

CONTENTS

Vol. 7, No. 2, 2009

AGRONOMY AND AGROECOLOGY

Isoprene Effect: Yesterday, Today, Tomorrow	9
<i>G. A. Sanadze</i>	
Biochemical Controls on the CO₂ Response of Leaf Isoprene Emission: an Alternative View of Sanadze's Double Carboxylation Scheme	21
<i>Russell K. Monson, Michael J. Wilkinson, Nathan D. Monson, Nicole Trahan, Stanfield Lee, Todd R. Rosenstiel, Ray Fall</i>	
Biosynthesis and Accumulation of Isoprenoid Carotenoids and Chlorophylls and Emission of Isoprene by Leaf Chloroplasts	30
<i>Hartmut K. Lichtenthaler</i>	
The Morphological and Cytogenetic Study of Microsporogenesis of New Synthesized Amphidiploid <i>Triticum sinskopaleocolchicum</i> Gandil. (2n=42) with Genomic Composition A^SA^SA^UA^UBB	42
<i>Zh. Sakaryan, A.E. Avakyan, M.G. Arutyunyan, M.Ts. Hovannisyan</i>	
Ecological Monitoring of the Soils of the Basin of the Rivers Gusarchay-Gudyalchay of the North-East Part of Azerbaijan	46
<i>G. Sh. Mammadov, G. M. Abdullayeva</i>	
Ecological Feature and Estimation of Soils of Arid Thin Forests of Turianchay State Reserve	49
<i>T.A. Kholina</i>	
The Influence of Systemic Fungicides <i>in vivo</i> of Functioning of Some Oxides of Plants	53
<i>M.V. Kurashvili, M.S. Gordeziani, T.G. Varazi, T.I. Ananiashvili, N.D. Kordzadze, A.D. Chubinidze</i>	
The Ecological Features of the Three Varieties of False Spider Mites (Family <i>Temuipalpidae</i>) of Fauna of Armenia	57
<i>K.P. Dilbaryan</i>	
The Influence of Joint Application of Natural Meliorants and Organic Fertilizers on Changing the Mobile Forms of Heavy Metals in Technogene-Polluted Soils in Noemberyan Region	60
<i>H. E. Khachatryan</i>	
The Research on the Dynamics of Detoxification of Arrivo and Topaz upon Treatment of Tomato by Spraying and Drop Methods under the Green House Conditions	62
<i>L.H. Adjemyan, V.S. Mirzoyan, K.V. Avetisyan, V.V. Mokatsyan</i>	
Comparative Investigation of Tomato Local Varieties and American Hybrids	64
<i>G. V. Avagyan</i>	
Prognosis of the Physiological Conditions of <i>Cerambyx cerdo</i> L. in Georgia with the Methods of Hematological Analysis	67
<i>M.S. Chkoidze</i>	
Alkaliphilic Actinomycetes of Some Soils of Eastern Georgia	70
<i>D.T. Pataraya, M.A. Gurielidze, T.A. Berishvili, N.T. Cholokava, G.V. Zaalishvili, T.R. Urushadze, R.M. Khvedelidze</i>	
Selection of Bacteria Degrading Sodium Pentachlorophenolate	75
<i>L.L. Amiranashvili, N.A. Gagelidze, T.E. Jimshelishvili, T.Z. Sachaneli, L.D. Zuroshvili, Kh.J. Varsimashvili, L.M. Tinikashvili</i>	
Average Statistical Parameters of Mobile Zinc in Raw-Humus Calcareous Soils of Western Georgia	78
<i>N.T. Nikoleishvili</i>	
Nutrient Reserve Forms of Potassium in Some Soils of Azerbaijan	83
<i>V.V. Bashirov</i>	
Effective Technology of Mixed Grass Crop Growing from Legume Cereals	86
<i>R. A. Sahakyan, A.R. Baghranyan, G.A. Tovmasyan</i>	
Amelioration of Sodium Solonetz-Solochak of Ararat Plain by Using HCL-Industrial Waste of Scientific-Industrial Association "Nairit"	88
<i>V.A. Papinyan, V.N. Nuriganyan, A.S. Hovhannisyan, R.R. Manoukyan</i>	
Migration of Heavy Metals in the System of the Soil-Plant in Lenkoran Region	92
<i>A.B. Akhundova, M.Z. Zarkua, H.J. Salimova</i>	
Agrochemical Peculiarities of the Main Soils of Georgia	95
<i>O.I. Zardalishvili, T.F. Urushadze, A.T. Txelidze, T.T. Urushadze</i>	

ECOLOGICAL AGRICULTURE AND NATURE CONSERVATION	
Soil-Ecological Peculiarities of the Absheron Peninsula in Azerbaijan <i>V.A.Babayev</i>	100
AGROENGINEERING	
The Evolution of Changes Internal Pressure of Tires of Vehicles Exploting in Mountain Conditions <i>A. P.Tarverdyan, G. S. Yeritsyan</i>	103
Substantiation of Parameters of Heating Pump Heliosystem of Heating Installation for the Combined Drying of Vegetative Raw Material <i>V.N.Javruyan, A.V. Hovhannisyan, A.R.Simonyan, A.S.Martirosyan</i>	197
Energetic-Technological Efficiency of Replacing Field Boards of Ploughs with Road-Rollers (Second Information) <i>A.A. Hovhannisyan</i>	111
Influence of Morphometrical and Hydraulic Characteristics on the Form of Cross-Section of a Channel <i>I.G.Kruashvili, E.C. Kukhalashvili, I.D.Inashvili</i>	114
Investigation of the Process of Concentration of Natural Fruit Juices using the Theory of Similarity and Dimensions <i>J. V. Katsitadze, E D. Katsitadze, T. A. Chuchulashvili</i>	117
VETERINARY SCIENCE AND ANIMAL HUSBANDRY	
The Cattle Infestation by Some Roundworms and Protozoa in Different Natural-Climatic Zones of Armenia <i>L.A. Movsisyan</i>	120
Possibilities of the Mechanizm of Biochemical Adaptation to Environmental Conditions for 5 Species of Anura Spreaded in Armenia <i>E. M. Yegiasaryan, E. Kh. Barsegyan, M. A.Davtyan</i>	123
The Peculiarities of the Determination of the Morphophysiological Conditions of Living in the Kura River Fishes <i>G. S. Kvinikhidze, A.T. Kvesitadze, J.N. Fidler</i>	127
Death of the New-Born Piglets During the Syndrome MMA <i>T.K.Kurashvili, R.D.Chanturidze</i>	133
About the Epizootic Process of Main Nematodosis of Digestive Tract of Rabbits in Georgia <i>M.A. Mosidze</i>	135
Cumulative Properties of Sulfonol <i>Sh. A. Makaradze</i>	139
Intravenous Chlorpromazino-Procaïne Application in Dogs <i>V.I. Tvaliashvili, A.I. Ruadze, S.B. Chapidze</i>	142
Beef Production in the Zone of Intensive Agriculture <i>L.A. Tortladze</i>	145
Peculiarities of Sodium, Calcium and Chlorine Metabolism of Broilers <i>M.K Kurashvili, N.J. Vepkhvadze</i>	150
TECHNOLOGY OF PROCESSING OF AGRICULTURAL PRODUCTS	
The New Products for Children Nutrition <i>A.V.Khotivari, G.Z.Grigorashvili, I.V.Kupatadze</i>	153
Participation of N-Galactoside in the Process of Formation of Melanoidins <i>I.G. Abdushelishvili, R.I. Kublashvili, Z.A. Kuratashvili, B.C. Tsereteli</i>	156
Influence of Gamma Rays on Aminoacid Composition of Radiationally Processed Foodstuff <i>S. I. Sahradyan, V. S. Voskanyan</i>	160
New Technology of Cheese Production <i>Z.I. Tskhvedadze, G. T. Begheluri, E.G. Kalandia, N.F. Chitaidze</i>	164
FORESTRY	
The Growth and Productivity of <i>Corylus colurna L.</i> in North Eastern Armenia <i>A.H. Ghulijanyan</i>	166
Structure and Natural Restoration of Dark Coniferous Forests of Adjara <i>M.A. Svanidze, N.B. Mamuladze</i>	169

Penetration of Liquid Atmospheric Precipitation Through Canopy of Basic Formations of Subalpine Forests <i>O.I. Dvalishvili</i>	173
ECONOMICS	
The Socio-Economic State of the Population and the Ways of its Improvement in Lori Marz <i>A.T.Kirakosyan</i>	177
The Problems about the Development of the Social-Ecological-Economic System <i>N.G. Afyan</i>	179
Georgian Food Security Analysis: Problems and Prospective <i>P.P. Koguashvili, G.V. Zibzibadze</i>	182
Some Issues of the Regulation of Banking Activity <i>S.S. Sukiassyan</i>	187
Tea Growing in Georgia: The Reasons of Crisis, Ways of Rehabilitation and Prospects <i>R.Kh. Jabnidze</i>	190
The Role of Professional Organization in Development of Accounting and Auditing of Armenia <i>H.G. Mnatsakanyan</i>	192
REVIEW	
A Useful Monograph <i>T.F. Urushadze, O.I. Dvalishvili</i>	195
JUBILEE	
A Hard Path of a Scientist (<i>Acad. G.A. Sanadze – 80</i>)	196
Great Path of the Great Scientist (<i>Alekperov Kazim Abdulmanaf - Dedicated to centenary</i>)	199
OBLITARY	
In Memory of Giorgi N. Gigauri (1924-2009)	202
Guide for Authors	204