
Scandium Yttrium Lanthanum Lanthanide Nitrates Lupac

the band spectra of scandium-, yttrium-, and lanthanum ... -

the atomic spectra of scandium, yttrium, and lanthanum have been under investigation at this bureau since 1925, and it was found necessary in each case to make new descriptions of the spectra before **scandium and yttrium - mercyhurst university** - since their discovery, many uses of the compounds of scandium and yttrium have been found. scandium(III) oxide is used for its heat and thermal shock resistance in high temperature systems such as ceramics. 1 yttrium(III) oxide or yttrium(III) vanadate, YVO_4 , doped with europium are the most widely used yttrium compounds. **the magnetic properties of high purity scandium, yttrium ...** - yttrium and lanthanum. scandium, yttrium and lanthanum are all reported to have a noble gas plus a (n-1)d ns electronic configuration. for elements following scandium and yttrium in the periodic table the electrons are added to the (n-1)d orbitals. however the elements following lanthanum are formed by the addition of electrons to the 4f ... **complex formation reactions of scandium(III), yttrium(III) ...** - scandium(sc(III)), yttrium(y(III)) and lanthanum(la(III)) are elements of the group 3b in the periodic table. being in the main group, these elements lose all their 3 valence electrons and form a well-defined cationic aqueous chemistry. for this reason, each member of the group has similar chemistry with the transition elements. **extractive separation of scandium, yttrium, lanthanum ...** - lanthanoids, the separation of scandium from either lanthanoids or iron is an important subject-matter extensively studied. 1,10-bis(1-phenyl-3-methyl-5-oxopyrazol-4-yl)decane-1,10-dione (bpmopd, h 2 a) is an acyclic quadridentate β -diketone chelating agent, which has two terminal pyrazolones linked by a flexible aliphatic α , α -diacyl [1]. **periodic table trends key - mr. fischer - 3.** scandium, yttrium, and lanthanum are located near each other in the periodic table. which of these elements is (a) the largest atom? (b) the atom with the smallest ionization energy? a) la b) la 4. (a) which of the following atoms is smallest: vanadium, chromium, or tungsten? (b) which of these atoms has the highest ionization energy? a) cr ... **mixed sandwiches of group 3 elements: synthesis and ups ...** - the scandium and yttrium compounds sublime under conditions (ca. 150 °C/0.1 mmHg) comparable with those reported for mixed sandwiches of group 4 [8]. cp lacot is considerably less volatile, and requires more drastic conditions for sublimation (200-225 °C/10-3 mmHg). this suggests that the lanthanum compound, in con- **structure of silicate oxynitride melt doped with scandium ...** - scandium, yttrium and lanthanum systems were performed with plane-wave cut-offs of 250 eV, 213 eV, and 250 eV, respectively. the cut-offs correspond to the maxima of the minimal values recommended for dft molecular dynamics among atoms present in the oxynitride systems. brillouin-zone sampling was restricted to **scandium and yttrium phosphalene complexes as initiators ...** - scandium and yttrium phosphalene complexes as initiators for ring-opening polymerization of cyclic esters clare bakewell, andrew j. p. white, nicholas j. long,* and charlotte k. williams* department of chemistry, imperial college london, london sw7 2az, united kingdom * s supporting information **some physical-metallurgical properties of scandium, yttrium** - over the true normal room temperature structure of lanthanum, cerium, praseodymium and neodymium. the remaining rare earths as well as scandium and yttrium have been previously investigated but only by a few workers. in almost all cases the purity of the metals is questionable especially **the positions of lanthanum (actinium) and lutetium ...** - with scandium and yttrium. the argument that the total (i.e., core plus valence) electronic configurations of lanthanum and actinium are closer to those of scandium and yttrium than are the configurations - of lutetium and lawrencium (due to their filled (n - 2)f⁴ ~ ~ subshells) is misleading. one must consider intra-orbital as well **solubility polytherms and eutectic concentrations of ...** - (solubility polytherms) for solutions of yttrium, scandium, and lanthanum perchlorates. the choice of perchlorate systems was motivated by weak complexing, proton-donor, and proton-acceptor abilities of the perchlorate anion, which makes it possible to trace the effect of the cation on the eutectic concentration **atomic layer deposition of lanthanum-based ternary oxides - sors:** lanthanum tris n,n-di-iso-propylformamidinate, scandium tris n,n-diethylacetamidinate, lutetium tris n,n-diethyl-formamidinate, and yttrium tris n,n-di-iso-propylacetamidinate. the ternary oxide films $La_xM_{2-x}O_3$ $m = sc, lu, or y$ were deposited by repeatedly growing m-layers of La_2O_3 followed by n-layers of M_2O_3 with $m, n = 1 \dots$

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