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TiO₂/Cu₂O/CuO Multi-Nanolayers as Sensors for H₂ and Volatile Organic Compounds: An Experimental and Theoretical Investigation

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Multifunctional Materials: A Case Study of the Effects of Metal Doping on ZnO Tetrapods with Bismuth and Tin Oxides

Postica Vasile¹, Grottrup Jorit², Adelung Rainer², Lupan Oleg²¹, Mishra Abhishek Kumar³, De Leeuw Nora H⁴⁵, Ababii Nicolai¹, Carreira Jose F.C.⁶, Rodrigues Joana L.⁶, Ben Sedrine N.⁶, Correia Maria Rosario P.⁶, Monteiro T.⁶, Şontea Victor¹, Mishra Yogendra Kumar²

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Effect of dopant on selectivity of CuO nanostructured films - Based sensors

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Magnetic and electrical properties of Mn-doped p-type β-FeSi 2 single crystals

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(CuO-Cu₂O)/ZnO:Al heterojunctions for volatile organic compound detection

Hoppe Mathias¹, Ababii Nicolai², Postica Vasile², Lupan Oleg², Polonskyi Oleksandr¹, Schutt Fabian¹, Kaps Soren¹, Suhodub Leonid³, Şontea Victor², Strunskus Thomas¹, Faupel Franz¹, Adelung Rainer¹

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Non-planar nanoscale p-p heterojunctions formation in ZnxCu1-xOy nanocrystals by mixed phases for enhanced sensors

Lupan Oleg^{1,2}, Creţu Vasiliu², Postica Vasile², Polonskyi Oleksandr¹, Ababii Nicolai², Schutt Fabian¹, Kaidas Victor¹, Faupel Franz¹, Adelung Rainer¹

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Enhanced ethanol vapour sensing performances of copper oxide nanocrystals with mixed phases

Lupan Oleg^{1,2}, Creţu Vasiliu², Postica Vasile², Ababii Nicolai², Polonskyi Oleksandr¹, Kaidas Victor¹, Schutt Fabian¹, Mishra Yogendra Kumar¹, Monaico Eduard², Tighineanu Ion², Şontea Victor², Strunskus Thomas¹, Adelung Rainer¹

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