

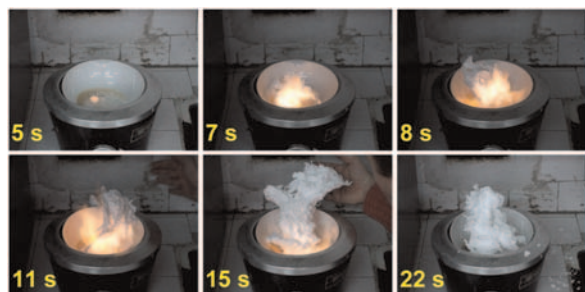
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Regular Articles

Solution combustion synthesis of calcium zirconate, CaZrO_3 , powders

Robert Ianoş and Paul Barvinschi

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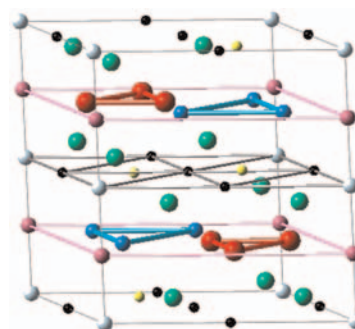
Single-phase CaZrO_3 powder was prepared by low-temperature combustion synthesis. The resulting powder had a BET area of $21.5 \text{ m}^2/\text{g}$. After sintering at 1400°C for 2 h 95% of the theoretical density was reached.

Regular Articles—Continued

Site preference and vibrational properties of $R_3T_4Al_{12-x}$ ($R = \text{Y, Ce, Gd, U, Th}; T = \text{Fe, Ru}$)

Yi Chen, Jiang Shen and Nan-xian Chen

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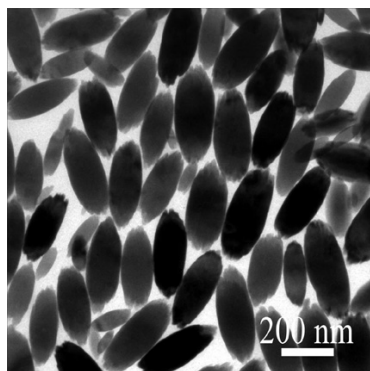


The crystal structure of $R_3T_4Al_{12}$ could be considered as two kinds of layer stacking up along the hexagonal c axis. Fe and Ru atoms preferentially substitute for Al atoms at $6h$ site.

Uniform Ln^{3+} (Eu^{3+} , Tb^{3+}) doped $\text{NaLa}(\text{WO}_4)_2$ nanocrystals: Synthesis, characterization, and optical properties

Jun Gu, Yongchun Zhu, Haibo Li, Xianwen Zhang and Yitai Qian

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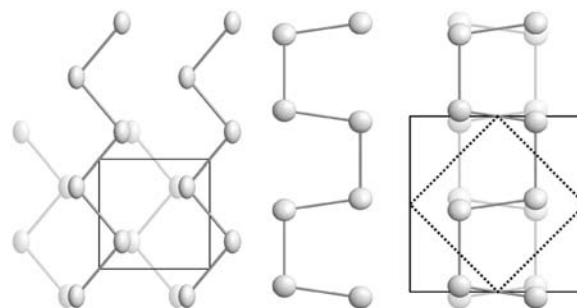


Uniform shuttle-like Ln^{3+} (Eu^{3+} , Tb^{3+}) doped $\text{NaLa}(\text{WO}_4)_2$ nanocrystals have been solvothermally synthesized in the mixed solvent of ethylene glycol (EG) and water at 180°C for 16 h.

Lattice distortions in layered type arsenides LnTAs_2 ($\text{Ln} = \text{La-Nd, Sm, Gd, Tb}; T = \text{Ag, Au}$): Crystal structures, electronic and magnetic properties

D. Rutzinger, C. Bartsch, M. Doerr, H. Rosner, V. Neu, Th. Doert and M. Ruck

Page 510

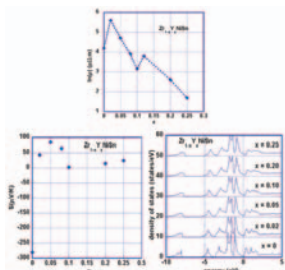


Zigzag vs. cis-trans.

Synthesis, electronic transport and magnetic properties of $Zr_{1-x}Y_xNiSn$, ($x=0-0.25$) solid solutions

E.K. Hlil, Yu. Stadnyk, Yu. Gorelenko, L. Romaka, A. Horyń and D. Fruchart

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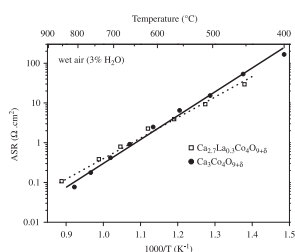


Both approaches experimental and calculations point to the same conclusions. Resistivity and thermopower measurements assert that doping of $ZrNiSn$ based compound by the Y as acceptor impurity induces the insulator-metal transition and leads the S value sign reverse.

$Ca_{3-x}La_xCo_4O_{9+\delta}$ ($x=0, 0.3$): New cobaltite materials as cathodes for proton conducting solid oxide fuel cell

Hamdi Ben Yahia, Fabrice Mauvy and Jean Claude Grenier

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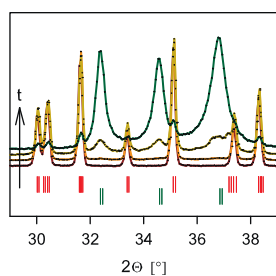


Arrhenius plots of the ASR for $Ca_3Co_4O_{9+\delta}$ and $Ca_{2.7}La_{0.3}Co_4O_{9+\delta}$.

On the ammonolysis of Ga_2O_3 : An XRD, neutron diffraction and XAS investigation of the oxygen-rich part of the system Ga_2O_3-GaN

D. Roehrens, J. Brendt, D. Samuelis and M. Martin

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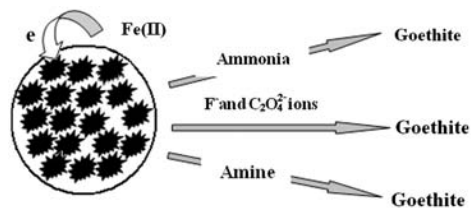


The ammonolysis of $\beta-Ga_2O_3$ powders forming GaN at temperatures of $600-780^\circ C$ was monitored by means of XRD, neutron diffraction and X-ray absorption spectroscopy in order to identify the possible intermediates and the solubility limit of nitrogen in the oxide lattice.

The transformation of ferrihydrite in the presence of trace $Fe(II)$: The effect of the ammonia, amine and the coordination ions of $Fe(III)$

Hui Liu, Lijuan Yang, Miaorui Ma, Ping Li and Yu Wei

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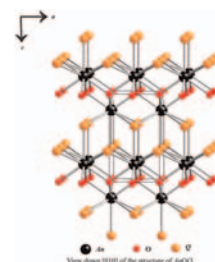


$Fe(II)$ -induced transformation of ferrihydrite in the presence of ammonia, amine and coordination ions of $Fe(III)$ was studied. The introduction of the additives favors the formation of goethite.

Single-crystal structures of uranium and neptunium oxychalcogenides $AnOQ$ ($An=U, Np; Q=S, Se$)

Geng Bang Jin, Adam D. Raw, S. Skanthakumar, Richard G. Haire, L. Soderholm and James A. Ibers

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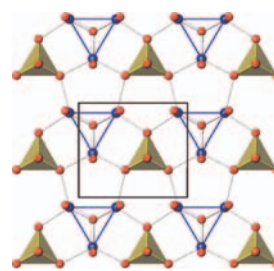
View down $[010]$ of the structure of $AnOQ$.

Single crystal growth and structure of $La_4Cu_3MoO_{12}$

James A. Enterkin, Paul A. Maggard, Shintaro Ishiwata, Laurence D. Marks, Kenneth R. Poeppelmeier,

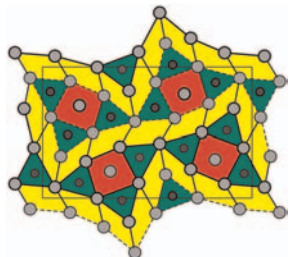
Masaki Azuma and Mikio Takano

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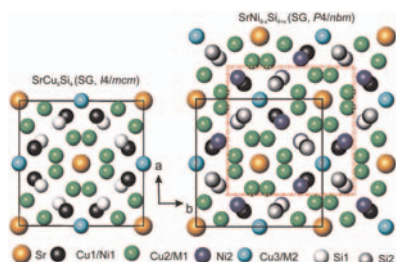
Structural view of a single layer of the triangular lattice of $La_4Cu_3MoO_{12}$ perpendicular to the b -axis. The copper atoms are blue, the oxide ions are red and the MoO_5 trigonal bipyramids are yellow. The isolated triangular clusters of Cu_3O are outlined by the thin blue lines.

The crystal structures of $\text{Hf}_{3\pm\delta}\text{Nb}_{4\pm\delta}\text{As}_3$ and $\text{Hf}_{7.2}\text{Nb}_{3.8}\text{As}_4$: Members of a homologous series combining W-type, Mg-type and AlB_2 -type building blocks
Igor Chumak, Piotr Warczuk and Klaus W. Richter
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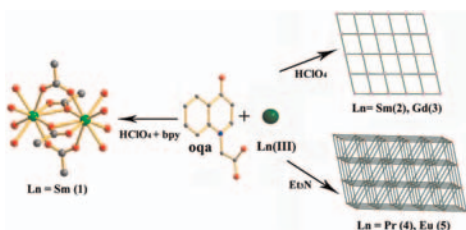
$\text{Hf}_{3\pm\delta}\text{Nb}_{4\pm\delta}\text{As}_3$ ($Pnma$, new structure type) is stabilized by differential fractional site occupation. Its structural relations within a homologous series based on W-type, Mg-type and AlB_2 -type building blocks are discussed.

Ternary systems Sr–{Ni,Cu}–Si: Phase equilibria and crystal structure of ternary phases
Navida Nasir, Nataliya Melnychenko-Koblyuk, Andriy Grytsiv, Peter Rogl, Gerald Giester, Jaroslaw Wosik and Gerhard E. Nauer
Page 565



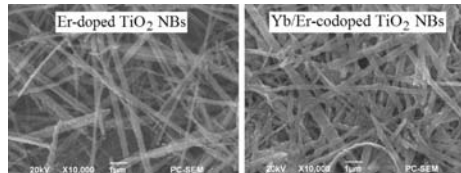
The crystal structure of $\text{SrNi}_{1-x}\text{Si}_{4+x}$ (own-type, $x=2.7$, $a=0.78998(3)$, $c=1.1337(2)$ nm; space group $P4/nbm$) was determined from X-ray single crystal counter to be a low symmetry derivative of the cubic, parent NaZn_{13} -type and is related to $\text{CeNi}_{8.5}\text{Si}_{4.5}$ -type.

Synthesis, crystal structures and photoluminescent properties of lanthanide supramolecular complexes with 4-oxo-1(4H)-quinolineacetate
Jun Wang, Jun Fan, LiangYu Guo, Xia Yin, ZhiHong Wang and WeiGuang Zhang
Page 575



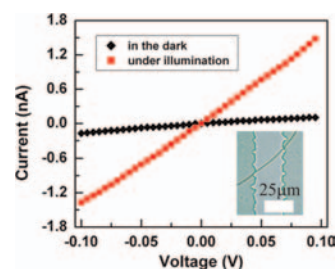
The hydrothermal reactions of the oqa molecules with varied lanthanide ions resulted in the formation of five new complexes, which exhibit three typical structure features.

Preparation and up-conversion fluorescence of rare earth (Er^{3+} or $\text{Yb}^{3+}/\text{Er}^{3+}$)-doped TiO_2 nanobelts
Tianhao Ji, Yang Liu, Hui Zhao, Haiyan Du, Jiayue Sun and Guanglu Ge
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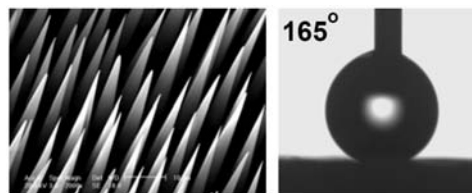
Anatase TiO_2 nanobelts doped with Er^{3+} or $\text{Yb}^{3+}/\text{Er}^{3+}$ cations were simply synthesized using two-step preparation proceedings of ion-exchange and hydrothermal treatment, and their upconversion emissions were also investigated. SEM images of TiO_2 nanobelts (NBs) doped with Er^{3+} (the left) and codoped with $\text{Yb}^{3+}/\text{Er}^{3+}$ (the right).

One-dimensional organic photoconductive nanoribbons built on Zn–Schiff base complex
Li Liu, Ming-Wang Shao and Xiu-Hua Wang
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The Schiff base zinc nanoribbons exhibited good photoresponse under an incandescent lamp, which indicated their potential application as organic semiconductive or photoconductive nanodevices in the future.

A facile processing way of silica needle arrays with tunable orientation by tube arrays fabrication and etching method
Mingwei Zhu, Haigen Gao, Hongwei Li, Jiao Xu and Yanfeng Chen
Page 595



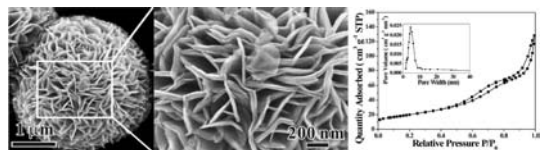
Silica needle arrays are fabricated by tube arrays fabrication and etching method. They show super hydrophobic property after being treated with PDMS.

Continued

A Facile synthesis of flower-like Co_3O_4 porous spheres for the lithium-ion battery electrode

Jun Zheng, Jing Liu, Dongping Lv, Qin Kuang, Zhiyuan Jiang, Zhaoxiong Xie, Rongbin Huang and Lansun Zheng

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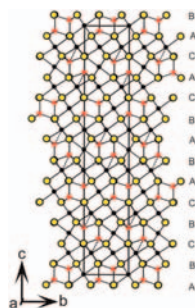


The flower-like Co_3O_4 porous spheres with hierarchical structure have been successfully prepared via a simple calcination process using cobalt hydroxide as precursor.

Synthesis, crystal structure, and properties of the rhombohedral modification of the thiospinel $\text{CuZr}_{1.86(1)}\text{S}_4$

Yongkwan Dong, Michael A. McGuire, Hoseop Yun and Francis J. DiSalvo

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The projected view of the rhombohedral modification, $\text{CuZr}_{1.86(1)}\text{S}_4$, down the [100] direction. Large letters denote the packing sequence of the S atoms (yellow circles) along the c axis. Zr (black circles) and Cu (red circles) atoms occupy the octahedral and tetrahedral holes, respectively, between close packed S layers.

The effect of low levels of dopants upon the formation and properties of beta-phase molybdenum nitride

A.G. Cairns, J.G. Gallagher, J.S.J. Hargreaves, D. McKay, J.L. Rico and K. Wilson

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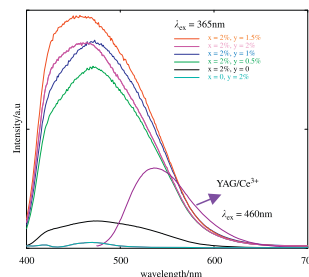


Low levels of Pd, Au, Ni and Cu dopant have significant effects upon the morphology, formation and denitridation characteristics of beta-phase molybdenum nitride.

Luminescence enhancement of Eu^{2+} , Ce^{3+} co-doped $\text{Ba}_3\text{Si}_5\text{O}_{13-\delta}\text{N}_\delta$ phosphors

Ruili Zhang, Tomonori Maeda, Ryosuke Maruta, Sho Kusaka, Bingjun Ding, Kei-ichiro Murai and Toshihiro Moriga

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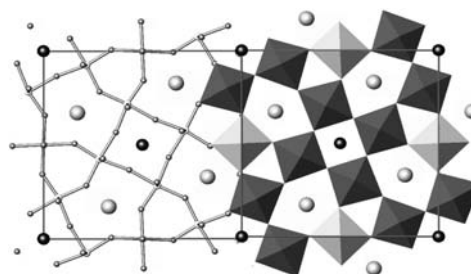


Emission spectra for $\text{Ba}_3(1-x-y)\text{Si}_5\text{O}_{13-\delta}\text{N}_\delta/x\text{Eu}^{2+}y\text{Ce}^{3+}$ ($0 \leq x \leq 2\%$, $0 \leq y \leq 2\%$) under the excitation wavelength of 365 nm.

New high permittivity tetragonal tungsten bronze dielectrics $\text{Ba}_2\text{LaMNb}_4\text{O}_{15}$: $M = \text{Mn, Fe}$

Emma E. McCabe and Anthony R. West

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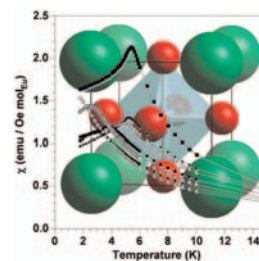


Tetragonal tungsten bronze structure of $\text{Ba}_2\text{La}(\text{Mn, Fe})\text{Nb}_4\text{O}_{15}$ from two different viewpoints.

Solution precursor synthesis and magnetic properties of $\text{Eu}_{1-x}\text{Ca}_x\text{TiO}_3$

Nathaniel L. Henderson, Xianglin Ke, Peter Schiffer and Raymond E. Schaak

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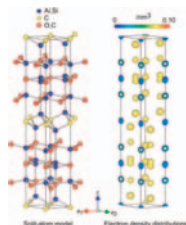


Twelve members of the $\text{Eu}_{1-x}\text{Ca}_x\text{TiO}_3$ solid solution ($0 \leq x \leq 1$) were synthesized by first forming a homogeneously mixed precursor using a modified sol-gel process, followed by reductive annealing. Samples with $x \leq 0.60$ are antiferromagnetic, with T_N decreasing as the level of calcium substitution increases.

Synthesis and structural characterization of Al₄SiC₄-homeotypic aluminum silicon oxycarbide, [Al_{4.4}Si_{0.6}][O_{1.0}C_{2.0}]C

Motoaki Kaga, Tomoyuki Iwata, Hiromi Nakano and Koichiro Fukuda

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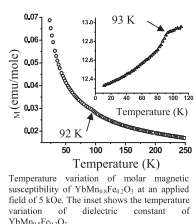


A new oxycarbide discovered in the Al–Si–O–C system, Al₄SiC₄-homeotypic [Al_{4.4}Si_{0.6}][O_{1.0}C_{2.0}]C. The crystal is an inversion twin, and hence the structure is represented by a split-atom model. The three-dimensional electron density distributions are determined by the maximum-entropy methods-based pattern fitting, being consistent with the disordered structural model.

Enhancement of magnetic ordering temperature in iron substituted ytterbium manganate (YbMn_{1-x}Fe_xO₃)

S.L. Samal, T. Magdaleno, K.V. Ramanujachary, S.E. Lofland and A.K. Ganguli

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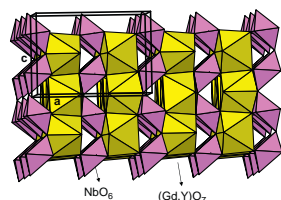


Hexagonal manganites of the type YbMn_{1-x}Fe_xO₃; $x \leq 0.3$ have been synthesized by the solid state route. The distortion of the MnO₃ polyhedra (tbp) decreases and the Mn–O–Mn bonds in the *a*–*b* plane become shorter with Fe-substitution. The compounds were found to be antiferromagnetic and the ordering temperature T_N increased from 82 K for pure YbMnO₃ to 95 K for YbMn_{0.7}Fe_{0.3}O₃. The increase in the ordering temperature in YbMn_{1-x}Fe_xO₃ is explained on the basis of increase in covalence of Mn/Fe–O–Mn/Fe bonds with iron substitution. Low temperature dielectric measurements show a unique correlation between the magnetic and electric fields for all compositions.

Interactions of Ba₂YCu₃O_{6+y} with the Gd₃NbO₇ buffer layer in coated conductors

W. Wong-Ng, Z. Yang, J.A. Kaduk, L.P. Cook and M. Paranthaman

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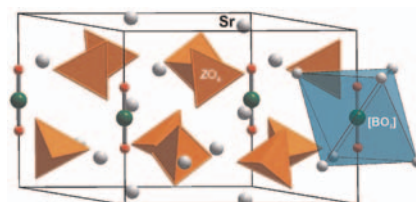


Crystal structure for (Gd_xY_{3-x})NbO₇ showing the partial layered feature. The alternate stacking of distorted NbO₆ octahedra and (Gd,Y)O₇ polyhedra are illustrated. The (Gd,Y)O₈ polyhedra are omitted for clarity.

Sr₁₀[(PO₄)_{5.5}(BO₄)_{0.5}](BO₂): Growth and crystal structure of a strontium phosphate orthoborate metaborate closely related to the apatite-type crystal structure

Shuang Chen, Stefan Hoffmann, Wilder Carrillo-Cabrera, Lev G. Akselrud, Yurii Prots, Ulrich Schwarz, Jing-Tai Zhao and Rüdiger Kniep

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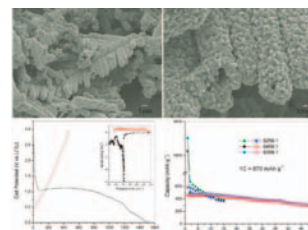


Single crystals of the strontium phosphate orthoborate metaborate, Sr₁₀[(PO₄)_{5.5}(BO₄)_{0.5}](BO₂), were grown from the melt and structurally characterized. The crystal structure is closely related to apatite and contains uncommon linear [BO₂]⁻ metaborate groups taking positions within the channels running along the three-fold inversion axis.

Kirkendall-effect-based growth of dendrite-shaped CuO hollow micro/nanostructures for lithium-ion battery anodes

Yingying Hu, Xintang Huang, Kai Wang, Jinping Liu, Jian Jiang, Ruimin Ding, Xiaoxu Ji and Xin Li

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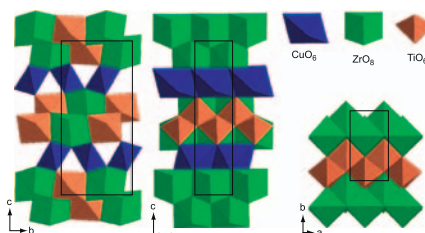


SEM images of 3D dendrite-shaped CuO hollow micro/nanostructures prepared *via* a Kirkendall-effect-based approach have been shown. The as-prepared CuO electrode exhibited significantly improved cyclability for Li-ion batteries.

Synthesis and crystal structure of CuZrTiO₅—A new crystal structure type

Ulrike Troitzsch, Andrew G. Christy, Anthony C. Willis and David J. Ellis

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The new compound CuZrTiO₅ is orthorhombic ($P2_12_12_1$), with $a = 3.5871(3) \text{ \AA}$, $b = 6.6968(4) \text{ \AA}$, $c = 14.6679(9) \text{ \AA}$. The structure, determined with single crystal XRD, represents a new crystal structure type that is a slight distortion of that of In₂TiO₅ but differs in space group and cation coordination.

Continued

Synthesis, structures and magnetic properties of $n = 3$ Ruddlesden–Popper compounds $\text{Ca}_4\text{Mn}_{3-x}\text{Ta}_x\text{O}_{10}$ ($0 \leq x \leq 0.3$)

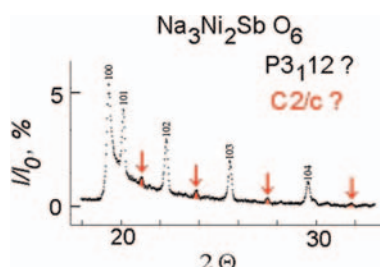
Ping Chai, Xiaojuan Liu, Yao Liu, Minfeng Lv and Jian Meng
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The magnetic structures of $\text{Ca}_4\text{Mn}_{3-x}\text{Ta}_x\text{O}_{10}$ transit from G-type AFM to cluster glass state with the intermediate state of FM clusters exhibited in AFM matrix as Ta increasing.

Mixed oxides of sodium, antimony (5+) and divalent metals (Ni, Co, Zn or Mg)

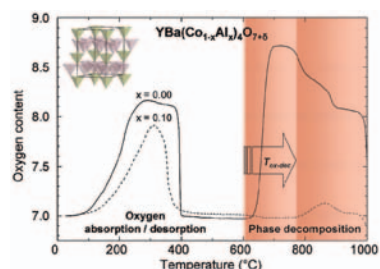
V.V. Politaev, V.B. Nalbandyan, A.A. Petrenko, I.L. Shukaev, V.A. Volotchayev and B.S. Medvedev
Page 684



It is shown that the powder patterns for $\text{Na}_3\text{M}_2\text{SbO}_6$ ($M = \text{Ni}$ and Co) may be equally well described by a trigonal $P3_12$ cell and a monoclinic $C2/m$ cell. In addition, the Ni compound exhibits a series of extremely weak reflections ($I < 0.3\%$) that need doubling of the monoclinic c axis, and the final cell is $C2/c$.

Stability and oxygen-storage characteristics of Al-substituted $\text{YBaCo}_4\text{O}_{7+\delta}$

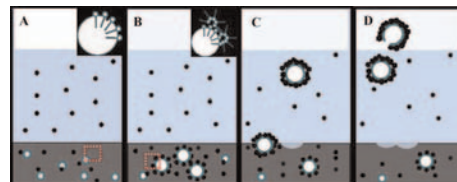
Samuli Räsänen, Teruki Motohashi, Hisao Yamauchi and Maarit Karppinen
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A small amount of aluminum replacing cobalt in $\text{YBaCo}_4\text{O}_{7+\delta}$ works efficiently for boosting up the phase-decomposition temperature (T_D), but yet retains the unique low-temperature oxygen-storage characteristics of the phase.

Triple assembly of ZnO, large-scale hollow spherical shells with flower-like species consisting of rods grown on the outer surfaces of shells

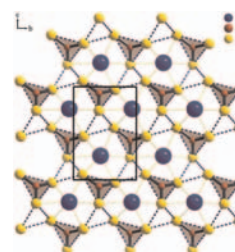
Yazhuo Shang, Jun Hu, Honglai Liu and Ying Hu
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A proposed growth mechanism of large scale hollow ZnO. Bubbles provide the aggregation center for ionic liquids that leads to the formation of hollow Zn particle-dotted shells, buoyancy promotes shells to go upward, the breach occurs when shells are subjected to overpressure.

Synthesis and crystal structure of the isotopic rare earth thioborates $\text{Ce}[\text{BS}_3]$, $\text{Pr}[\text{BS}_3]$, and $\text{Nd}[\text{BS}_3]$

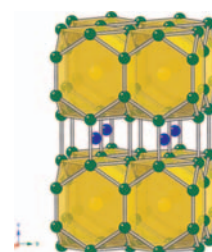
Jens Hunger, Marija Borna and Rüdiger Kniep
Page 702



The isotopic orthothioborates $\text{Ce}[\text{BS}_3]$, $\text{Pr}[\text{BS}_3]$ and $\text{Nd}[\text{BS}_3]$ were prepared using different preparation routes. The crystal structure of the title compounds was determined from X-ray powder diffraction data. The crystal structures contain isolated $[\text{BS}_3]^{3-}$ groups with boron in trigonal-planar coordination. The sulfur atoms form the vertices of corrugated kagome nets (sketched with blue dotted lines), which are stacked along $[100]$ according to the sequence ABAB. Within these nets every second triangle is occupied by boron and the large hexagons are centered by rare earth ions, which are surrounded by overall nine sulfur species.

Magnetic order and heavy fermion behavior in $\text{CePd}_{1+x}\text{Al}_{6-x}$: Synthesis, structure, and physical properties

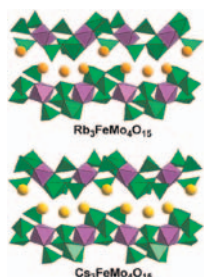
Paul H. Tobash, Filip Ronning, J.D. Thompson, Svilen Bobev and Eric D. Bauer
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The compound $\text{CePd}_{1+x}\text{Al}_{6-x}$ ($x = 0.5$) has been synthesized and structurally characterized by single-crystal X-ray diffraction. The measured physical properties of temperature and field dependent magnetic susceptibility, specific heat, and electrical resistivity suggests that the compound undergoes ferromagnetic order at *ca.* 2.8 K and further exhibits relatively heavy fermion behavior with a Sommerfeld coefficient of 500 mJ/mol-K².

Phase formation features in the systems $M_2\text{MoO}_4\text{-Fe}_2(\text{MoO}_4)_3$ ($M=\text{Rb}, \text{Cs}$) and crystal structures of new double polymolybdates $M_3\text{FeMo}_4\text{O}_{15}$

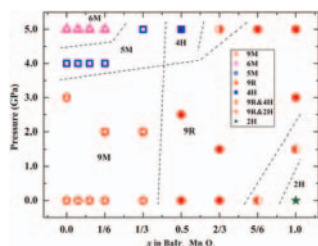
Klara M. Khal'baeva, Sergey F. Solodovnikov, Elena G. Khaikina, Yuliya M. Kadyrova, Zoya A. Solodovnikova and Olga M. Basovich
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Systems $M_2\text{MoO}_4\text{-Fe}_2(\text{MoO}_4)_3$ ($M=\text{Rb}, \text{Cs}$) are non-quasibinary joins of the systems $M_2\text{O-Fe}_2\text{O}_3\text{-MoO}_3$ where new compounds $M_3\text{FeMo}_4\text{O}_{15}$ were revealed. Their structures have diverse mutual arrangements of the adjacent chains of Fe^{3+}O_6 , MoO_6 and MoO_4 polyhedra.

Structural and physical properties evolution of $\text{BaIr}_{1-x}\text{Mn}_x\text{O}_3$ solid solutions synthesized by high-pressure sintering

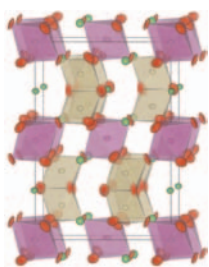
J.G. Zhao, L.X. Yang, Y. Yu, F.Y. Li, R.C. Yu and C.Q. Jin
Page 720



The $\text{BaRu}_{1-x}\text{Mn}_x\text{O}_3$ solid solutions were synthesized by using the solid-state chemical method and high-pressure sintering, and the pressure-composition “phase diagram” at 1000 °C was obtained.

Synthesis, structures, and phase transitions of barium bismuth iridium oxide perovskites $\text{Ba}_2\text{BiIr}_2\text{O}_6$ and $\text{Ba}_3\text{BiIr}_2\text{O}_9$

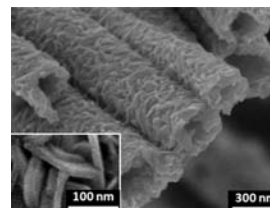
Chris D. Ling, Brendan J. Kennedy, Qingdi Zhou, Jarrah R. Spencer and Maxim Avdeev
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Structure of $\text{Ba}_3\text{BiIr}_2\text{O}_9$ at 300 K. BiO_6 octahedra are purple, IrO_6 octahedra are gold, and Ba atoms are green. Thermal ellipsoids at 90% probability.

In situ generated dense shell-engaged Ostwald ripening: A facile controlled-preparation for $\text{BaFe}_{12}\text{O}_{19}$ hierarchical hollow fiber arrays

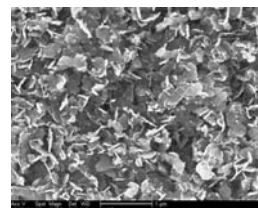
Fang-zhi Mou, Jian-guo Guan, Zhi-gang Sun, Xi-an Fan and Guo-xiu Tong
Page 736



This paper described a simple and convenient approach that allows for the facile fabrication of $\text{BaFe}_{12}\text{O}_{19}$ hierarchical nanotubes or nanotube arrays by a deliberately devised two-step heat-treatment process, in which the dense shells generated in situ during the short-time pre-treatment procedure direct Ostwald ripening of flake-shaped $\text{BaFe}_{12}\text{O}_{19}$ nanocrystals in the elevated temperature heat-treatment procedure.

Mn_3O_4 nanoplates and nanoparticles: Synthesis, characterization, electrochemical and catalytic properties

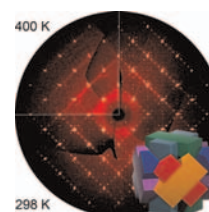
Khalid Abdelazez Mohamed Ahmed, Qiumei Zeng, Kangbing Wu and Kaixun Huang
Page 744



Mn_3O_4 hexagonal nanoplates and nanoparticles were synthesized via a solvent-assisted hydrothermal oxidation process at low temperature and a solvothermal oxidation method, respectively. Their capability of catalytic oxidation of aldehyde at room temperature and atmospheric pressure and electrochemical properties by cyclic voltammogram were compared.

The $A\text{FeO}_2$ ($A=\text{K}, \text{Rb}$ and Cs) family: A comparative study of structures and structural phase transitions

Naveed Zafar Ali, Jürgen Nuss, Denis Sheptyakov and Martin Jansen
Page 752



Reciprocal layer $hk0$ for the orthorhombic room temperature phase, with pseudo cubic symmetry due to twinning, and the cubic high temperature phase of CsFeO_2 . Upon heating the major structural changes are driven by the enhancement of librational motion of the $[\text{FeO}_{4/2}]^-$ corner-sharing tetrahedra, a phenomenon related to the high/low phase transition of cristobalite.

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