

## CONTENTS

|  |     |
|--|-----|
| Editor's column .....  | ii  |
| <b>Danyo Emmanuel Kormla, Ivantsova Maria N., Selezneva Irina S.</b> Ionizing radiation effects on microorganisms and its applications in the food industry.....   | 1   |
| <b>Halavach Tatsiana M., Kurchenko Vladimir P., Tarun Ekaterina I., Romanovich Roman V., Mushkevich Natalia V., Kazimirov Alexander D., Lodygin Aleksei D., Evdokimov Ivan A.</b> Chitosan complexes with amino acids and whey peptides: Sensory and antioxidant properties .....        | 13  |
| <b>Prasad Jaishankar, Dixit Aishwarya, Sharma Sujata P., Mwakosya Anjelina W., Petkoska Anka T., Upadhyay Ashutosh, Kumar Nishant</b> Nanoemulsion-based active packaging for food products .....  | 22  |
| <b>Herrera Nora Gabriela, Villacrés Nelson Adrián, Aymara Lizbeth, Román Viviana, Ramírez Mayra</b> Composite exopolysaccharide-based hydrogels extracted from <i>Nostoc commune</i> V. as scavengers of soluble methylene blue .....  | 37  |
| <b>Bugaets Olga N., Bugaets Ivan A., Kaigorodova Elena A., Zelentsov Sergey V., Bugaets Natalia A., Gerasimenko Evgeny O., Butina Elena A.</b> Soybean testa spectral study .....  | 47  |
| <b>Eremeeva Natalia B.</b> Nanoparticles of metals and their compounds in films and coatings: A review .....   | 60  |
| <b>Perevozchikova Maria A., Domsy Igor A., Sergeyev Alexey A.</b> Hematological parameters of free-ranging moose <i>Alces alces</i> (Linnaeus 1758) ( <i>Ruminantia</i> , <i>Cervidae</i> ) .....  | 80  |
| <b>Evdokimov Ivan Yu., Malkova Angelina V., Irkitova Alena N., Shirmanov Maxim V., Dementev Dmitrii V.</b> Effect of a new probiotic on <i>Artemia</i> cysts determined by a convolutional neural network .....  | 91  |
| <b>Romanova Mariia V., Dolbunova Anastasiia N., Epishkina Yulia M., Evdokimova Svetlana A., Kozlovskiy Mikhail R., Kuznetsov Alexander Ye., Khromova Natalya Yu., Beloded Andrey V.</b> A thermophilic L-lactic acid producer of high optical purity: Isolation and identification ..... | 101 |
| <b>Gaikwad Vaibhav, Kaur Jaspreet, Rasane Prasad, Kaur Sawinder, Singh Jyoti, Kumar Ankit, Kumar Ashwani, Sharma Nitya, Mehta Chandra Mohan, Pate Avinash Singh</b> Nutritional significance of finger millet and its potential for using in functional products .....                   | 110 |
| <b>Tikhonov Sergei L., Tikhonova Natalia V., Gette Irina F., Sokolova Ksenia V., Danilova Irina G.</b> Antihyperglycemic activity of colostrum peptides .....  | 124 |
| <b>Phuong Do Viet, Nguyen Luu Thao</b> Coffee pulp pretreatment methods: A comparative analysis of hydrolysis efficiency .....   | 133 |
| <b>Azizpour Nasim, Razavi Seyed Hadi, Azizpour Mehran, Poul Esmaeil Khazaei</b> The effect of post-packaging pasteurization on physicochemical and microbial properties of beef ham .....  | 142 |
| <b>Hussein Ahmed M. S., Abd El-Aal Hala A., Morsy Nahla M., Hassona Mohamed M.</b> Chemical, rheological, and sensory properties of wheat biscuits fortified with local buckwheat .....  | 156 |
| <b>Rincón Soledad Edicson Mauricio, Arredondo Nontién Mónica Alejandra, Castro Jose Wilson, Barrios Dursun, Vásquez Mejía Sandra Milena</b> Chorizo sausage with shiitake mushrooms ( <i>Lentinula edodes</i> ) as a fat substitute: quality evaluation .....                            | 168 |
| <b>Zenu Fuad, Bekele Tesfaye</b> Major food-borne zoonotic bacterial pathogens of livestock origin: A Review .....   | 179 |
| <b>Belashova Olga V., Kozlova Oksana V., Velichkovich Natalia S., Fokina Anna D., Yustratov Vladimir P., Petrov Andrey N.</b> A phytochemical study of the clover growing in Kuzbass .....   | 194 |