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References


[27] Harindranath K, Viswanath KA, Chandran CV, Bräuniger T, Madhu PK, Ajithkumar TG, Joy PA. Evidence for the co-existence of distorted tetrahedral and trigonal bipyr-
amidal aluminium sites in SrAl$_{12}$O$_{19}$ from 27Al NMR studies. Solid State Communications 2010;150(5-6) 262-266.


[30] Chawla S, Yadav A. Role of valence state of dopant (Eu$^{2+}$, Eu$^{3+}$) and growth environment in luminescence and morphology of SrAl$_{12}$O$_{19}$ nano- and microcrystals. Materials Chemistry and Physics 2010;122(2-3) 582-587.


[32] Verduin HR, Wortman DE, Morrison CA, Bradshaw JL. Optical properties of Nd$^{3+}$ in single crystal SrAl$_{12}$O$_{19}$. Optical Materials 1997;7(3) 117-128.


[34] Li YJ, Ma YY, Ye S, Hu GP, Zhang QY. Site-related near-infrared luminescence in MA1$_{12}$O$_{19}$ (M = Ca, Sr, Ba):Fe$^{3+}$ phosphors. Materials Research Bulletin 2014;51 1-5.


[38] Verstegen JMPJ, Stevels ALN. The relation between crystal structure and luminescence in β-alumina and magnetoplumbite phases. Journal of Luminescence 1974;9(5) 406-414.


[55] Tarnopol’skaya RA, Gol’ko NV. The CaO-SrO-Al\textsubscript{2}O\textsubscript{3}-ZrO\textsubscript{2} system and its importance for refractories technology. Refractories and Industrial Ceramics 1967;8(11-12) 760-763.

[56] Pitak YN, Proskurnya EM. On the subsolidus structure in the CaAl\textsubscript{4}O\textsubscript{7} – Ca\textsubscript{7}Al\textsubscript{6}ZrO\textsubscript{18} – CaAl\textsubscript{2}O\textsubscript{4} – CaZrO\textsubscript{3} – SrZrO\textsubscript{3} – SrAl\textsubscript{2}O\textsubscript{4} – CaZrO\textsubscript{3} – SrZrO\textsubscript{3} – SrAl\textsubscript{2}O\textsubscript{4} region of the CaO – SrO – Al\textsubscript{2}O\textsubscript{3} – ZrO\textsubscript{2} system. Refractories and Industrial Ceramics 2000;41(9-10) 360-363.


[58] Latimer WM. Methods of estimating the entropies of solid compounds. Journal of the American Chemical Society 1951;73(4) 1480-1482.


[61] Votruba P, Leitner J. A method for the estimation of the enthalpy of formation of mixed oxides in Al\textsubscript{2}O\textsubscript{3}–Ln\textsubscript{2}O\textsubscript{3} systems. Journal of Solid State Chemistry 2009;182(4) 744-748.


[68] Boyko ER, Wisnyi LG. The optical properties and structures of CaO⋅(Al\textsubscript{2}O\textsubscript{3})\textsubscript{2} and SrO⋅(Al\textsubscript{2}O\textsubscript{3})\textsubscript{2}. Acta Crystallographica 1958;11 444-445.


[94] Casey WH, Chal L, Navrotsky A, Rock PA. Thermochemistry of mixing strontianite [SrCO$_3$(s)] and aragonite [CaCO$_3$(s)] to form Ca$_x$Sr$_{1-x}$CO$_3$(s) solid solutions. Geochimica et Cosmochimica Acta 1996;60(6) 933-940.


[98] Fubini B, Renzo FD, Stone FS. Strontianite-aragonite solid solutions Sr\(_x\)Ca\(_{1-x}\)CO\(_3\): Effect of composition on the orthorhombic-rhombohedral phase transition and the conversion to oxide solid solutions Sr\(_x\)Ca\(_{1-x}\)O. Journal of Solid State Chemistry 1988;77(2) 281-292.


[143] Bayer KJ. Verfahren zur darstellung von thonerhydrat und alkalialuminat; 1892.


[183] Alavi MA, Morsali A. Syntheses and characterization of Sr(OH)$_2$ and SrCO$_3$ nanostructures by ultrasonic method. Ultrasonics Sonochemistry 2010;17(1) 132-138.


[257] Ishii H, Satoh KZ. Determination of micro amounts of samarium and europium by analogue derivative spectrophotometryAnalytical Chemistry 1982;312(2) 114-120.


[281] Bond FC. Crushing and Grinding Calculations Parts I and II. British Chemical Engineering 6 (6&8); 1961.


[327] Megaw HD. Zeitschrift für Kristallographie, Mineralogie und Petrographie 1934;87 185-204.


[358] Bettman M, Peters CR. The crystal structure of Na₂O·MgO·5Al₂O₃ with reference to Na₂O·5Al₂O₃ and other isotypal compounds. Journal of Physical Chemistry 1969;73 1774-1780.


Gerstig M, Wadsö L. A method based on isothermal calorimetry to quantify the influence of moisture on the hydration rate of young cement pastes. Cement and Concrete Research 2010;40(6) 867-874.


...Early hydration of calcium sulfoaluminate cement through electrical resistivity measurement and microstructure investigations. Construction and Building Materials 2011;25(4) 1572-1579.


References 301


[521] Dondero M, Cisilino AP, Carella JM, Pablo TJ. Effective thermal conductivity of functionally graded random micro-heterogeneous materials using representative volume


[532] Carey E, Stubenrauch C. Free drainage of aqueous foams stabilized by mixtures of a non-ionic (C12DMPO) and an ionic (C12TAB) surfactant. Colloids and Surfaces A: Physicochemical and Engineering Aspects 2013;419 7-14.


[570] Valore RC. Cellular concrete part 1, Composition and methods of production. published in American Concrete Institute Journal 1954;50 773-796.


[580] Manu KM, Joseph T, Sebastian MT. Temperature compensated $\text{Sr}_2\text{Al}_2\text{SiO}_7$ ceramic for microwave applications. Materials Chemistry and Physics 2012;133(1) 21-23.
Dear PS. Isomorphism of åkermanite and strontio-gehlenite. Lithos 1970;3(1) 13-16.


[613] Rivas-Mercury JM, Pena P, de Aza AH, Turrillas X. Dehydration of Ca$_3$Al$_2$(SiO$_4$)$_3$(OH)$_4(3-y)$ ($0 < y < 0.176$) studied by neutron thermodiffractometry. Journal of the European Ceramic Society 2008;28(9) 1737-1748.


[618] Stöber S, Redhammer G, Schorr S, Prokhnenko O, Pöllmann H. Structure refinements of members in the brownmillerite solid solution series Ca$_3$Al$_x$(Fe$_{0.5}$Mn$_{0.5}$)$_2$O$_{5+δ}$ with $1/2 ≤ x ≤ 4/3$. Journal of Solid State Chemistry 2013;197420-428.


[624] Casey PS, Barker D, Hayward MA. Charge and structural ordering in the brownmillerite phases: La$_{1-x}$Sr$_x$MnO$_{2.5}$ (0.2<x<0.4). Journal of Solid State Chemistry 2006;179(5) 1375-1382.


[628] Mahboub MS, Zeroual S, Boudjada A. Synthesis of homogeneous Ca$_{0.5}$Sr$_{0.5}$FeO$_{2.5+δ}$ compound using a mirror furnace method. Materials Research Bulletin 2012;47(2) 370-374.

[629] Prado F, Grunbaum N, Caneiro A, Manthiram A. Effect of La$^{3+}$ doping on the perovskite-to-brownmillerite transformation in Sr$_{1-x}$La$_x$Co$_{0.8}$Fe$_{0.2}$O$_{3-δ}$ (0≤x≤0.4). Solid State Ionics 167(2004) 147-154.


[635] Abakumov AM, Rozova MG, Ph Pavlyuk B, Lobanov MV, Antipov EV, Lebedev OL, van Tendeloo G, Ignatchik OL, Ovtchenkov EA, Koksharov YA, Vasil’ev AN. Syn-


[641] Leonidov IA, Patrakeev MV, Bahteeva JA, Mitberg EB, Kozhevnikov VL, Colomban P, Poeppelmeier KR. High-temperature phase equilibria in the oxide systems SrFe$_{1\text{x}}$,Ga$_{2\text{x}}$:SrFe$_{1\text{x}}$,Ga$_{0\text{x}}$ ($x = 0, 0.1, 0.2$). Journal of Solid State Chemistry 2006;179(4):1093-1099.


Cho S.-A, Arenas FJ, Ochoa J. Densification and hardness of Al$_2$O$_3$-Cr$_2$O$_3$ system with and without Ti addition. Ceramics International 1990;16(5) 301-309.


Mitra NK, Maitra S, Gnanabharathi D, Parya TK, Dey R. Effect of Cr$_2$O$_3$ on the sintering of aluminosilicate precursor leading to mullite formation. Ceramics International 2001;27(3) 277-282.


Pakhomov NA, Kashkin VN, Nemykina EI, MolchanovVV, Nadtochiy VI, Noskov AS. Dehydrogenation of C3–C4 paraffins on Cr$_2$O$_3$/Al$_2$O$_3$ catalysts in fluidized and fixed bed reactors. Chemical Engineering Journal 2009;154(1-3) 185-188.


Shee D, Sayari A. Light alkane dehydrogenation over mesoporous Cr$_2$O$_3$/Al$_2$O$_3$ catalysts. Applied Catalysis A: General 2010;389(1-2) 155-164.


Peters D, Hummel FA. Phase studies in the systems CaO Al$_2$O$_3$ CaCrO$_4$ and SrO Al$_2$O$_3$ SrCrO$_4$. Cement and Concrete Research 1979;9(2) 259-268.


[711] Poellmann H, St. Auer H-J, Wenda KR. Solid solution of ettringites: Part II: Incorporation of B(OH)$_4^-$ and CrO$_4^{2-}$ in 3CaO·Al$_2$O$_3$·3CaSO$_4$·32H$_2$O. Cement and Concrete Research 1993;23(2) 422-430.

[712] Baur I, Johnson CA. The solubility of selenate-AFt (3CaO·Al$_2$O$_3$·3CaSeO$_4$·37.5H$_2$O) and selenate-AFm (3CaO·Al$_2$O$_3$·CaSeO$_4$·xH$_2$O). Cement and Concrete Research 2003;33(11) 1741-1748.


[715] Perkins RB, Palmer CD. Solubility of Ca$_6$[Al(OH)$_6$]$_2$[(CrO$_4$)$_3$·26H$_2$O, the chromate analog of ettringite at 5–75 °C. Applied Geochemistry 2000;15 1203-1218.


[719] Barnett SJ, Adam CD, Jackson ARW. An XRPD profile fitting investigation of the solid solution between ettringite, Ca₆Al₂(SO₄)₃(OH)₁₂·26H₂O, and carbonate ettringite, Ca₆Al₂(CO₃)₃(OH)₁₂·26H₂O. Cement and Concrete Research 2001;31(1) 13-17.


[734] Vladu CM, Hall Ch, Maitland GC. Flow properties of freshly prepared ettringite suspensions in water at 25 °C. Journal of Colloid and Interface Science 2006;294(2) 466-472.


[736] Perkins RB, Palmer CD. Solubility of chromate hydrocalumite (3CaO·Al₂O₃·CaCrO₄·nH₂O) 5-75°C. Cement and Concrete Research 2001;31(7) 983-992.


[746] Narayanan PS, Lakshmanan BR. Infrared and raman spectra fo witherite (BaCO₃) and strontianite (SrCO₃). Journal of the Indian Institute of Science 1957;40(1) 1-12.


[756] Xiang Ying Chen, Zhao Li, Shi Ping Bao, Ping Ting Ji. Porous MAI$_2$O$_4$:Eu$^{2+}$ (Eu$^{3+}$), Dy$^{3+}$ (M=Sr, Ca, Ba) phosphors prepared by Pechini-type sol-gel method: The effects of solvents. Optical Materials 34 (2011) 48-55.


[774] Li X, Qu Y, Xie X, Wang Z, Li R. Preparation of SrAl$_2$O$_4$: Eu$_{0.1}$, Dy$_{0.9}$ nanometer phosphors by detonation method. Materials Letters 2006;60(29-30) 3673-3677.


[793] Garcés RS, Torres JT, Valdés AF. Synthesis of SrAl$_2$O$_4$ and Sr$_3$Al$_2$O$_6$ at high temperature, starting from mechanically activated SrCO$_3$ and Al$_2$O$_3$ in blends of 3:1 molar ratio. Ceramics International 2012;38(2) 889-894.


[801] Nsimama PD, Ntwaeaborwa OM, Coetsee E, Swart HC. The influence of the number of pulses on the morphological and photoluminescence properties of SrAl$_2$O$_4$: Eu$^{2+}$, Dy$^{3+}$ thin films prepared by pulsed laser deposition. Physica B 2009;404 4489-4492.


[811] Mothudi BM, Ntwaeaborwa OM, Botha JR, Swart HC. Photoluminescence and phosphorescence properties of MAI$_2$O$_5$:Eu$^{2+}$, Dy$^{3+}$ (M=Ca, Ba, Sr) phosphors prepared at an initiating combustion temperature of 500°C. Physica B: Condensed Matter 2009;404(22) 4440-4444.


[814] Sharma SK, Pitale SS, Malik MM, Qureshi MS, Dubey RN. Spectral and kinetic characterization of orange-red emitting Sr$_2$Al$_2$O$_7$:Eu$^{3+}$/Sm$^{3+}$ phosphor. Journal of Alloys and Compounds 2009;482(1-2) 468-475.


[824] Shafia E, Bodaghi M, Tahriri M. The influence of some processing conditions on host crystal structure and phosphorescence properties of SrAl₂O₄:Eu²⁺, Dy³⁺ nanoparticle pigments synthesized by combustion technique. Current Applied Physics 2010;10(2) 596-600.


[829] Cui Z, Ye R, Deng D, Hua Y, Zhao S, Jia G, Li Ch, Xu S. Eu\textsuperscript{3+}/Sm\textsuperscript{3+} ions co-doped white light luminescence SrSiO\textsubscript{3} glass-ceramics phosphor for White LED. Journal of Alloys and Compounds 2011;509(8) 3553-3558.


[831] Liu H, Wang Y, Yang J, Li L, Su W, Guan Z, Yu B. The structure and luminescence characteristics of SrSiO\textsubscript{3}:Eu\textsuperscript{3+}:Bi\textsuperscript{3+} synthesized at a high pressure and high temperature. Journal of Alloys and Compounds 1993;191(1) 1-4.

[832] Tshabalala MA, Dejene FB, Pitale SS, Swart HC, Ntwaeaborwa OM. Generation of white-light from Dy\textsuperscript{3+} doped Sr\textsubscript{2}SiO\textsubscript{4} phosphor. Physica B: Condensed Matter 2014;439 126-129.

[833] Saradhi MP, Lakshminarasimhan N, Boudin S, Gupta KVK, Varadaraju UV, Raveau B. Enhanced luminescence of Sr\textsubscript{2}SiO\textsubscript{4}:Dy\textsuperscript{3+} by sensitization (Ce\textsuperscript{3+}/Eu\textsuperscript{2+}) and fabrication of white light-emitting-diodes. Materials Letters 2014;117 302-304.

[834] Gupta SK, Kumar M, Natarajan V, Godbole SV. Optical properties of sol-gel derived Sr\textsubscript{2}SiO\textsubscript{4}:Dy\textsuperscript{3+} - Photo and thermally stimulated luminescence. Optical Materials 2013;35(12) 2320-2328.

[835] Yang R.-Y, Chen H.-Y, Chang S.-J, Yang Y.-K. Effect of Eu\textsuperscript{3+} concentration on microstructure and photoluminescence of Sr\textsubscript{2}SiO\textsubscript{4}:Eu\textsuperscript{3+} phosphors prepared by microwave assisted sintering. Journal of Luminescence 2012;132(3) 780-783.


[837] Qiao Y, Zhang X, Ye X, Chen Y, Guo H. Photoluminescent properties of Sr\textsubscript{2}SiO\textsubscript{4}:Eu\textsuperscript{3+} and Sr\textsubscript{2}SiO\textsubscript{4}:Eu\textsuperscript{2+} phosphors prepared by solid-state reaction method. Journal of Rare Earths 2009;27(2) 323-326.

[838] Dutczak D, Milbrat A, Katelnikovas A, Meijerink A, Ronda C, Jüstel T. Yellow persistent luminescence of Sr\textsubscript{2}SiO\textsubscript{4}:Eu\textsuperscript{3+},Dy\textsuperscript{3+}. Journal of Luminescence 2012;132(9) 2398-2403.


[858] Sudarsanan K, Young RA. Structure of strontium hydroxide phosphate, Sr$_5$(PO$_4$)$_3$OH. Acta Crystallographica Section B 1972;B28(12) 3668-3670.


[888] Wang X, Gan J, Huang Y, Seo HJ. The doping concentration dependent tunable yellow luminescence of Sr$_2$(PO$_4$)$_2$(SiO$_4$)$_2$Eu$^{2+}$. Ceramics International 2012;38(1) 701-706.


[892] Krzmanc MM, Valant M, Suvorov D. The synthesis and microwave dielectric properties of Sr\(_x\)Ba\(_{1-x}\)Al\(_2\)Si\(_2\)O\(_8\) and Ca\(_x\)Ba\(_{1-x}\)Al\(_2\)Si\(_2\)O\(_8\) ceramics. Journal of the European Ceramic Society 2007;27(2-3) 1181-1185.


[899] Limeng L, Feng Y, Haijiao Z, Jie Y, Zhiguo Z. Celsian formation in Si\(_3\)N\(_4\)-Ba\(_{0.75}\)Sr\(_{0.25}\)Si\(_2\)Al\(_2\)O\(_8\) composites. Scripta Materialia 2009;60(6) 463-466.

[900] Strnad Z. Glass-Ceramic Materials, Glass Science and Technology; Volume 8; Amsterdam: Elsevier; 1986.


[908] Lan Z, Chengyu L, Qiang S. Long lasting phosphorescence in Eu²⁺ and Ce³⁺ co-doped strontium borate glasses. Journal of Rare Earths 2006;24(1) 196-198.


Sekhar KC, Hong KP, Key SH, Han ChS, Kim JCh, Kim DS, Park JCh, Cho YS. Enhanced dielectric and tunable characteristics of K-doped $\text{Ba}_{0.5}\text{Sr}_{0.5}\text{TiO}_3$ thin films prepared by pulsed laser deposition. Current Applied Physics 2012;12(3) 654-658.


Hu T, Jantunen H, Uusimäki A, Leppävuori S. $\text{Ba}_{0.7}\text{Sr}_{0.3}\text{TiO}_3$ powders with $\text{B}_2\text{O}_3$ additive prepared by the sol–gel method for use as microwave material. Materials Science in Semiconductor Processing 2002;5(2-3) 215-221.


Lichtenberg F, Herrmberger A, Wiedenmann K, Mannhart J. Synthesis of perovskite-related layered $\text{A}_n\text{B}_n\text{O}_{3n+2} = \text{ABOX}$ type niobates and titanates and study of their structural, electric and magnetic properties. Progress in Solid State Chemistry 2001;29(1-2) 1-70.


[970] Li S, Hu QY, Liu HK, Dou SX, Gao W. The grain alignment of Bi2223, Bi2212 and Bi2223 + Bi2212 phases in mechanical deformation and annealing processes. Physica C: Superconductivity 1997;279(3-4) 265-276.


[977] Marcos MD, Attfield JP. Crystal structure of Tl0.5Pb0.5Sr2Ca2Cu3O9 at 300 K and around Tc (118 K). Physica C: Superconductivity 1996;270(3-4) 267-273.


[979] Singh B, Gupta S, Sharma N, Goyal SC. Higher order elastic constants of La1.8Sr0.2CuO4 high temperature superconductor. Physica C: Superconductivity 2005;419(1-2) 1-6.


[981] Jayachandran KP, Menon CS. Mode Grüneisen parameters and the low temperature thermal expansion of high-Tc superconductor La1.8Sr0.2CuO4. Physica C: Superconductivity 2002;383(1-2) 159-168.


[990] Xiao B, Feng J, Chen JC, Yu L. Crystal structures and electronic properties of MC₂ (M = Mg, Ca, Sr, Ba) by comparative studies based on ab-initio calculations. Chemical Physics Letters 2007;448(1-3) 35-40.


[1024] Zhou L, Guo J, Yang N, Li L. KISolid-state magnetic resonance and infrared spectroscopy of alkali feldspars. Science in China (Series D) 1997;40(2) 159-165.


[1036] Mallik A, Kundu P, Basumajumdar A. Nucleation, crystallization behavior and microstructure of mica glass-ceramics in the system SrO–4MgO·xAl₂O₃·6SiO₂·2MgF₂ (x=1, 1.5 and 2). Ceramics International 2013;39(6) 6963-6969.


