

Supporting Information

Oxidation of element 102, nobelium, with flow electrolytic column chromatography on an atom-at-a-time scale

Atsushi Toyoshima,^{*,†} Yoshitaka Kasamatsu,[†] Kazuaki Tsukada,[†] Masato Asai,[†] Yoshihiro Kitatsuji,[†]
Yasuo Ishii,[†] Hayato Toume,[†] Ichiro Nishinaka,[†] Hiromitsu Haba,[‡] Kazuhiro Ooe,[§] Wataru Sato,[§]
Atsushi Shinohara,[§] Kazuhiko Akiyama,[‡] and Yuichiro Nagame[†]

*Japan Atomic Energy Agency, Tokai, Ibaraki 319-1195, Japan, Nishina Center for Accelerator Based
Science, RIKEN, Wako, Saitama 351-0198, Japan, Graduate School of Science, Osaka University,
Toyonaka, Osaka 560-0043, Japan, and Graduate School of Science and Engineering, Tokyo
Metropolitan University, Hachioji, Tokyo 192-0397, Japan*

Supporting figures

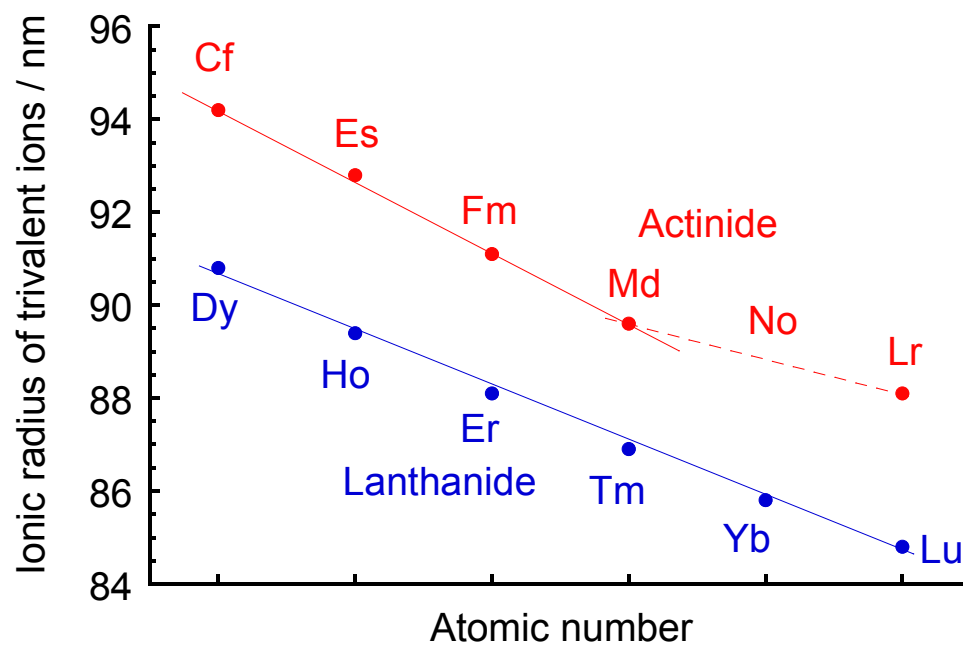


Figure S1. Ionic radii of the trivalent state of heavy actinides and lanthanides.

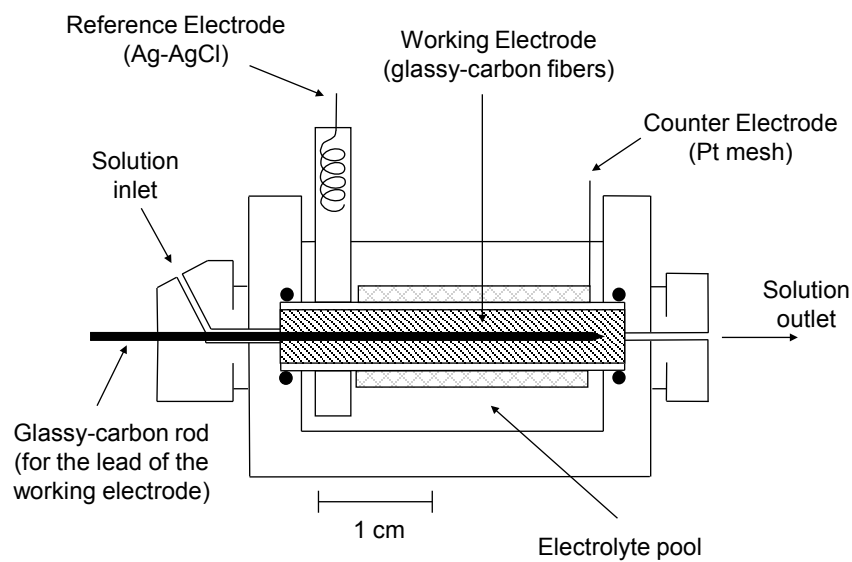


Figure S2. Cross sectional view of the electrochemical apparatus.

Complete reference 11.

Haba, H.; Tsukada, K.; Asai, M.; Toyoshima, A.; Akiyama, K.; Nishinaka, I.; Hirata, M.; Yaita, T.; Ichikawa, S.; Nagame, Y.; Yasuda, K.; Miyamoto, Y.; Kaneko, T.; Goto, S.; Ono, S.; Hirai, T.; Kudo, H.; Shigekawa, M.; Shinohara, A.; Oura, Y.; Nakahara, H.; Sueki, K.; Kikunaga, H.; Kinoshita, N.; Tsuruga, N.; Yokoyama, A.; Sakama, M.; Enomoto, S.; Schädel, M.; Brühle, W.; Kratz, J. V. *J. Am. Chem. Soc.* **2004**, *126*, 5219.