

# Nutrient Cycling in Agroecosystems

## Formerly Fertilizer Research

Volume 107 · Number 3 · April 2017

### REVIEW ARTICLE

**<sup>15</sup>N methodologies for estimating the transfer of N from legumes to non-legumes in crop sequences**  
P.M. Chalk · C.J. Smith 279

### ORIGINAL ARTICLES

**Biogas slurry use as N fertilizer for two-season *Zizania aquatica* Turcz. in China**  
G. Chen · G. Zhao · H. Zhang · Y. Shen · H. Fei · W. Cheng 303

**Biological nitrogen fixation in tropical dry forests with different legume diversity and abundance**  
A.F. da Silva · A.D.S. de Freitas · T.L. Costa · P.I. Fernandes-Júnior · L.M.V. Martins · C.E.R.S. Santos · K.A.S. Menezes · E.V.S.B. Sampaio 321

**N<sub>2</sub>O emissions from grain cropping systems: a meta-analysis of the impacts of fertilizer-based and ecologically-based nutrient management strategies**  
Z. Han · M.T. Walter · L.E. Drinkwater 335

**Carbon, nitrogen and phosphorus stoichiometric ratios under cotton cropping systems in Australian Vertisols: a meta-analysis of seven experiments**  
N.R. Hulugalle · C. Strong · K. McPherson · G. Nachimuthu 357

**Land use legacies and nitrogen fertilization affect methane emissions in the early years of rice field development**  
R. Shao · M. Xu · R. Li · X. Dai · L. Liu · Y. Yuan · H. Wang · F. Yang 369

**Nutrient distribution and risk assessment in drainage ditches with different surrounding land uses**  
T. Wang · M. Kumwimba · B. Zhu · X. Wang · J. Tang 381

**Fertilizer value and nitrogen transfer efficiencies with clover-grass ley biomass based fertilizers**  
A.P. Benke · A.-M. Rieps · I. Wollmann · I. Petrova · S. Zikeli · K. Möller 395

**Environmental and economic opportunities of applications of different types and application methods of chemical fertilizer in rice paddy**  
A. Datta · S.C. Santra · T.K. Adhya 413

Further articles can be found at [link.springer.com](http://link.springer.com)

Abstracted/Indexed in *Science Citation Index*, *Science Citation Index Expanded (SciSearch)*, *Journal Citation Reports/Science Edition*, *SCOPUS*, *Chemical Abstracts Service (CAS)*, *Google Scholar*, *EBSCO*, *CSA*, *ProQuest*, *CAB International*, *Academic OneFile*, *AGRICOLA*, *Biological Abstracts*, *BIOSIS*, *CAB Abstracts*, *CSA Environmental Sciences*, *Current Contents/Agriculture, Biology & Environmental Sciences*, *Elsevier Biobase*, *EMbiology*, *Environment Index*, *Gale*, *Geobase*, *Global Health*, *INIS Atomindex*, *OCLC*, *PASCAL*, *SCImago*, *Summon by ProQuest*, *Vitis - Viticulture and Enology Abstracts*

Instructions for Authors for *Nutr Cycl Agroecosyst* are available at <http://www.springer.com/10705>