

Сведения о научном руководителе
диссертации Насриддинова Абулкосима Фирузджоновича
«Материалы для газовых сенсоров на основе нанокристаллических
SnO₂ и In₂O₃, модифицированных фотосенсибилизаторами»

Научный руководитель: Румянцева Марина Николаевна

Ученая степень: доктор химических наук

Ученое звание: -

Должность: профессор кафедры неорганической химии

Место работы: Химический факультет, Московский Государственный Университет имени М.В. Ломоносова

Адрес места работы: 119991, Россия, Москва, Ленинские Горы, д. 1, стр. 3

Тел.: +7 (495) 939-54-71

E-mail: roum@inorg.chem.msu.ru

Список основных научных публикаций по специальности 1.4.15 – «Химия твердого тела» за последние 5 лет:

1. Gu D., Liu W., Wang J., Yu J., Zhang J., Huang B., **Rumyantseva M.N.**, Li X. Au Functionalized SnS₂ Nanosheets Based Chemiresistive NO₂ Sensors // Chemosensors, 2022, v. 10, № 5, p. 165.
2. Nasriddinov A., Tokarev S., Platonov V., Botezzatu A., Fedorova O., **Rumyantseva M.**, Fedorov Yu. Heterobimetallic Ru(II)/M (M = Ag⁺, Cu²⁺, Pb²⁺) Complexes as Photosensitizers for Room-Temperature Gas Sensing // Molecules, 2022, v. 27, № 16, p. 5058.
3. Marikutsa A., Khmelevsky N., **Rumyantseva M.** Synergistic Effect of Surface Acidity and PtO_x Catalyst on the Sensitivity of Nanosized Metal–Oxide Semiconductors to Benzene // Sensors, 2022, v. 22, № 17, p. 6520.
4. Chizhov A., Kutukov P., Gulin A., Astafiev A., **Rumyantseva M.** UV-Activated NO₂ Gas Sensing by Nanocrystalline ZnO: Mechanistic Insights from Mass Spectrometry Investigations // Chemosensors, 2022, v. 10, № 4, p. 147.
5. Nasriddinov A., Tokarev S., Fedorova O., Bozhev I., **Rumyantseva M.** In₂O₃ Based Hybrid Materials: Interplay between Microstructure, Photoelectrical and Light Activated NO₂ Sensor Properties // Chemosensors, 2022, v. 10(4), p. 135.
6. Gulevich D., Gerasimov E., Marikutsa A., Khmelevsky N., **Rumyantseva M.** Cooperative effect of PdO_x and SiO₂ in CO detection by SnO₂-based gas sensors: thorough operando DRIFTS analysis // Journal of Alloys and Compounds, 2022, v. 893, p. 162297.
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9. Chizhov A., **Rumyantseva M.N.**, Drozdov K.A., Krylov I.V., Batuk M., Hadermann J., Filatova D.G., Khmelevsky N.O., Kozlovsky V.F., Maltseva L.N., Gaskov A.M. Photoresistive gas sensor based on nanocrystalline ZnO sensitized with colloidal perovskite CsPbBr₃ nanocrystals // Sensors and Actuators, B: Chemical, 2021, v. 329, p. 129035.

10. Marikutsa A., **Rumyantseva M.**, Konstantinova E., Gaskov A. The Key Role of Active Sites in the Development of Selective Metal Oxide Sensor Materials // *Sensors*, 2021, v. 21, p. 1-43.
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Ученый секретарь
диссертационного совета МГУ.014.8,
Еремша Е.А.



Еремша Е.А.
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