

Founder: Federal State Autonomous Educational Institution
of Higher Education "Northern (Arctic) Federal University
named after M.V. Lomonosov"



Registration certificate ПИ no. ФС 77-67711
issued on November 10, 2016 by the Federal
Service for Supervision in the Sphere
of Communications, Information Technology and Mass
Communications (Roskomnadzor)

Subscriptional index of the journal – 38565

Vol. 20, no. 1 2020

CONTENTS

Editor in Chief I.N. Bolotov

Deputy Chief Editor B.Yu. Filippov,
Yu.V. Bespalaya,
M.V. Nikitina

Executive Secretary E.V. Uglyumova

Editorial Board:

V.S. Aslanov (Russia), G. Binder (France),
K.G. Bogolitsyn (Russia), I.N. Bolotov (Russia),
L. Brigham (USA), A.N. Chilingarov (Russia),
H.-D. Engelmann (Germany), O.N. Ezhov (Russia),
I.E. Frolov (Russia) V.P. Gergel' (Russia),
S. Grozdev (Bulgaria), M.G. Gubaidullin (Russia),
A.I. Zeyfman (Russia), L. Lajunen (Finland),
A.I. Malov (Russia), E.N. Nakvasina (Russia),
J. Niemela (Finland), A.P. Novoselov (Russia),
M. Ozgo (Poland), O. Pokrovsky (France),
E.V. Polyakova (Russia), V.N. Popov (Russia),
L.S. Shirokova (Russia) L.B. Sokolinskiy (Russia),
P. Stougaard (Denmark), L. Urbaniaik (Poland),
I.V. Khmelinsky (Portugal), O.A. Shpigun (Russia)

GEOSCIENCES

- Romanov E., Shabanova C., Nakvasina H., Popova A., Kosareva H. Dependence of proportions and seasonal application of saponite water suspension as ameliorant on acidic properties of soil..... 10

- Belozerov I.P., Gubaidullin M.G., Yuriev A.V. Analysis of the core microstructure of terrigenic reservoirs based on lithological-petrographic studies to support the creation of digital core model... 37

BIOLOGY

- Potapov G.S., Kolosova Yu.S. *Bombus (Pyrobombus) jonellus* (Kirby, 1802) in the north-western Russian Plain: its distribution and ecology..... 1

- Koroleva N.E., Kopeina E.I. Rare and endangered vegetation and vascular plants in canyon “Gorodskaya shchel’ (Town Crack)” in southern part of Khibiny Mountains (Murmansk Region, Russia).... 17

- Kishchenko I.T. Growth and development of the introduced *Fraxinus* L. species in the taiga zone (Karelia) 29