

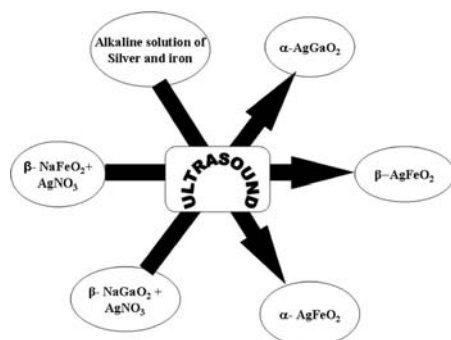
CONTENTS

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Regular Articles

Ultrasound assisted ambient temperature synthesis of ternary oxide AgMO_2 ($M = \text{Fe, Ga}$)

R. Nagarajan and Nobel Tomar
Page 1283

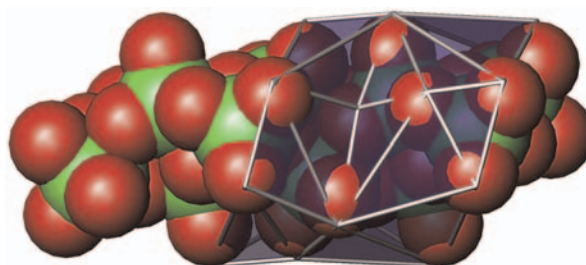


The application of ultrasound in the formation of α and β -forms of AgMO_2 ($M = \text{Fe, Ga}$) has been demonstrated.

Regular Articles—Continued

Charge density matching in templated molybdates

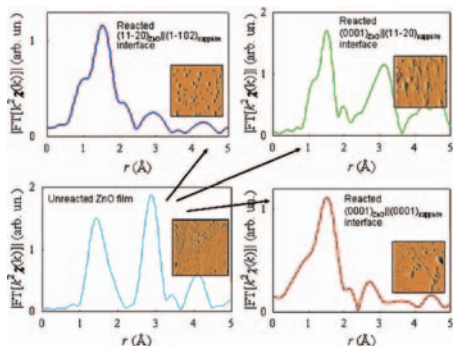
Hernan Sanchez Casalongue, Sarah J. Choyke, Amy Narducci Sarjeant, Joshua Schrier and Alexander J. Norquist
Page 1297



A geometric decomposition method for surface area determination is presented in the context of charge density matching in new organically templated polyoxomolybdates.

Nanoscale formation of new solid-state compounds by topochemical effects: The interfacial reactions ZnO with Al_2O_3 as a model system

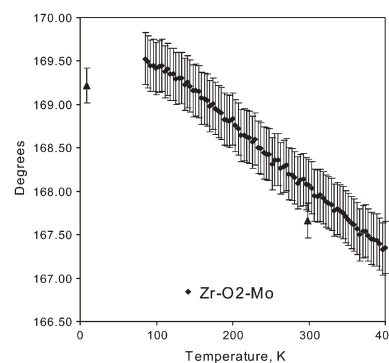
Sonia Pin, Paolo Ghigna, Giorgio Spinolo, Eliana Quartarone, Piercarlo Mustarelli, Francesco D'Acapito, Andrea Migliori and Gianluca Calestani
Page 1291



EXAFS Fourier transforms and morphology of different reactive interfaces between ZnO and Al_2O_3 .

Structural changes accompanying negative thermal expansion in $\text{Zr}_2(\text{MoO}_4)(\text{PO}_4)_2$

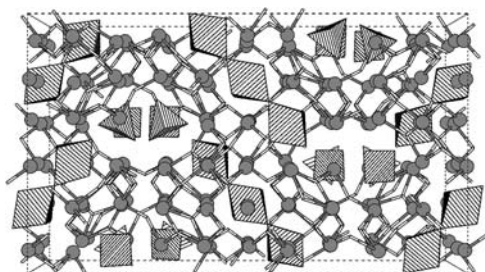
Mehmet Cetinkol, Angus P. Wilkinson and Peter L. Lee
Page 1304



Negative thermal expansion in $\text{Zr}_2(\text{MoO}_4)(\text{PO}_4)_2$ is associated with a complex pattern of structural changes that is not the same as that previously reported for $\text{Sc}_2(\text{WO}_4)_3$.

Structure and crystal chemistry of fluorite-related $\text{Bi}_{38}\text{Mo}_7\text{O}_{78}$ from single crystal X-ray diffraction and *ab initio* calculations

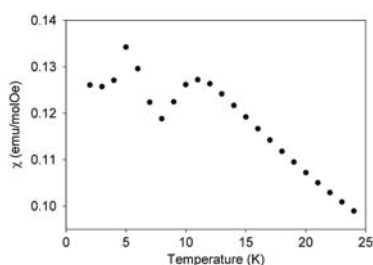
Neeraj Sharma, René B. Macquart, Mogens Christensen, Maxim Avdeev, Yu-Sheng Chen and Chris D. Ling
Page 1312



The crystal structure of $\text{Bi}_{38}\text{Mo}_7\text{O}_{78}$ with MoO_4 and MoO_6 represented as polyhedra, Bi atoms as gray spheres, and fluorite-type O atoms as white vertices of Bi–O–Bi bonds.

Magnetic and structural properties of NaLnMnWO_6 and NaLnMgWO_6 perovskites

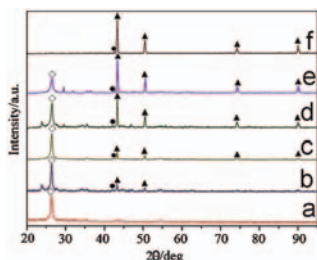
Graham King, Lora M. Wayman and Patrick M. Woodward
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Evidence for multiple magnetic phase transitions in the *A* and *B*-site ordered perovskite NaPrMnWO_6 .

Phase transformation of boron nitride under hypothermal conditions

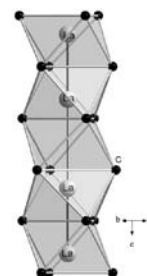
Gang Lian, Xiao Zhang, Lingling Zhu, Deliang Cui, Qilong Wang and Xutang Tao
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Phase transformations from hBN to wBN and cBN happened with the temperature increasing from 230 to 300 °C under hypothermal conditions, and nearly pure cBN has been synthesized at 300 °C and 12 MPa.

Reinvestigation and superstructure of $\text{La}_{3.67}[\text{Fe}(\text{C}_2)_3]$

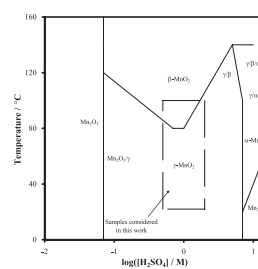
Bambar Davaasuren, Enkhtsetseg Dashjav, Guido Kreiner, Horst Borrmann and Rüdiger Kniep
Page 1331



Diffraction data reveal a superstructure with weak superstructure reflections for $\text{La}_{3.67}[\text{Fe}(\text{C}_2)_3]$ in the space group $P6_3/m$. The superstructure is caused by an ordered arrangement of La atoms along 0, 0, *z* with alternating short and long distances.

Kinetics of Mn_2O_3 digestion in H_2SO_4 solutions

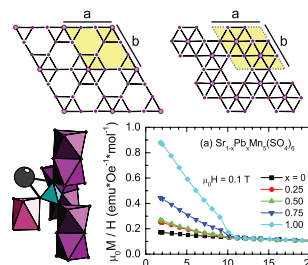
Daud K. Walanda, Geoffrey A. Lawrence and Scott W. Donne
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Manganese dioxide phase diagram resulting from the acid digestion of Mn_2O_3 .

The $A^{2+}\text{Mn}_5(\text{SO}_4)_6$ family of triangular lattice, ferrimagnetic sulfates

D.V. West, T.M. McQueen, I.D. Posen, X. Ke, Q. Huang, H.W. Zandbergen, A.J. Williams, P. Schiffer and R.J. Cava
Page 1343

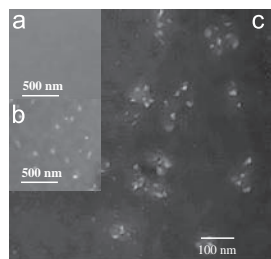


A new family sulfates, $A^{2+}\text{Mn}_5(\text{SO}_4)_6$ (*A* = Pb, Ba, Sr) is reported. Structures are solved by powder neutron diffraction. $\text{PbMn}_5(\text{SO}_4)_6$ is trigonal with lattice parameters of $a = 14.551(1)\text{Å}$ and $c = 7.535(1)\text{Å}$. The structure has dimers of face-sharing MnO_6 octahedra, and two complementary triangular layers of Mn atoms that result in a ferrimagnet. All compounds magnetically order at 10 K. Low field susceptibility varies systematically with non-magnetic cation radius.

Effect of silver on phase separation and crystallization of niobium oxide containing glasses

H. Smogor, T. Cardinal, V. Jubera, E. Fargin, J.J. Videau, S. Gomez, R. Grodsky, T. Denton, M. Couzi and M. Dussauze

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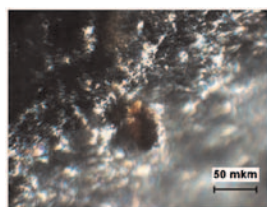


HRSEM micrograph of acid etched surface of silver doped sodium and niobium phosphate glass after nucleation heat treatment before (a) and after second heat treatment (b), (c) leading to phase separation and crystallization.

Chemical interaction in the B–BN system at high pressures and temperatures. Synthesis of novel boron subnitrides

Vladimir L. Solozhenko and Oleksandr O. Kurakevych

Page 1359

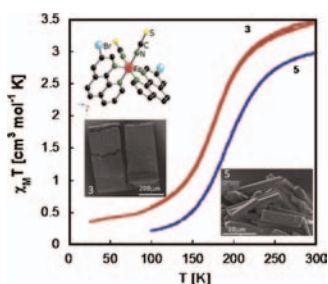


Chemical interaction and phase transformations in the B–BN system have been *in situ* studied by X-ray diffraction with synchrotron radiation at pressures up to 5.3 GPa and temperatures up to 2800 K using multianvil press. Three boron subnitrides have been synthesized and characterized.

Relevance of supramolecular interactions, texture and lattice occupancy in the designer iron(II) spin crossover complexes

Anil D. Naik, Bernard Tinant, Kai Muffler, Juliusz A. Wolny, Volker Schünemann and Yann Garcia

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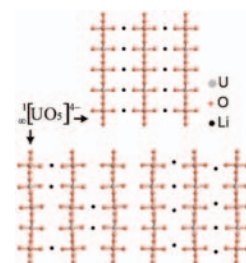


New Fe^{II} complexes of formula [Fe(3-Br-phen)₂(NCS)₂]... Solvent have been synthesized by precipitation (1) and extraction (4) methods. ⁵⁷Fe Mössbauer and magnetic investigation reveal unique features atypical of classic [Fe(phen)₂(NCS)₂] polymorphs. Complex 1, undergoes upon cooling below room temperature an incomplete and gradual thermally induced spin conversion, while 4 remains mostly in the low-spin state. Role of supramolecular interactions, particles size, lattice solvents have profound influence on magnetic properties.

Channels occupancy and distortion in new lithium uranyl phosphates with three-dimensional open-frameworks

C. Renard, S. Obbade and F. Abraham

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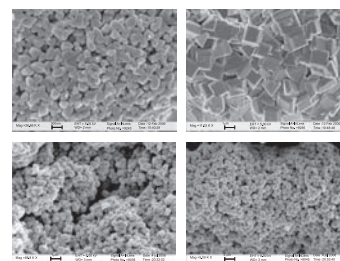


The three new lithium uranyl phosphates Li₂(UO₂)₃(PO₄)₂O, Li(UO₂)₄(PO₄)₃ and Li₃(UO₂)₇(PO₄)₅O were synthesised via solid state reaction. The structures of these compounds are based upon three-dimensional open-frameworks built from ¹_∞[UO₅]⁴⁻ chains connected through two types of layers, S and D, in the sequences S–S, D–D and S–D, respectively. The lithium atoms distribution along the channels induces various distortions of the ¹_∞[UO₅]⁴⁻ chains.

Solid-state thermolysis of [MnO]₁₂ containing molecular clusters into novel MnO nano- and microparticles

Lingyun Chen, Hang Xing, Yongming Shen, Junfeng Bai and Guoqing Jiang

Page 1387

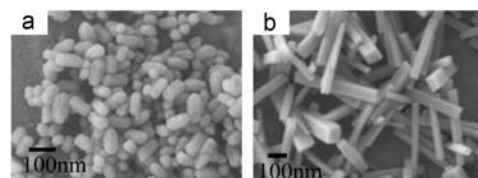


Novel MnO nano- and microparticles were controlled synthesized by solid-state thermolysis of inorganic core containing molecular clusters [Mn₁₂O₁₂(O₂CR)₁₆(H₂O)₄] (R = C₆H₅, CH₃, and C₆H₅OCH₂) in a conventional tubular furnace.

Solvothermal synthesis and photoluminescence properties of BiPO₄ nano-cocoons and nanorods with different phases

Fei Xue, Haibo Li, Yongchun Zhu, Shenglin Xiong, Xianwen Zhang, Tingting Wang, Xin Liang and Yitai Qian

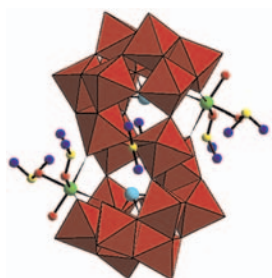
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Hexagonal phase BiPO₄ nano-cocoons were fabricated by solvothermal method at 200 °C for 1 h. When the reaction time was increased to 3 h, monoclinic phase BiPO₄ nanorods were formed.

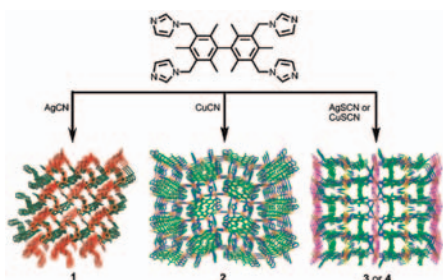
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Synthesis and crystal structure of Ru^{III}-supported tungstoantimonate [Sb₂W₂₀Ru₂^{III}(H₂O)₂(dmsO)₆O₆₈]⁴⁻
 Li-Hua Bi, Bao Li, Shuai Bi and Li-Xin Wu
 Page 1401



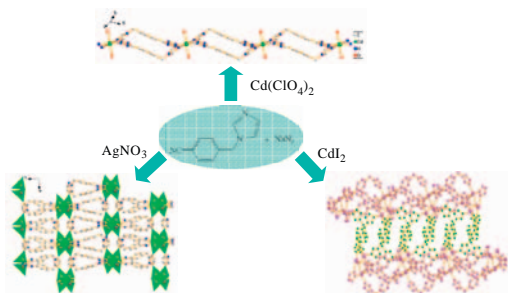
The first Ru^{III}-supported tungstoantimonate [Ru^{II}(bpy)₃]₂[Sb₂W₂₀Ru₂^{III}(H₂O)₂(dmsO)₆O₆₈]·3dmsO (bpy = bi-pyridine) (**1a**) has been synthesized using Ru(bpy)₃Cl₂ as an alternative ruthenium-source and structurally characterized.

Syntheses, topological analyses and photoelectric properties of Ag(I)/Cu(I) metal-organic frameworks based on a tetradentate imidazolate ligand
 Hua-Sen Weng, Jian-Di Lin, Xi-Fa Long, Zhi-Hua Li, Ping Lin and Shao-Wu Du
 Page 1408



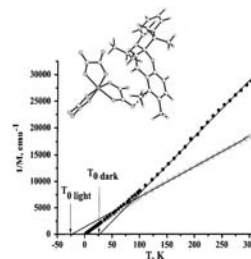
Four coordination polymers built upon Ag(I)/Cu(I) pseudohalides and a imidazolate ligand have been solvothermally synthesized. The luminescent properties for these compounds and the possible ferroelectric behavior of **1** are discussed.

Synthesis, structure and fluorescence of novel cadmium(II) and silver(I) complexes with in situ ligand formation of 1-(5-tetrazolyl)-4-(imidazol-1-ylmethyl)benzene
 Zhi Su, Jing Xu, Yong-Qing Huang, Taka-aki Okamura, Guang-Xiang Liu, Zheng-Shuai Bai, Man-Sheng Chen, Shui-Sheng Chen and Wei-Yin Sun
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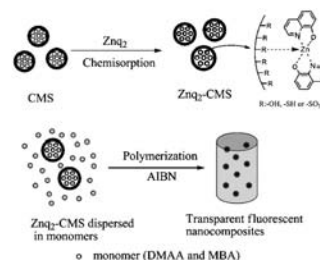
Three novel coordination polymers were obtained with in situ ligand formation through Sharpless's [3 + 2] reaction. The structure and luminescence properties of the complexes were investigated.

Light induced magnetic properties of spiropyrane tris(oxalato)chromate (III) single crystals
 R.B. Morgunov, F.B. Mushenok, S.M. Aldoshin, E.A. Yur'eva, G.V. Shilov and Y. Tanimoto
 Page 1424



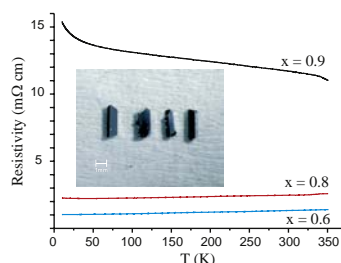
Fragment of crystal structure of (Sp₃Cr(C₂O₄)₃). Temperature dependences of reciprocal molar magnetic moment of the sample at T = 2 K: (1) before irradiation, and (2) after UV irradiation.

Incorporation of Znq₂ complexes into mesoporous silica and their transparent polymer luminescent nanocomposites
 Yaying Du, Yuqin Fu, Yongli Shi, Xiaodan Lü, Changli Lü and Zhongmin Su
 Page 1430



Znq₂-functionalized colloidal mesoporous silicas (Znq₂-CMS)/polymer transparent fluorescent nanocomposites were prepared by in situ bulk polymerization. The figure shows the synthetic scheme for the Znq₂-CMS and their transparent bulk nanocomposites.

Metal-nonmetal transition in the sphalerite-type solid solution [ZnSnSb₂]_{1-x}[2(InSb)]_x
 Andreas Tengå, F. Javier Garcia-Garcia, Yang Wu, N. Newman and Ulrich Häussermann
 Page 1438

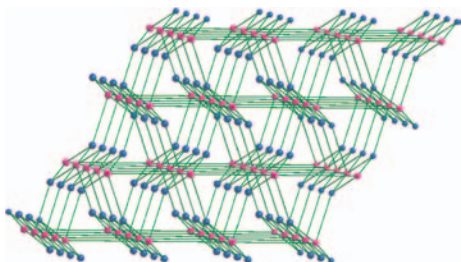


Alloys of the sphalerite-type solid solution [ZnSnSb₂]_{1-x}[2(InSb)]_x can be prepared over the whole range of composition by Sn flux synthesis. A metal-nonmetal transition takes place between the compositions x = 0.8 and x = 0.9.

Syntheses, crystal structures and fluorescent properties of Cd(II), Hg(II) and Ag(I) coordination polymers constructed from 1H-1,2,4-triazole-1-acetic acid

De-Gang Ding, Li-Xia Xie, Yao-Ting Fan, Hong-Wei Hou and Yan Xu

Page 1443

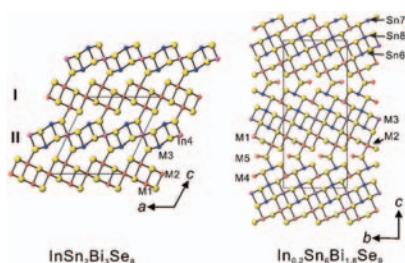


Three new compounds based on 1H-1,2,4-triazole-1-acetic acid and Cd(II), Hg(II) and Ag(I) salts display luminescent properties and may be potential candidates for luminescent materials.

Synthesis and characterization of quaternary chalcogenides $\text{InSn}_2\text{Bi}_3\text{Se}_8$ and $\text{In}_{0.2}\text{Sn}_6\text{Bi}_{1.8}\text{Se}_9$

Ming-Fang Wang, Shyue-Ming Jang, Jih-Chen Huang and Chi-Shen Lee

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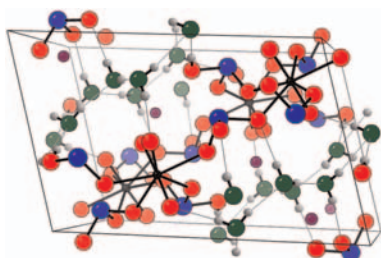


Quaternary selenides $\text{InSn}_2\text{Bi}_3\text{Se}_8$ and $\text{In}_{0.2}\text{Sn}_6\text{Bi}_{1.8}\text{Se}_9$ feature three-dimensional frameworks containing NaCl-(311) type slabs with varied thicknesses. Measurements of the electrical conductivity indicate that these materials are *n*-type semiconductors.

Syntheses and structures of three *f*-element selenite/hydroselenite compounds

Wendy L. Burns and James A. Ibers

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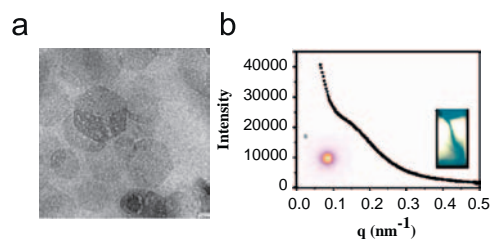


Structure of $\text{Ce}[\text{U}(\text{SeO}_3)(\text{HSeO}_3)] \cdot 3\text{H}_2\text{O}$ (Cs, purple; U, black; Se, blue; O, red; O_w , green; H, gray).

Dispersion control and nematic ordering of Ni/Al layered double hydroxide suspensions

Lingyu Luan, Shangying Liu and Dejun Sun

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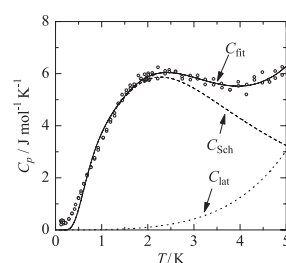


Well-defined Ni/Al LDH nanoparticles were prepared and nematic ordering confirmed by birefringence observations and SAXS measurements is observed in concentrated Ni/Al LDH suspensions.

Low-temperature heat capacity of triangle antiferromagnetic molecular clusters $\text{K}_{12}[(\text{VO})_3(\text{SbW}_9\text{O}_{33})_2] \cdot 15\text{H}_2\text{O}$ and $\text{K}_{12}[(\text{VO})_3(\text{BiW}_9\text{O}_{33})_2] \cdot 29\text{H}_2\text{O}$

Yoshimitsu Kohama, Hitoshi Kawaji, Tooru Atake, Keisuke Fukaya and Toshihiro Yamase

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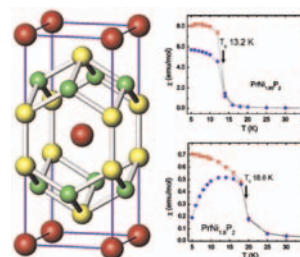
Temperature dependence of heat capacity for $\text{K}_{12}[(\text{VO})_3(\text{SbW}_9\text{O}_{33})_2] \cdot 15\text{H}_2\text{O}$ below 5 K. This is well described by the model with a doublet ground state.

Nickel deficiency in $\text{RENi}_{2-x}\text{P}_2$ ($\text{RE} = \text{La}, \text{Ce}, \text{Pr}$).

Combined crystallographic and physical property studies

Svilen Bobev, Sheng-qing Xia, Eric D. Bauer, Filip Ronning, Joe D. Thompson and John L. Sarrao

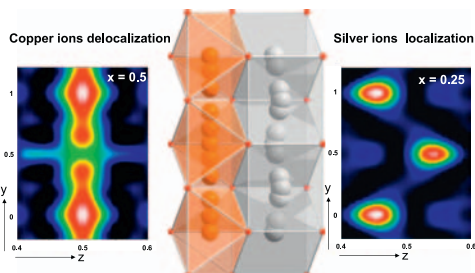
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The non-stoichiometric $\text{RENi}_{2-x}\text{P}_2$ phases ($\text{RE} = \text{La}, \text{Ce}, \text{Pr}$), whose average structure belongs to the ThCr_2Si_2 type, are shown to exist with a wide range of defects on the transition metal site. The changes in the Ni-underoccupancy affect the magnetism of the synthesized materials.

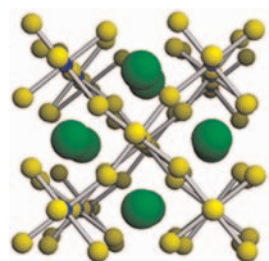
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Ionic diffusion mastering using crystal-chemistry parameters: τ - $\text{Cu}_{1/2}\text{Ag}_{1/2}\text{V}_2\text{O}_5$ structure determination and comparison with refined δ - $\text{Ag}_x\text{V}_2\text{O}_5$ and ε - $\text{Cu}_x\text{V}_2\text{O}_5$ ones
P. Rozier, M. Dollé and J. Galy
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The role of nature and amount of guest species on their respective localisation. Evidence for full delocalisation of copper ions and diffusion pathways visualisation.

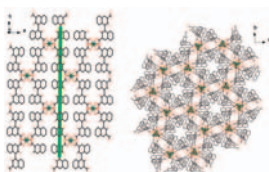
B-site disordering in $\text{Ba}_3\text{Ln}_2\text{MoO}_9$ ($\text{Ln} = \text{Ho}, \text{Er}$) perovskites: A neutron diffraction study
S.A. Larrégola, J.A. Alonso, M. García Hernandez, M.T. Fernandez-Díaz and J.C. Pedregosa
Page 1492



Preparation, structure and magnetic properties of $\text{Ba}_3\text{Ln}_2\text{MoO}_9$ ($\text{Ln} = \text{Ho}^{3+}$ and Er^{3+}) are described. Joint XRPD and NPD refinements confirm a tetragonal $I4/mcm$ structure. Ln and Mo atoms are found to be distributed at random over the octahedral sites of the perovskites.

Solvothermal syntheses and structures of indium(III)-binaphthalenyl dicarboxylate complexes with yellow/blue luminescence

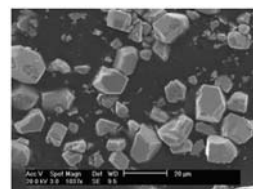
Qiang Gao, Fei-Long Jiang, Ming-Yan Wu, You-Gui Huang, Lian Chen, Wei Wei and Mao-Chun Hong
Page 1499



Two indium(III)-bna compounds were solvothermally synthesized. **1** adopts an unprecedented 2D chiral layer. **2** is constructed by $-\text{In}-\text{O}-\text{In}-$ chains, which are further connected by bna^{2-} into a 3D honeycomb framework.

$\text{Cr}_x\text{Re}_{1-x}\text{O}_2$ oxides with different rutile-like structures: changes in the electronic configuration and resulting physical properties

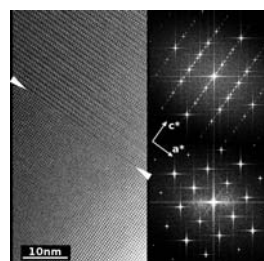
D. Mikhailova, H. Ehrenberg, D. Trots, G. Brey, S. Oswald and H. Fuess
Page 1506



Antiferromagnetic rhenium oxides $\text{Cr}_x\text{Re}_{1-x}\text{O}_2$ with metallic type of conductivity crystallize in different rutile-like polymorphs depending on synthesis conditions. Single crystals of the tetragonal modification can be obtained by high-pressure high-temperature synthesis.

High-temperature structural phase transition in $\text{Ca}_2\text{Fe}_2\text{O}_5$ studied by *in-situ* X-ray diffraction and transmission electron microscopy

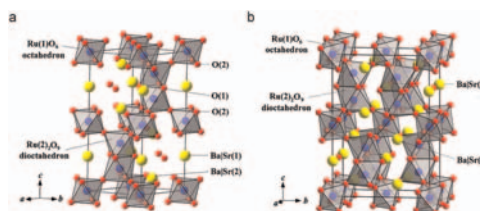
Hannes Krüger, Volker Kahlenberg, Václav Petříček, Fritz Phillipp and Waltraud Wertl
Page 1515



High-temperature HRTEM (zone axis $[010]$) of a phase boundary between domains of the $Pnma$ (lower left) and $Imma(00g)s00$ (upper right) structure. Micrograph recorded at 970 K. Corresponding FFT patterns are shown on the right.

Structural and electrical properties evolution in $\text{Ba}_{1-x}\text{Sr}_x\text{RuO}_3$ synthesized under high pressure

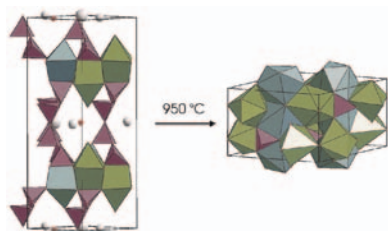
Jinggeng Zhao, Liuxiang Yang, Yong Yu, Fengying Li, Richeng Yu and Changqing Jin
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The 6H ($x \leq 0.3$) and 6M ($0.4 \leq x \leq 0.6$) $\text{Ba}_{1-x}\text{Sr}_x\text{RuO}_3$ solutions synthesized under high pressure adopt the normal and distorted hexagonal BaTiO_3 structures, respectively.

Tb/Na tobermorite: Thermal behaviour and high temperature products

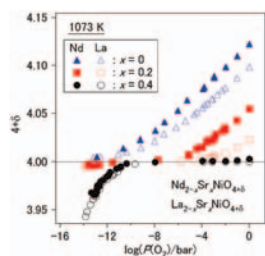
Walter Garra, Fabio Marchetti and Stefano Merlino
 Page 1529



By heating over 900 °C Tb/Na tobermorite a terbium silicate apatite was obtained. The same product has been independently prepared and structurally characterized from powder diffraction data. Attempts of crystallizing terbium silicate apatite from melted NaF led to Tb₄O₇ crystals.

Oxygen nonstoichiometry and chemical stability of Nd_{2-x}Sr_xNiO_{4+δ}

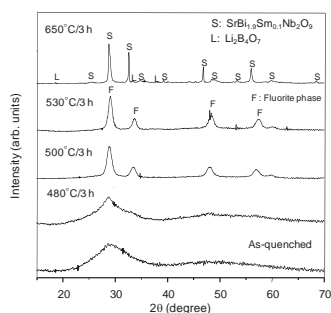
Takashi Nakamura, Keiji Yashiro, Kazuhisa Sato and Junichiro Mizusaki
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We synthesized Nd_{2-x}Sr_xNiO_{4+δ} by citric acid method and measured oxygen nonstoichiometry in the temperature range between 873 and 1173 K. They showed both oxygen excess and oxygen deficient composition depending on P(O₂), temperature, and the Sr content. The results are compared with the oxygen nonstoichiometry of La_{2-x}Sr_xNiO_{4+δ}.

Synthesis and characterization of rare-earth doped SrBi₂Nb₂O₉ phase in lithium borate based nanocrystallized glasses

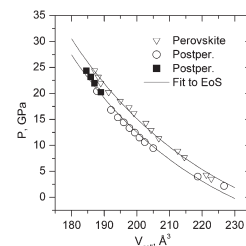
B. Harihara Venkataraman, Takumi Fujiwara and Takayuki Komatsu
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This figure shows the XRD patterns at room temperature for the as-quenched and heat treated samples in Sm₂O₃-doped (x=0.1) glass. Based on these results, it is concluded that the formation of samarium-doped perovskite SBN phase takes place via an intermediate fluorite-like phase in the crystallization of this glass.

High-pressure structural behavior and equation of state of NaZnF₃

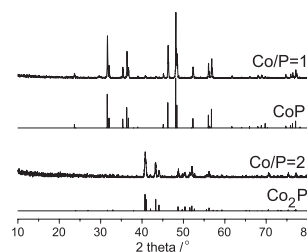
Sergey Yakovlev, Maxim Avdeev and Mohamed Mezouar
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Fit of P–V data obtained from high-pressure X-ray diffraction study of perovskite and postperovskite NaZnF₃ to the third-order Birch–Murnaghan equation of state (solid line). Open and closed symbols represent experimental data corresponding to compression and decompression, respectively. Bulk moduli, K_{0,p}, of perovskite and postperovskite phases are 64.98 ± 2.67 and 69.88 ± 3.69 GPa.

Synthesis of transition-metal phosphides from oxidic precursors by reduction in hydrogen plasma

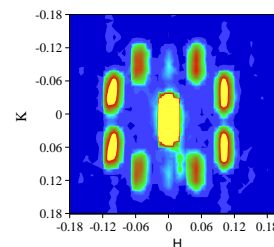
Jie Guan, Yao Wang, Minglei Qin, Ying Yang, Xiang Li and Anjie Wang
 Page 1550



Metal phosphides were obtained stoichiometrically from their oxidic precursors by hydrogen plasma reaction under mild conditions.

X-ray study of the modulated structure in as-grown Ga₂Te₃ crystals with the defect zinc-blende lattice

Y. Otaki, Y. Yanadori, Y. Seki, M. Tadano and S. Kashida
 Page 1556

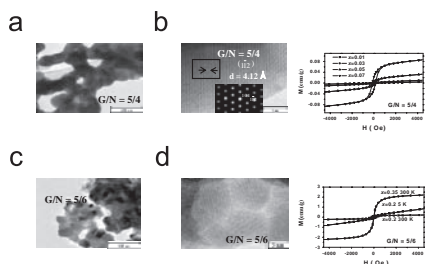


Ga₂Te₃ crystallizes into the zinc-blende structure, where one third of the cation sites are vacant. Single crystal X-ray diffraction studies showed that as-grown Ga₂Te₃ crystals display main reflections which correspond to the cubic zinc-blende lattice and satellite reflections at q = (0.089 0.050 0.00)_c. These satellite reflections show that Ga₂Te₃ crystals contain transverse type displacement modulation, whose traveling direction is almost <210>_c, while the polarization vector is nearly <001>_c.

Continued

Influence of fuel-to-oxidizer ratio on the magnetic properties of Fe-doped In_2O_3 nanoparticles synthesized by solution combustion method

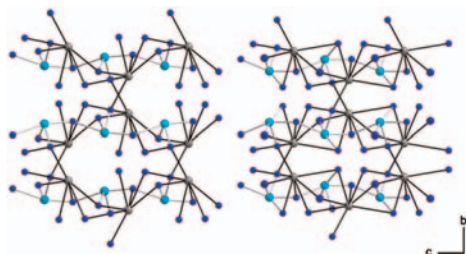
J. Yu, L.B. Duan, Y.C. Wang and G.H. Rao
Page 1563



The G/N ratio ($5/4$ and $5/6$, respectively) has a prominent effect on the particle size and magnetic properties of Fe-doped In_2O_3 nanoparticles.

Twinned crystal structure and compressibility of TlTeVO_5

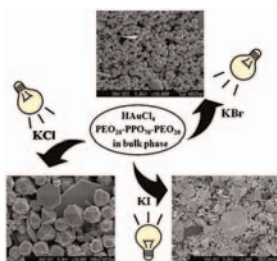
Andrzej Grzechnik, P. Shiv Halasyamani, Hong Young Chang and Karen Friese
Page 1570



Coordination spheres of the Tl and Te atoms at ambient pressure (left) and at 7.11 GPa (right). The medium gray, cyan, and blue symbols are the Tl, Te, and O atoms, respectively. The Tl-O and Te-O distances below 3.5 and 2.5 \AA are drawn, respectively.

Preparation of gold microparticles using halide ions in bulk block copolymer phases via photoreduction

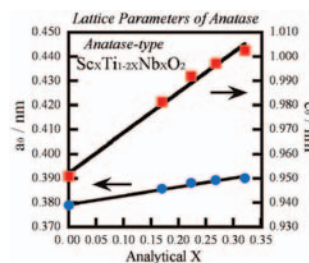
Sang-Ho Cha, Ki-Hyun Kim, Won-Ki Lee and Jong-Chan Lee
Page 1575



Gold microparticles were successfully prepared using halide ions as additives in the polymeric bulk phase via photoreduction with the glow lamp irradiation.

Synthesis of anatase nanoparticles with extremely wide solid solution range and ScTiNbO_6 with $\alpha\text{-PbO}_2$ structure

Masanori Hirano and Takaharu Ito
Page 1581



Anatase-type $\text{Sc}_x\text{Ti}_{1-2x}\text{Nb}_x\text{O}_2$ solid solutions with wide solid solution range ($X=0-0.35$) were hydrothermally formed as nanoparticles from the precursor solutions of $\text{Sc}(\text{NO}_3)_3$, TiOSO_4 , NbCl_5 at 180°C for 5 h using the hydrolysis of urea. Anatase-type ScTiNbO_6 was synthesized under hydrothermal condition. ScTiNbO_6 having $\alpha\text{-PbO}_2$ structure with possibly some cation order similar to that seen in wolframite was formed through phase transformation above 900°C .

Synthesis, characterization and formation process of transition metal oxide nanotubes using carbon nanofibers as templates

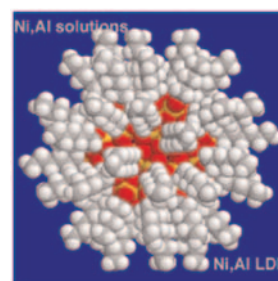
Hitoshi Ogihara, Sadakane Masahiro, Yoshinobu Nodasaka and Wataru Ueda
Page 1587



Mono and binary transition metal-oxide nanotubes could be synthesized by the immersion of carbon nanofiber templates into metal nitrate solutions and removal of the templates by heat treatment in air.

Nickel-aluminum layered double hydroxides prepared via inverse micelles formation

María E. Pérez-Bernal, Ricardo J. Ruano-Casero, Fátima Benito and Vicente Rives
Page 1593



Nickel-aluminum layered double hydroxides have been prepared by conventional coprecipitation and by coprecipitation in the presence of a surfactant. It has been found that both the preparation method and the calcination treatment have an important effect on the luminosity (whiteness/darkness) of the solids, although the effect on the precise chromaticity coordinates (green/red and blue/yellow) is less marked.

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