

Manuscripts published by Kang Xia (past 3 years):

1. Le, H.T. V., R. Maguire, **K. Xia**. 2020. Spatial distribution and temporal change of antibiotics in soils amended with manure using two field application methods. *Sci Total Environ.* (doi: 10.1016/j.scitotenv.2020.143431).
2. Li, M., P. Ray, K. Knowlton, A. Pruden, **K. Xia**, C. Teets, P. Du. 2020. Fate of pirlimycin and antibiotic resistance genes in dairy manure slurries in response to temperature and pH adjustment. *Sci. Total Environ.* 710:136310 (<https://doi.org/10.1016/j.scitotenv.2019.136310>).
3. Li, M., P. Ray, C. Teets, A. Pruden, **K. Xia**, K. Knowlton. 2020. Raising temperature and pH can facilitate reductions of cephalosporin and antibiotic resistance genes in dairy manure slurries. *J. Dairy Sci.* 103: 2877-2882.
4. Billingsley, P., F. Binka, C. Chaccour, B. Foy, S. Gold, M. Gonzalez-Silva, J. Jacobson, G. Jagoe, C. Jones, P. Kachur, K. Kobylinski, A. Last, J. Lavery, D. Mabey, L. Mboera, C. Mbogo, N. Rabinovich, S. Rees, F. Richards, C. Rist, J. Rockwood, P. Ruiz-Castillo, J. Sattabongkot, F. Saute, H. Slather, A. Steer, **K. Xia**, R. Zulliger. 2020. A roadmap for the development of ivermectin as a complementary malaria vector control tool. *Am. J. Tropical Med. Hygiene.* 102:3-24 (DOI: <https://doi.org/10.4269/ajtmh.19-0620>).
5. Yan, C. L. Y. Jiang, Haoliang Lu, K. Xia; Q. Wang; J. J. Yang, H. L. Hong, and J. C. Liu. 2019. Effect of mangrove species on removal of tetrabromobisphenol A from contaminated sediments. *Chemosphere.* 244: 125385. doi: 10.1016/j.chemosphere.2019.125385.
6. Yang, B. C. Qin, X. J. Hu, **K. Xia**, C. Lu, F. O. Guddaa, Z. Ma, Y. Z. Gao. 2019. Enzymatic degradation of extracellular DNA exposed to chlorpyrifos and chlorpyrifos-methyl in an aqueous system. *Environ. Intern.* 132:105087. <http://doi.org/10.1016/j.envint.2019.105087>.
7. Chen, C. Q., C. A. Pankow, M. Oh, L. S. Heath, L.Q. Zhang, P. Du, **K. Xia**, and A. Pruden. 2019. Effect of antibiotic use and composting on antibiotic resistance gene abundance and resistome risks of soils receiving manure-derived amendments. *Environmental International.* 128:233-243.
8. Qin, C., C. Shang, and **K. Xia**. 2019. Removal of 17 β -estradiol from secondary wastewater treatment plant effluent using Fe³⁺-saturated montmorillonite. *Chemosphere.* 224:480-486.
9. Radolinski, J., J.X. Wu, **K. Xia**, W. C. Hession, and R. D. Stewart. 2019. Plants mediate precipitation-driven transport of a neonicotinoid pesticide. *Chemosphere.* 222:445-452.
10. Qin, C. L. Li, K. Kikkeri, M. Agah, and **K. Xia**. 2019. Deactivation of *E. coli* in water using Fe³⁺-saturated montmorillonite impregnated filter paper. *Sci. Total Environ.* 652:643–650.
11. Moon, J, L. Ma, **K. Xia**, and M.A. Williams. 2019. Consistent proteinaceous organic matter partitioning into mineral and organic soil fractions during pedogenesis in diverse ecosystems. *Biogeochemistry.* 142:117–135.
12. Wang, J. **K. Xia**, M. G. Waigi, Y. Gao, E. S. Odinga, W. Ling, J. Liu. 2018. Application of biochar to soils may result in plant contamination and human cancer risk due to exposure of polycyclic aromatic hydrocarbons *Environmental International.* 121:169–177.
13. Chen, C. Q., G. K. Guron, A. Pruden, M. Ponder, Pang. Du, and **K. Xia**. 2018. Antibiotics and antibiotic resistance genes in bulk and rhizosphere soils subject to manure amendment and vegetable cultivation. *J. Environ. Qual.* 47:1318-1326.
14. Le, H. T. V., R. O. Maguire, and **K. Xia**. 2018. Method of dairy manure application and time before rainfall affects antibiotics in surface runoff. *J. Environ. Qual.* 47:1310-1317.
15. Wind, L., L. H. Krometis, W. C. Hession, C. Q. Chen, P. Du, K. Jacobs, **K. Xia**, and Amy Pruden. 2018. Fate of Pirlimycin and Antibiotic-Resistant Fecal Coliforms in Field Plots Amended with Dairy Manure or Compost during Vegetable Cultivation. *J. Environ. Qual.* 47:436-444.
16. Oh, M.; A. Pruden, C. Q. Chen, L. Heath, **K. Xia**, and L. Q. Zhang. 2018. MetaCompare: A computational pipeline for prioritizing environmental resistome risk. *FEMS Microbiology*

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17. Garner, E., C. Q. Chen, **K. Xia**, J. Bowers, D. M. Engalthaler, J. McLain, M. A. Edwards, A. Pruden. 2018. Metagenomic characterization of antibiotic resistance genes in four full-scale reclaimed water distribution systems and corresponding potable systems. *Environ. Sci. Technol.* 2018, 52, 6113–6125.
18. Qin, C. W. Zhang, B. Yang, X.W. Chen, **K. Xia**, Y. Z. Gao. 2018. DNA facilitates sorption of polycyclic aromatic hydrocarbons on montmorillonites. *Environ. Sci. Technol.* 52:2694-2703.
19. Chen, C. Q., P. Ray, K. F. Knowlton, A. Pruden, and **K. Xia**. 2018. Effect of composting and soil type on dissipation of veterinary antibiotics in land-applied manures. *Chemosphere.* 196:270-279.