



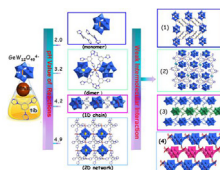
Solid State Sciences Vol 75, 2018

Graphical abstracts

pH-Directed assembly of four polyoxometalate-based supramolecular hybrids by using tritopic bridging ligand 1, 3, 5-tris-(1-imidazolyl)-benzene: Structures and electrocatalytic properties

pp. 1–8

Zhuanfang Zhang, Haijun Pang*, Huiyuan Ma**, Shaobin Li, Chunyan Zhao

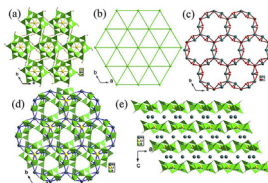


pH-Dependent syntheses of four new polyoxometalate-based supramolecular hybrids by using an unusual tritopic bridging ligand. Further, the obtained hybrids show good electrocatalytic activities toward reduction of nitrite molecules.

A novel mixed-metal borate with large $[B_{12}O_{18}(OH)_6]^{6-}$ motif: Synthesis, structure and property

pp. 9–13

Li Wei, Jie Pan, Zhen-Zhen Xue, Guo-Ming Wang*, Ying-Xia Wang

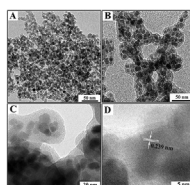


The structure features unprecedented 3D framework constructed from novel honeycomb-shaped inorganic Na-O sheets with unique 12-MR sodium rings and supramolecular polyborate 2D layers of lithium-centered $[B_{12}O_{18}(OH)_6]^{6-}$.

Preparation of carbon coated Fe_3O_4 nanoparticles for magnetic separation of uranium

pp. 14–20

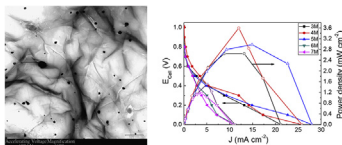
Xiaofei Zhang*, Jun Wang



Use of Pd-Pt loaded graphene aerogel on nickel foam in direct ethanol fuel cell

pp. 21–26

Chi Him A. Tsang, D.Y.C. Leung*

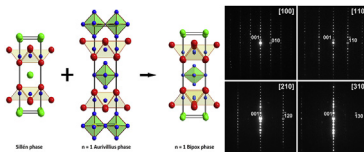


Pd-Pt/GA/NFP electrode was prepared by one-step, binder-free, and green method via mild conditioned hydrothermal reduction, which was used as anode of batch-type DEFC unit. The Pd-Pt/GA/NFP achieved the best performance with a Pd/Pt atomic ratio of 1:0.98 under a 4 M ethanol/5 M KOH solution in a DEFC unit with corresponding power output of 3.6 mW cm^{-2} .

Synthesis and structural characterization of a novel Sillén – Aurivillius bismuth oxyhalide, $\text{PbBi}_3\text{VO}_{7.5}\text{Cl}$, and its derivatives

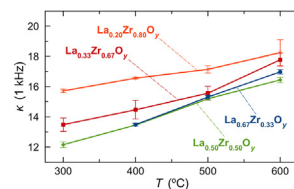
pp. 27–33

Dmitri O. Charkin, Igor V. Plokhikh*, Sergey M. Kazakov, Stepan N. Kalmykov, Victor S. Akiniev, Anatoly V. Gorbachev, Maria Batuk, Artem M. Abakumov, Yury A. Teterin, Konstantin I. Maslakov, Anton Yu Teterin, Kirill E. Ivanov

**Composition-property relationships in high- κ $\text{La}_x\text{Zr}_{1-x}\text{O}_y$ thin films from aqueous solution**

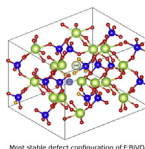
pp. 34–38

Keenan N. Woods, Danielle M. Hamann, Catherine J. Page*

**O/F-substitution in BiVO_4 : Defect structures, phase stability and optical properties**

pp. 39–44

Anna C. Ulpe, Björn Anke, Stefan Berendts, Martin Lerch, Thomas Bredow*



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