## Details of Technology



Name of Technology	Synthesis of organic/inorganic nanocomposites and their application to polymers	Chemistry
Name/Post/Faculty	Hidetoshi Hirahara / Associate professor / Departmen Materials and Functional Engineering, Graduate School of E	
Key words	nanocomposite, inorganic layer compound, rubber, plastic, composite formation, XPS	

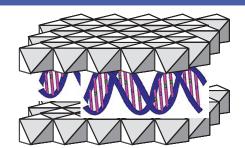
What kind of technology is this?



## Additive to rubber Capable to improve shelf stability

Study on the synthesis of organic/inorganic nanocomposites by intercalating multifunctional organic compounds into the gaps between layers of inorganic layer compounds and the composite formation between the synthesized nanocomposite materials and rubber or plastics

## Retaining of functional organic compounds by LDH



Vitamins, medicinal components, amino acids, peptides, sugars, nucleotides, DNA, antibacterial agent, ultraviolet absorber, rubber cross-linking agent

## What are its applications?

By compounding cross-linking agent/inorganic layer compound composite with rubber, the workability of rubber improves.

With this technology, the cross-linking property of rubber will improve, which leads to the improvement of its shelf stability and productivity.

Demand in rubber processing supplier is expected.

Related patents	
Related materials	

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