TABLE OF CONTENTS

Balázs J., Németh I., Hoffmann S. 8
Effect of nitrogen fertilization on the yield of winter wheat and N leaching

Behl A. 9
Effect of vermicompost and fertilizer levels on grain yield in pearl millet under rainfed conditions

Berecz K., Kismányoky T., Debreczeni K. 10
Studying the effect of organic matter recycling combined with mineral N fertilisation in long-term field and model pot experiments

Beschow H., Merbach W. 11
Long-term trial on soil formation at Halle/Saale

Bogdevitch I., Mikhailouskaya N. 12
Effect of soil acidification on incorporation of ^{14}C from barley residues in humus

Böhm Ch., Landgraf D., Makeschin F. 13
Dynamic of selected C- and N-fractions in a Cambisol under different management systems

Borowska K., Koper J., Zaujec A. 14
The influence of farming system on the total and available selenium content in soil

Bosak V., Smeyanovich A. 15
Influence of long-term application of fertilizers on the dynamics of humus in Podzoluvisol

Čermák P. 16
Mineral N content in 14 long-term experiments conducted by the Central Institute for Supervising and Testing in Agriculture

Černý J., Balík J., Balíková M., Štípek K. 17
The effect of different rates and forms of N on microbial biomass nitrogen content in soil from long-term experiment with maize

Csathó P., Magyar M. 18
Evaluation of the data set of the Hungarian N-fertilization field trials with corn

Csathó P., Magyar M. 19
Evaluation of the data set of the Hungarian N-fertilization field trials with winter wheat

Debreczeni K., Fischl, K. 20
Studying relationships between mineral fertilisation C and N content of soil in long-term fertilisation experiments

De Neve S., Sleutel S., Hofman G. 21
Short term laboratory incubations for the determination of stable organic carbon in organic materials

Dostál J., Kubát J., Klír J. 22
Results of the long-term organic matter balance investigations in Ústí nad Orlicí district and the trends in the whole Czech Republic

Eskov A.I., Tarasov S.I. 23
The influence of systematic use of different dosages of liquid manure on the density -group humus composition in sodpodzol clay sand soils

Feichtinger F., Erhart E., Hartl W. 24
Net N-mineralisation related to soil organic matter pools

Filep T., Nagy P. T., Kincses I., Kovács A. B. 25
Changes in DOC and DON content of the soil in a pot experiment on an acidic Arenosol

Filip Z., Kubát J. 26
Mineralisation and humification of plant matter in soil samples as a tool in soil quality testing

Fotyma E., Fotyma M. 27
The content of mineral nitrogen N_{min} in the soils of Poland

Francioso O., Gioacchini P., Montecchio P., Ciavatta C., Gessa C. E. 28
Long-term experiments in amendment trials: chemical and spectroscopic characterization of soil organic matter

Gebel M. 29
Quantifying of diffuse nitrogen inputs in surface waters by the model STOFFBILANZ under consideration of processes of turnover in soils

Gheorghiță N.,Gheorghiță S., Săndoiu D. I., Ștefanic G. 30
Fundamental notions concerning managing of carbon forms in soil by application of organical matter

Gonet S. S., Dębska B. 31
Dissolved nitrogen and organic carbon in soil

Gupta A. P., Laik R. 32
Relationship between various soil organic matter pools with nitrogen uptake by wheat

Hilke I., Rothe J., Mund M., Rässler M. 33
Quantification of organic carbon in soils containing carbonates – a comparison of two contrasting analytical approaches

Hoffmann S., Balázs J., Hoffmann B. 34
Soil fertility and mineral-N content of different organic-mineral treatments

Hynšt J., Brůček P., Čuhel J., Šimek M. 35
Nitrogen gaseous losses from pasture soil: N_2O emissions from autumn to spring as influenced by cattle traffic and dung deposition

Isermann K. 36
(Net-) N- and C-(Im)mobilisation in terrestrial and (semi-)subhydric soils with (not) optimised Soil Organic Matter (SOM)

Ismagilova N. H. 37
The influence of fertilization and crop rotation on soil organic matter content and dynamics and nitrogen regime in long-term field experiments

Jadczyszyn T. 38
An importance of FYM in SOM maintenance on the basis of long-term field experiment

Janowiak J., Smoliński S. 39
The effect of differentiated mineral and organic fertilization on the rate of microorganisms development and fertility of a brown podozolic soil.

Janowiak J., Smoliński S., Łudzińska M., Spychaj-Fabisiak E. 40
The effect of fertilization in a simplified crop rotation on the composition of organic matter fraction of a brown podozolic soil

Javůrek M., Vach M., Mikanová O. 41
Response of soil microbial activity on different ways of organic matter use for field crop stand establishment

Kalenskiy V., Kalenskaya S. 42
Influence of systems of fertiliser and protection on efficiency of varieties rye and triticale in forest-stepp zone of ukraine

Kautz T., Ellmer F., Köhn W. 43
Mikrobielle Aktivität und Organische Bodensubstanz (OBS) im Internationalen Organischen Stickstoff-Dauerdüngungsversuch (IOSDV) Berlin-Dahlem

Kempl F., Steffens D., Horn D., Schubert S.' 44
Importance of EUF-extractable organic C for soil N mineralization and for N management of sugar beet

Kismányoky T. 45
Soil C_{ORG} and N relations with the fertilization and manuring, crop rotation and soil cultivation in long-term field experiments

Klír J., Haberle J. 46
Implementation of the EU Nitrate directive

Körschens M. 48
Soil organic matter and environmental protection

Kogut B. M., Sysuev S. A., Nadyozhkin S. M. 50
Content and composition of organic matter in aggregates and non-aggregated fraction of chernozems

Koch J.A, Makeschin F. 51
Turnover dynamics of organic matter in top soils along forest restoration gradients in Saxony, Germany

Kolář L., Kužel S. 52
A method to determine mineralisation kinetics of a decomposable part of soil organic matter in the soil

Koper J., Siwik-Ziomek A., Zaujec A. 53
Total sulphur content and enzymatic activity in a manured soil

Kubát J., Cerhanová D., Nováková J., Klement V., Čermák P., Dostál J. 54
Total organic C and its decomposable part in arable soils in the Czech Republic

Kumar M., Sharma S. K., Singh S. 55
Effect of FYM and different biofertilizers on yield and nutrients content of marigold cv. Pusa Narangi

Kuzyakov Y. 56
Amounts and components of carbon input by agricultural plants into soil

Kurganova I., Teepe R., Lopes de Gerenyu V., Loftfield N. 57
CO_2 and N_2O losses from agricultural soils induced by freeze-thaw processes

Kutovaya O.V., Vasilenko Ye.S. 58
Transformation C and N of humic matter in agrosod-podzolic soil by earthworms

Kuvaeva Y. V. 60
Organic matter of finely dispersed particles of soddy-podzolic soils in conditions of long-term experiments: dynamics of C, N and humic substances composition

Labuda S. Z. 61
Carbon, nitrogen and sulfur ratios in soils and plants as indices of environmental status

Laik R., Gupta A. P. 62
Influence of long-term application of manure and fertilizer nitrogen to pearl millet-wheat cropping system on soil organic matter pools

Landgraf D., Makeschin F. 63
Hot water extractable C and N on dyked calcareous saline soils in Southeast China –an index for available SOM?

Larionova A.A., Rozanova L.N., Yevdokimov I.V., Yermolayev A.M. 64
Carbon and nitrogen accumulation by grassing of arable soil: effect of hay cutting and fertilization

Lippold H., Albert E. 65
Soil cultivation and soluble organic substance in a lysimeter experiment

Lopes de Gerenyu V.O., Kurganova I.N., Rozanova L.N., Kudeyarov V.N. 66
Long-term variation in carbon dioxide fluxes from cultivated gray forest soils: effect of soil temperature and moisture content

Lukin S. M. 67
Optimization of organic matter on sandy and sandy loam soddy-podzolic soils

Lukin S. M., Kasatikov V. A. 68
Effect of organic matter on heavy metals mobility

Marinkovic B., Starcevic L., Crnobarac J., Jacimovic G., Jankovic S., Latkovic D. 69
The yield and quality of sugar beet root depending on the quantity and the position of easily approachable N

Maiti D., Singh A. 70
Role of organic matter rich sewage sludge as an adjuvant to mitigate heavy metal toxicity to *Brassica juncea* in loamy sand soil

Mikanová O., Nováková J., Kubát J. 71
Some enzymatic activities and microbial characteristics in a long-term field experiment

Negrilă M., Negrilă E. 72
NP long term fertilization and the evolution of soil content of carbon and nitrogen

Nieder R., Brinkmann S. 73
Recent trends in C and N dynamics in forest soils of Northern Germany

Overesch M., Broll G., Höper H. 74
Soil organic matter and soil microbial properties on long term monitoring sites in Lower Saxony, Germany. Recommendations for compost application

Pandey T. D., Thakur D. S. 75
Response of tillage practices and farm yard manure on rice (*Oryza Sativa L.*) and water storage capacity of upland inceptisols of Bastar Plateau in India

Pfundtner E., Dersch G. 76
Nitratverlust-Potential von zwei Ackerstandorten mit unterschiedlichen C- und N-Gehalten in Ostösterreich

Popelářová E., Vořišek K. 77
Effect of organic matter amendment on the soil mineralization activity

Raghavendra S., Dahiya S. S. 78
Kinetics of urea hydrolysis in soils amended with farm yard manure

Raghu J. S., Sharma R. A. 79
Influence of integrated fertility management practices on productivity and fertility of black clay soils of Central India

Ralli S., Dhingra K. K. 80
Response of soybean to cumulative application of N, P, Rhizobium, FYM and Mulching

Rana V. S., Malik A. C., Midha L. K. 81
Integrated nutrient management in mustard under dryland conditions in Southern Haryana , India

Rana G. S., Daulta B. S., Mehta P. K. 82
Effect of rootstocks,spacing and drip irrigation levels on nitrogen uptake under high density peach plantation

Rogasik J., Schroetter S., Schnug E. 83
Long-term fertilizer experiments as a data base for calculating the carbon sink potential of arable soils

Romanenkov V.A., Sirotenko O.D., Rodionova V.N., Kanzyvaa S.O., Smith P., Smith J.U., Franko U. 85
Modeling soil carbon sinks for different agricultural systems in soddy-podzolic soils of Russia

Rutkowska B., Szulc W., Łabętowicz J. 86
The influence of organic carbon content in soil on chemical composition of soil solution

Růžek L., Voříšek K., Strnadová S., Nováková M., Barabasz W. 87
Microbial characteristics, carbon and nitrogen content in cambisols and luvisols

Saharan B. S., Kumar V., Narula N. 88
Impact of biofertilizers' use on cotton – wheat based agro-ecosystem with varying soil fertility

Sharma R. A., Raghu J. S. 89
Evaluation of sustainable nutrient management practices based on land degradation and rainfall effects on soybean yield, organic carbon and available N content in rainfed vertisols

Shevtsova L.K., Kanzyvaa S.O., Romanenkov V.A. 90
Soil humus status and sustainability under man-made impact in long-term fertilization experiments based on biological destruction

Scheuner E. T., Makeschin F. 91
Impact of atmospheric nitrogen deposition on the dynamics of dissolved organic carbon (DOC) and dissolved organic nitrogen (DON): a column leaching study

Schmidt L. 92
Response of soil C and N content to fertilization - Results of long-term trials in Halle/S., Germany

Schneckenberger K., Reiher W., Kuzyakov Y. 93
Carbon fixation in soil under perennial energy plants (*Miscanthus x giganteus*) estimated by natural ^{13}C abundance

Schulz E. 94
Influence of site conditions and management on different SOM pools

Schweigert P. 95
Mineral N as an indicator for the mineralization potential of soils

Šimon T. 96
The influence of agricultural management on soil organic matter quality in long-term field experiment

Singh R., Behl R.K.,Singh K.P. 97
Impact of bio-inoculants on morphological and productivity traits in wheat under low input field conditions

Singha D. D., Singh A. 98
Effect of sewage sludge application on nitrogen fractions and organic carbon in soil in relation to nitrogen uptake and plant growth in wheat

Šíša R., Šrámková M. 99
Selected enzymatic activities and respiration of soils of apple orchards

Smeyanovich A., Bosak V. 100
Nitrogen status of podzoluvisol depending on the nutrition level

Smoliński S., Janowiak J. 101
The effect of mineral and organic-mineral fertilization on microbiological activity of a brown podozolic soil

Sosulski T., Mercik S., Stępień W. 102
The dynamics of mineral nitrogen movement in the soil profile in long-term experiments

Spangenberg A. 104
Dynamics of nitrogen mineralization in Bavarian forest soils influenced by high ammonia immissions

Spychaj-Fabisiak E., Smoliński S., Murawska B., Janowiak J. 105
The effect of differentiated nitrogen fertilization on the rate of microflora development and soil fertility

Spychaj-Fabisiak E., Smoliński S., Murawska B., Zaujec A. 106
The effect of fertilisation systems on the content of total nitrogen and carbon in soil

Starcević L., Latković D., Marinković B. 107
The mineral N content in the soil and ts influence on the maize yield

Ştefanic G., Săndoiu D. I., Gheorghiţă N. 108
Agro-phytotechnical solutions of carbon and nitrogen accumulation in soil and for satisfying mineral nutrition of plants in sustainable agriculture technologies

Ştefănescu M. 109
The influence of manure on certain soil fertilitz indices and wheat- maize yields

Svoboda M., Podrázský V. 110
Humus forms microbial activity depending on the forest stands conditions in the area of the Smrčina Mt. – Šumava National Park

Szulc W., Rutkowska B., Łabętowicz J. 111
The influence of fertilization factors on accumulation of organic carbon in soil in long – term field experiment

Tarasov S.I. 112
Humus and soil fatigation

Thakur D. S., Patel S. R., Pandey T. D. 113
Management of inceptisols of Central India through inorganic and organic sources of plant nutrients under rice- chickpea cropping sequence

Trofimov S. N., Varlamov V. A. 114
Potential of accumulation of organic carbon on soddy podzolic semi-hydromorphic soils

Vasilenko Ye.S., O.V. 115
Active microflora and mineralization of the organic matter with different C: N ratio in a sod-podzolic soil and typical chernozem

Volodarskaya I. V., Kanzyvaa S. O., Titova N. A. 116
Importance of crop rotation for organic matter mineralisation in fine-textured sod-podzolic soils (Conceptual substantiation of statistic modelling results)

Volodarskaya I. V. 117
Application of fertilizers and optimization of humus regime in arable sod-podzolic soils (Results of Systemsanalysis of long-term field experiments information)

Wati L., Singh D. 118
Production, distribution and popularization of carrier based biofertilizers

Zaujec A., Šimanský V. 119
The changes of soil organic carbon under two farming systems

Zaujec A., Šimanský V., Tobiašová E. 120
The influence of biopreparates on mineralisation rates of plant residues in two soils