

Title (en)
SUPPORTED CATALYSTS HAVING A CONTROLLED COORDINATION STRUCTURE AND METHODS FOR PREPARING SUCH CATALYSTS

Title (de)
TRÄGERKATALYSATOR MIT GESTEUERTER KOORDINATIONSSTRUKTUR UND VERFAHREN ZUR HERSTELLUNG SOLCHER KATALYSATOREN

Title (fr)
CATALYSEURS SUPPORTES POSSEDANT UNE STRUCTURE DE COORDINATION CONTROLEE ET PROCEDES DE PREPARATION DE CES CATALYSEURS

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Abstract (en)
[origin: WO2005009611A2] Supported reactive catalysts having a controlled coordination structure and methods for their production are disclosed. The supported catalyst comprises catalyst particles having top or outer layer of atoms in which at least a portion of the atoms exhibit a controlled coordination number of 2. Such catalysts may be manufactured from intermediate precursor compositions that include a control agent in which a preponderance of the molecules are straight-chained rather than branched. The supported catalysts (10) includes a support (12), which initially includes hydroxyl groups on a surface thereof, an anchoring agent (14) chemically bonded to the hydroxyl groups of the support (12) by a condensation reaction and a catalyst particle (6) bonded or attached in some manner (not shown) to the anchoring agent. The supported catalyst of the present invention are useful for the preparation of hydrogen peroxide with high selectivity in addition to other chemical conversion reactions.

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