

Title (en)
PROCESS FOR PRODUCING ATOMIC QUANTUM CLUSTERS

Title (de)
VERFAHREN ZUR HERSTELLUNG ATOMARER QUANTENCLUSTER

Title (fr)
PROCÉDÉ DE PRODUCTION DE CLUSTERS ATOMIQUES QUANTIQUES

Publication
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Application
EP 19700963 A 20190124

Priority

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Abstract (en)
[origin: WO2019145409A1] The present invention provides a neasy and scalable process for producing atomic quantum clusters (AQC)s with a high yield and without the need of capping ligands, in the presence of a promoter. Moreover, the invention provides a mixture comprising at least an atomic quantum cluster, optionally a metal salt, optionally a hole scavenger having a standard electrode potential lower than the HOMO orbital of the AQC)s, optionally an oxidant having a standard electrode potential over the standard electrode potential of said metal ion, and a polar solvent, wherein the metal salt and the hole scavenger are both soluble in the polar solvent and do not react with each other, and wherein the number of equivalents of hole scavenger in the mixture are higher than the number of equivalents of metal salt in the mixture.

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