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Публикации

Статья

Phosphonic acid-functionalized g-C₃N₄ nanosheets for chromium (Cr⁶⁺) adsorption from aqueous solutions: Experimental insights and density functional theory calculations

Irina Piyanzina, Mohammad Khajavian, Dmitrii A. Tayurskii, Oleg V. Nedopekin, Vahid Vatanpour,

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Inorganic Chemistry Communications 2025 113971

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First-principles design of GaN-VHC (H = Cl, Br; C = Se, Te) van der Waals heterostructures for advanced optoelectronic applications

Piyanzina Irina, Sheraz Ahmad, Shah Saleem Ullah, Haleem Ud Din, Cuong Q. Nguyen

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Magnetoelectric and spin-lattice effects in Fe/BaTiO₃ heterostructure: non-collinear DFT calculations

Piyanzina I. I., Burganova R., Kamashev A. A., Mamin R. F.

Magnetic Resonance in Solids 2025 25203

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A DFT study on an 18-crown-6-like-N₈ structure as a material for metal ion storage: stability and performance

Hayk Zakaryan, Irina I. Piyanzina, Sadegh Kaviani, Regina M. Burganova, Oleg V. Nedopekin

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Realization of Mn⁶⁺NIR-II broadband emission in BaCrO₄ and its nanolization via liquid-solid method

Irina I. Piyanzina, Linyun Zeng, Chunli Li, Wenjing Huang, Jiahui Zhang, Zafari Umar, Yuliya Bokshyts, Bekhzodjon Abdurahmonovich Abdurakhimov, Peican Chen, Xinguo Zhang

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Design and strain engineering of stable 2D TiSi₂N₄ photocatalyst: first-principles insights into water splitting and visible-light absorption

Irina Piyanzina, Sheraz Ahmad, Haleem Ud Din

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DFT investigation of magnetocrystalline anisotropy in Fe, Co, Pd_{0.97}Co_{0.03} and Pd_{0.97}Fe_{0.03} systems: from bulk to thin-films

Irina I. Piyanzina, Regina M. Burganova, Hayk Zakaryan, Zarina I. Minnegulova, Igor V. Yanilkin,

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