

## **THE MAIN ACHIEVEMENTS IN GEOLOGY OF THE REPUBLIC OF UZBEKISTAN**

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The cardinal achievements in geology of Uzbekistan Republic were connected with new geological discoveries and researches which are the matter of principle and exert influence on mineral and raw-material base. They are the follows: revealing in European-Asian continent of giant gold-bearing megastockwork type Muruntau deposit of world importance. Mineralization locates within black-shale series (O3 - S1), and occupies area 3 km<sup>2</sup>, gold ores extends up to 1.2 km vertically; exposure of stratified-infiltration type of uranium deposits within Mesozoic- Cenozoic deposits, which are regenerated after underground leaching; discovery of the big deposits of hydrocarbons in connection with reefs within the Upper Jurassic formations; discovery of the new genetic and commercial type of lithium deposit within caldera of Permian volcanic-sedimentary formations; discovery of diamond mineralization of non-kimberlite type in alkali-basaltoids and carbonatites; elucidation and typification of various ore-bearing volcanic, volcanic-tectonic and volcanic-plutonic structures of Late Paleozoic age in connection with orogenic volcanism and mantle diapir tectonics. These structures have been three-dimensional considered as ore-magmatic systems in which periferal magmatic chambers - intrusions sometimes are stripped; revealing of the unique hoofed dinosaurs footprints in Cenomanian deposits. These and other discoveries have been expounded in Atlas on geology and mineral resources of Uzbekistan Republic. It contains much modern information on geology and mineral-raw materials of Uzbekistan Atlas consists of three books. In the first of them there are series of maps on 1:2 000 000 and 1:500 000 scale. The second book is the explanatory memorandum for maps. The Cadastre of all metalliferous, non-metalliferous, liquid and gaseous mineral resources is the third book. Atlas contains much useful geological and economic information and one can use it as a reference book.