Study on the energy relaxation dynamics of Ag, Cu nanoparticles

embedded in soda-lime silicate glass fabricated by ion exchange

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Conclusions

- The linear absorption spectra indicated that Ag, Cu nanoparticles were formed individually.
- •The dynamic process includes only one fast decay component. The fast decay process about several hundred femtoseconds is regarded as hot electrons thermal equilibrium and transferring energy to lattices by interaction with phonons.