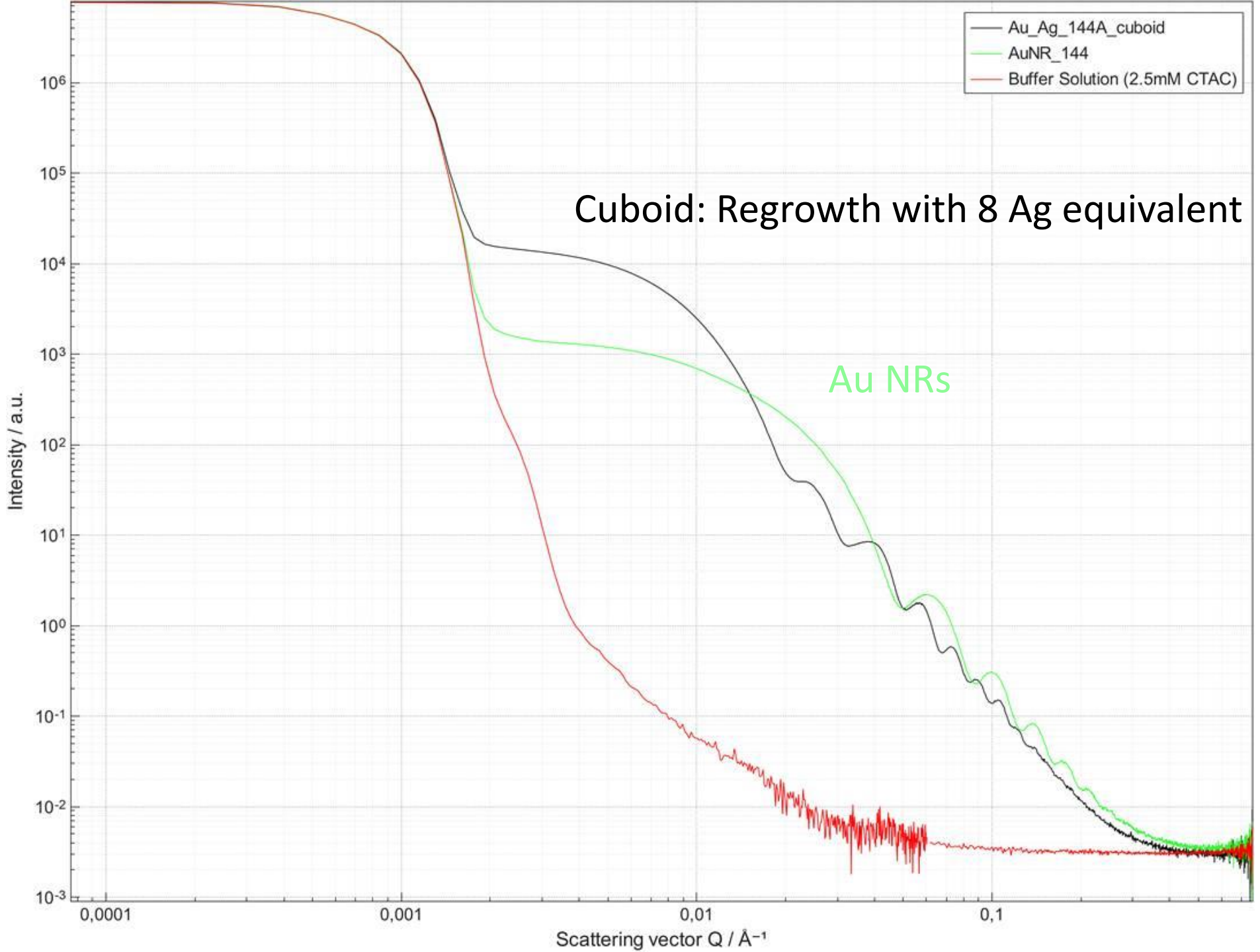

Au_Ag_144A_cuboid
AuNR_144
Buffer Solution (2.5mM CTAC)
Cuboid: Regrowth with 8 Ag equivalent
Au NRs
Intensity / a.u.
Scattering vector Q / Å⁻¹
10⁶
10⁵
10⁴
10³
10²
10¹
10⁰
10⁻¹
10⁻²
10⁻³
0,0001
0,001
0,01
0,1

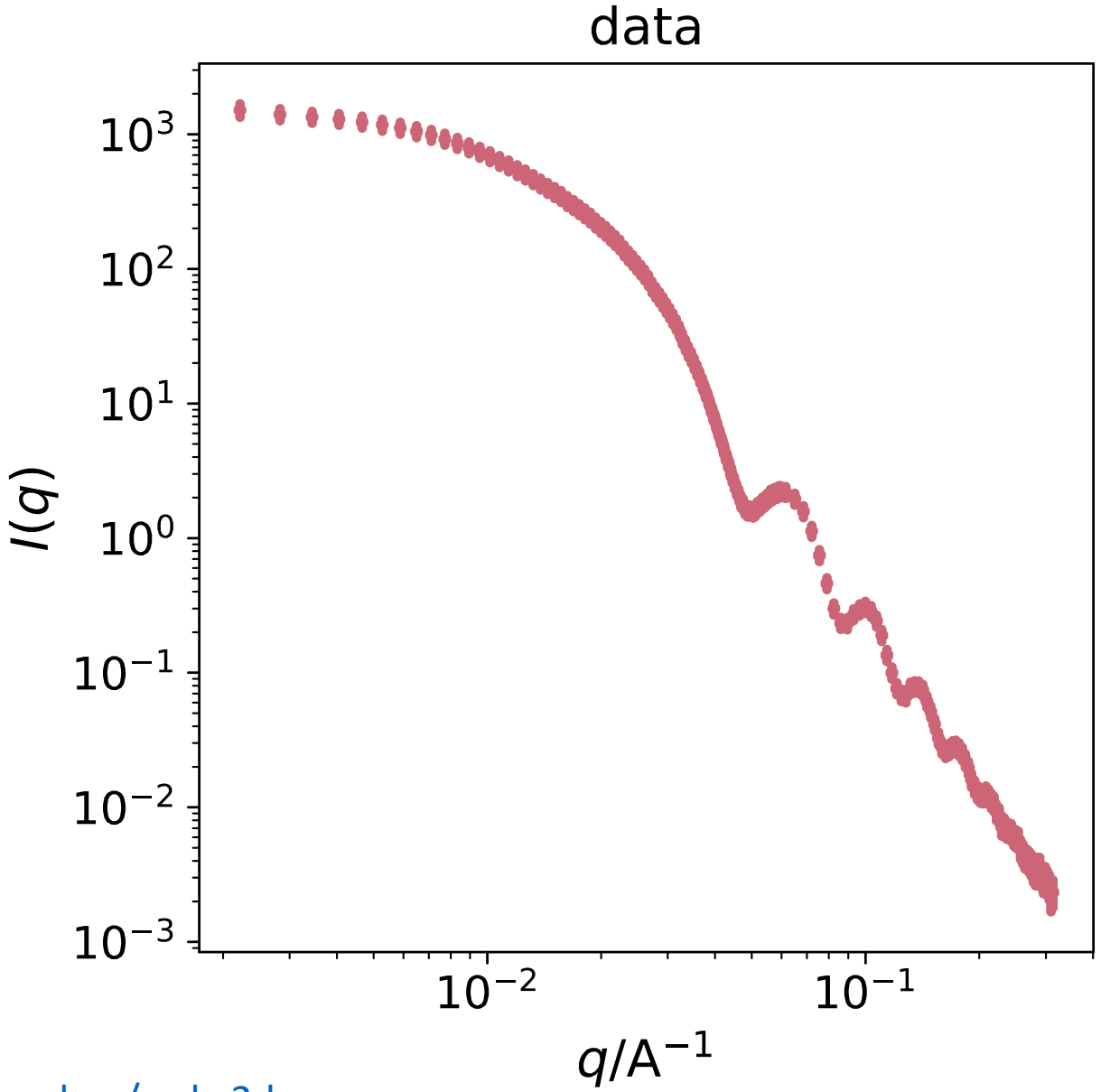
Au NR 144 data after buffer subtraction

Buffer subtraction

Cut to get:
qmin close to 0.002 A-1
qmax close to 0.3 A-1

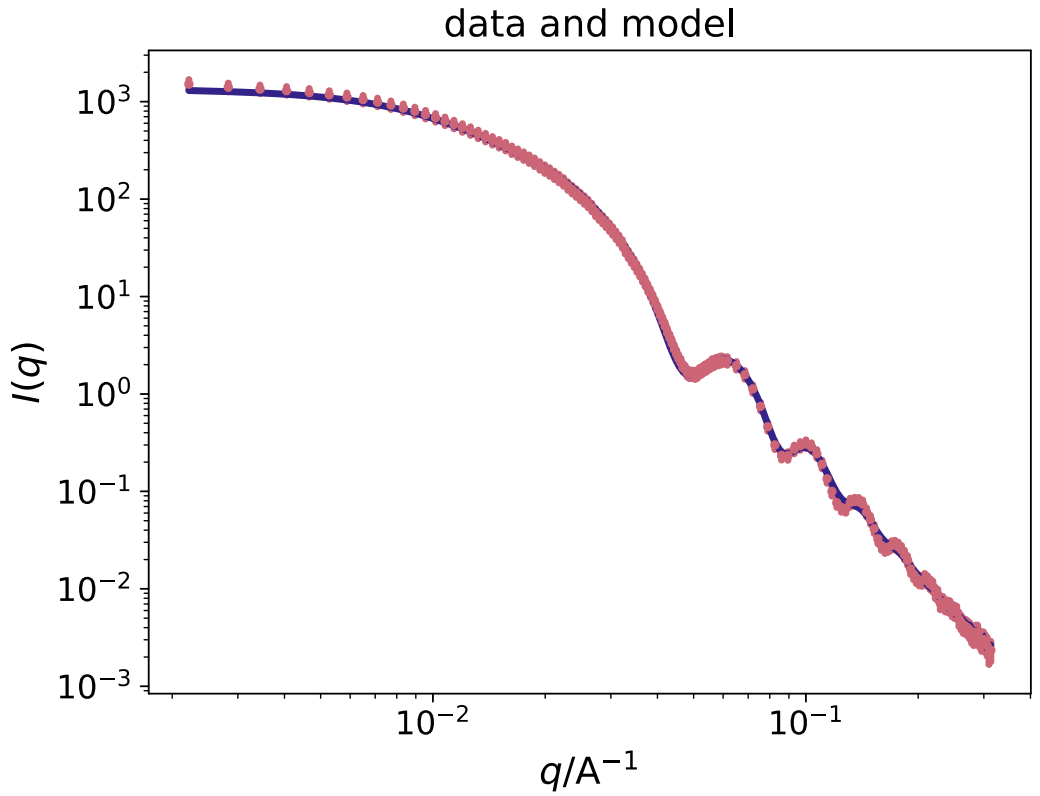
Slicing step: 4

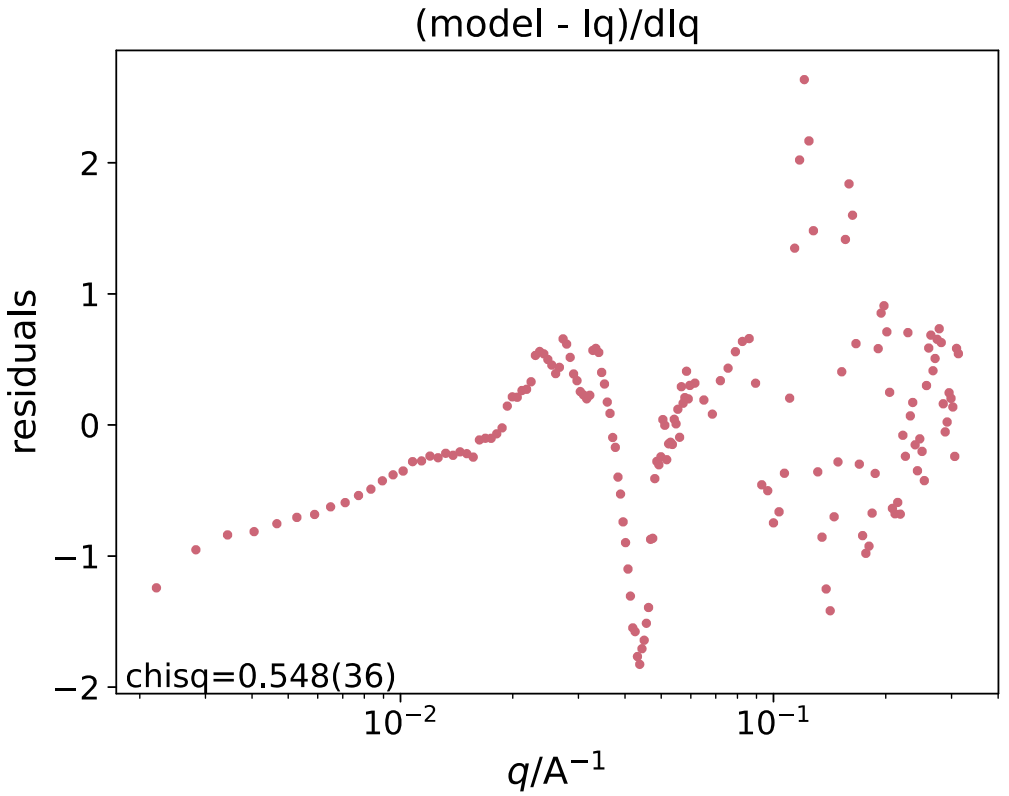
Errors bars changed to
10% of intensity



https://github.com/marimperorclerc/rods-2d

Au NR 144 fit with new model nanoprisms.py





n=8 (octogonal cross-section)

R_ave=8.1 nm
Polydispersity on R: 0.08

L=48 nm
Polydispersity on L: 0.06

```
      L ....|.....     483.04 in (400,600)
   L_pd ..|.......  0.0584778 in (0.02,0.2)
  R_ave ......|...    81.1095 in (50,100)
R_ave_pd .......|..  0.0838476 in (0.02,0.1)
  scale .|........ 9.51542e-16 in (5e-16,5e-15)
```

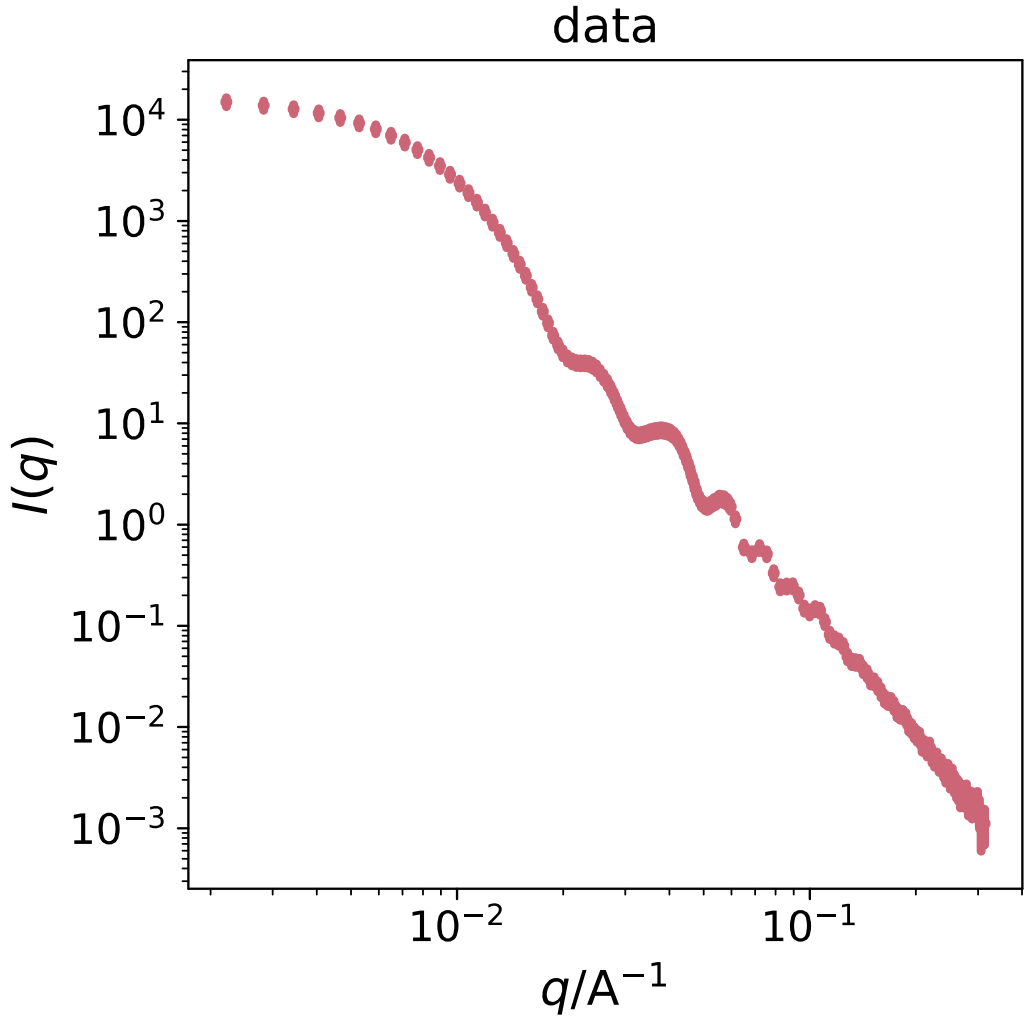
AuAg cuboids 144A data after buffer subtraction

Buffer subtraction

Cut to get:
qmin close to 0.002 A-1
qmax close to 0.3 A-1

Slicing step: 4

Errors bars changed to
10% of intensity



Regrowth adding Ag to 144 Au NRs
with 8 Ag equivalent

https://github.com/marimperorclerc/rods-2d

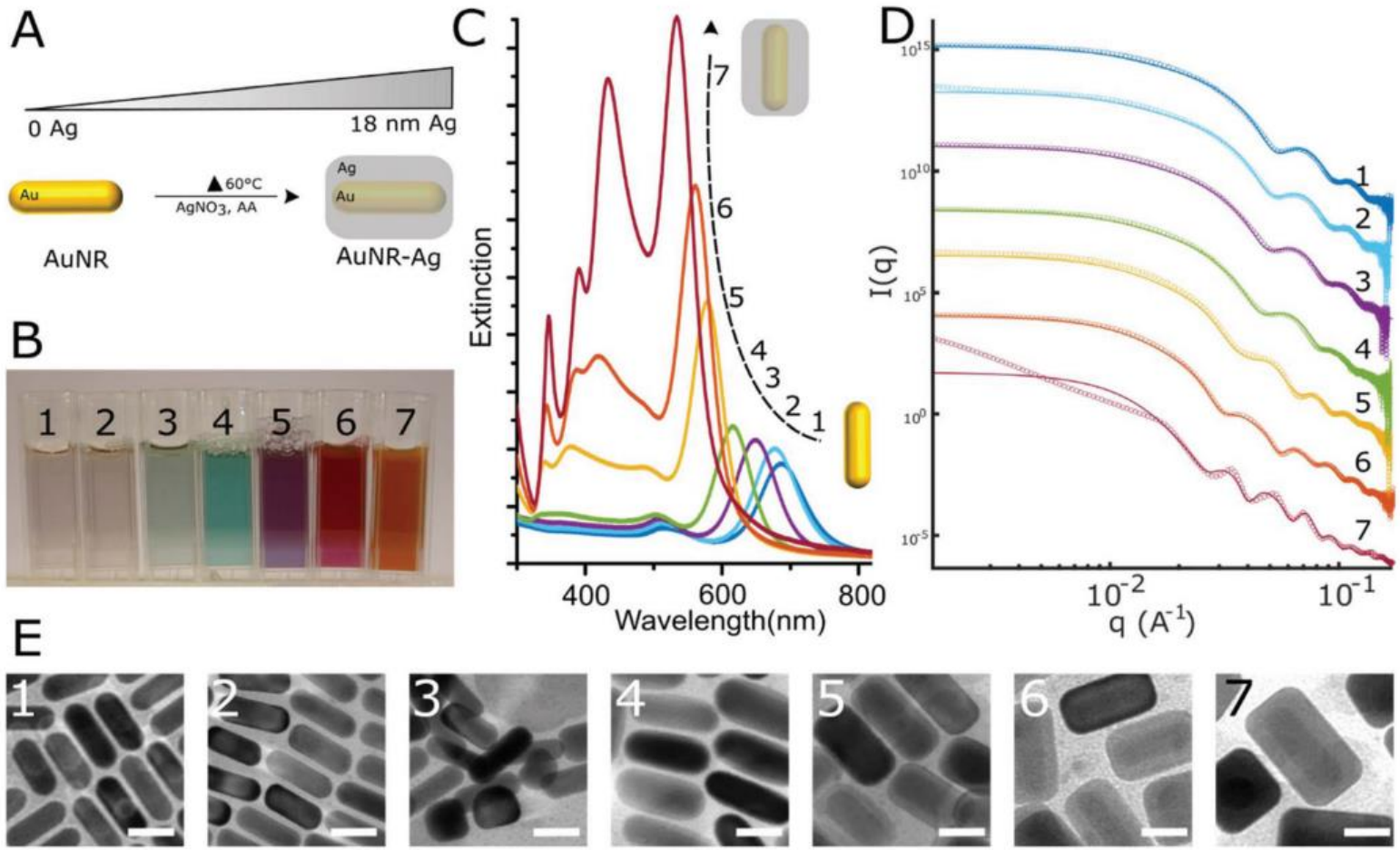


Fig. 1 Colloidal design of AuNR-Ag. (A) Scheme depicting the preparation of AuNR-Ag. (B) Photograph of the AuNR-Ag suspensions used in this work, labelled from **1** to **7**. (C) Corresponding UV/Vis spectra and (D) SAXS spectra of diluted suspension (open circles) with fits (solid lines). The curves are shifted vertically for clarity. (E) Transmission electron microscopy images of the same AuNR-Ag. Scale bar on all images is 20 nm.

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