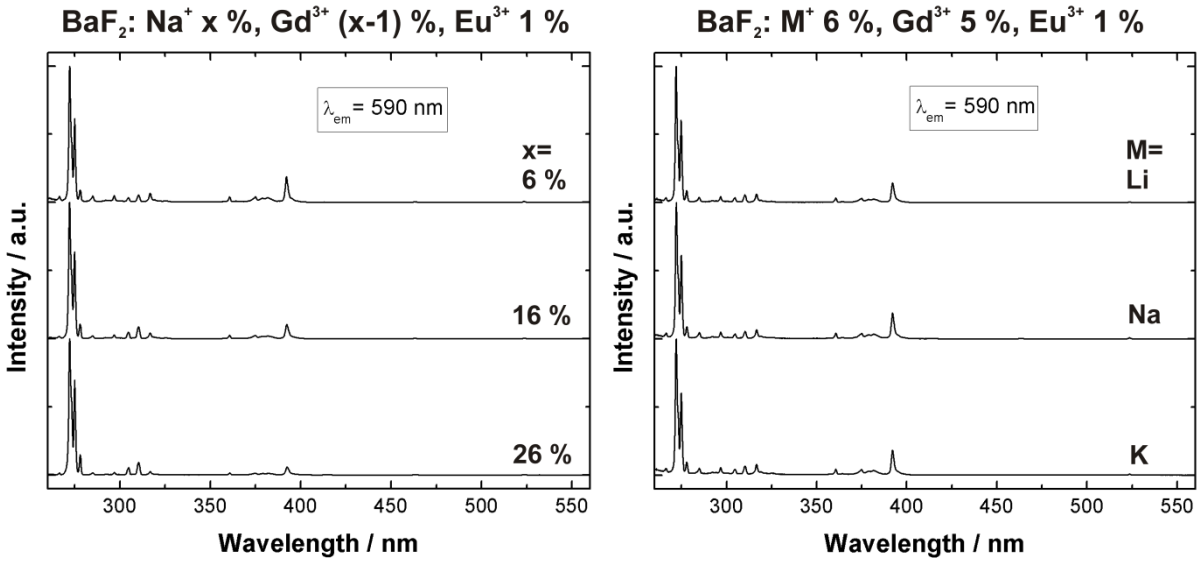
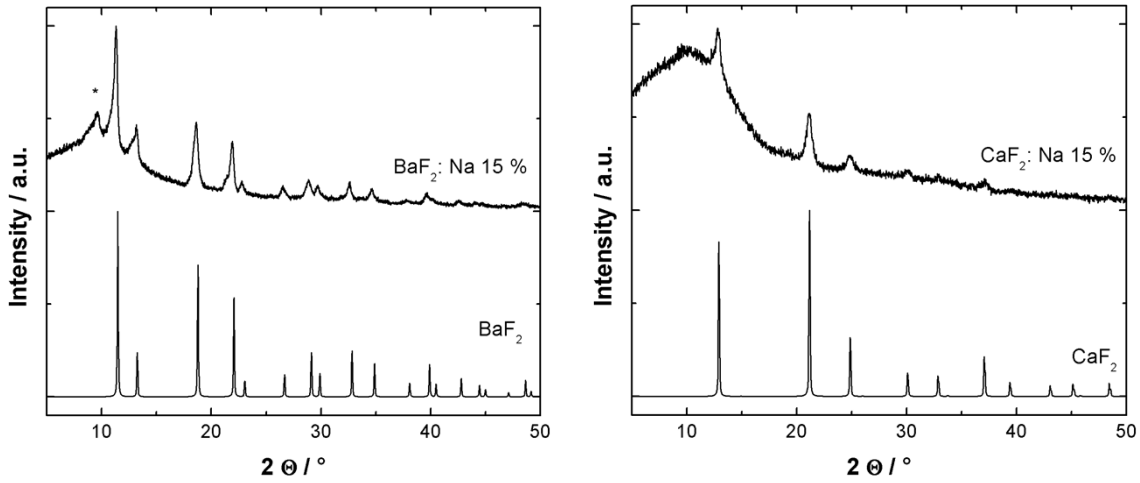
Electronic Supplementary Material (ESI) for Journal of Materials Chemistry C.

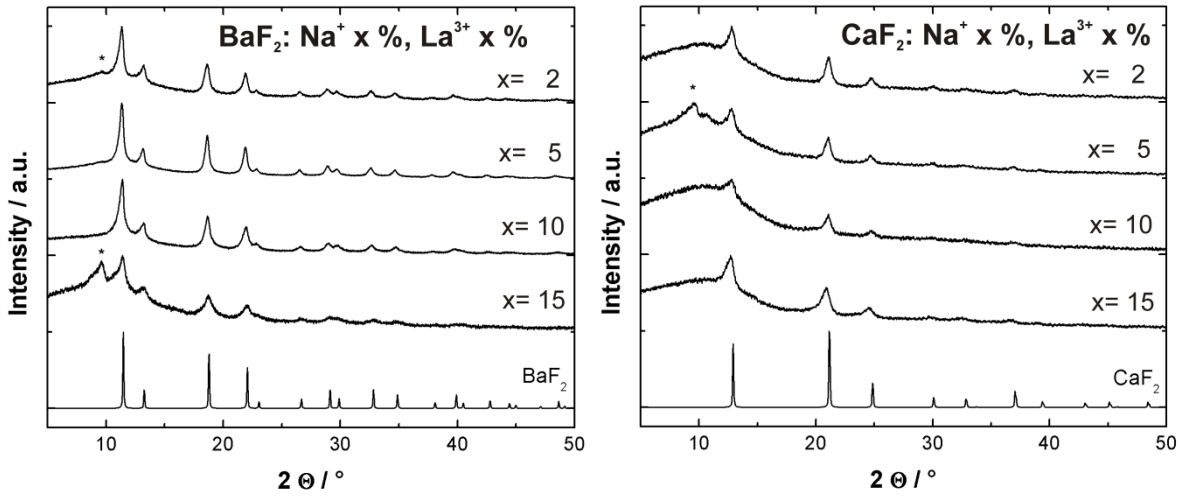
Supporting Information



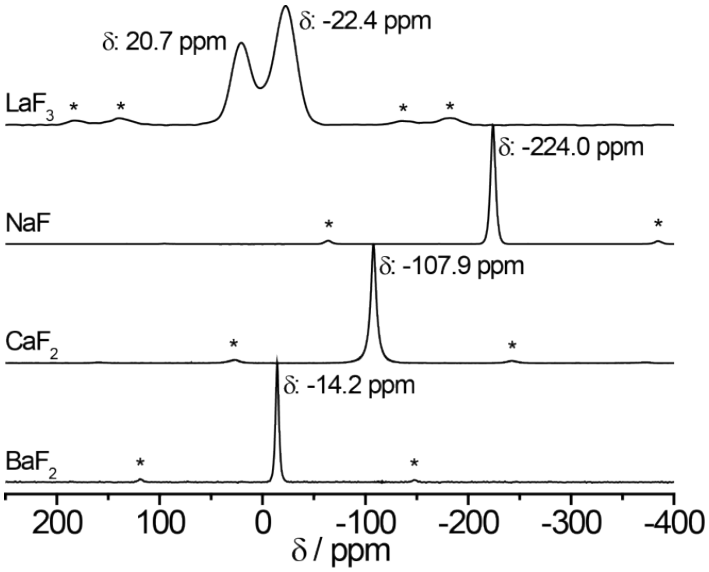
SI-Figure 1. Room temperature excitation spectra (λ_{em}= 590 nm) of BaF_2: M^+, Gd^{3+}, Eu^{3+} particles.



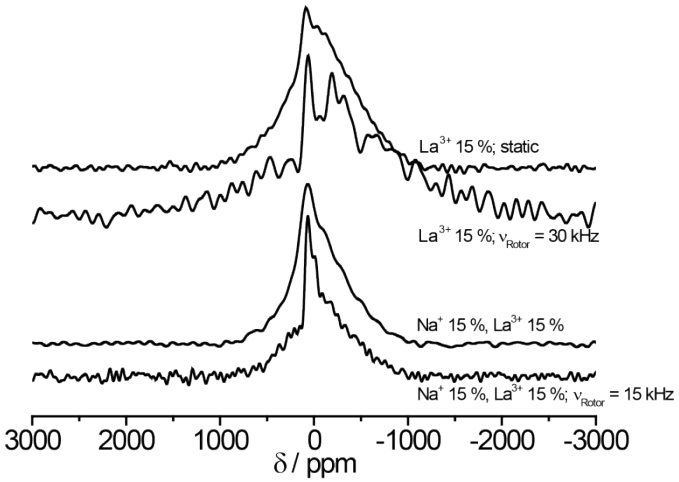
SI-Figure 2. Powder X-ray diffraction patterns of BaF_2: Na^+ 15 % and CaF_2: Na^+ 15 % particles. The reflection marked with an asterisk originates from the instrumental setup.



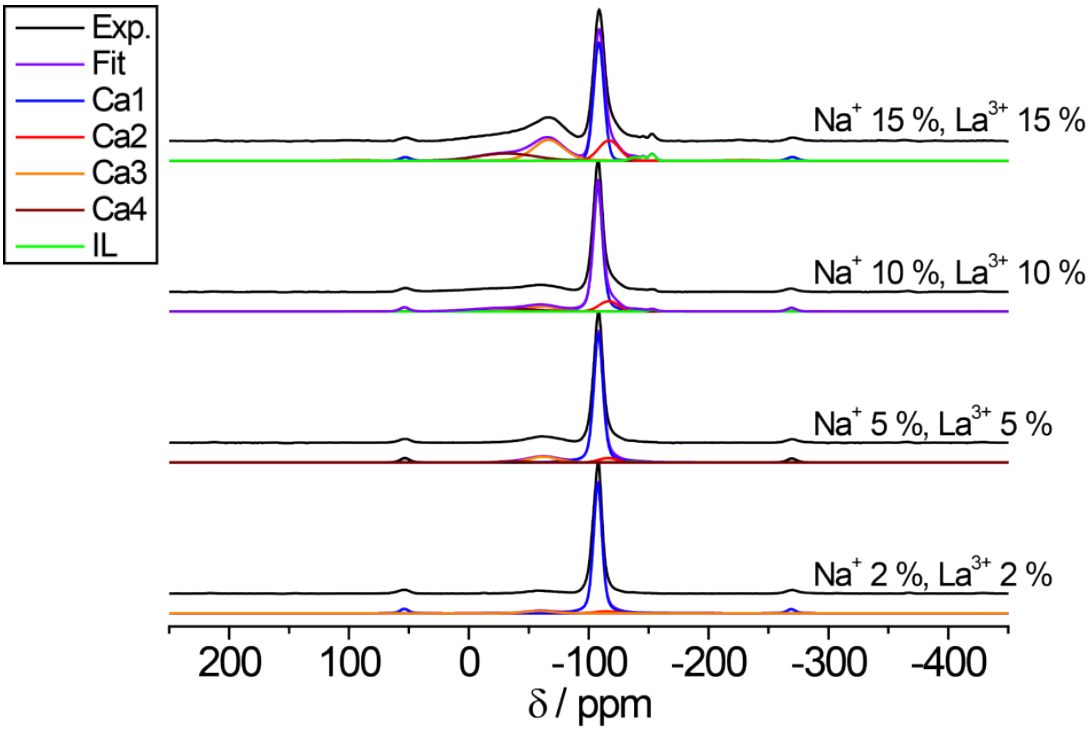
SI-Figure 3. Powder X-ray diffraction patterns of BaF_2: Na^+, La^{3+} and CaF_2: Na^+, La^{3+} particles with various dopant concentrations. The reflection marked with an asterisk originates from the instrumental setup.



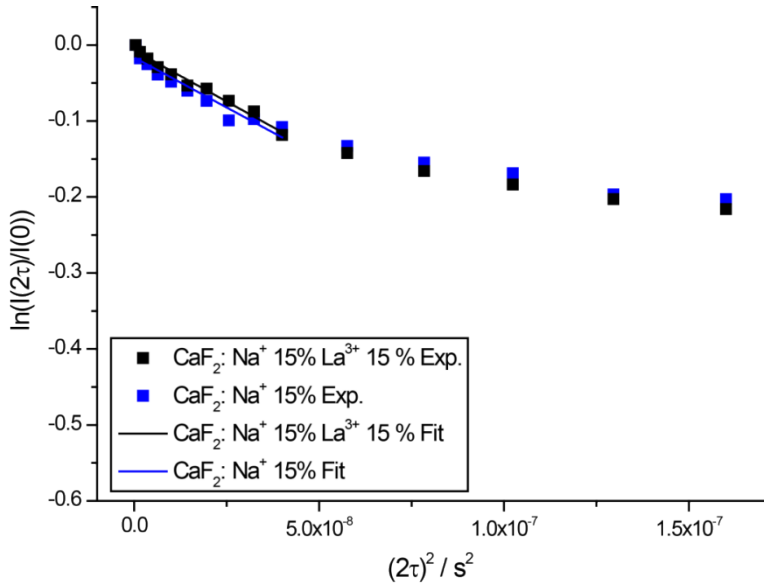
SI-Figure 5. ^{19}F-MAS-NMR-spectra of the crystalline reference compounds BaF_2, CaF_2, NaF and LaF_3.



SI-Figure 6. Comparison of the ^{139}La-NMR-spectra recorded under static and MAS conditions, respectively for the CaF_2: La 15%, Na 15% sample



SI-Figure 7. ^{19}F-MAS-NMR-spectra recorded in dependence of the degree of codoping and their respective deconvolution.



SI-Figure 8. Comparison of the 23Na spin echo decays for the sodium rich singly and co-doped samples.