

DAFTAR RIWAYAT HIDUP



A. Identitas Diri

1	Nama Lengkap	Dr. Ir. Irwan, MT
2	Jenis Kelamin	L
3	Jabatan Fungsional	Lektor Kepala
4	NIP	196603031993031003
5	NIDN	0003036604
6	Tempat dan Tanggal Lahir	Matang Glp. Dua, 3 Maret 1966
7	Email	irwan@pnl.ac.id ; irwanaceh@yahoo.com
8	Nomor Telp/Hp	+6282168374201
9	Alamat kantor	Jl. Banda Aceh – Medan, Km. 280,3 Buketrata Lhokseumawe
10	Nomor Telp/Faks	+6264542760
11	Lulusan yang Telah Dihasilkan	S1 : -
		S2 : -
		S3 : -
12	Mata Kuliah yang Diampu	1. Teknik Pencegahan Korosi
		2. Teknik Reaksi Kimia
		3. Operasi Teknik Kimia
		4. Perencanaan Teknik Kimia
		5. Perancangan Industri Kimia

B. Riwayat Pendidikan

	S1	S2	S3
Nama Perguruan Tinggi	Unsyiah	ITB	University of Malaya Kuala Lumpur
Bidang Ilmu	Teknik Kimia	Rekayasa Korosi	Nanomaterials
Tahun Masuk - Lulus	1985 – 1992	1999 - 2002	2009 - 2016
Judul Skripsi/Thesis/Disertasi	Prarencana Pabrik Dimethylformamide	Korelasi pengukuran koefisien difusivitas ion klorida dalam mortar dengan cara immersion dan yang dipercepat dengan arus listrik	Synthesis, characterization, and thermophysical properties of maghemite nanofluids with and without magnetic fields effect
Nama Pembimbing/Promotor	Ir. T. Maimun Drs. Bastian Arifin, M.Sc.	Dr. Ir. Sunara Purwadaria Dr. Ir. Isdiriyani Nurdin	Prof. Dr. Mohd. Rafie Johan Prof. Dr. Iskandar Idris Yaacob

C. Pengalaman Penelitian 5 Tahun Terakhir

No.	Tahun	Judul Penelitian	Pendanaan	
			Sumber	Jumlah (Juta Rp)
1	2015	Studi Pengaruh Temperatur Terhadap Sifat-Sifat Fisika Suspensi Partikel Nano Maghemite	DIKTI (tahun pertama)	68.000.000
2	2016	Studi pengaruh temperature terhadap sintesa dan sifat-sifat fisika partikel nano maghemite	DIKTI (tahun kedua)	60.000.000
3	2017	Kajian Penggunaan Ekstrak Buah Rumbia (<i>Metroxylon Sago Rottb.</i>) Sebagai Inhibitor Korosi Baja Karbon Dalam Natrium Klorida 3,5%	DIPA PNL	9.500.000

D. Pengalaman Penulisan Artikel Ilmiah 5 Tahun Terakhir

No.	Judul Artikel Ilmiah	Nama Jurnal	Volume/Nomor/ Tahun
1	Characterization and Stability Monitoring of Maghemite Nanoparticle Suspensions	Advanced Materials Research	Vol. 576, 2012, 398 – 401 (SCOPUS-Cited Publication).
2	Investigation of Fe ₂ O ₃ /SiO ₂ Nanocomposite by FESEM and TEM	Journal of Nanomaterials	Vol. 2013, 980390 (ISI cited - Q2). IP : 1.547
3	Synthesis, Characterization and Stability of Superparamagnetic Maghemite Nanoparticle Suspensions	Materials Research Innovations	Vol. 18, 2014, pp (ISI cited - Q4). IP : 0.321
4	Effect of Nitric Acid Concentration on Synthesis and Stability of Maghemite Nanoparticles Suspension	Science World Journal	Vol. 2014, 589479 (ISI cited - Q1). IP : 1.730
5	The Effect of pH and Time on the Stability of Superparamagnetic Maghemite Nanoparticle Suspensions	MATEC Web of Conferences	Vol. 39 (2016) 01001 (SCOPUS-Cited Publication).
6	The Effect of Temperature on Synthesis and Stability of Superparamagnetic Maghemite Nanoparticles Suspension	Journal of Materials Science and Chemical Engineering	Vol. 4 (2016) 35-41 (Google-based Impact Factor: 0.61)
7	Enhancement of thermal conductivity and kinematic viscosity in magnetically controllable maghemite (γ -Fe ₂ O ₃) nanofluids	Experimental Thermal and Fluid Science	Volume 77 (2016) 265–271 (ISI cited - Q1). IP: 1.990
8	Investigation on Electrical Conductivity Enhancement of Water Based Maghemite (γ -Fe ₂ O ₃) Nanofluids	International Journal of Materials Science and Applications	Volume 6 (1) (2017) 32-36

E. Pengalaman Penyampaian Makalah Secara Oral Pada Pertemuan/Seminar Ilmiah 5 Tahun Terakhir

No.	Nama Pertemuan Ilmiah/Seminar	Judul Artikel Ilmiah	Waktu dan Tempat
1	International Conference on Agricultural, Food and Biological Engineering (ICAFBE) 2012	Investigation of $\text{Fe}_2\text{O}_3/\text{SiO}_2$ Nanocomposite by FESEM and TEM	May 10-13, 2012, Guangzhou, China
2	International Conference on Advance Manufacturing and Materials Engineering (ICAMME) 2012	Characterization and Stability Monitoring of Maghemite Nanoparticle Suspensions	July 3-5, 2012, Kuala Lumpur, Malaysia
3	4 th International Conference on Functional Materials and Devices (ICFMD) 2013	The Effect of Nitric Acid Concentration on Synthesis and Stability of Maghemite Nanoparticles Suspensions	April 8 – 11, 2013, Penang, Malaysia.
4	1 st International Conference on the Science and Engineering of Materials (ICoSEM) 2013	Synthesis, Characterization and Stability of Superparamagnetic Maghemite Nanoparticle Suspensions	November 13-14, 2013, Kuala Lumpur, Malaysia.
5	2 nd International Conference on Chemical and material Engineering (ICCME) 2015	The Effect of pH and Time on the Stability of Superparamagnetic Maghemite Nanoparticle Suspensions	December 27-28, 2015, Phuket, Thailand
6	International Conference on Chemistry, Chemical Process, and Engineering (IC3PE) 2016.	The Effect of Particle volume fraction and temperature on the Enhancement of Thermal Conductivity of Maghemite (γ - Fe_2O_3) Water-based Nanofluids	November 15-16, 2016, Yogyakarta, Indonesia.
7	The 3 rd International Conference on Chemical Engineering Science and Applications (ICChESA) 2017	Experimental investigation on thermal conductivity and viscosity of maghemite (γ - Fe_2O_3) water-based nanofluids	September 20-21, Banda Aceh, Indonesia
8	The 2 nd International Joint Conference on Science and Technology (IJCST) 2017	The Pomelo Peel Extract as Green Corrosion Inhibitor for Mild Steel in Hydrochloric Acid 1 M	September 27-28, Bali, Indonesia

F. Pengalaman Reviewer

1. Reviewer Proposal Penelitian DIPA PNL 2017
2. Reviewer International Conference on Chemical Science Applications, Syiah Kuala University, Banda Aceh, 20-21 September 2017.
3. Reviewer Journal of Materials Science and Chemical Engineering
4. Reviewer Colloid and Surface Science, Science Publishing Group

Lhokseumawe, 30 Agustus 2017



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