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Nanomateria	als and Nanotech	nologies			

The materials of the reports in the condition and the development of nanotechnology and nanomaterials creation discussed in the meetings of the year's collection of the Russia academy of sciences and the Ministry of the industry, science and technologies of Russia Federation are stated. The acquaintance of the readers of the journal with point of view of the leading scientists of the Russia to the perspectives of nanotechnology will make possible to get the objective estimate of the future efforts in this area of the knowledges.

The integral silicon microthermoanemometer as a universal sensor for construction of flow transducers of fluid and gaseous mediums is presented. The design which allow to use the different schemes of including of heater and temperature sensitive resistive components for regulation of parameters of process of measurement of flow velocity is offered. The methods of measurements of the flow used at making of thermal flowmeters on the basis of a microthermoanemometer are shown.

The method is suggested, it's developed and justified the constructive algorithm of the fast solution in the space area of the inverse incorrect problem concerned with the estimation of the initial representation by the collection of the observed "greased" representations of low resolution having the regular coordinate displacement.

Vasiliev V. A. Synergetics Principles and the Manifestation of the Synergetic Appearances in the Structures of the Ionic Semiconductors.

The development of the new interdiscipline direction synergetics is researched. The principles, problems and subject o the investigation of the synergetics are determined and realized. The necessary and sufficient conditions when it is possible the selforganization in system are discovered. The rigid solutions of the semiconductors alloyed by the different ingredients are considered and the manifestation of the interation of the systems elements and their selforganization on microlevel is investigated. The interact of the lattice's elements of solid state structure and free charge mediums with use relative to not complicated model is studied.

Letuta S. N., Lantukh Yu. D., Pashkevitch S. N., Alidjanov E. K. Photosensitized Reactions in Dyed Solutions of Nucleic Acids.

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