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## Morphology, Anatomy, Cytology

### **Taxonomy, morphology and distribution of a rare species, *Navicula schmassmannii* Hust. (*Bacillariophyta*)**

Genkal S.I.<sup>1</sup>, Yarushina M.I.<sup>2</sup>  
Algologia 2017, 27(4): 361–370

### ***Protoperidinium sphaericum* (G. Murr. et Whitting) Balech (History of study, morphology and synonymy)**

Krakhmalnyi A.F.<sup>1</sup>, Zarei Darki B.<sup>2</sup>  
Algologia 2017, 27(4): 371–381

## Physiology, Biochemistry, Biophysics

### **Fatty acid composition of cocoid green algae as a basis for energy and primary products potential. 1. *Chlorella*- and *Acutodesmus*-like microalgae (*Chlorophyta*)**

Tsarenko P.M.<sup>1</sup>, Konischuk M.A.<sup>1</sup>, Korkhovoy V.I.<sup>2</sup>, Kostikov I.Yu.<sup>3</sup>, Blume Ya.B.<sup>2</sup>  
Algologia 2017, 27(4): 382–402

### **Rapid method for simultaneous discrimination of microalgae and determination on biochemical composition based on vibrational spectroscopy**

Sureshkumar P.<sup>1</sup>, Thomas J.<sup>1</sup>, Sivasubramanian J.<sup>2</sup>  
Algologia 2017, 27(4): 403–414

### **Accumulation of chromium and selenium inside cells and in lipids of *Chlorella vulgaris* Beij. during the incubation from chromium by sodium chloride and selenium**

Lukashiv O.Ya., Bodnar O.I., Vinyarska G.B., Grubinko V.V.  
Algologia 2017, 27(4): 415–425

## Flora and Geography

### **Species diversity and ecology of *Charales* (*Charophyta*) of the zone of deciduous forests of Ukraine**

Borisova E.V.  
Algologia 2017, 27(4): 426–435

### **Taxonomic revision of the species composition of *Cyanobacteria/Cyanoprokaryota* of the Ukrainian coast of the Black Sea**

Vinogradova O., Bryantseva Yu.  
Algologia 2017, 27(4): 436–457 <https://doi.org/10.15407/alg27.04.436>  
Abstract | Full text: PDF [Rus]

### **New localities of rare species of *Charales* in Northwestern Belarus**

Vishnyakov V.S.<sup>1</sup>, Savitskaya K.L.<sup>2</sup>, Lapirova A.G.<sup>1</sup>, Belyakov E.A.<sup>1,3</sup>, Garin E.V.<sup>1</sup>, Makarevich O.A.<sup>4</sup>, Zhukova T.V.<sup>5</sup>  
Algologia 2017, 27(4): 458–472

## **New Taxa and Noteworthy Records**

### **Rare species of algae from the reservoirs of Kiev Upland (Ukraine)**

Berezovskaya V.Yu.

Algologia 2017, 27(4): 473–484