Molecular Foundry Conference and Abstract Call

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Book of Abstracts

Contents

Preparing AX2 compounds in a dry glove box	1
Test abstract from Alison	1
Bio Symposia	1
This is a test title	1
Test	2
Web Interface Trial	2
test	2
Personal email abstract apr 29	2
personal abstract #2	2

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Preparing AX2 compounds in a dry glove box.

Author: Dmitry Soustin¹

¹ LBNL

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PbCl2, SnCl2, BaCl2 and BaI2 all fall into a category of crystals known at AX2 compounds. At ambient pressure, these materials are analogue compounds that crystallize at ambient conditions in the cotunnite (orthorhombic, Pnam) structure. The next phase (post-cotunnite (monoclinic, P1121/a)) is claimed to be the final step in the structural sequence for AX2 compounds by Leger et al [1]. This holds significance because these compunds are iso-sturctural with a high pressure phase of silica, which is believed to be the primary component of rocky exoplanets.

1

Test abstract from Alison

Author: Alison Hatt1

Co-author: Nelson Coates 2

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We present the results of ab initio density functional calculations of perovskite-structure La(Al,Fe,Cr)O3. Our calculations reveal two structurally distorted ground states of opposite polarization. Motivated by the growth of three-layer superlattices with enhanced polarization, we investigate the ferroelectricity and magnetic ordering of the La(Al,Fe,Cr)O3 system with the goal of finding emergent multiferroicity due to interfacial strain and inversion symmetry breaking. Finally, we investigate constrained tetragonal LaAlO3 to determine its role in the ferroelectric properties of the supercell.

2

Bio Symposia

3

This is a test title

Author: Corinne Allen^{None}

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This is a test abstract. I really like that markdown and latex is accepted in this interface as text boxes alone are really annoying.

Maybe add some instructions if were going to have a drop down menu for the type of submission.

4

Test

Author: Francesca Toma^{None}

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Test

5

Web Interface Trial

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Blah blah blah

6

test

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test

7

Personal email abstract apr 29

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test

8

personal abstract #2

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test