JMTC

NEWS RELEASE

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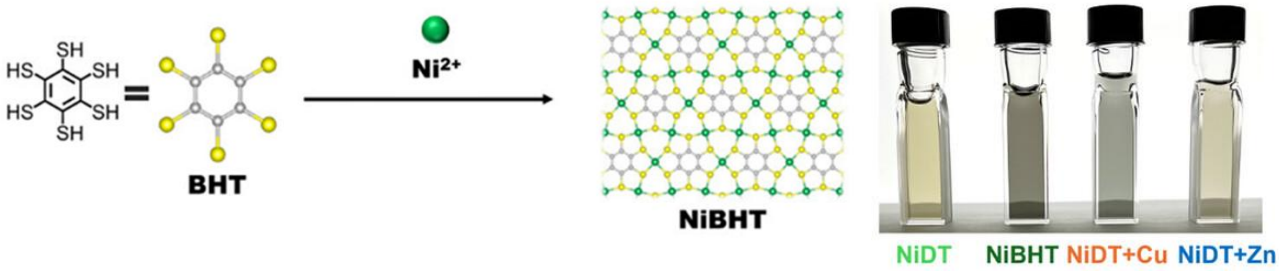
Japan Material Technologies Corporation

License Agreement Concluded with Tokyo University of Science Regarding Coordination Nanosheets (CONASH)

Japan Material Technologies Corporation (Head Office: Chuo-ku, Tokyo; President: Koyu Urata; "JMTC") has concluded a license agreement ("the Agreement") with Tokyo University of Science regarding coordination nanosheets (CONASH; "the Material").

The Material is a two-dimensional organic–inorganic hybrid polymer developed by Professor Hiroshi Nishihara and his colleagues at the Research Institute for Science and Technology, Tokyo University of Science, and was first reported in 2013. It consists of metal ions and organic ligands, and by varying the combinations of metal species and ligands, it is possible to exhibit various functions such as electronic conductivity, magnetism and catalytic activity. In addition, the Material can be formulated into a colloidal solution and is suitable for thin-film formation with coating or printing. It is expected to be applied in a wide range of fields as a material for devices in the future, including sensor materials, catalyst materials and electrode materials. JMTC will utilize the exclusive ordinary license obtained through this Agreement to promote early commercialization of the Material by supplying it to device manufacturers and other users.

<Structure of the Material and Appearance of Its Colloidal Solution*>



* M. Ito, N. Fukui, K. Takada, et al. "Rationally Engineered Heterometallic Metalladithiolene Coordination Nanosheets with Defined Atomic Arrangements." Small 21, no. 38 (2025): 2503227.

JMTC has been expanding its lineup of electronics materials with excellent electrical properties, including two-dimensional layered compound MXenes and the conductive polymer PANI. With the advancement of electronics products in recent years, the demands for high conductivity and electromagnetic wave shielding have rapidly become sophisticated and diverse. JMTC will continue to address these needs by commercializing innovative material technologies.

JMTC has been working to commercialize innovative technologies developed by Japanese companies, universities and research institutes through license-outs and carve-outs. JMTC will continue to contribute to innovation in Japan's materials industry by promoting the commercial application of unused innovative material technologies.

Contact:Inquiry form on our website: https://www.jmtc.co.jp/en/contact/