CURRICULUM VITAE

A. General Information

1	Name	Chairul Hudaya, Ph.D	
2	Place and Birth Date	Bandar Harapan (Indonesia), 02 May 1984	
		No. 47 RT 004 RW 002 Kelurahan Sawangan	
3	Address (home)	Baru, Kecamatan Sawangan, Depok, Jawa Barat	
		INDONESIA	
4	Affiliation	Department of Electrical Engineering, Faculty of	
4		Engineering, Universitas Indonesia	
5	Title	Assistant Professor	
6	E-mail	c.hudaya@eng.ui.ac.id	
7	Phone Number	+6281295166665	



B. Awards

Month/Year	Award Title	Institution	
Jun. 2017	Honorary Ambassador of University of Science and Technology (UST) Korea in Indonesia	UST South Korea	
May 2017	First Prize of Outstanding Lecturer	Universitas Indonesia	
Apr. 2017	First Prize Pertamina Idegila Energy Competition	PT. Pertamina (Persero)	
Nov. 2016	Honorary Mention of Insinyur (Ir.) and Insinyur Profesional Madya (IPM)	Indonesia Engineer Association (PII)	
Jul. 2016	Excellent Achievement Prize Top 100 as co-researcher of Ph.D Supervisor Prof. Joong Kee Lee	Ministry of Science, ICT and Future Planning, South Korea	
Feb. 2016	Excellent Research Award	Office of Daejeon City Mayor, South Korea	
Feb. 2016	Excellent Award	Korea Institute of Science and Technology (KIST)	
Aug. 2015	Excellent Award in Research Paper	University of Science and Technology (UST – Korea)	
Aug. 2014	Overseas Training Program at KIT, Germany	University of Science and Technology	
2011	Outstanding paper	International Conference of Advanced Electromaterials (ICAE)	
Nov. 2011	Excellent Poster Award	Korea Institute of Science and Technology (KIST)	
2011	Best Paper	Conference of Indonesian Student in Korea (CISAK).	
2011	IRDA KIST Scholarship	Korea Institute of Science and Technology (KIST)	
2010	The Most Favourite Lecturer at Department of Electrical Engineering	Electrical Engineering Student Association	
2009	2 nd Prize of National Essay Competition on Electricity Subsidy	PT. PLN (Persero)	

C. Research Projects

			Funding		
No.	Years	Research Title	Source	Amount (IDR)	
1	2017	ZnO synthesis and characterization for lithium-ion battery	Directorate Research and Community Engagement UI	87.5 Million	
2	2017	Development of DC House System Implemented at Sekolah Master Indonesia, Depok City	Directorate Research and Community Engagement UI and PT. Wijaya Karya (Persero)	300 Million	
3	2017	World Class Professor Program	Ministry of Research, Technology and Higher Education	3.2 Billion	
4	2017- 2021	SMART CITY Project	US Agency for International Development (USAID) – Sustainable Higher Education Research Alliance (SHERA)	~ 40 Billion	
5	2017	Development of ZnO nanostructured anode materials for hybrid supercapacitor	KIST	200 Million	
6	2010	Early Warning System in Electrical Power Distribution System	Hibah Riset Awal - DRPM UI	40 Million	
7	2010	Solar Power Technology Reforming the Small Poultry Entrepreneurs in Rural Area in Indonesia	The Ateneo School of Government, the Manila University, supported by International Research and Development of Canada	200 Million	
Rese	arch Project I	nvolvement During Ph.D Degree at KIST (S		e)	
1	2015.09.30- 2016.09.29	The development of rechargeable lithium battery electrode materials, self-control and interface characteristics control technology	KIST	3.25 Billion	
2	2015.05.01- 2016.04.30	Development of functional smart film (subtitle: transparent conductive heat generation)	KIST	1.1 Billion	
3	2015.05.01- 2016.04.30	Establishing technical exchange platform for joint research on rechargeable lithium battery sector	KIST	165 Million	
4	2015.01.01- 2015.12.31	Power source of high quality energy storage technologies for a city	KIST	19.4 Billion	
5	2015.01.01- 2015.12.31	Strengthening global competitiveness and network technology of green cities	KIST	5.1 Billion	
6	2014.09.30- 2015.09.29	The development of rechargeable lithium battery electrode materials, self-control and interface characteristics control technology	KIST	3.25 Billion	
7	2014.05.01- 2015.04.30	Establishing technical exchange platform for collaboration in the lithium secondary battery sector	KIST	165 Million	
8	2014.01.01- 2014.12.31	High quality energy storage technologies for city power sources	KIST	20.2 Billion	
9	2014.01.01- 2014.12.31	Smart charging technology for energy storage	KIST	4.4 Billion	
10	2014.01.01- 2014.12.31	Development of 3D rechargeable battery electrode materials	KIST	1.1 Billion	
11	2013.09.30- 2014.09.29	Control electrode material for lithium secondary batteries through self-relaxant structure and function interface control technology)	KIST	3.52 Billion	

	Years		Funding		
No.		Research Title	Source	Amount (IDR)	
12	2013.01.01- 2013.12.31	High quality energy storage technologies for city power sources	KIST	17.34 Billion	
13	2013.01.01- 2013.12.31	Smart charging technology for energy storage	KIST	4.95 Billion	
14	2013.01.01- 2013.12.31	Development of 3D rechargeable battery electrode materials	KIST	1.1 Billion	
15	2012.09.30- 2013.09.29	The rechargeable lithium battery electrode materials, self-control and interface characteristics control technology	KIST	3.52 Billion	
16	2012.01.01- 2012.12.31	Development of novel high-power capacitor cells for urban transportation	KIST	17.44 Billion	
17	2012.02.01- 2012.12.31	Smart charging technology for energy storage	KIST	4.95 Billion	
18	2012.02.01- 2012.12.31	Strengtheing global competitiveness and network technology of green cities	KIST	5.17 Billion	
19	2011.09.30- 2012.09.29	The rechargeable lithium battery electrode materials, self-control and interface characteristics control technology	KIST	3.19 Billion	
20	2011.01.01- 2011.12.31	Development of high-power lithium-ion capacitor	KIST	11.44 Billion	
21	2010.11.01- 2011.12.31	Development of low-carbon green home energy-saving technology	KIST	4.02 Billion	
22	2010.09.30- 2011.09.29	The rechargeable lithium battery electrode materials, self-control and interface characteristics control technology	KIST	3.19 Billion	
23	2011.01.01- 2011.08.31	2011 National Research Division Research Projects	KIST	16.5 Billion	

D. Recent Publications

No	Authors	Title	Journal	Year (IF)
1	Martin Halim, Guicheng Liu, Ryanda Enggar Anugrah Ardhi, Chairul Hudaya , Ongky Wijaya, Sang-Hyup Lee, A-Young Kim, Joong Kee Lee	Pseudocapacitive characteristics of low- carbon silicon oxycarbide for lithium- ion capacitors	ACS Applied Materials & Interfaces	2017 (7.504)
2	Amalia Sholehah, Akhmad Herman Yuwono, Nofrijon Sofyan, Chairul Hudaya , Muhammad Ikhlasul Amal	Effect of Post-Hydrothermal Treatments on The Physical Properties of ZnO Layer Derived from Chemical Bath Deposition	International Journal of Technology	2017
3	Tri Arini, Akhmad Herman Yuwono, Latifa Hanum Lalasari, Nofrijon Sofyan, Ghiska Ramahdita, F Firdiyono, Achmad Subhan, Chairul Hudaya The Influence of Deposition Time and Substrate Temperature during the Spray Pyrolysis Process on the Electrical Resistivity and Optical Transmittance of 2 wt.% Fluorine-Doped Tin Oxide Conducting Glass		International Journal of Technology	2016
4	Bup Ju Jeon, Chairul Hudaya , Joong Kee Lee	Pilot-scale electron cyclotron resonance- metal organic chemical vapor deposition	Journal of Vacuum Science &	2016 (2.333)

		system for the preparation of large-area fluorine-doped SnO ₂ thin films	Technology A 34 (3), 031501	
5	Martin Halim, Chairul Hudaya , A-Young Kim, Joong Kee Lee	Phenyl-Rich Silicone Oil as a Precursor for SiOC Anode Materials in Long-Cycle and High-Rate Lithium Ion Batteries	rsor Journal of	
6	A-Young Kim, Min Kyu Kim, Chairul Hudaya , Ji Hun Park, Dongjin Byun, Jong Choo Lim, Joong Kee Lee	Oxidation-resistant hybrid metal oxides/metal nanodots/silver nanowires for high performance flexible transparent heaters	Nanoscale, 2016,8, 3307-3313	2016 (7.394)
7	Chairul Hudaya, Martin Halim, Johannes Pröll, Heino Besser, Wonchang Choi, Wilhelm Pfleging, Hans Jürgen Seifert, Joong Kee Lee	A polymerized C_{60} coating enhancing interfacial stability at three-dimensional $LiCoO_2$ in high-potential regime	Journal of Power Sources 298, 1-7	2015 (6.217)
8	A-Young Kim, Jung Sub Kim, Chairul Hudaya, Dongdong Xiao, Dongjin Byun, Lin Gu, Xiao Wei, Yuan Yao, Richeng Yu, Joong Kee Lee	An elastic carbon layer on echeveria- inspired SnO_2 anode for long-cycle and high-rate lithium ion batteries;	Carbon 94, 539- 547	2015 (6.196)
9	Chairul Hudaya, Bongjo Kang, Hun-Gi Jung, Wonchang Choi, Bup Ju Jeon, Joong Kee Lee	Plasma-polymerized C_{60} as a functionalized coating layer on fluorine-doped tin oxides for anode materials of lithium-ion batteries	Carbon 81, 835- 838	2015 (6.16)
10	Chairul Hudaya , Bup Ju Jeon, Joong Kee Lee	High Thermal Performance of SnO2: F Thin Transparent Heaters with Scattered Metal Nanodots	ACS Applied Materials & Interfaces 7 (1), 57-61	2015 (6.723)
11	Chairul Hudaya, Ji Hun Park, Joong Kee Lee, Wonchang Choi	SnO ₂ -coated LiCoO ₂ cathode material for high-voltage applications in lithiumion batteries	Solid State Ionics 256, 89-92	2014 (2.112)
12	Ji Hun Park, Chairul Hudaya , A-Young Kim, Do Kyung Rhee, Seon Ju Yeo, Wonchang Choi, Pil J Yoo, Joong Kee Lee	Al–C hybrid nanoclustered anodes for lithium ion batteries with high electrical capacity and cyclic stability	Chemical Communications, 50 (222) 2837- 2840	2014 (6.834)
13	Ji Hun Park, Chairul Hudaya, A-Young Kim, Joong Kee Lee	Electrochemical characteristics of ZnO patterned column/SnO 2 films for anodic electrodes of lithium ion batteries	Thin Solid Films	2013
14	Chairul Hudaya, Ji Hun Park, Wonchang Choi, Joong Kee Lee	Characteristics of fluorine-doped tin oxide as a transparent heater on PET prepared by ECR-MOCVD	ECS Transactions, 53(4), 161-166	2013
15	Chairul Hudaya, Ji Hun Park, Joong Kee Lee	Effects of process parameters on sheet resistance uniformity of fluorine-doped tin oxide thin films	Nanoscale research letters, 7(1), 17	2012
16	Jihun Park, Chairul Hudaya , Joong Kee Lee	Comparison of Characteristics of Fluorine Doped Zinc and Gallium Tin Oxide Composite Thin Films Deposited on Stainless Steel 316 Bipolar Plate by Electron Cyclotron Resonance-Metal Organic Chemical Vapor Deposition for Proton Exchange Membrane Fuel Cells	Journal of nanoscience and nanotechnology, 11(9), 7999-8003	2011
17	Ji Hun Park, Chairul Hudaya , Bup Ju Jeon,	Characteristics of Fluorine-Doped Tin Oxide Film Coated on SUS 316 Bipolar Plates for PEMFCs	Transactions of the Korean hydrogen and new energy	2011

	Dong Jin Byun, Joong- Kee Lee		society, 22(3), 283- 291	
18	Chairul Gagarin Irianto, Rudy Setiabudy, Chairul Hudaya	Design of Delta Primary-Transposed zigzag Secondary (DTz) Transformer to Minimize Harmonic Currents on the Three-phase Electric Power Distribution System	International Journal on Electrical Engineering and Informatics, 2(4), 278	2010

E. Patents

No.	Patent Title	Year	Туре	Registration or Application Number
1	Manufacturing method of high-performance silicon based electrode using polymer pattern on current collector and manufacturing method of negative electrode of rechargeable lithium battery including same	2013	US Patent	20130252068
2	Method of producing a lithium-based secondary battery negative electrode using a polymer pattern formed on a collector surface, and that includes manufacturing this high-performance silicon electrode	2012	Korea Patent	2012-0028406
3	The metal oxide-coated electrode and a method for producing	2015	Korea Patent	10-2013-0029192
4	Manufacturing method of transparent heating film with scattered metal nanodot interface	2015	Korea Patent	2015-0166739
5	Manufacturing method of large area graphene derived from fullerene (C_{60}) precursor without etching and transfer processes	2016	Korea Patent	
6	Phenyl group-containing silicone oil, a silicon oxy- carbide compound and a production process utilizing a precursor of lithium ion secondary battery negative electrode and a lithium ion capacitor	2016	Korea Patent	

Depok, September 19th 2017

Ir. Chairul Hudaya, ST., M.Eng., Ph.D., IPM