

KRI specialists will contribute to complete analysis and evaluation of Material and device!

In the material & device development,
you have any problem that make trouble?
KRI will propose and solve the problems in a unique way.

"Can we actualize the structure which we hope for?"
"If improvement in performance is the limit, What should I do? "
" Durability of the material is enough?
Why the deterioration progresses? "

Procedures for Consideration

① Assumption

Material structure & device problems will be clearly through discussion with customers and the information that KRI searches. Moreover, Simulation is possible to be applied.

② Select the analysis method

To be the high accuracy, the problem is analyzed multilaterally. We will, as need, use the high-performance external equipment.

Reaction process: NMR, IR/Raman, GC/MS, Particle size distribution
Shape & Composition: FE-SEM/EDX, TEM
Surface & Depth profile: XPS, AES, AFM
etc.

③ Experimental Design

- Selection of the appropriate reference samples
- Preparation of degradation samples (accelerated deterioration)

④ Analysis and Discussion

- The structural analysis is performed and the correlation between the characteristics and structure is estimated.

⑤ Suggestions for improving characteristics

We will propose improvement approach for the ideal structure.