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ABSTRACT OF THE DISCLOSURE

A method for producing fine or ultra fine powder particles comprising mixing a metal alkoxide with a non-metallic hydride in an organic solvent, agitating the mixed solution, and then burning the mixed solution. The burning process comprises igniting the solution directly or burning the solution in situ. A self-sustaining flame will result. When the precursor solution burns, the metallic compound will be co-fired with the organic solvent. As a result, fine or ultra fine particles of mixed metal will burst from the flame, or thrust through the flame and be synthesized.



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