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ACS Applied Materials & Interfaces

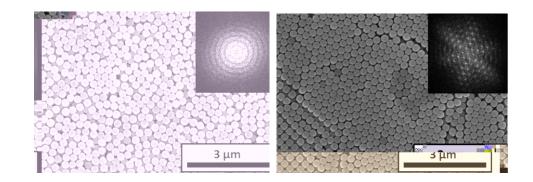
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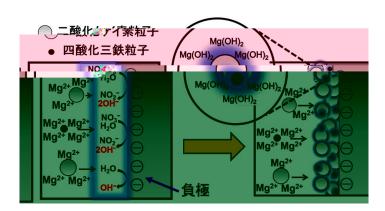
JP19H04699, J P20H02439

Robust Structurally Colored Coatings Composed of Colloidal Arrays Prepared by the Cathodic Electrophoretic Deposition Method with Metal Cation Additives





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 $Mg(NO_3)_2$ 

> OH NO<sub>3</sub> OH

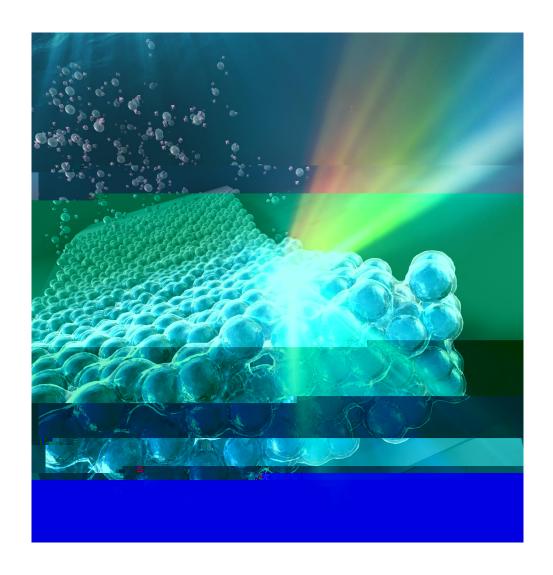
Mg <sup>2+</sup>

 ${\rm Mg}^{\, {\rm 2^+}}$  OH  ${\rm Mg}({\rm OH})_{\, \, {\rm 2}}$ 



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b



Katagiri, K.; Tanaka, Y.; Uemura, K.; Inumaru, K.; Seki, T.; Takeoka, Y. Structural Color Coating Films Composed of an Amorphous Array of Colloidal Particles via Electrophoretic Deposition. *NPG Asia Mater.* **2017**, *9*, e355.

Katagiri, K.; Uemura, K.; Uesugi, R.; Inumaru, K.; Seki, T.; Takeoka, Y. Structurally Colored Coating Films with Tunable Iridescence Fabricated via Cathodic Electrophoretic Deposition of Silica Particles. *RSC Adv.* **2018**, 8, 10776 10784.

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