

## Supporting information

### Laser-induced Growth of $\text{YVO}_4:\text{Eu}^{3+}$ Nanoparticle from Sequential Flowing Aqueous Suspension

Haohao Wang <sup>\*a</sup>, Marcus Lau <sup>b</sup>, Takumi Sannomiya <sup>c</sup>, Bilal Gökce <sup>b</sup>, Stephan Barcikowski <sup>b</sup>, Osamu Odawara <sup>c</sup>,  
Hiroyuki Wada <sup>c</sup>

<sup>a</sup> *Interdisciplinary Graduate School of Science and Engineering, Tokyo Institute of Technology, 4259 Nagatsuta-cho, Midori-ku, Yokohama 226-8502 Japan.*

<sup>b</sup> *Institute of Technical Chemistry I, and Center for Nanointegration Duisburg-Essen (CENIDE), University of Duisburg-Essen, 45141 Essen, Germany.*

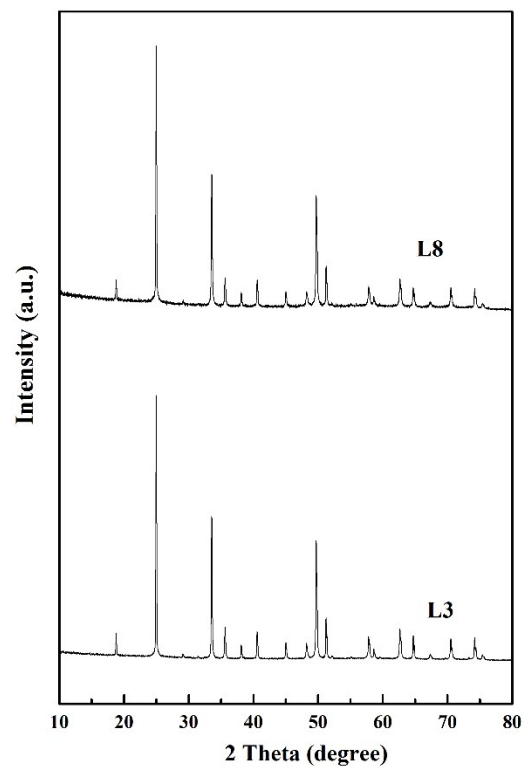
<sup>c</sup> *School of Materials and Chemical Technology, Tokyo Institute of Technology, 4259 Nagatsuta-cho, Midori-ku, Yokohama 226-8502 Japan.*

\*Correspondence:

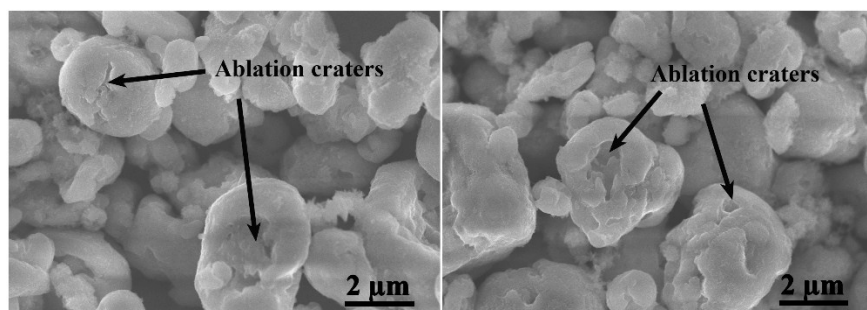
Haohao Wang

E-mail address: [haohao.w.aa@m.titech.ac.jp](mailto:haohao.w.aa@m.titech.ac.jp)

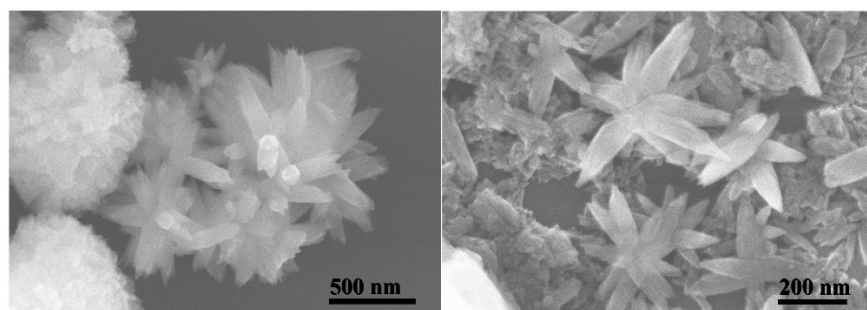
Tel/Fax: +81-45-924-5567



**Figure S1.** XRD patterns of  $\text{YVO}_4:\text{Eu}^{3+}$  powders obtained after three and eight cycles of laser irradiation.



**Figure S2.** The ablation craters after laser irradiation captured in sample L12.



**Figure S3.** Flower-like nanoparticles after laser irradiation in sample L12.