

GURPAL S. TOOR

Professor & Extension Specialist

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(a) Professional Preparation

Institute	Location	Major	Degree & Year
University of Delaware	Newark, Delaware	Soil & Water Quality	Post-doctoral, 2002–2005
Lincoln University	Lincoln, New Zealand	Environmental Soil Science	PhD, 2002
Punjab Agricultural University	Punjab, India	Soil Chemistry	MS, 1996
Punjab Agricultural University	Punjab, India	Agriculture & Chemistry	BS (Hons.), 1993

(b) Appointments

Institute	Department	Position	Year
University of Maryland, College Park, MD	Department of Environmental Science & Technology	Professor & Extension Specialist	2017–present
University of Florida, Gainesville, FL	Soil & Water Sciences Department	Assistant, Associate, and Full Professor & Extension Specialist	2007–2017
University of Arkansas, Fayetteville, AR	Department of Agricultural & Biological Engineering	Research Scientist	2005–2007

(c) Synergistic Activities

- Section Editor, *Current Pollution Reports*
- Academic Editor, *PLoS ONE*; *Water*
- Editorial Board Member, *Current Pollution Reports*; *PLoS ONE*; *Water*
- Past Chair, Organization to Minimize Nutrient Losses from the Landscape (SERA-17)
- Member, Science-Policy Committee, Soil Science Societies of America (SSSA)
- Member, Book and Multi-media Publishing Committee of Agronomy, Crop, and Soil Science Societies of America (ASA-CSSA-SSSA)

Previously, I have completed two terms (2008–2014) as Associate Editor of the *Journal of Environmental Quality*. I served as the Chair of the *Urban & Anthropogenic Soils Division* of the Soil Science Society of America in 2014, a member of the Soil Science Society of America *S594 Urban Soils Committee* (2012–2013), and a member of the American Society of Agronomy *K-12 Committee* (2010–2012). Since 2011, I have served as a member of several scientific committees and as a co-chair of six national and international conferences. I have organized 22 symposia that included topical sessions at various national and international conferences. I have served as a grant panelist on various national (USDA, NSF, EPA), state (Sea Grant Programs), and local grant programs. I review ~10 manuscripts and book proposals each year for various journals and publishers. I review ~10 manuscripts and book proposals each year for various journals and publishers.

My research and extension appointments focus on the management of nutrients in the environment to minimize their impact on surface water and groundwater. I have published 100 referred articles (86

journal articles, 12 invited review journal articles, and 2 book chapters), 35 extension publications, and 2 featured magazine articles. My students and I have given 26 invited talks, 55 volunteered talks, 58 posters, and 121 abstracts at national and international conferences. I have chaired 6 PhD and 14 MS students' committees and have been a member of other 11 graduate students (4 PhD, 11 MS) committees. As an Extension specialist, I'm engaged in outreach activities on land management, conservation, and protection of natural resources. Serving as a section board member will be my honor and privilege to further the mission of societies.

(d) Peer-reviewed journal articles and book chapters [10 of 100 published included below]

100. **Toor, G.S.**, Y. Yang, S. Das, S. Dorsey, & G. Felton. 2021. Soil health in agricultural ecosystems: current status and future perspectives. *Advances in Agronomy*, 168 (in press).
99. Lucas, E., **G.S. Toor**, & J. McGrath. 2021. [Agronomic and environmental phosphorus decline in coastal plain soils after cessation of manure application](https://doi.org/10.1016/j.agee.2021.107337). *Agriculture, Ecosystems & Environment*. <https://doi.org/10.1016/j.agee.2021.107337>
98. Ji, W., J. Xiao, **G.S. Toor**, & Z. Li. 2021. [Nitrate-nitrogen transport in streamwater and groundwater in a loess covered region: Sources, drivers, and spatiotemporal variation](https://doi.org/10.1016/j.scitotenv.2020.143278). *Science of the Total Environment*, 761, 143278. <https://doi.org/10.1016/j.scitotenv.2020.143278>
97. Yang, Y., S. Asal, & **G.S. Toor**. 2021. [Residential catchments to coastal waters: Forms, fluxes, and mechanisms of phosphorus transport](https://doi.org/10.1016/j.scitotenv.2020.142767). *Science of the Total Environment*, 142767. <https://doi.org/10.1016/j.scitotenv.2020.142767>
96. Kalev, S., S. Duan, & **G.S. Toor**. 2021. [Enriched dissolved organic carbon export from a residential stormwater pond](https://doi.org/10.1016/j.scitotenv.2020.141773). *Science of the Total Environment*, 751, 141773. <https://doi.org/10.1016/j.scitotenv.2020.141773>
95. **Toor, G.S.**, Y. Yang, M. Morris, P. Schwartz, Y. Darwish, G. Gaylord, & K. Webb. 2020. [Phosphorus pools in soils under rotational and continuous grazed pastures](https://doi.org/10.1002/agg2.20103). *Agrosystems, Geosciences & Environment*, 3: e20103. <https://doi.org/10.1002/agg2.20103>
94. Yang, Y, A. Goldsmith, I. Herold, S. Lecha, & **G.S. Toor**. 2020. [Assessing soil organic carbon in soils to enhance and track future carbon storage](https://doi.org/10.3390/agronomy10081139). *Agronomy*, 10(8), 1139; <https://doi.org/10.3390/agronomy10081139>
93. Jani, J., M. Lusk, Y. Yang, & **G.S. Toor**. 2020. [Wet season nitrogen export from a residential stormwater pond](https://doi.org/10.1371/journal.pone.0230908). *PLoS ONE*, 15 (4): e0230908. <https://doi.org/10.1371/journal.pone.0230908>
92. Kalev, S. & **G.S. Toor**. 2020. [Concentrations and loads of dissolved and particulate organic carbon in urban stormwater runoff](https://doi.org/10.3390/w12041031). *Water*, 12 (4), 1031. <https://doi.org/10.3390/w12041031>
91. Jani, J., Y. Yang, M. Lusk, & **G.S. Toor**. 2020. [Composition of nitrogen in urban residential stormwater runoff: variation in concentrations, loads, and source characterization of nitrate and organic nitrogen](https://doi.org/10.1371/journal.pone.0229715). *PLoS ONE*, 15(2): e0229715. <https://doi.org/10.1371/journal.pone.0229715>
90. Lusk, M, **G.S. Toor**, & P. Inglett. 2020. [Organic nitrogen in residential stormwater runoff: Implications for stormwater management in urban watersheds](https://doi.org/10.1016/j.scitotenv.2019.135962). *Science of the Total Environment*, 707. 135962. <https://doi.org/10.1016/j.scitotenv.2019.135962>

See a complete list of publications and other activities at below links:

- Google Scholar: https://go.umd.edu/toor_gscholar
- UMD professional webpage for information on research, extension, and teaching: <https://agmr.umd.edu/about/directory/gurpal-toor>
- Researchgate: <https://www.linkedin.com/in/toor2008/>
- Twitter: <https://twitter.com/toorumd>