

総説論文

ナノ材料の現状とプロセッシングによる解決・産官学連携による推進

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Solution of Nanomaterial Problems by Processing and Promotion of Industry-Academia-Government Collaboration

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For practice application of nanomaterial, it need solution of synthesis problems. These nanomaterial problems were solved by new concept fabrication system. Metal oxide used as eco-metal source in new concept processing. Solid-liquid system will be high concentration, high yield and high throughput processing. Ultrasound and microwave reactor were enhanced chemical reaction and created novel chemical reaction. Realization of innovative nanomaterial fabrication were enabled joining environment, low cost and high throughput by combining these concepts. This commentary was explained nanomaterial problems and introduced the example of some metal nanoparticle related material processing by synergistic effects of solid-liquid system and ultrasound, microwave reactor, and promotion of industry-academia-government collaboration.

Keywords : nanomaterial, processing solution, industry-academia-government collaboration