.1021/jacs.6b03127
2. Z.A. Levine, M.V. Rapp, W. Wei, R.G. Mullen, C. Wu, G.H. Zerbe, J. Mittal, J.H. **Waite**, J.N. **Israelachvili**, J.-E. **Shea**, “Surface force measurements and simulations of mussel-derived peptide adhesives on wet organic surfaces,” *PNAS* **113** (2016) 4332-4337.
DOI: 10.1073/pnas.1603065113
3. H. Minehara, L.M. Pitet, S. Kim, R.H. Zha, E.W. Meijer, C.J. **Hawker**, “Branched block copolymers for tuning of morphology and feature size in thin film nanolithography,” *Macromolecules* **49** (2016) 2318-2326.
DOI: 10.1021/acs.macromol.5b02649
4. M.V. Rapp, G.P. Maier, H.A. Dobbs, N.J. Higdon, J.H. **Waite**, A. **Butler**, J.N. **Israelachvili**, “Defining the catechol–cation synergy for enhanced wet adhesion to mineral surfaces,” *J. Am. Chem. Soc.* **138** (2016) 9013-9016.
DOI: 10.1021/jacs.6b03453
5. J.H. **Waite**, “Mussel adhesion – Essential footwork,” *J. Exp. Biol.* **220** (2017) 517-530.
DOI: 10.1242/jeb.134056
6. W. Wei, L. Petrone, Y.P. Tan, H. Cai, J.N. **Israelachvili**, A. Miserez, J.H. **Waite**, “An underwater surface-drying peptide inspired by a mussel adhesive protein,” *Adv. Funct. Mater.* **26** (2016) 3496-3507.
DOI: 10.1002/adfm.201600210
7. Q. Zhao, D.W. Lee, B.K. Ahn, S. Seo, Y. Kaufman, J.N. **Israelachvili**, J.H. **Waite**, “Underwater contact adhesion and microarchitecture in polyelectrolyte complexes actuated by solvent exchange,” *Nat. Mater.* **15** (2016) 407-412.
DOI: 10.1038/NMAT4539

b. Partial MRSEC Support that Acknowledge the MRSEC Award DMR-1121053 [13]

8. C.-Y. Chiu, H. Wang, H. Phan, K. Shiratori, T.-Q. Nguyen, C.J. **Hawker**, “Twisted olefinic building blocks for low bandgap polymers in solar cells and ambipolar field-effect transistors,” *J. Polym. Sci., Part A: Polym. Chem.* **54** (2016) 889-899.
DOI: 10.1002/pola.27944
9. E.H. Discekici, S.L. Shankel, A. Anastasaki, B. Oschmann, I-H. Lee, J. Niu, A.J. McGrath, P.G. Clark, D.S. Laitar, J. **Read de Alaniz**, C.J. **Hawker**, D.J. Lunn, “Dual-pathway chain-end modification of RAFT polymers using visible light and metal-free conditions,” *Chem. Commun.* **53** (2017) 1888-1891.
DOI: 10.1039/c6cc08370f
10. N.V. Handa, S. Li, J.A. Gerbec, N. Sumitani, C.J. **Hawker**, D. Klinger, “Fully aromatic high performance thermoset via sydnone–alkyne cycloaddition,” *J. Am. Chem. Soc.* **138** (2016) 6400-6403.
DOI: 10.1021/jacs.6b03381
11. K.-Y. Huang, C.N. Kingsley, R. Sheil, C.-Y. Cheng, J.C. Bierma, K.W. Roskamp, D. Khago, R.W. Martin, S. **Han**, “Stability of protein-specific hydration shell on crowding,” *J. Am. Chem. Soc.* **138** (2016) 5392-5402.
DOI: 10.1021/jacs.6b01989
12. K.M. Mattson, C.W. Pester, W.R. Gutekunst, A.T. Hsueh, E.H. Discekici, Y. Luo, B.V.K.J. Schmidt, A.J. McGrath, P.G. Clark, C.J. **Hawker**, “Metal-free removal of polymer chain ends using light,” *Macromolecules* **49** (2016) 8162-8166.
DOI: 10.1021/acs.macromol.6b01894
13. B. Narupai, J.E. Poelma, C.W. Pester, A.J. McGrath, E.P. Toumayan, Y. Luo, J.W. Kramer, P.G. Clark, P.C. Ray, C.J. **Hawker**, “Hierarchical comb brush architectures via sequential light-mediated controlled radical polymerizations,” *J. Polym. Sci., Part A: Polym. Chem.* **54** (2016) 2276-2284.
DOI: 10.1002/pola.28128
14. S.C.T. Nicklisch, J.E. Spahn, H. Zhou, C.M. Gruian, J.H. **Waite**, “Redox capacity of an extracellular matrix protein associated with adhesion in *Mytilus californianus*,” *Biochemistry* **55** (2016) 2022-2030.
DOI: 10.1021/acs.biochem.6b00044
15. C.W. Pester, B. Narupai, K.M. Mattson, D.P. Bothman, D. Klinger, K.W. Lee, E.H. Discekici, C.J. **Hawker**, “Engineering surfaces through sequential stop-flow photopatterning,” *Adv. Mater.* **28** (2016) 9292-9300.
DOI: 10.1002/adma.201602900
16. S.O. Poelma, G.L. Burnett, E.H. Discekici, K.M. Mattson, N.J. Treat, Y. Luo, Z.M. Hudson, S.L. Shankel, P.G. Clark, J.W. Kramer, C.J. **Hawker**, J. **Read de Alaniz**, “Chemoselective radical dehalogenation and C–C bond formation on aryl halide substrates using organic photoredox catalysts,” *J. Org. Chem.* **81** (2016) 7155-7160.
DOI: 10.1021/acs.joc.6b01034

17. S.O. Poelma, S.S. Oh, S. Helmy, A.S. Knight, G.L. Burnett, H.T. Soh, C.J. **Hawker**, J. **Read de Alaniz**, "Controlled drug release to cancer cells from modular one-photon visible light-responsive micellar system," *Chem. Commun.* **52** (2016) 10525-10528.
DOI: 10.1039/c6cc04127b
18. C.S. Sample, E. Goto, N.V. Handa, Z.A. Page, Y. Luo, C.J. **Hawker**, "Modular synthesis of asymmetric rylene derivatives," *J. Mater. Chem. C* **5** (2017) 1052-1056.
DOI: 10.1039/c6tc05139a
19. A.M. Schrader, C-Y. Cheng, J.N. **Israelachvili**, S. **Han**, "Communication: Contrasting effects of glycerol and DMSO on lipid membrane surface hydration dynamics and forces," *J. Chem. Phys.* **145** (2016) 041101.
DOI: 10.1063/1.4959904
20. R. Whitfield, A. Anastasaki, V. Nikolaou, G.R. Jones, N.G. Engelis, E.H. Discekici, C. Fleischmann, J. Willenbacher, C.J. **Hawker**, D.M. Haddleton, "Universal conditions for the controlled polymerization of acrylates, methacrylates, and styrene via Cu(0)-RDRP," *J. Am. Chem. Soc.* **139** (2017) 1003-1010.
DOI: 10.1021/jacs.6b11783

IRG-2 [21]

a. Primary MRSEC Support that Acknowledge the MRSEC Award DMR-1121053 [7]

21. L. Bjaalie, A. Azcatl, S. McDonnell, C.R. Freeze, S. **Stemmer**, R.M. Wallace, C.G. **Van de Walle**, "Band alignments between SmTiO₃, GdTiO₃, and SrTiO₃," *J. Vac. Sci. Technol. A* **34** (2016) 061102.
DOI: 10.1116/1.4963833
22. L. Bjaalie, A. Janotti, B. Himmetoglu, C.G. **Van de Walle**, "Metal versus insulator behavior in ultrathin SrTiO₃-based heterostructures," *Phys. Rev. B* **94** (2016) 035115.
DOI: 10.1103/PhysRevB.94.035115
23. L. Bjaalie, A. Janotti, K. Krishnaswamy, C.G. **Van de Walle**, "Point defects, impurities, and small hole polarons in GdTiO₃," *Phys. Rev. B* **93** (2016) 115316.
DOI: 10.1103/PhysRevB.93.115316
24. P.G. Moses, A. Janotti, C. Franchini, G. Kresse, C.G. **Van de Walle**, "Donor defects and small polarons on the TiO₂(110) surface," *J. Appl. Phys.* **119** (2016) 181503.
DOI: 10.1063/1.4948239
25. H. Peelaers, C.G. **Van de Walle**, "Doping of Ga₂O₃ with transition metals," *Phys. Rev. B* **94** (2016) 195203.
DOI: 10.1103/PhysRevB.94.195203
26. S. Raghavan, J.Y. Zhang, O.F. Shoron, S. **Stemmer**, "Probing the metal-insulator transition in BaTiO₃ by electrostatic doping," *Phys. Rev. Lett.* **117** (2016) 037602.
DOI: 10.1103/PhysRevLett.117.037602

27. J.-X. Shen, A. Schleife, A. Janotti, C.G. **Van de Walle**, “Effects of La $5d$ and $4f$ states on the electronic and optical properties of LaAlO_3 ,” *Phys. Rev. B* **94** (2016) 205203.
DOI: 10.1103/PhysRevB.94.205203

b. Partial MRSEC Support that Acknowledge the MRSEC Award DMR-1121053 [14]

28. G. Ahn, S.J. Song, T. Hogan, S.D. **Wilson**, S.J. Moon, “Infrared spectroscopic evidences of strong electronic correlations in $(\text{Sr}_{1-x}\text{La}_x)_3\text{Ir}_2\text{O}_7$,” *Sci. Rep.* **6** (2016) 32632.
DOI: 10.1038/srep32632
29. H. Chu, L. Zhao, A. de la Torre, T. Hogan, S.D. **Wilson**, D. Hsieh, “A charge density wave-like instability in a doped spin-orbit-assisted weak Mott insulator,” *Nat. Mater.* **16** (2017) 200-203.
DOI: 10.1038/NMAT4836
30. D. Eiteneer, G.K. Pálsson, S. Nemsák, A.X. Gray, A.M. Kaiser, J. Son, J. LeBeau, G. Conti, A.A. Greer, A. Keqi, A. Rattanachata, A.Y. Saw, A. Bostwick, E. Rotenberg, E.M. Gullikson, S. Ueda, K. Kobayashi, A. Janotti, C.G. **Van de Walle**, A. Blanca-Romero, R. Pentcheva, C.M. Schneider, S. **Stemmer**, C.S. Fadley, “Depth-resolved composition and electronic structure of buried layers and interfaces in a $\text{LaNiO}_3/\text{SrTiO}_3$ superlattice from soft- and hard- X-ray standing-wave angle-resolved photoemission,” *J. Electron Spectrosc. Relat. Phenom.* **211** (2016) 70-81.
DOI: 10.1016/j.elspec.2016.04.008
31. T. Hogan, L. Bjaalie, L. Zhao, C. Belvin, X. Wang, C.G. **Van de Walle**, D. Hsieh, S.D. **Wilson**, “Structural investigation of the bilayer iridate $\text{Sr}_3\text{Ir}_2\text{O}_7$,” *Phys. Rev. B* **93** (2016) 134110.
DOI: 10.1103/PhysRevB.93.134110
32. T. Hogan, R. Dally, M. Upton, J.P. Clancy, K. Finkelstein, Y.-J. Kim, M.J. Graf, S.D. **Wilson**, “Disordered dimer state in electron-doped $\text{Sr}_3\text{Ir}_2\text{O}_7$,” *Phys. Rev. B* **94** (2016) 100401.
DOI: 10.1103/PhysRevB.94.100401
33. J.E. Hogan, S.W. Kaun, E. Ahmadi, Y. Oshima, J.S. **Speck**, “Chlorine-based dry etching of $\beta\text{-Ga}_2\text{O}_3$,” *Semicond. Sci. Technol.* **31** (2016) 065006.
DOI: 10.1088/0268-1242/31/6/065006
34. J. Iaconis, H. Ishizuka, D.N. Sheng, L. **Balents**, “Kinetic magnetism at the interface between Mott and band insulators,” *Phys. Rev. B* **93** (2016) 155144.
DOI: 10.1103/PhysRevB.93.155144
35. H. Kim, J.Y. Zhang, S. Raghavan, S. **Stemmer**, “Direct observation of Sr vacancies in SrTiO_3 by quantitative scanning transmission electron microscopy,” *Phys. Rev. X* **6** (2016) 041063.
DOI: 10.1103/PhysRevX.6.041063
36. P.B. Marshall, E. Mikheev, S. Raghavan, S. **Stemmer**, “Pseudogaps and emergence of coherence in two-dimensional electron liquids in SrTiO_3 ,” *Phys. Rev. Lett.* **117** (2016) 046402.
DOI: 10.1103/PhysRevLett.117.046402
37. S. Nemsák, G. Conti, A.X. Gray, G.K. Pálsson, C. Conlon, D. Eiteneer, A. Keqi, A. Rattanachata, A.Y. Saw, A. Bostwick, L. Moreschini, E. Rotenberg, V.N. Strocov, M. Kobayashi, T. Schmitt, W. Stolte, S. Ueda, K. Kobayashi, A. Gloskovskii, W. Drube, C.A. Jackson, P. Moetakef, A. Janotti, L. Bjaalie, B. Himmetoglu, C.G. **Van de Walle**, S. Borek, J. Minar, J. Braun, H. Ebert, L. Plucinski, J.B. Kortright, C.M. Schneider, L. **Balents**, F.M.F. de Groot, S. **Stemmer**,

C.S. Fadley, “Energetic, spatial, and momentum character of the electronic structure at a buried interface: The two-dimensional electron gas between two metal oxides,” *Phys. Rev. B* **93** (2016) 245103.

DOI: 10.1103/PhysRevB.93.245103

38. Y. Oshima, E. Ahmadi, S.C. Badescu, F. Wu, J.S. **Speck**, “Composition determination of β -(Al_xGa_{1-x})₂O₃ layers coherently grown on (010) β -Ga₂O₃ substrates by high-resolution X-ray diffraction,” *Appl. Phys. Express* **9** (2016) 061102.

DOI: 10.7567/APEX.9.061102

39. L. Savary, L. **Balents**, “Disorder-induced quantum spin liquid in spin ice pyrochlores,” *Phys. Rev. Lett.* **118** (2017) 087203.

DOI: 10.1103/PhysRevLett.118.087203

40. T. Schumann, S. Raghavan, K. Ahadi, H. Kim, S. **Stemmer**, “Structure and optical band gaps of (Ba,Sr)SnO₃ films grown by molecular beam epitaxy,” *J. Vac. Sci. Technol. A* **34** (2016) 050601.

DOI: 10.1116/1.4959004

41. H.D. Taylor, J.L. Lyons, C.E. Dreyer, A. Janotti, C.G. **Van de Walle**, “Impact of nitrogen and carbon on defect equilibrium in ZrO₂,” *Acta Mater.* **117** (2016) 286-292.

DOI: 10.1016/j.actamat.2016.07.003

IRG-3 [11]

a. Primary MRSEC Support that Acknowledge the MRSEC Award DMR-1121053 [8]

42. J.D. Bocarsly, E.E. Levin, C.A.C. Garcia, K. Schwennicke, S.D. **Wilson**, R. **Seshadri**, “A simple computational proxy for screening magnetocaloric compounds,” *Chem. Mater.* **29** (2017) 1613-1622.

DOI: 10.1021/acs.chemmater.6b04729

43. M.L.C. Buffon, G. Laurita, N. Verma, L. Lamontagne, L. Ghadbeigi, D.L. Lloyd, T.D. Sparks, T.M. **Pollock**, R. **Seshadri**, “Enhancement of thermoelectric properties in the Nb–Co–Sn half-Heusler/Heusler system through spontaneous inclusion of a coherent second phase,” *J. Appl. Phys.* **120** (2016) 075104.

DOI: 10.1063/1.4961215

44. J.E. Douglas, E.E. Levin, T.M. **Pollock**, J.C. Castillo, P. Adler, C. Felser, S. Krämer, K.L. Page, R. **Seshadri**, “Magnetic hardening and antiferromagnetic/ferromagnetic phase coexistence in Mn_{1-x}Fe_xRu₂Sn Heusler solid solutions,” *Phys. Rev. B* **94** (2016) 094412.

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45. M.W. Gaultois, A.O. Oliynyk, A. Mar, T.D. Sparks, G.J. Mulholland, B. Meredig, “Perspective: Web-based machine learning models for real-time screening of thermoelectric materials properties,” *APL Materials* **4** (2016) 053213.

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46. A.C. Pebley, P.E. Fuks, T.M. **Pollock**, M.J. **Gordon**, “Exchange bias and spin glass behavior in biphasic NiFe₂O₄/NiO thin films,” *J. Magn. Magn. Mater.* **419** (2016) 29-36.

DOI: 10.1016/j.jmmm.2016.06.009

47. R. **Seshadri**, T.D. Sparks, "Perspective: Interactive material property databases through aggregation of literature data," *APL Mater.* **4** (2016) 053206.
DOI: 10.1063/1.4944682
48. N. Verma, J.E. Douglas, S. Krämer, T.M. **Pollock**, R. **Seshadri**, C.G. **Levi**, "Microstructure evolution of biphasic $\text{TiNi}_{1+x}\text{Sn}$ thermoelectric materials," *Metall. and Mater. Trans. A* **47A** (2016) 4116.
DOI: 10.1007/s11661-016-3549-9
49. A.-M. Zieschang, J.D. Bocarsly, M. Dürschnabel, L. Molina-Luna, H.-J. Kleebe, R. **Seshadri**, B. Albert, "Nanoscale iron nitride, $\epsilon\text{-Fe}_3\text{N}$: Preparation from liquid ammonia and magnetic properties," *Chem. Mater.* **29** (2017) 621-628.
DOI: 10.1021/acs.chemmater.6b04088

b. Partial MRSEC Support that Acknowledge the MRSEC Award DMR-1121053 [3]

50. M.P. Echlin, M.S. Titus, M. Straw, P. Gumbsch, T.M. **Pollock**, "Materials response to glancing incidence femtosecond laser ablation," *Acta Mater.* **124** (2017) 37-46.
DOI: 10.1016/j.actamat.2016.10.055
51. D.H. Fabini, G. Laurita, J.S. Bechtel, C.C. Stoumpos, H.A. Evans, A.G. Kontos, Y.S. Raptis, P. Falaras, A. Van der Ven, M.G. Kanatzidis, R. **Seshadri**, "Dynamic stereochemical activity of the Sn^{2+} lone pair in perovskite CsSnBr_3 ," *J. Am. Chem. Soc.* **138** (2016) 11820-11832.
DOI: 10.1021/jacs.6b06287
52. J. Hill, G. Mulholland, K. Persson, R. **Seshadri**, C. Wolverton, B. Meredig, "Materials science with large-scale data and informatics: Unlocking new opportunities," *MRS Bulletin* **41** (2016) 399-409.
DOI: 10.1557/mrs.2016.93

SEED [7]

a. Primary MRSEC Support that Acknowledge the MRSEC Award DMR-1121053 [1]

53. C.M. Evans, C.R. Bridges, G.E. Sanoja, J. Bartels, R.A. **Segalman**, "Role of tethered ion placement on polymerized ionic liquid structure and conductivity: Pendant versus backbone charge placement," *ACS Macro Lett.* **5** (2016) 925-930.
DOI: 10.1021/acsmacrolett.6b00534

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54. G.L. Burnett, J.C. Rohanna, S. Rosenberg, A.K. Schultz, J. **Read de Alaniz**, "Determination of methylene bridge crosslinking in chloromethylated PS-DVB resins," *J. Polym. Sci. Part A: Polym. Chem.* **54** (2016) 1955-1960.
DOI: 10.1002/pola.28054

55. S. Das, B. H. Lee, R.T. H. Linstadt, K. Cunha, Y. Li, Y. Kaufman, Z.A. Levine, B.H. Lipshutz, R.D. Lins, J.-E. **Shea**, A.J. Heeger, B.K. Ahn, "Molecularly smooth self-assembled monolayer for high-mobility organic field-effect transistors," *Nano Lett.* **16** (2016) 6709-6715.
DOI: 10.1021/acs.nanolett.6b03860
56. M.E. **Helgeson**, "Colloidal behavior of nanoemulsions: Interactions, structure, and rheology," *Curr. Opin. Colloid Interface Sci.* **25** (2016) 39-50.
DOI: 10.1016/j.cocis.2016.06.006
57. J.R. Hemmer, S.O. Poelma, N. Treat, Z.A. Page, N.D. Dolinski, Y.J. Diaz, W. Tomlinson, K.D. Clark, J.P. Hooper, C.J. **Hawker**, J. **Read de Alaniz**, "Tunable visible and near infrared photoswitches," *J. Am. Chem. Soc.* **138** (2016) 13960-13966.
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58. K.N. Kanipe, P.P.F. Chidester, G.D. **Stucky**, M. **Moskovits**, "Large format surface-enhanced Raman spectroscopy substrate optimized for enhancement and uniformity," *ACS Nano* **10** (2016) 7566-7571.
DOI: 10.1021/acsnano.6b02564
59. B. Wu, J. Lee, S. Mubeen, Y-S. Jun, G.D. **Stucky**, M. **Moskovits**, "Plasmon-mediated photocatalytic decomposition of formic acid on palladium nanostructures," *Adv. Opt. Mater.* **4** (2016) 1041-1046.
DOI: 10.1002/adom.201600055

SHARED FACILITIES [180]

60. A.S. Adeleye, A.A. Keller, "Interactions between algal extracellular polymeric substances and commercial TiO₂ nanoparticles in aqueous media," *Environ. Sci. Technol.* **50** (2016) 12258-12265.
DOI: 10.1021/acs.est.6b03684
61. A.S. Adeleye, E.A. Oranu, M. Tao, A.A. Keller, "Release and detection of nanosized copper from a commercial antifouling paint," *Water Res.* **102** (2016) 374-382.
DOI: 10.1016/j.watres.2016.06.056
62. A.S. Adeleye, L.M. Stevenson, Y. Su, R.M. Nisbet, Y. Zhang, A.A. Keller, "Influence of phytoplankton on fate and effects of modified zerovalent iron nanoparticles," *Environ. Sci. Technol.* **50** (2016) 5597-5605.
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63. V. Agarwal, H. Metiu, "Oxygen vacancy formation on α -MoO₃ slabs and ribbons," *J. Phys. Chem. C* **120** (2016) 19252-19264.
DOI: 10.1021/acs.jpcc.6b06589
64. K. Ahadi, O.F. Shoron, P.B. Marshall, E. Mikheev, S. **Stemmer**, "Electric field effect near the metal-insulator transition of a two-dimensional electron system in SrTiO₃," *Appl. Phys. Lett.* **110** (2017) 062104.
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65. E. Ahmadi, Y. Oshima, F. Wu, J.S. **Speck**, "Schottky barrier height of Ni to β -(Al_xGa_{1-x})₂O₃ with different compositions grown by plasma-assisted molecular beam epitaxy," *Semicond. Sci. Technol.* **32** (2017) 035004.
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66. A. Anastasaki, J. Willenbacher, C. Fleischmann, W.R. Gutekunst, C.J. **Hawker**, "End group modification of poly(acrylates) obtained via ATRP: A user guide," *Polym. Chem.* **8** (2017) 689-697.
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67. A. Banerjee, J. Qi, R. Gogoi, J. Wong, S. Mitragotri, "Role of nanoparticle size, shape and surface chemistry in oral drug delivery," *J. Controlled Release* **238** (2016) 176-185.
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68. A. Banerjee, I. Williams, R.N. Azevedo, M.E. **Helgeson**, T.M. Squires, "Solutio-inertial phenomena: Designing long-range, long-lasting, surface-specific interactions in suspensions," *PNAS* **113** (2016) 8612-8617.
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69. J.H. Bannock, N.D. Treat, M. **Chabiny**, N. Stingelin, M. Heeney, J.C. de Mello, "The influence of polymer purification on the efficiency of poly(3-hexylthiophene): Fullerene organic solar cells," *Sci. Rep.* **6** (2016) 23651.
DOI: 10.1038/srep23651
70. J.A. Barrett, Y. Gao, C.M. Bernt, M. Chui, A.T. Tran, M.B. Foston, P.C. Ford, "Enhancing aromatic production from reductive lignin disassembly: In situ O-methylation of phenolic intermediates," *ACS Sustain. Chem. Eng.* **4** (2016) 6877-6886.
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71. C.M. Bates, F.S. Bates, "50th Anniversary Perspective: Block Polymers – Pure Potential," *Macromolecules* **50** (2017) 3-22.
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72. J.S. Bechtel, R. **Seshadri**, A. Van der Ven, "Energy landscape of molecular motion in cubic methylammonium lead iodide from first-principles," *J. Phys. Chem. C* **120** (2016) 12403-12410.
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73. J. Botana, J. Brgoch, C. Hou, M. Miao, "Iodine anions beyond -1: Formation of LinI (n = 2-5) and its interaction with quasiaatoms," *Inorg. Chem.* **55** (2016) 9377-9382.
DOI: 10.1021/acs.inorgchem.6b01561
74. L.T. Brady, W. van Dam, "Quantum Monte Carlo simulations of tunneling in quantum adiabatic optimization," *Phys. Rev. A* **93** (2016) 032304.
DOI: 10.1103/PhysRevA.93.032304
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