

Colorful TiO₂ Particle

Wide colored pigment without transition metals



Overview

Transition metal doping is one of the solution to colorize inorganic pigments. This method is adoptive to TiO₂ pigments, however, transition metal-doped pigments are not sufficient for cosmetic products as transition metals have ecotoxicity.

This invention realized wide variety of colored TiO₂ pigments without transition metal doping, such as RGB as shown right half of this paper.

This invention is expected to expand cosmetic product applications, or replace traditional organic and inorganic materials.

Related Works

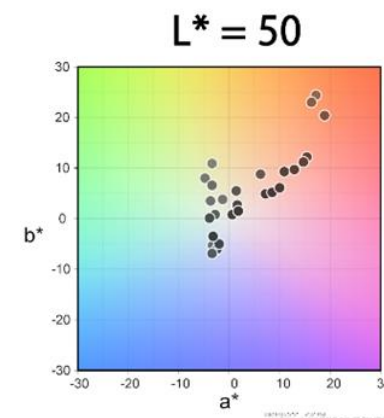
[1] Jingdi Cao, Yusuke Asakura, and Shu Yin, B/N Anions Co-doped Multi-crystalline TiO₂ and Its Photocatalytic Activity, PACRIM13 October 27 - November 1, 2019

[2] Jingdi Cao, Yusuke Asakura, Takuya Hasegawa, Shu Yin, Synthesis and Photochemical Performance Evaluation of Colorful Three Phases, 公益社団法人日本セラミックス協会 2020年年会, 2020

IP Data

IP No. : JP Application No. 2020-130912
 Inventor : YIN Shu et. al.
 Admin No. : T19-849

Wide variety of color by process control



Product Application

- Cosmetic products
- Inorganic pigments required atoxic

Contact



Tohoku Techno Arch Co., Ltd.

TEL +81 222 3049

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