



# The Clay Minerals Society

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## NEW ISSUES OF CLAYS AND CLAY MINERALS

Three new issues of *Clays and Clay Minerals* have been published recently.

*In order to view the full-text version, Clay Minerals Society members should go to <https://cms.clays.org/SpringerLink.html> and enter their CMS username (email address) and password. Contact Mary Gray ([cms@clays.org](mailto:cms@clays.org)) at the CMS office if you have any queries about access.*

### August 2019 issue

**Photocatalytic activity of La-containing mixed-metal oxides derived from layered double hydroxides to degrade methylene blue in the presence of H<sub>2</sub>O<sub>2</sub>**  
Minhong Xu, Mengxia Qian, Guoxiang Pan, Yuhua Guo, and Tao Wu

**Preparation of a hierarchical pore zeolite with high-temperature calcination and acid-base leaching**  
Chengdong Wang, Jinhong Li, Xiang Wang, Zhiwei Yang, and Kaiyue Huang

**Synthesis of magneitic Fe<sub>3</sub>O<sub>4</sub> nanorings for BSA protein adsorption**

Xiaonan Liu, Youkui Zhang, Liang Bian, and Jinshan Li

**Surface-modified sepiolite nonofibers as a novel lubricant additive**

Fei Wang, Peizhang Gao, Jinsheng Liang, Baizeng Fang, Tingting Zhang, and Huimin Liu

**Competitive adsorption of uranyl and toxic trace metal ions at MFe<sub>2</sub>O<sub>4</sub> (M = Mn, Fe, Zn, Co, or Ni) interfaces**

Xiaoqiang Jiang, Jianan Nie, Liang Bian, Faqin Dong, Mianxin Song, Yi He, Huichao He, Zhiqin Zheng, Tingting Huo, Bowen Li, Nelson Belzile, Shuhui Sun, and Hao Zou

**Preparation and characterization of high-viscosity montmorillonite**  
Limei Wu, Xiaolong Wang, Mingyu Zhao, Fei Gao, Lili Gao, Guocheng Lv, Li Yin, and Changwei Xu

**Simultaneous immobilization of Zn(II) and Cr(III) in spinel crystals from beneficial utilization of waste brownfield-site soils**

Fei Wu, Yuanyuan Tang, Xingwen Lu, Chengshuai Liu, Yahui Lv, Hui Tong, Zengping Ning, Changzhong Liao, and Fangbai Li

**Synthesis and adsorption desulfurization performance of modified mesoporous silica materials M-MCM-41 (M = Fe, Co, Zn)**

Yu-Hua Guo, Guo-Xiang Pan, Min-Hong Xu, Tao Wu, and Yong-Ya Wang

**Effects of black liquor-montmorillonite complexes on the mechanical and thermal properties of epichlorohydrin rubber**

Zhipeng Yu, Yating Tan, Qionglin Luo, Xi Wang, and Shengpei Su

**Photocatalytic degradation of Methylene Blue over layered double hydroxides using various divalent metal ions**

Guoxiang Pan, Minhong Xu, Kai Zhou, Yue Meng, Haifeng Chen, Yuhua Guo, and Tao Wu

**Photo-assisted catalytic removal of NO<sub>x</sub> over La<sub>1-x</sub>Pr<sub>x</sub>COO<sub>3</sub>/palygorskite nanocomposites: Role of Pr doping**

Kenian Wei, Xiangyu Yan, Shixiang Zuo, Wei Zhu, Fenqin Wu, Xiazhang Li, Chao Yao, and Xiaoheng Liu

**Effect of calcination temperature on the structure of chitosan-modified montmorillonites and their adsorption of aflatoxin B1**

Chi Lian, Gaofeng Wang, Wenqiang Lv, Zhiming Sun, and Shuilin Zheng

Enver Murad – Obituary

### October 2019 issue

**Geology, mineralogy, geochemistry, and genesis of bentonite deposits in Miocene volcano-sedimentary units of the Balıkesir region, western Anatolia, Turkey**

Selahattin Kadir, Tacit Kulah, Hulya Erkoyun, George E. Christidis, and Raffi Arslanyan

**Improved matrix methodology for calculating diffraction intensity profiles from interstratified phyllosilicates**

Hongji Yuan and David L. Bish

**Influence of octahedral cation distribution in montmorillonite on interlayer hydrogen counter-ion retention strength via first-principles calculations**

Yayu W. Li, Cristian P. Schulthess, Kevin Co, Sanjubala Sahoo, and S. Pamir Alpay

**The effects of oxyanion adsorption on reactive oxygen species generation by titanium dioxide**

Mary R. Arenberg and Yuji Arai

**Characterization of altered mica from Sokli, northern Finland**

M. Rama, O. Eklund, S. Fröjdö, J.-H. Smätt, M. Lastusaari, and T. Laiho

**atom: A MATLAB package for manipulation of molecular systems**

Michael Holmboe

**Enhancement of amorphous silica dissolution by interaction with six-membered ring heterocyclic compounds**

Motoharu Kawano and Jinyeon Hwang

### December 2019 issue

**Synthesis, structure, and ferroelectricity of a kaolinite-p-amino-benzamide intercalation compound**

Shun-Ping Zhao, Yu Guo, Miao-Miao Zhu, Jie Wang, Xiao-Liang Feng, Qiao Qiao, and Heng Xu

**Crystallization variations in clay minerals with latitude in Jilin Province, China: a climate perspective**

Yating Chen, Qing Wang, Yan Han, Mengxia Han, Jiejie Shen, Yuanyuan Kong, and Xudong Zhang

**Arsenic-bearing serpentine-group minerals: Mineral synthesis with insights for the arsenic cycle**

P. C. Ryan, F.J. Huertas, L. N. Pincus, and W. Painter

**Photoreduction of methylviologen in saponite clay: effect of methylviologen adsorption density on the reaction efficiency**

Takuya Fujimura, Tetsuya Shimada, Ryo Sasai, and Shinsuke Takagi

**Giant multistep crystalline vs. osmotic swelling of synthetic hectorite in aqueous acetonitrile**

Raphael Kunz, Sonja Amschler, Andreas Edenharter, Lina Mayr, Sebastian Herlitz, Sabine Rosenfeldt, and Josef Brey

**On the thermodynamic stability of illite and I-S minerals**  
Stephen U. Aja

**Bentonite/magnetite composite for removal of nitrofurazone**

Olga V. Alekseeva, Anna N. Ridionova, Andrew V. Noskov, and Alexander V. Agafonov

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