



**The Japanese Society of Microscopy  
Award for the Scientific Paper  
(PHYSICAL SCIENCES) in 2020**

presented to

**Yuta Yamamoto, Mizuki Hattori,  
Junya Ohyama, Atsushi Satsuma,  
Nobuo Tanaka, Shunsuke Muto**

for the paper entitled

" Twinned/untwinned catalytic gold nanoparticles  
identified by applying a convolutional neural network  
to their Hough transformed Z-contrast images "

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**Yuichi Ikuhara**

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