

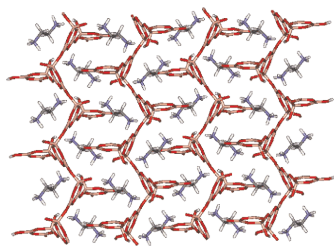
CONTENTS

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Regular Articles

(NH₃CH₂CH₂NH₃)B₆O₉(OH)₂: Synthesis and crystal structure of a novel layered borate templated by ethylenediamine

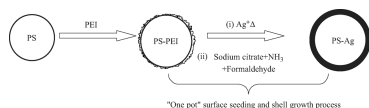
Min Li, Jiazhong Chang, Zhenling Wang and Hengzhen Shi
Page 3265



A novel intercalated borate compound (NH₃CH₂CH₂NH₃)B₆O₉(OH)₂ has been solvothermally synthesized and structurally characterized.

Synthesis of Ag-coated polystyrene colloids by an improved surface seeding and shell growth technique

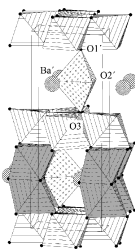
Chungui Tian, Enbo Wang, Zhenhui Kang, Baodong Mao, Chao Zhang, Yang Lan, Chunlei Wang and Yanli Song
Page 3270



An improved surface seeding and shell growth technique was developed to prepare Ag-polystyrene core shell composite. The optical properties of the Ag-PS colloids could be tailored by changing the coverage of Ag.

Structural phase transitions in BaV₆O₁₁

Karen Friese and Yasushi Kanke
Page 3277

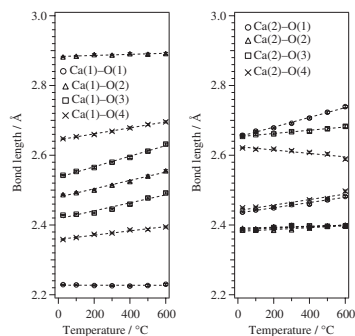


The structure of BaV₆O₁₁ at 293 K. Octahedra around V(1) and trigonal bipyramids around V(3) are indicated. V(2)O₆ octahedra are only shown in the lower part; large hatched circles represent Ba atoms.

Regular Articles—Continued

Charge states of Ca atoms in β-dicalcium silicate

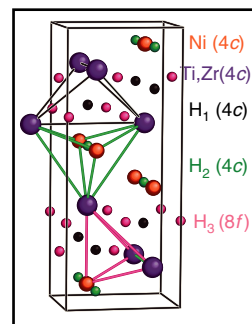
Kazuhiro Mori, Ryoji Kiyonagi, Masao Yonemura, Kenji Iwase, Takashi Sato, Keiji Itoh, Masaaki Sugiyama, Takashi Kamiyama and Toshiharu Fukunaga
Page 3286



Temperature dependences of: (a) Ca(1)-O bond lengths, (b) Ca(2)-O bond angle. The broken straight lines are guides to the eyes.

A conjoint XRD-ND analysis of the crystal structures of austenitic and martensitic Ti_{0.64}Zr_{0.36}Ni hydrides

F. Cuevas, M. Lacroche, F. Bourée-Vigneron and A. Percheron-Guégan
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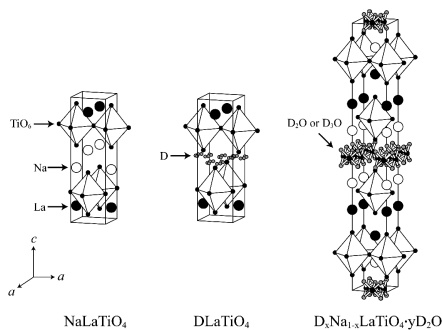


Hydrogen location and crystal structure of martensitic Ti_{0.64}Zr_{0.36}Ni hydrides.

Neutron diffraction study on protonated and hydrated layered perovskite

Shunsuke Nishimoto, Motohide Matsuda, Stefanus Harjo, Akinori Hoshikawa, Toru Ishigaki, Takashi Kamiyama and Michihiro Miyake

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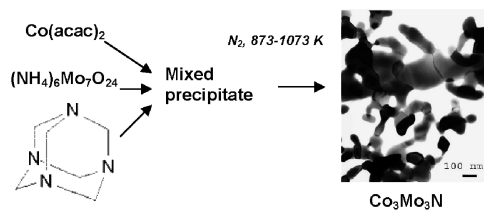


Schematic illustrations of the crystal structures of (a) NaLaTiO₄, (b) DLaTiO₄ and (c) D_{0.34}Na_{0.66}LaTiO₄ 0.59D₂O.

One-step synthesis of dispersed bimetallic carbides and nitrides from transition metals hexamethylenetetramine complexes

Sandra Chouzier, Pavel Afanasiev, Michel Vrinat, Tivadar Cseri and Magalie Roy-Auberger

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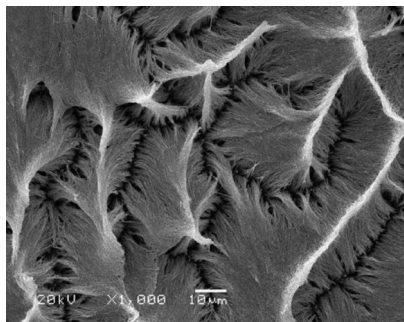


Bimetallic nitrides and carbides Co(Ni)-Mo were obtained from the decomposition of metals complexes with hexamethylenetetramine (HMTA) under inert atmosphere. During the decomposition, HMTA acts at once as a reducing agent and as a source of carbon and nitrogen. The method provides a simple one-step way to highly divided nitrides and carbides.

Densely packed single-crystal Bi₂Fe₄O₉ nanowires fabricated from a template-induced sol-gel route

Zhi Yang, Yi Huang, Bin Dong, Hu-Lin Li and San-Qiang Shi

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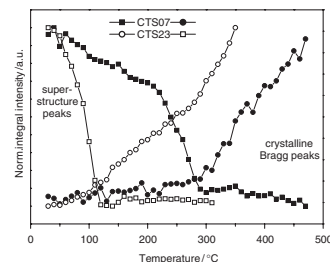


The top view in low magnification of SEM images of Bi₂Fe₄O₉ nanowires after AAO template is partly dissolved.

A study of the reactivity of elemental Cr/Se/Te thin multilayers using X-ray reflectometry, in situ X-ray diffraction and X-ray absorption spectroscopy

Malte Behrens, Jan Tomforde, Enno May, Ragnar Kiebach, Wolfgang Bensch, Dietrich Häußler and Wolfgang Jäger

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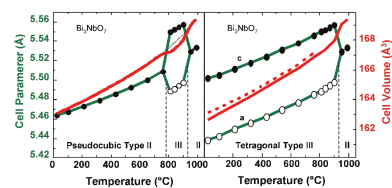


The first step of the reaction of elemental Cr/Te/Se multilayers is the interdiffusion of the elements as evidenced by the decay of the modulation peaks in the low-angle region of the X-ray diffraction patterns. The subsequent growth of Bragg peaks at higher scattering angles indicates crystallization of chromium chalcogenide Cr₂Te_{3-x}Se_x.

Isothermal kinetic of phase transformation and mixed electrical conductivity in Bi₃NbO₇

X.P. Wang, G. Corbel, S. Kodjikian, Q.F. Fang and P. Lacorre

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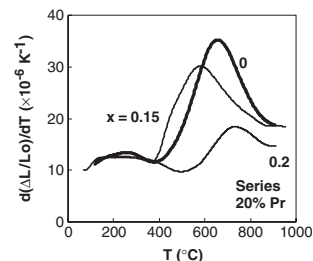


The metastable type-II form of Bi₃NbO₇, whose phase transformation kinetics to type-III form is studied in isothermal conditions, is shown to have a larger volume and a lower anionic (and electronic) conductivity than the type-III form of this fluorite-type bismuth niobate.

Oxygen permeability, thermal expansion and mixed conductivity of Gd_xCe_{0.8-x}Pr_{0.2}O_{2-δ}, x = 0, 0.15, 0.2

D.P. Fagg, I.P. Marozau, A.L. Shaula, V.V. Kharton and J.R. Frade

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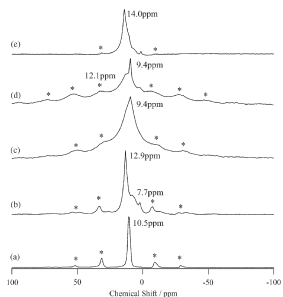


The differential of the thermal expansion plot clarifying the observation that the large increase in thermal expansion rate at intermediate temperatures is diminished with increasing *x* in the system Gd_{*x*}Ce_{0.8-*x*}Pr_{0.2}O_{2-δ}, for *x* = 0, 0.15 and 0.2.

Continued

Local environments and dynamics of hydrogen atoms in protonated forms of ion-exchangeable layered perovskites estimated by solid-state ^1H NMR

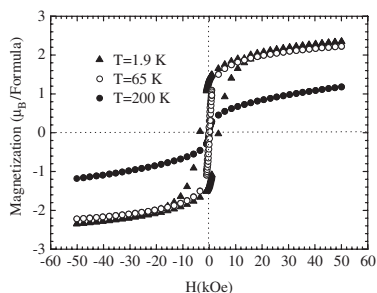
Shinsuke Tani, Yoshihiko Komori, Shigenobu Hayashi and Yoshiyuki Sugahara
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Solid-state ^1H MAS NMR spectra of protonated forms of ion-exchangeable layered perovskites: (a) $\text{H}[\text{LaNb}_2\text{O}_7]$; (b) $\text{H}[\text{LaTa}_2\text{O}_7]$; (c) $\text{H}_{1.8}[(\text{Sr}_{0.8}\text{Bi}_{0.2})\text{Ta}_2\text{O}_7]$; (d) $\text{H}_2[\text{SrTa}_2\text{O}_7]$; and (e) $\text{H}_2[\text{La}_2\text{Ti}_3\text{O}_{10}]$. The spinning side bands are marked with asterisks.

High pressure synthesis, crystal, magnetic structure and magnetotransport of $\text{SrFe}_{0.5}\text{Co}_{0.5}\text{O}_{3-\delta}$

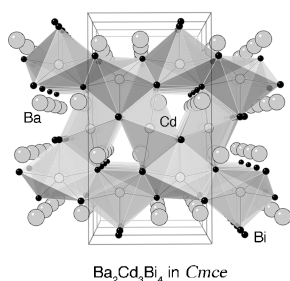
A. Muñoz, J.A. Alonso, M.J. Martínez-Lope, C. de la Calle and M.T. Fernández-Díaz
 Page 3365



$\text{SrFe}_{0.5}\text{Co}_{0.5}\text{O}_{2.88}$ is a simple cubic perovskite at 2 and 295 K, ferromagnetic (FM) with $T_C \approx 330$ K. Neutron diffraction data show that the magnetic structure is collinear and characterized by a propagation vector $\mathbf{k} = 0$. It exhibits a magnetoresistance of 6.5% at 5 K.

Temperature-dependent crystallographic studies and electronic structure of $\text{Ba}_2\text{Cd}_3\text{Bi}_4$

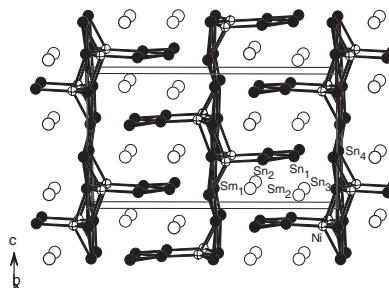
Sheng-qing Xia and Svilen Bobev
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$\text{Ba}_2\text{Cd}_3\text{Bi}_4$, a long-known ternary intermetallic phase whose structure had not been well characterized, was reexamined and the structure refined at four different temperatures. The study proved the existence of a small position disorder, associated with the weakly bound Cd atoms.

Sm_2NiSn_4 : The intermediate structure type between ZrSi_2 and CeNiSi_2

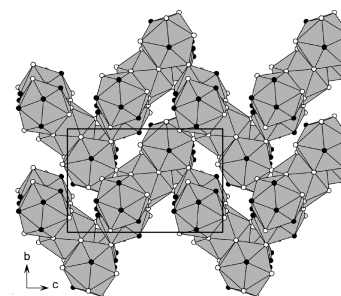
Zhong-Ming Sun, Da-Chun Pan, Xiao-Wu Lei and Jiang-Gao Mao
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A new rare earth nickel stannide, Sm_2NiSn_4 , has been prepared by the solid-state reactions of the corresponding pure elements at high temperature in welded tantalum tubes. Its structure can be viewed as the intermediate type between ZrSi_2 and CeNiSi_2 . Sm_2NiSn_4 features 2D corrugated $[\text{NiSn}_4]^{6-}$ layers in which the 1D Sn zigzag chains and the 2D Sn square sheets are bridged by Ni atoms. Results of both resistivity measurements and extended-Hückel tight-binding band structure calculations indicate that Sm_2NiSn_4 is metallic.

Structural characterization of the Ta-rich part of the Ta–Al system

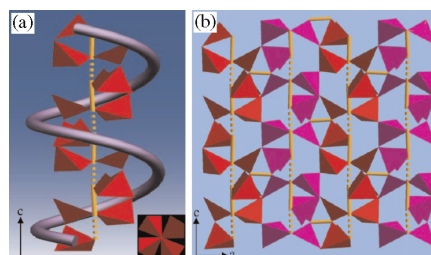
A. Boulineau, J.-M. Joubert and R. Černý
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Crystal structure of the β Ta–Al phase.

Two metal chalcogenides, $\text{Hg}_2\text{Te}_2\text{X}_2$ ($\text{X} = \text{Br}, \text{I}$): 3-D framework constructed from novel left-handed helices

Wen-Tong Chen, Ming-Sheng Wang, Zhang-Jing Zhang, Gang Xu, Guo-Cong Guo and Jin-Shun Huang
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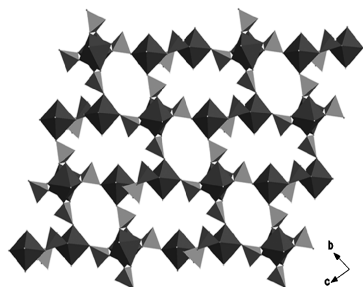


A new family of $\text{HfB}_2\text{Q}_2\text{X}_2$ system, possessing an acentric nature that allows them to be a potential NLO material, has been synthesized via solid-state reactions. The crystal structures are characterized by a 3-D framework structure, comprising of interconnected left-handed helices. Optical absorption spectra show that both compounds are excellent candidate for potential photoelectric materials.

Synthesis and characterization of a new open-framework fluorinated gallium phosphite with three-dimensional intersecting channels

Li Wang, Tianyou Song, Yong Fan, Zhenfen Tian, Ying Wang, Suhua Shi and Jianing Xu

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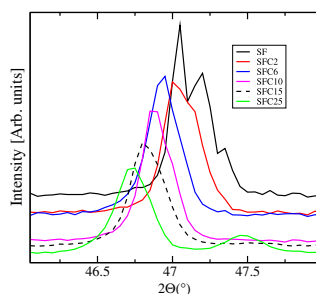


$(\text{C}_4\text{N}_2\text{H}_{12})[\text{Ga}_2\text{F}_3(\text{HPO}_3)_2(\text{H}_2\text{PO}_3)]$ **1** is a new open-framework fluorinated gallium phosphite with four intersecting channels running throughout the structure as 8, 12-member ring channels along to the *a*-axis and 12-member ring channels along the *b*- and *c*-axis, respectively.

Cerium effect on the phase structure, phase stability and redox properties of Ce-doped strontium ferrates

F. Deganello, L.F. Liotta, A. Longo, M.P. Casaletto and M. Scopelliti

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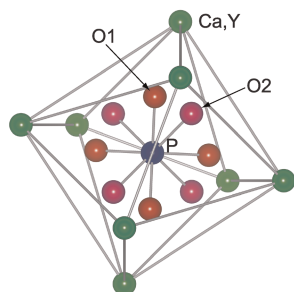


The Ce-doped SrFeO_3 structure changes with cerium content: undoped SrFeO_3 is tetragonal ($I/4mmm$), 2 mol%-doped SrFeO_3 is still tetragonal with higher symmetry ($P/4mmm$), whereas from 6 to 15 mol% the structure becomes pure cubic. The cubic (or pseudo-cubic) reticular constant increases with cerium content.

Crystal structure and phase transformations of calcium yttrium orthophosphate, $\text{Ca}_3\text{Y}(\text{PO}_4)_3$

Koichiro Fukuda, Tomoyuki Iwata and Takahiro Niwa

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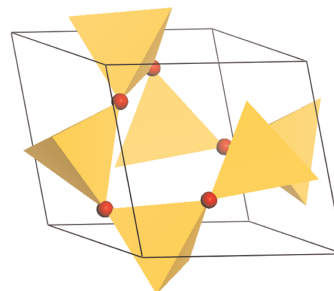


Part of the $\text{Ca}_3\text{Y}(\text{PO}_4)_3$ structure, viewed along [001].

A computational study into the (tetrahedral) distortion of TX_2 α -quartz materials: The effect of changing the chemical composition away from SiO_2

Martijn A. Zwijnenburg, Robert Huenerbein, Robert G. Bell and Furio Corà

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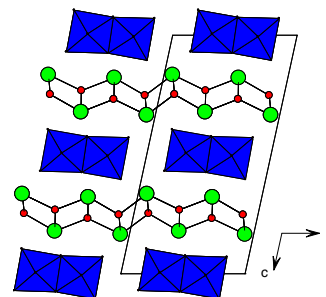


View on a quartz unit-cell with TX_4 tetrahedra.

Phase relations and crystal structures in the systems $(\text{Bi},\text{Ln})_2\text{WO}_6$ and $(\text{Bi},\text{Ln})_2\text{MoO}_6$ (*Ln* = lanthanide)

Peter S. Berdonosov, Dmitri O. Charkin, Kevin S. Knight, Karen E. Johnston, Richard J. Goff, Valeriy A. Dolgikh and Philip Lightfoot

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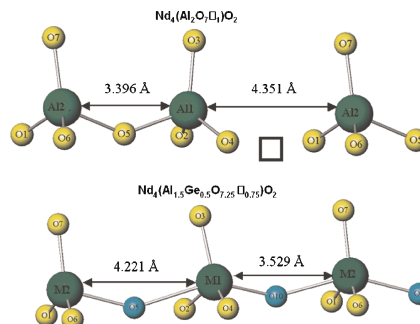


A summary of phase relations in the lanthanide-doped bismuth tungstate and bismuth molybdate systems is presented, together with some additional structural data on several of these phases.

Stability and oxide ion conductivity in rare-earth aluminium cuspidines

M.C. Martín-Sedeño, D. Marrero-López, E.R. Losilla, S. Bruque, P. Núñez and M.A.G. Aranda

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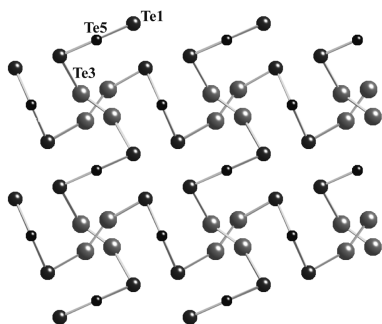


The attached figure shows the changes in the oxygen distribution of oxy-cuspidines determined by neutron powder diffraction. These oxo-salts are oxide ion conductors with negligible electronic contribution.

Continued

Two new binary lanthanide polytellurides: Syntheses and crystal structures of CeTe_{1.90} and SmTe_{1.80}

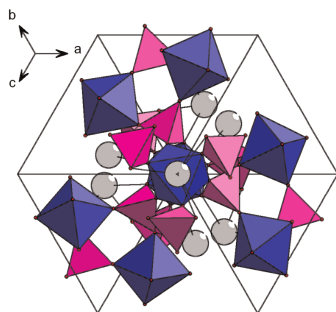
Ismail Ijjaali and James A. Ibers
Page 3456



A Te net in SmTe_{1.80}.

Synthesis, structure and magnetic properties of new phosphates K₂Mn_{0.5}Ti_{1.5}(PO₄)₃ and K₂Co_{0.5}Ti_{1.5}(PO₄)₃ with the langbeinite structure

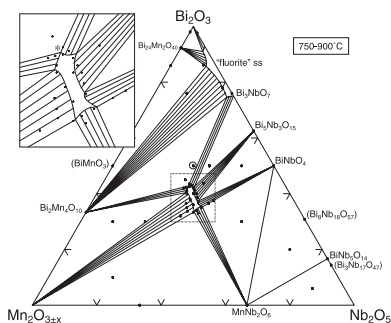
Ivan V. Ogorodnyk, Igor V. Zatovsky, Nikolay S. Slobodyanik, Vyacheslav N. Baumer and Oleg V. Shishkin
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A view of langbeinite structure in direction perpendicular to [111].

Subsolidus phase equilibria and properties in the system Bi₂O₃:Mn₂O₃±x:Nb₂O₅

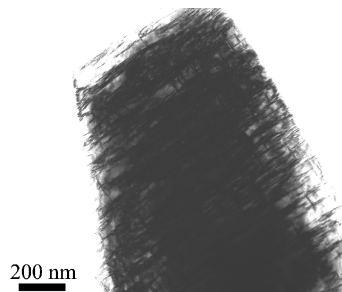
T.A. Vanderah, M.W. Lufaso, A.U. Adler, I. Levin, J.C. Nino, V. Provenzano and P.K. Schenck
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Ternary compound formation in the Bi–Mn–Nb–O system is limited to a pyrochlore solid solution which occurs at “Bi-deficient” stoichiometries compared to conventional A₂B₂O₇-type formulations with Bi on the A-sites and Mn/Nb on the B-sites—all pyrochlores in this system exhibit displacive structural behavior.

Defect microstructures of TiO₂ rutile due to Zr⁴⁺ dissolution and expulsion

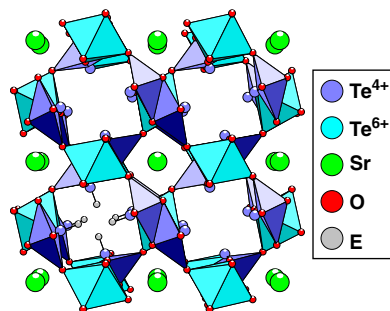
K.C. Yang, P. Shen and D. Gan
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TEM image of Zr-doped rutile viewed along its *c*-axis showing two variants of plate-like precipitates formed during aging at 900 °C for 200 h.

The mixed valent tellurate SrTe₃O₈: Electronic lone pair effect of Te⁴⁺

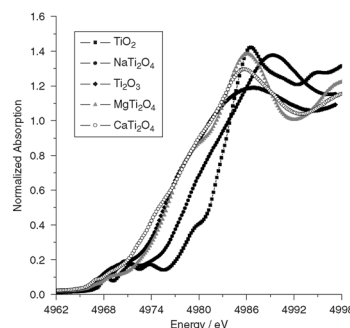
N. Barrier, S. Malo, O. Hernandez, M. Hervieu and B. Raveau
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Tunnel structure of the mixed valent tellurate SrTe₃O₈ determined *ab initio* against powder X-ray diffraction; structure viewed along [001] direction with *E* the electronic lone pairs of the Te⁴⁺ cations.

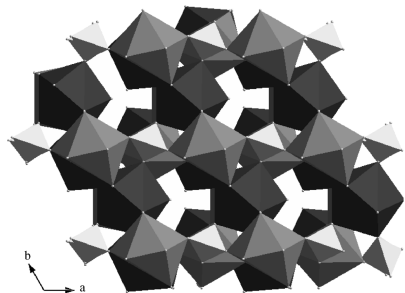
Structure property relationships in the ATi₂O₄ (A = Na, Ca) family of reduced titanates

Margret J. Geselbracht, Ann S. Erickson, Matthew P. Rogge, John E. Greedan, Richard I. Walton, Matthew W. Stoltzfus, Hank W. Eng and Patrick M. Woodward
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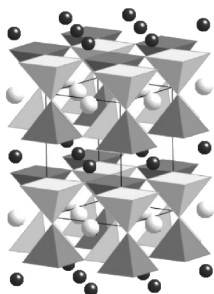
Normalized titanium K-edge XANES spectra confirm mixed-valence for NaTi₂O₄ with an edge energy intermediate between Ti³⁺ oxides such as CaTi₂O₄, MgTi₂O₄ and Ti₂O₃, and Ti⁴⁺ containing oxides such as TiO₂.

Hydrothermal synthesis of a luminescent Europium(III) sulfate with three-dimensional chiral framework structure
Chuan-De Wu and Zi-Yang Liu
Page 3500



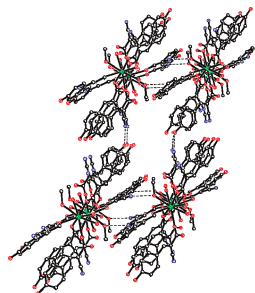
The hydrothermal reaction of Eu_2O_3 , Na_2SO_4 in acidified aqueous solution afforded a chiral three-dimensional framework compound $[\text{NaEu}(\text{H}_2\text{O})(\text{SO}_4)_2]$ (**1**), which is composed of three kinds of right-handed helical chains $\{\text{EuOSO}_4\}$, $\{\text{NaOSO}_4\}$ and $\{\text{EuONa}\}$. The luminescent properties of **1** are also studied and analyzed.

High-temperature neutron diffraction study of the cation ordered perovskites $\text{TbBaMn}_2\text{O}_{5+x}$ and $\text{TbBaMn}_2\text{O}_{5.5-y}$
Elizabeth Castillo-Martínez, Anthony J. Williams and J. Paul Attfield
Page 3505



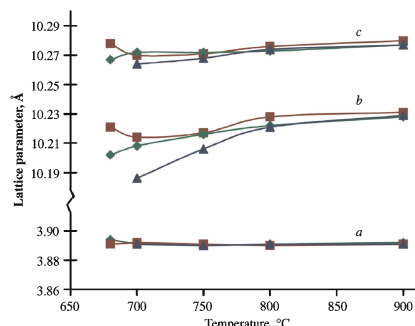
In situ powder neutron diffraction shows that, surprisingly, there is no miscibility between $\text{TbBaMn}_2\text{O}_{5+x}$ and the oxygen intercalated product $\text{TbBaMn}_2\text{O}_{5.5-y}$, up to 600°C . $\text{TbBaMn}_2\text{O}_5$ is $\text{Mn}^{2+}/\text{Mn}^{3+}$ charge ordered and any charge melting transition occurs $> 600^\circ\text{C}$. This charge ordering is remarkably robust in comparison to that in other oxides.

Extending framework based on the linear coordination polymers: Alternative chains containing lanthanum ion and acrylic acid ligand
Hui Li, Ming Guo, Hong Tian, Fei-Yue He, Gene-Hsiang Lee and Shie-Ming Peng
Page 3511



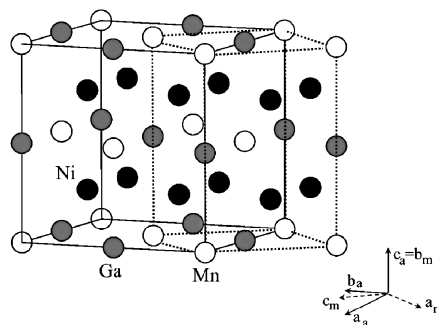
3D H-bonding network directed by the ligand based on the rare alternative chain of lanthanum complex containing *syn-syn* and *anti-syn* coordination mode of α -cyano-4-hydroxycinnamic acid.

Structural and compositional variations in Ta_3N_5 produced by high-temperature ammonolysis of tantalum oxide
Stuart J. Henderson and Andrew L. Hector
Page 3518



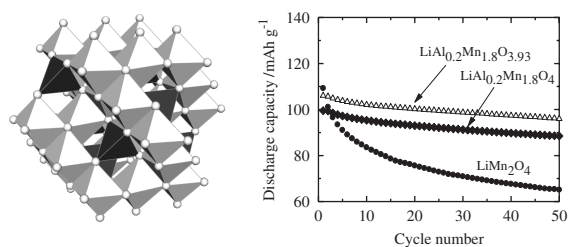
One crystallographic nitrogen site in Ta_3N_5 varies markedly in composition with preparation conditions, the effect of this is seen in the *b*-axis length and optical properties.

Incommensurate modulated structure of the ferromagnetic shape-memory Ni_2MnGa martensite
Lara Righi, Franca Albertini, Gianluca Calestani, Luigi Pareti, Antonio Paoluzi, Clemens Ritter, Pedro A. Algarabel, Luis Morellon and M. Ricardo Ibarra
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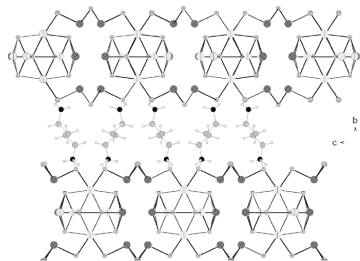
Perspective view of the L_{21} cubic structure of Ni_2MnGa austenite. The dotted lines define the basic structure of the incommensurate modulated martensite.

Synthesis and electrochemical properties of nonstoichiometric $\text{LiAl}_x\text{Mn}_{2-x}\text{O}_{4-\delta}$ as cathode materials for rechargeable lithium ion battery
Woosuk Cho, Wonkyung Ra, Junichi Shirakawa, Masanobu Nakayama and Masataka Wakihara
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Defect introduction into spinel.

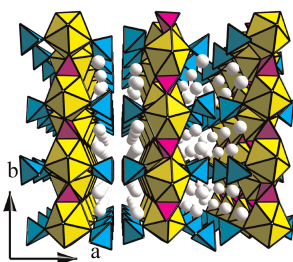
The new silver(I)thioantimonate(III) $[\text{C}_4\text{N}_2\text{H}_{14}][\text{Ag}_3\text{Sb}_3\text{S}_7]$ and a new structural variant of the silver(I)thioantimonate(III) $[\text{C}_2\text{N}_2\text{H}_9]_2[\text{Ag}_5\text{Sb}_3\text{S}_8]$ both synthesized under solvothermal conditions
V. Spetzler, C. Näther and W. Bensch
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In the new silver thioantimonate $[\text{C}_4\text{N}_2\text{H}_{14}][\text{Ag}_3\text{Sb}_3\text{S}_7]$ the layered $[\text{Ag}_3\text{Sb}_3\text{S}_7]^{2-}$ anion is constructed by two different chains. An $[\text{Sb}_2\text{S}_4]$ chain is formed by vertex sharing of SbS_3 pyramids. The second chain contains Ag_3SbS_5 group which are connected by S atoms. The layered anion is obtained by condensation of the two individual chains. The organic structure director is sandwiched by the inorganic layers and the shortest inter-layer distance is about 6.4 Å.

Synthesis, characterization and crystal structure of $\text{K}_2\text{Bi}(\text{PO}_4)(\text{MoO}_4)$

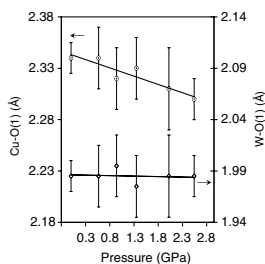
Igor V. Zatonvsky, Katherina V. Terebilenko, Nikolay S. Slobodyanik, Vyacheslav N. Baumer and Oleg V. Shishkin
Page 3550



Stereo view of structure $\text{K}_2\text{Bi}(\text{PO}_4)(\text{MoO}_4)$ along the c direction.

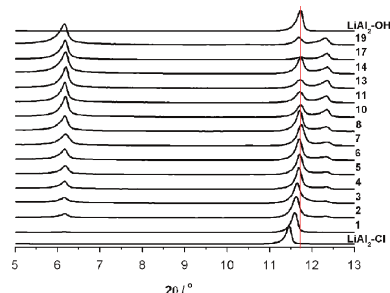
Compression mechanisms of symmetric and Jahn–Teller distorted octahedra in double perovskites: A_2CuWO_6 ($A = \text{Sr}, \text{Ba}$), $\text{Sr}_2\text{CoMoO}_6$, and $\text{La}_2\text{LiRuO}_6$

Michael W. Lufaso, William R. Gemmill, Samuel J. Mugavero III, Yongjae Lee, Thomas Vogt and Hans-Conrad zur Loye
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Preferential compression of long Cu–O bonds, resulting from Jahn–Teller distortions aligned parallel to the c -axis, is observed for Ba_2CuWO_6 . This in contrast to the compression mechanism often observed in perovskites, i.e., octahedral tilting and symmetric octahedral bond compression.

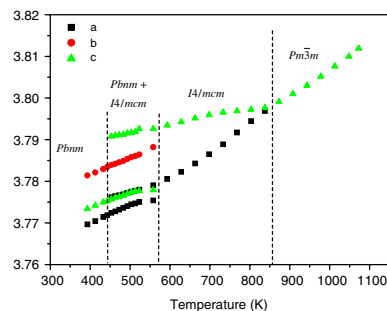
Alkaline hydrolysis of dimethyl terephthalate in the presence of $[\text{LiAl}_2(\text{OH})_6]\text{Cl} \cdot 2\text{H}_2\text{O}$
Lixu Lei, Weifeng Zhang, Meng Hu and Hegen Zheng
Page 3562



XRD patterns of the solid products of the alkaline hydrolysis of dimethyl terephthalate (DMT) in the presence of $[\text{LiAl}_2(\text{OH})_6]\text{Cl}$ at 70 °C halted at different time, which shows that $[\text{LiAl}_2(\text{OH})_6]\text{Cl}$ turns out to be $[\text{LiAl}_2(\text{OH})_6]\text{OH}$, and $[\text{LiAl}_2(\text{OH})_6]_2\text{TP}$ forms gradually. In this reaction, the alkaline hydrolysis of DMT is controlled by replacement of Cl^- in $[\text{LiAl}_2(\text{OH})_6]\text{Cl}$ by OH^- , and subsequent replacement of OH^- in $[\text{LiAl}_2(\text{OH})_6]\text{OH}$ by terephthalate anion.

The nature of the orthorhombic to tetragonal phase transition in $\text{Sr}_{1-x}\text{Ca}_x\text{MnO}_3$

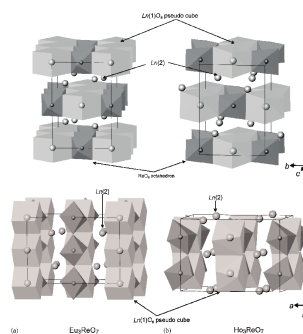
Qingdi Zhou and Brendan J. Kennedy
Page 3568



The temperature dependence of the lattice parameters for $\text{Sr}_{0.5}\text{Ca}_{0.5}\text{MnO}_3$.

Magnetic properties of lanthanide rhenium oxides Ln_3ReO_7 ($\text{Ln} = \text{Sm}, \text{Eu}, \text{Ho}$)

Makoto Wakeshima and Yukio Hinatsu
Page 3575



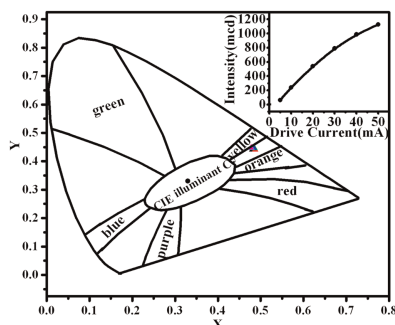
Crystal structures of Eu_3ReO_7 (a) and Ho_3ReO_7 (b). Sm_3ReO_7 shows an antiferromagnetic transition at 1.9 K, and Eu_3ReO_7 indicates a magnetic anomaly at 12 K. Both compounds undergo a structure transition at 270 and 350 K, respectively.

Rapid Communications

A novel orange phosphor of Eu^{2+} -activated calcium chlorosilicate for white light-emitting diodes

Weijia Ding, Jing Wang, Mei Zhang, Qihong Zhang and Qiang Su

Page 3582

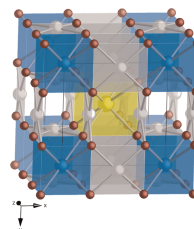


The CIE coordinates of as-synthesized and orange LED-based CSCE under $I_F = 5.0, 10, 20, 30, 40, 50$ mA in the CIE 1931 chromaticity diagram. The inset shows the dependence of the emission intensity on forward-bias currents.

Hydroxide flux synthesis and crystal structure of the ordered palladate, $\text{LuNaPd}_6\text{O}_8$

Samuel J. Mugavero III, Mark D. Smith and Hans-Conrad zur Loye

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Unit cell of the ordered palladate $\text{LuNaPd}_6\text{O}_8$ viewed along the z -direction. The Pd^{2+} cations (grey) reside in a square planar coordination environment and bridge together the LuO_8 (blue) and NaO_8 (yellow) cubes.

Erratum

Erratum to “Structural change in a series of protonated layered perovskite compounds, HLnTiO_4 ($Ln = \text{La}, \text{Nd}$ and Y)” [J. Solid State Chem. 179 (2006) 1892–1897]

Shunsuke Nishimoto, Motohide Matsuda, Stefanus Harjo, Akinori Hoshikawa, Takashi Kamiyama, Toru Ishigaki and Michihiro Miyake

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