

Suggested Concept Papers from KIER PIs to collaborate with potential partners

#	Department	KIER PI		Proposed Project Title
		Name	E-mail	
1	Separation and Conversion Materials Laboratory	Boyun Jang	byjang@kier.re.kr	New wafering technology with electrical discharge for photovoltaics
2	Separation and Conversion Materials Laboratory	Younghyun Cho	yhcho@kier.re.kr	Nanostructured Organic Electrodes for Electrochemical Energy Storage Devices
3	System Convergence Laboratory	Heesang Ko	heesangko@kier.re.kr	Development of EV pattern analysis and operation algorithm to cope with the new era of electric vehicle
4	Separation and Conversion Materials Laboratory	Chung-Yul Yoo	cyoo@kier.re.kr	Model electrode study for electrochemical devices by combining theoretical and experimental insights
5	Separation and Conversion Materials Laboratory	Sang Hyun Park	parksh@kier.re.kr	SiC/C 2-in-1 Insulation Plates for Thermoelectric Module Efficiency Improvement
6	Photovoltaic Laboratory	Min Gu Kang	mgkang@kier.re.kr	Development of a carrier selective passivated contact for high efficiency, large area and commercial ready n-type bifacial Si solar cells
7	Clean Fuel Laboratory	JUNG IL YANG	yangji@kier.re.kr	Upgrading Biogas via Electric-Field Assisted Catalytic Reactor
8	Energy Materials Laboratory	Han, Seong Ok	sohan@kier.re.kr	Functionalised Biomass Materials for Advanced Energy Conversion and Storage Applications
9	Fuel Cell Laboratory	Rak-Hyun Song	rhsong@kier.re.kr	Design and analysis of an optimal solid oxide fuel cell stack structure on anode for internal reforming in a flat tubular supported cell
10	Thermal Energy System Laboratory	Dong, Sangkeun	skdong@kier.re.kr	Smart Control Technology with Predictive Sensor by data mining
11	Hydrogen and Fuel Cell Center for Industry, Academy, and Laboratories	Chiyoung Jung	cyjung@kier.re.kr	Associated development of high permeable PEMFC electrode with ultralow-Pt loading
12	Clean Fuel Laboratory	Jiho Yoo	jyoo@kier.re.kr	Solar-Induced Heating to Catalytic Membrane Systems for Water Purification