

CONTENTS

Review			
<i>Babanly M. B., Mashadiyeva L. F., Imamaliyeva S. Z., Babanly D. M., Tagiyev D. B., Yusibov Yu. A.</i>		<i>Zelenina L. N., Rodionova T. V., Chusova T. P., Sartakova A. V., Manakov A. Yu.</i>	
Complex copper-based chalcogenides: a review of phase equilibria and thermodynamic properties	579	Physicochemical study of the processes of β -cyclodextrin hydrates dehydration	716
<i>Bekker T. B., Davydov A. V., Sagatov N. E.</i>		<i>Nabiyev E. R., Orujlu E. N., Aghazade A. I., Hasanov A. A., Babanly M. B.</i>	
Functional borates and their high-pressure polymorphic modifications. Review	620	The solid-phase equilibria in the GeBi_2Te_4 - SnBi_2Te_4 - Bi_2Te_3 system at 300 K and the characterization of tetradymite-type layered solid solutions	725
<i>Vasilyeva I. G.</i>		<i>Omarov Sh. O., Pakhomov N. A.</i>	
Nonstoichiometry of refractory inorganic compounds with a volatile component determined by new methods of physicochemical analysis. Review	633	The effect of the aging time of the $\text{ZrO}_2 \cdot n\text{H}_2\text{O}$ coagel: features of its phase formation and the evolution of its adsorption properties	732
<i>Zavrzhnov A. Yu., Brezhnev N. Yu., Nekrylov I. N., Kosyakov A. V., Kostryukov V. F.</i>		<i>Semenova G. V., Sushkova T. P., Golentsova A. N.</i>	
Phases with layered (AB) and "defective" (A_2B_3) structures in $\text{A}^{\text{III}}\text{-B}^{\text{VI}}$ systems. Part 1. Structural uniqueness and properties of bulk samples and films. Review	646	Phase subsolidus separation of the Ge-P-Sn ternary system	745
<i>Lutsyk V. I., Zelenaya A. E., Vorob'eva V. P.</i>		<i>Sinyakova E. F., Kokh K. A.</i>	
Phase transformations in systems formed by titanium, silicon, aluminum, and zirconium oxides: Phase diagrams prediction and modeling. Review	666	Behavior of major and minor elements during directional crystallization of Fe-Ni-Cu-S-(Rh, Ru, Ir, Pt, Pd, Ag, Au) melt	755
<i>Fedorov P. P., Buchinskaya I. I.</i>		<i>Fedorov P. P.</i>	
Sodium fluoride and rare earth trifluorides systems. Review	687	Labile states are the basis of functional materials	772
Original articles		Short communication	
<i>Vasilyeva I. G., Sinyakova E. F., Gromilov S. A.</i>		<i>Gavrichev K. S., Guskov V. N., Gagarin P. G., Guskov A. V.</i>	
Phase transformations of ternary copper iron sulfide $\text{Cu}_{1.1}\text{Fe}_{1.9}\text{S}_{3.0}$ under temperature variations: thermodynamic and kinetic aspects	706	Evaluation of the thermodynamic stability of $\text{REMgAl}_{11}\text{O}_{19}$ (RE = La, Pr, Nd, Sm) hexaaluminates with a magnetoplumbite structure in the high temperature region	782