

15. MRSEC-SUPPORTED PUBLICATIONS, PATENTS, AND PRESENTATIONS, PERIOD 4

†Denotes publications with international co-authors

Bolded names denote MRSEC primary participants

*Denotes 100% MRSEC-supported

**Denotes REU/RET participant co-author

IRG-1 Publications Resulting from PRIMARY MRSEC Support

1. Postiglione, W.M.; Yu, G.; Chaturvedi, V.; Zhou, H.; Heltemes, K.D.; Jacobson, A.; **Greven, M.; Leighton, C.** *Mechanisms of hysteresis and reversibility across the voltage-driven perovskite-brownmillerite transformation in electrolyte-gated ultrathin $\text{La}_{0.5}\text{Sr}_{0.5}\text{CoO}_{3-\delta}$* . ACS Appl. Mater. Interfaces, **2024**, *16*, 15, 19184-19197. DOI: [10.1021/acsami.4c01336](https://doi.org/10.1021/acsami.4c01336) **DMR-2011401***
2. Postiglione, W.M.; Liang, J.; Nandakumaran, N.; Figari, L.; Aczel, A.; **Leighton, C.** *Direct neutron-diffraction-based measurement of magnetic order in brownmillerite $\text{SrCoO}_{2.5}$ and $\text{La}_{0.5}\text{Sr}_{0.5}\text{CoO}_{2.5}$ thin films*. APL Mater., **2024**, *12*, 041123. DOI: [10.1063/5.0196646](https://doi.org/10.1063/5.0196646) **DMR-2011401***
3. †Cho, K.G.; Lee, K.H.; **Frisbie, C.D.** *Tuning gate potential profiles and current-voltage characteristics of polymer electrolyte-gated transistors by capacitance engineering*. ACS Appl. Mater. Interfaces, **2024**, *16*, 15, 19309-19317. DOI: [10.1021/acsami.4c00079](https://doi.org/10.1021/acsami.4c00079) **DMR-2011401***
4. Guo, S.; Yun, H.; Nair, S.; **Jalan, B.; Mkhoyan, K.A.** *Mending cracks atom-by-atom in rutile TiO_2 with electron beam radiolysis*. Nat. Commun., **2023**, *14* (1), 6005. DOI: [10.1038/s41467-023-41781-x](https://doi.org/10.1038/s41467-023-41781-x) **Collaboration with Seed. DMR-2011401**
5. Ghosh, S.; Liu, F.; **Jalan, B.; Mkhoyan, K.A.** *Control of extended defect growth in perovskite oxide thin films using nanoscale patterning*. Microsc. Microanal., **2023**, *29* (1), 541-542. DOI: [10.1093/micmic/ozad067.255](https://doi.org/10.1093/micmic/ozad067.255) **DMR-2011401***
6. Zhang, C.; Liu, F.; Guo, S.; Zhang, Y.; Xu, X.; **Mkhoyan, K.A.; Jalan, B.; Wang, X.** *Temperature-dependent thermal conductivity of MBE-grown epitaxial SrSnO_3 films*. Appl. Phys. Lett., **2023**, *123* (4), 042201. DOI: [10.1063/5.0156367](https://doi.org/10.1063/5.0156367) **DMR-2011401**
7. Zhang, Y.; Postiglione, W.M.; Xie, R.; Zhang, C.; Zhou, H.; Chaturvedi, V.; Heltemes, K.; Zhou, H.; Feng, T.; **Leighton, C.; Wang, X.** *Wide-range continuous tuning of the thermal conductivity of $\text{La}_{0.5}\text{Sr}_{0.5}\text{CoO}_{3-\delta}$ films via room-temperature ion-gel gating*. Nat. Commun., **2023**, *14* (1), 2626. DOI: [10.1038/s41467-023-38312-z](https://doi.org/10.1038/s41467-023-38312-z) **DMR-2011401***
8. Pramanik, S.; Trejo, N.; McIntire, E.; Hudson-Smith, N.V.; Tuga, B.; He, J.; Aydil, E.S.; **Haynes, C.L.** *Transformations and environmental impacts of copper zinc tin sulfide nanoparticles and thin films*. ACS Appl. Mater. Interfaces, **2023**, *15* (20), 24978-24988. DOI: [10.1021/acsami.3c00374](https://doi.org/10.1021/acsami.3c00374) **DMR-2011401***

IRG-1 Publications Resulting from PARTIAL MRSEC Support

9. Sharifi, S.; Shohan, R.; Hobosyan, M.A.; Lamichhane, U.; Chipara, M.; **Mkhoyan, K.A.;** Zakhidov, A.; Wang, Z.; Baughman, R.H.; Martirosyan, K.S. *Carbon-based nanocomposite yarns reinforced with titanium carbide formed by internally reacted titanium and graphene*. MRS Commun., **2024**. DOI: [10.1557/s43579-023-00512-5](https://doi.org/10.1557/s43579-023-00512-5) **DMR-2011401**
10. †Lu, B.; Stolte, M.; Liu, D.; Zhang, X.; Zhao, L.; Tian, L.; **Frisbie, C.D.;** Würthner, F.; Tao, X.; He, T. *High sensitivity and ultra-broad-range NH_3 sensor arrays by precise control of step defects on the surface of Cl_2 -NDI single crystals*. Adv. Sci., **2024**, 2308036. DOI: [10.1002/advs.202308036](https://doi.org/10.1002/advs.202308036) **DMR-2011401**

11. Varshney, S.; Choo, S.; **Jalan, B.**; **Mkhoyan, K.A.**; **Koester, S.J.**; Shah, J.B. *Hybrid molecular beam epitaxy for single crystalline oxide membranes with binary oxide sacrificial layers*. ACS Nano, **2024**, *18*, (8), 6348-6358. DOI: [10.1021/acsnano.3c11192](https://doi.org/10.1021/acsnano.3c11192) **DMR-2011401**
12. Shaffer, D.; Burnell, F.J.; **Fernandes, R.M.** *Weak-coupling theory of pair density wave instabilities in transition metal dichalcogenides*. Phys. Rev. B, **2023**, *107* (22), 224516. DOI: [10.1103/PhysRevB.107.224516](https://doi.org/10.1103/PhysRevB.107.224516) **DMR-2011401**
13. Nair, S.T.; Yang, Z.; Lee, D.; Guo, S.; Sadowski, J.T.; Johnson, S.; Saboor, A.; Li, Y.; Zhou, H.; Comes, R.B.; Jin, W.; **Mkhoyan, K.A.**; Janotti, A.; **Jalan, B.** *Engineering metal oxidation using epitaxial strain*. Nat. Nanotechnol., **2023**, *18* (9), 1005-1011. DOI: [10.1038/s41565-023-01397-0](https://doi.org/10.1038/s41565-023-01397-0) **DMR-2011401**
14. Manjeshwar, A.K.; Nair, S.; Rajapitamahuni, A.K.; James, R.D.; **Jalan, B.** *Adsorption-controlled growth and magnetism in epitaxial SrRuO₃ films*. ACS Nano, **2023**, *17* (21), 20999-21005. DOI: [10.1021/acsnano.3c03625](https://doi.org/10.1021/acsnano.3c03625) **Collaboration with Seed. DMR-2011401**
15. Huang, D.; Zhang, D.; Kim, Y.; **Wang, J.P.**; **Wang, X.** *Magnetization dynamics in synthetic antiferromagnets with perpendicular magnetic anisotropy*. Phys. Rev. B, **2023**, *107* (21), 214438. DOI: [10.1103/PhysRevB.107.214438](https://doi.org/10.1103/PhysRevB.107.214438) **Collaboration with Seed. DMR-2011401**
16. †Du, D.; Thoutam, L.R.; Genser, K.T.; Zhang, C.; Rabe, K.M.; Samanta, T.; Jung, T.; **Jalan, B.**; Voyles, P.M.; Kawasaki, J.K. *Effect of Pt vacancies on magnetotransport of Weyl semimetal candidate GdPtSb epitaxial films*. Phys. Rev. Mater., **2023**, *7* (8), 084204. DOI: [10.1103/PhysRevMaterials.7.084204](https://doi.org/10.1103/PhysRevMaterials.7.084204) **DMR-2011401**
17. Choudhary, R.; Liu, Z.; Cai, J.; Xu, X.; Chu, J.H.; **Jalan, B.** *Growing clean crystals from dirty precursors: Solid-source metal-organic molecular beam epitaxy growth of superconducting Sr₂RuO₄ films*. APL Mater., **2023**, *11* (6), 061124. DOI: [10.1063/5.0150893](https://doi.org/10.1063/5.0150893) **DMR-2011401**
18. †Cho, K.G.; Adrahtas, D.Z.; Lee, K.H.; **Frisbie, C.D.** *Sub-band filling and hole transport in polythiophene-based electrolyte-gated transistors: Effect of side-chain length and density*. Adv. Funct. Mater., **2023**, *33* (37), 2303700. DOI: [10.1002/adfm.202303700](https://doi.org/10.1002/adfm.202303700) **DMR-2011401**

IRG-2 Publications Resulting from PRIMARY MRSEC Support

19. Perales Rodriguez, C.; **Mahanthappa, M.K.**; **Lodge, T.P.** *Lyotropic phase behavior of coil-bottlebrush diblock copolymers in alkylimidazolium-based ionic liquids*. Macromolecules, **2024**, *57*, 3081-3089. DOI: [10.1021/acs.macromol.3c02451](https://doi.org/10.1021/acs.macromol.3c02451) **DMR-2011401***
20. Magruder, B.R.; Morse, D.C.; **Ellison, C.J.**; **Dorfman, K.D.** *Boundary frustration in double-gyroid thin films*. ACS Macro Lett., **2024**, *13*, 382-388. DOI: [10.1021/acsmacrolett.4c00026](https://doi.org/10.1021/acsmacrolett.4c00026) **DMR-2011401***
21. Cui, S.; Murphy, E.A.; Zhang, W.; Zografos, A.; Shen, L.; **Bates, F.S.**; **Lodge, T.P.** *Cylinders-in-undulating-lamellae morphology from ABC bottlebrush block terpolymers*. J. Am. Chem. Soc., **2024**, *146*, 6796-6805. DOI: [10.1021/jacs.3c13543](https://doi.org/10.1021/jacs.3c13543) **DMR-2011401**
22. Yang, S.; Oh, J.; Magruder, B.R.; Kim, H.J.; **Dorfman, K.D.**; **Mahanthappa, M.K.**; **Ellison, C.J.** *Surface relief terraces in double-gyroid-forming polystyrene-block polylactide thin films*. Phys. Rev. Mater., **2023**, *7* (12), 125601. DOI: [10.1103/physrevmaterials.7.125601](https://doi.org/10.1103/physrevmaterials.7.125601) **DMR-2011401***
23. Park, S.J.; **Bates, F.S.**; **Dorfman, K.D.** *Single gyroid in H-shaped block copolymers*. Phys. Rev. Mater., **2023**, *7* (10), 105601. DOI: [10.1103/PhysRevMaterials.7.105601](https://doi.org/10.1103/PhysRevMaterials.7.105601) **DMR-2011401***
24. Das, S.; Zheng, C.; **Lodge, T.P.**; **Siepmann, J.I.**; **Mahanthappa, M.K.**; **Calabrese, M.A.**; **Reineke, T.M.** *Self-Assembly of unusually stable thermotropic network phases by cellobiose-based Guerbet glycolipids*. Biomacromolecules, **2023**. DOI: [10.1021/acs.biomac.3c01266](https://doi.org/10.1021/acs.biomac.3c01266) **DMR-2011401***

25. Chen, P.; **Dorfman, K.D.** *Gaming self-consistent field theory: Generative block polymer phase discovery.* Proc. Nat. Acad. Sci., **2023**, *120* (45), e2308698120. DOI: [10.1073/pnas.2308698120](https://doi.org/10.1073/pnas.2308698120) **DMR-2011401***

IRG-2 Publications Resulting from PARTIAL MRSEC Support

26. Linn, D.L.;Rodriguez, F.A.;**Calabrese, M.A.** *Cosolvent incorporation modulates the thermal and structural response of PNIPAM/silyl methacrylate copolymers.* Soft Matter, **2024**, *20*, 3322. DOI: [10.1039/D4SM00246F](https://doi.org/10.1039/D4SM00246F) **DMR-2011401**
27. Magruder, B.R.; **Dorfman, K.D.** *Theory of block polymer self-assembly.* ACS In Focus, **2024**, *3*, EBook. DOI: [10.1021/acsinfocus.7e8001](https://doi.org/10.1021/acsinfocus.7e8001) **DMR-2011401**
28. Lembke, H.K.; Espinasse, A.; Hanson, M.G.; Grimme, C.J.; Tan, Z.; **Reineke, T.M.**; Carlson, E.E. *Cationic polymers enable internalization of negatively charged chemical probes into bacteria.* ACS Chem. Biol., **2023**, *18* (9), 2063-2072. DOI: [10.1021/acscchembio.3c00351](https://doi.org/10.1021/acscchembio.3c00351) **DMR-2011401**
29. Ahmed, S.; Keniry, M.; Padilla, V.; Anaya-Barbosa, N.; Javed, M.N.; Gilkerson, R.; Gomez, K.; Ashraf, A.; Narula, A.S.; **Lozano, K.** *Development of pullulan/chitosan/salvianolic acid ternary fibrous membranes and their potential for chemotherapeutic applications.* Int. J. Biol. Macromol., **2023**, *250*, 126187. DOI: [10.1016/j.ijbiomac.2023.126187](https://doi.org/10.1016/j.ijbiomac.2023.126187) **DMR-2011401**
30. Ahmed, S.; Keniry, M.; Anaya-Barbosa, N.; Padilla, V.; Javed, M.N.; Gilkerson, R.; Narula, A.S.; Ibrahim, E.; **Lozano, K.** *Oxymatrine loaded cross-linked PVA nanofibrous scaffold: Design and characterization and anticancer properties.* Macromol. Biosci., **2023**, *23* (10), 2300098. DOI: [10.1002/mabi.202300098](https://doi.org/10.1002/mabi.202300098) **DMR-2011401**
31. Panwar, V.; Vargas, C.N.; **Dutcher, C.S.** *Dispersion and mixing dynamics of complex oil-in-water emulsions in Taylor-Couette flows.* Phil. Trans. R. Soc. A, **2023**, *381* (2246), 20220128. DOI: [10.1098/rsta.2022.0128](https://doi.org/10.1098/rsta.2022.0128) **DMR-2011401, DMR-1852044****

Seed Publications Resulting from PRIMARY MRSEC Support

32. Nair, S.; Noordhoek, K.; Lee, D.; **Bartel, C.J.**; **Jalan, B.** *Solid-source metal-organic MBE for elemental Ir and Ru films.* J. Vac. Sci. Technol. A, **2023**, *41* (6), 062701. DOI: [10.1116/6.0002955](https://doi.org/10.1116/6.0002955) **Collaboration with IRG-1. DMR-2011401**
33. Druecke, B.; Mukherjee, R.; Cheng, X.; **Lee, S.** *Collapse of a granular raft: Transition from single particle falling to collective creasing.* Phys. Rev. Fluids, **2023**, *8* (2), 024003. DOI: [10.1103/physrevfluids.8.024003](https://doi.org/10.1103/physrevfluids.8.024003) **DMR-2011401**

Seed Publications Resulting from PARTIAL MRSEC Support

34. Chi, Z.; Lee, S.; Yang, H.; Dolan, E.; Safeer, C.K.; Ingla-Aynés, J.; Herling, F.; Ontoso, N.; Martín-García, B.; Gobbi, M.; **Low, T.**; Hueso, L.E.; Casanova, F. *Control of charge-spin Interconversion in van der Waals heterostructures with chiral charge density waves.* Adv. Mater., **2024**, 2310768. DOI: [10.1002/adma.202310768](https://doi.org/10.1002/adma.202310768) **DMR-2011401**
35. Ascencio, C.O.; Jiang, W.; de Sousa, D.J.P.; Lee, S.; **Wang, J.**; **Low, T.** *Enhanced spin Hall response from aligned Kramers-Weyl points in high Chern number semimetals.* Phys. Rev. B, **2024**, *108* (20). DOI: [10.1103/PhysRevB.108.L201404](https://doi.org/10.1103/PhysRevB.108.L201404) **DMR-2011401**

36. Zhang, D.; Jiang, W.; Yun, H.; Benally, O.J.; Peterson, T.; Cresswell, Z.; Fan, Y.; Lv, Y.; Yu, G.; Barriocanal, J.G.; Swatek, P.W.; **Mkhoyan, K.A.; Low, T.; Wang, J.-P.** *Robust negative longitudinal magnetoresistance and spin-orbit torque in sputtered Pt₃Sn and Pt₃Sn_xFe_{1-x} topological semimetal.* Nat. Commun., **2023**, *14* (1), 4151. DOI: [10.1038/s41467-023-39408-2](https://doi.org/10.1038/s41467-023-39408-2) **DMR-2011401**
37. †Yun, H.; Zhang, D.; **Birol, T.; Wang, J.-P.; Mkhoyan, K.A.** *Structural anisotropy-driven atomic mechanisms of phase transformations in the Pt-Sn system.* Nano Lett., **2023**, *23* (16), 7576-7583. DOI: [10.1021/acs.nanolett.3c02162](https://doi.org/10.1021/acs.nanolett.3c02162) **DMR-2011401**
38. Willis, S.A.; **Flannigan, D.J.** *Stable photoemission from the Wehnelt aperture surface in 4D ultrafast electron microscopy.* Microsc. Microanal., **2023**, *29*, 1842-1844. DOI: [10.1093/micmic/ozad067.1103](https://doi.org/10.1093/micmic/ozad067.1103) **DMR-2011401**
39. †Lee, I.H.; Martin-Moreno, L.; Avouris, P.; **Low, T.; Oh, S.H.** *Switching the symmetry of graphene plasmons with nanoemitters for ultimate infrared-light confinement.* Phys. Rev. Appl., **2023**, *19* (6), 064039. DOI: [10.1103/PhysRevApplied.19.064039](https://doi.org/10.1103/PhysRevApplied.19.064039) **DMR-2011401**
40. †Fan, Y.; Zhang, P.; Han, J.; Lv, Y.; Liu, L.; **Wang, J.-P.** *Observation of the unidirectional magnetoresistance in antiferromagnetic insulator Fe₂O₃/Pt bilayers.* Adv. Electron. Mater., **2023**, *9* (8), 2300232. DOI: [10.1002/aelm.202300232](https://doi.org/10.1002/aelm.202300232) **DMR-2011401**
41. Dasetty, S.; Zajac, J.W.; **Sarupria, S.** *Exploitation of active site flexibility-low temperature activity relation for engineering broad range temperature active enzymes.* Mol. Syst. Des. Eng., **2023**, *8* (11), 1355-1370. DOI: [10.1039/d3me00013c](https://doi.org/10.1039/d3me00013c) **DMR-2011401**

Publications Resulting from the USE OF SHARED FACILITIES

42. Nieto, B.; Cypress, M.W.; Jhun, B.S.; O-Uchi, J. *Adeno-associated virus-based approach for genetic modification of cardiac fibroblasts in adult rat hearts.* Physiol. Rep., **2024**. DOI: [10.14814/phy2.15989](https://doi.org/10.14814/phy2.15989) **DMR-2011401**
43. Namayandeh, A.; Zhang, W.; Watson, S.K.; Borkiewicz, O.J.; Bompoti, N.M.; Chrysochoou, M.; Penn, R.L.; Michel, F.M. *Goethite and hematite nucleation and growth from ferrihydrite: effects of oxyanion surface complexes.* Environ. Sci. Technol., **2024**, *58* (13), 5952-5962. DOI: [10.1021/acs.est.3c09955](https://doi.org/10.1021/acs.est.3c09955) **DMR-2011401**
44. Lee, H.; Northrop, W.F. *Oxidative coupling of methane using oxidant mixtures of CO₂ and O₂ over Sr/La₂O₃.* Appl. Catal. A-Gen, **2024**, *673*, 119587. DOI: [10.1016/j.apcata.2024.119587](https://doi.org/10.1016/j.apcata.2024.119587) **DMR-2011401**
45. Hausladen, M.M.; Gorbea, G.D.; Francis, L.F.; **Ellison, C.J.** *UV-assisted direct ink writing of dual-cure polyurethanes.* ACS Appl. Polym. Mater., **2024**, *6* (4), 2253-2265. DOI: [10.1021/acsapm.3c02806](https://doi.org/10.1021/acsapm.3c02806) **DMR-2011401**
46. Dewey, J.E.; Chaturvedi, V.; Webb, T.A.; Sharma, P.; Postiglione, W.M.; Quarterman, P.; Balakrishnan, P.P.; Kirby, B.J.; Figari, L.; Korostynski, C.; Jacobson, A.; **Birol, T.; Fernandes, R.M.; Pasupathy, A.N.; Leighton, C.** *First-order phase transition versus spin-state quantum-critical scenarios in strain-tuned epitaxial cobaltite thin films.* Phys. Rev. B, **2024**, *109* (5), 054419. DOI: [10.1103/physrevb.109.054419](https://doi.org/10.1103/physrevb.109.054419) **DMR-2011401**
47. Choi, K.R.; Honig, M.L.; Bühlmann, P. *Ion-selective potentiometry with plasma-initiated covalent attachment of sensing membranes onto inert polymeric substrates and carbon solid contacts.* Anal. Chem., **2024**, *96* (11), 4702-4708. DOI: [10.1021/acs.analchem.4c00204](https://doi.org/10.1021/acs.analchem.4c00204) **DMR-2011401**
48. Li, J.; Munjal, B.; Zeng, C.; Suryanarayanan, R.; *Dual functionality of poloxamer 188 in freeze-dried protein formulations: a stabilizer in frozen solutions and a bulking agent in lyophiles.* Mol. Pharmaceutics, **2024**. DOI: [10.1021/acs.molpharmaceut.4c00108](https://doi.org/10.1021/acs.molpharmaceut.4c00108) **DMR-2011401**

49. Yaputri, B.P.; Feyzi, S.; Ismail, B.P.; *Transglutaminase-induced polymerization of pea and chickpea protein to enhance functionality*. Gels., **2024**, *10*, 11.
DOI: [10.3390/gels10010011](https://doi.org/10.3390/gels10010011) **DMR-2011401**
50. Cheng, J.Y.; Wang, J.; Chen, Y.; Xu, S.; Barriocanal, J.G.; Baldwin, J.K.; Beyerlein, I.J.; Mara, N.A. *3D interfaces enhance nanolaminate strength and deformability in multiple loading orientations*. Acta Mater., **2024**, *267*, 119697.
DOI: [10.1016/j.actamat.2024.119697](https://doi.org/10.1016/j.actamat.2024.119697) **DMR-2011401**
51. Barr, K.E.; Ohnsorg, M.L.; Liberman, L.; Corcoran, L.G.; Sarode, A.; Nagapudi, K.; Feder, C.R.; **Bates, F.S.; Reineke, T.M.** *Drug-polymer nanodroplet formation and morphology drive solubility enhancement of GDC-0810*. Bioconjugate Chem., **2024**, *35* (4), 499-516.
DOI: [10.1021/acs.bioconjchem.4c00018](https://doi.org/10.1021/acs.bioconjchem.4c00018) **DMR-2011401**
52. Hartnett, W.N.; Nguyen, J.; Francis, L.; **Frisbie, C.D.** *Self-aligned, inkjet-printed resistors on flexible substrates with excellent mechanical stability, high yield, and low variance*. Flex. Print. Electron., **2024**, *9* (2), 025006. DOI: [10.1088/2058-8585/ad396f](https://doi.org/10.1088/2058-8585/ad396f) **DMR-2011401**
53. †Colin-Molina, A.; Nemataram, T.; Cheung, A.M.H.; Troisi, A.; **Frisbie, C.D.** *The conductance isotope effect in oligophenylene imine molecular wires depends on the number and spacing of ¹³C-labeled phenylene rings*. ACS Nano, **2024**, *18* (10), 7444-7454.
DOI: [10.1021/acsnano.3c11327](https://doi.org/10.1021/acsnano.3c11327) **DMR-2011401**
54. Huang, Y.S.; Islam, S.; Ou, Y.; Ghosh, S.; Richardella, A.; **Mkhoyan, K.A.**; Samarth, N. *Epitaxial growth and characterization of Bi_{1-x}Sb_x thin films on (0001) sapphire substrates*. APL Mater., **2024**, *12* (2), 021106. DOI: [10.1063/5.0190217](https://doi.org/10.1063/5.0190217) **DMR-2011401**
55. Lin, Z.; Mikhael, C.; Dai, C.; Cho, J. *Self-assembly for creating vertically-aligned graphene micro helices with monolayer graphene as chiral metamaterials*. Adv. Mater., **2024**, 2401451.
DOI: [10.1002/adma.202401451](https://doi.org/10.1002/adma.202401451) **DMR-2011401**
56. Krajovic, D.M.; Haugstad, G.D.; Hillmyer, M.A. *Crystallinity-independent toughness in renewable poly(l-lactide) triblock plastics*. Macromolecules, **2024**, *57* (6), 2818-2834.
DOI: [10.1021/acs.macromol.3c02580](https://doi.org/10.1021/acs.macromol.3c02580) **DMR-2011401**
57. Maines, E.M.; Polley, M.A.; Haugstad, G.; Zhao, B.; **Reineke, T.M.**; **Ellison, C.J.** *Mechanical recycling of 3D-printed thermosets for reuse in vat photopolymerization*. ACS Appl. Polym. Mater., **2024**, *6* (8), 4625-4633. DOI: [10.1021/acsapm.4c00184](https://doi.org/10.1021/acsapm.4c00184) **DMR-2011401**
58. Moorhead, A.; Francis, L.F. *Characterizing stress development and cracking of ceramic particulate coatings during drying*. J. Am. Ceram. Soc., **2024**, *107* (5), 2837-2848.
DOI: [10.1111/jace.19644](https://doi.org/10.1111/jace.19644) **DMR-2011401**
59. Pal, A.; Wong, A.R.; **Lamb, J.R.** *Chemically recyclable, high molar mass polyoxazolidinones via ring-opening metathesis polymerization*. ACS Macro Lett., **2024**, 502-507.
DOI: [10.1021/acsmacrolett.4c00147](https://doi.org/10.1021/acsmacrolett.4c00147) **DMR-2011401**
60. Sample, C.S.; Hoehn, B.D.; Hillmyer, M.A. *Cross-linked polyolefins through tandem ROMP/hydrogenation*. ACS Macro Lett., **2024**, *13* (4), 395-400.
DOI: [10.1021/acsmacrolett.4c00108](https://doi.org/10.1021/acsmacrolett.4c00108) **DMR-2011401**
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