

CURRICULUM VITAE

A. IDENTITY

1	Name (with title)	:	Prof. Dr. Yeni Wahyuni Hartati, M.Si.
2	Date and Place of Birth	:	24 September 1971, Garut
3	Academic Position	:	Professor
4	Name of Research Group	:	Analytical Chemistry and Separation /
5	Office Address	:	Department of Chemistry
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8	Professional Organisation	:	HKI, RSC
9	Scopus <i>h</i> -index	:	10

B. Education

No	Degree	Institution	Year of Graduation
1	Bachelor degree	Universitas Padjadjaran	1996
2	Master degree	Institute of Technology Bandung	1999
3	Doctoral degree	Universitas Padjadjaran	2009

C. Research and Grants in the Past 5 Years

No.	Year	Project Title	Grant and Funder's Name
1	2022	Nanomaterial Modified Screen printed Carbon Electrode	Matching Fund Kemendikbud
2	2022	Electrochemical Biosensor Kit to Detect ENaC (epithelial sodium channel) Protein Levels as a hypertension biomarker	PTUPT Kemendikbud Dikti
3	2022	Clinical Validation of Electrochemical Immunosensor For Detection of Epithelial Sodium Channel Protein in Urine using Gold Modified Carbon Electrode (SPCE-Au) Screen Printed	PTM Kemendikbud Dikti
4	2022	Electrochemical Immunosensor Based on Screen-Printed Carbon Electrode/Gold/Cerium Oxide (SPCE/Au/CeO ₂) in Determination of Anti-SARS-CoV-2 Post-Vaccination IgG Antibody Titers	PTM Kemendikbud Dikti
5	2022	Study of Selectivity and Stability of scFv-Based Electrochemical Immunosensors Using Screen Printed Carbon Electrode Modified Gold Nanoparticles for the Detection of RBD Protein S of SARS-CoV-2	PTM Kemendikbud Dikti

6	2022	Optimization of the Electrochemical Aptasensor to Detect SARS-CoV-2 RBD Protein S as a Biomarker of COVID-19 Using Screen Printed Carbon Electrode/AuNP	PTM Kemendikbud Dikti
7	2022	Development of chemical sensors and biosensors for food, health and environmental applications	ALG, Padjadjaran University
8	2022	CRISPR-based biosensor for Chikungunya	BUPP, Padjadjaran University
9	2021- 2022	Study of Portable Potentiostats for Biosensor Applications with Screen Printed Cerium Oxide Modified Carbon Electrode	PDD Kemendikbud Dikti
10	2020	Bioinformatic studies and application of the ENaC protein biosensor as a hypertension biomarker	PTM Kemendikbud Dikti
11	2020	Early detection of gumboro disease in chicken using colorimetric method	PTM Kemendikbud Dikti
12	2020	Electrochemical Biosensor for Covid-19 detection	LPDP-BRIN
13	2019-2 021	Electrochemical Biosensor Using Nanomaterial Bioconjugates For Detection of Epithelial Sodium Channel (ENaC) Protein as a Hypertension Biomarker	PTM Kemendikbud Dikti
14	2019	Development of Biosensor Technology for Detection of Pig (<i>Sus scrofa</i>) in DNA-based Food	PTM Kemendikbud Dikti
15	2017-2 018	Electrochemical Biosensors Using Nanomaterial Bioconjugates For Detection Of Cancer Biomarker Proteins	PDUPT Kemenristek dikti

D. Scientific Publication in the Past 5 Years

No	Title	Journal Name/ Quartile	Volume, Number, Year
1	Facile and controllable synthesis of monodisperse gold nanoparticle bipyramid for electrochemical dopamine sensor	Nanotechnology, Q1	2023, 34(5), 055502
2	Low-interference norepinephrine signal on dopamine detection using nafion-coated boron doped diamond electrodes	<i>Biosensors and Bioelec- tronics</i> , Q1	2023, 220, 114892
3	Screen-printed carbon electrode/natural silica-ceria nanocomposite for electrochemical aptasensor application	<i>Journal of Electrochemical Science and Engineering</i> , Q3	2022, 12(6), pp. 1225–124 2

4	Recent advances in hydroxyapatite-based electrochemical biosensors: Applications and future perspectives	<i>Sensing and Bio-Sensing Research, Q1</i>	2022, 38, 100542
5	A review post-vaccination SARS-CoV-2 serological test: Method and antibody titer response	<i>Analytical Biochemistry, Q2</i>	2022, 658, 114902
6	Detection of Tropical Diseases Caused by Mosquitoes Using CRISPR-Based Biosensors	<i>Tropical Medicine and Infectious Disease, Q1</i>	2022, 7(10), 309
7	Differential pulse voltammetry study of gadolinium-DTPA complex	<i>Research Journal of Chemistry and Environment, Q4</i>	2022, 26(10), pp. 1–7
8	Application of Plackett-Burman and central composite design for analysis of Gadolinium in acetonitrile and TBAP supporting electrolyte by Differential Pulse Voltammetry	<i>Research Journal of Chemistry and Environment, Q4</i>	2022, 26(9), pp. 102–108
9	The Selectivity and Stability of Epithelial Sodium Channel (ENaC) Aptamer as an Electrochemical Aptasensor	<i>Analytical and Bioanalytical Electrochemistry, Q3</i>	2022, 14(7), pp. 715–729
10	Detecting epithelial sodium channel (ENaC) protein levels as a biomarker of hypertension Khoirunnisa, A., Hartati, Y.W.	<i>Journal of Medical Pharmaceutical and Allied Sciences, Q4</i>	2022, 11(4), pp. 5004–5011
11	The optimization of an electrochemical aptasensor to detect RBD protein S SARS-CoV-2 as a biomarker of COVID-19 using screen-printed carbon electrode/AuNP	<i>Journal of Electrochemical Science and Engineering, Q3</i>	2022, 12(1), pp. 219–235
12	Optimization of Aptamer-Based Electrochemical Biosensor for ATP Detection Using Screen-Printed Carbon Electrode/Gold Nanoparticles (SPCE/AuNP)	<i>Indonesian Journal of Chemistry, 2022, Q3</i>	22(5), pp. 1256–1268
13	A Review on the Development of Aptamer Immobilization Techniques in Aptamer-Based Electrochemical Biosensors for Viruses Detection	<i>Analytical and Bioanalytical Electrochemistry, Q3</i>	2022, 14(1), pp. 127–143
14	Applications of electrochemical biosensor of aptamers-based (APTASENSOR) for the detection of leukemia biomarker	<i>Sensing and Bio-Sensing Research, Q1</i>	2021, 32, 100416
15	Development of lateral flow assay based on anti-IBDV IgY for the rapid detection of Gumboro disease in poultry	<i>Journal of Virological Methods, Q3</i>	2021, 291, 114065
16	Synthesis and characterization of nanoceria for electrochemical sensing applications	<i>RSC Advances, Q1</i>	2021, 11(27), pp.

			16216–16235
17	Development of differential pulse voltammetric method for determining samarium (III) through electroanalytical study of the metal ion in acetonitrile using Box–Behnken design	<i>Heliyon</i> , Q1	2021, 7(4), e06602
18	An epithelial sodium channel (ENaC)-specific aptamer determined through structure-based virtual screening for the development of hypertension early detection system	<i>Pharmaceutical Sciences</i> , Q2	2021, 27(1), pp. 67–75
19	An aptasensor using ceria electrodeposited-screen-printed carbon electrode for detection of epithelial sodium channel protein as a hypertension biomarker	<i>Royal Society Open Science</i> , Q1	2021, 8(2), 202040
20	Application of Plackett-Burman and Box-Behnken experimental designs in differential voltammetry for determining Gadolinium concentration	<i>Journal of Physics: Conference Series</i> , Q3	2021, 1731(1), 012017
21	Label-based and label-free electrochemical DNA biosensors for the detection of viruses: A review	<i>Current Topics in Electrochemistry</i> , Q4	2021, 23, pp. 117–127
22	An Electrochemical Aptasensor for the Detection of HER2 as a Breast Cancer Biomarker Based on Gold Nanoparticles-Aptamer Bioconjugates	<i>Indonesian Journal of Chemistry</i> , Q3	2021, 21(6), pp. 1526–1536
23	Single-Chained Fragment Variable (scFv) Recombinant as a Potential Receptor for SARS-CoV-2 Biosensor Based on Surface Plasmon Resonance (SPR)	<i>Proceedings of IEEE Sensors</i> ,	2021, 2021-October
24	Optimization of voltammetric determination of dysprosium (III) using plackett-burman and RSM-CCD experimental designs	<i>Baghdad Science Journal</i> , Q3	2020, 17(4), pp. 1198–1206
25	A voltammetric immunosensor based on gold nanoparticle - Anti-ENaC bioconjugate for the detection of epithelial sodium channel (ENaC) protein as a biomarker of hypertension	<i>Sensing and Bio-Sensing Research</i> , Q1	2020, 29, 100343
26	Cerium oxide-monoclonal antibody bioconjugate for electrochemical immunosensing of HER2 as a breast cancer biomarker	<i>Sensing and Bio-Sensing Research</i> , Q1	2020, 27, 100316

27	Electrochemical immunosensor to detect hepatitis b antigen (Hbsag) and hepatitis b e antigen (hbeag) as biomarkers of hepatitis b infection: A review	<i>Current Topics in Electrochemistry</i> , Q4	2020, 22, pp. 121–127
28	Differential pulse voltammetry study for quantitative determination of dysprosium (III) in acetonitrile solution	<i>International Journal of Renewable Energy Development</i> , Q3	2020, 10(2), pp. 191–199
29	Conference Paper <u>Synthesis of carboxymethyl cellulose form banana stems and its characterization for anode binder of li-ion battery</u>	<i>Key Engineering Materials</i> , Q3	2020, 860 KEM, pp. 59–63
30	<u>Electrochemical DNA biosensor for detection of pork (Sus scrofa) using screen printed carbon-reduced graphene oxide electrode</u>	<i>ScienceAsia</i> , Q3	2020, 46, pp. 72–79
31	<u>A voltammetric epithelial sodium channels immunosensor using screen-printed carbon electrode modified with reduced graphene oxide</u>	<i>Current Chemistry Letters</i> , Q3	2020, 9(4), pp. 151–160
32	<u>A Gold Nanoparticle–DNA Bioconjugate–Based Electrochemical Biosensor for Detection of Sus scrofa mtDNA in Raw and Processed Meat</u>	<i>Food Analytical Methods</i> , Q1	2019, 12(11), pp. 2591–2600
33	<u>Application of experimental design by differential pulse voltammetry for determination of rare elements as complexes with diethylenetriaminepentaacetic acid (Dtpa)</u>	<i>International Journal of Recent Technology and Engineering</i> , Q3	2019, 8(2 Special Issue 7), pp. 33–37
34	<u>Characteristics of cmc from corncob and its application as electrode binder in lithium ion battery</u>	<i>Materials Science Forum</i> , Q3	2019, 966 MSF, pp. 378–385
35	<u>Study of electrochemical deposition process of graphene oxide on dssc tio2 based photoanode</u>	<i>Materials Science Forum</i> , Q3	2019, 966 MSF, pp. 378–385
36	<u>Energy storage characteristics of electrochemically deposited graphene oxide on ito and cu substrates</u>	<i>Materials Science Forum</i> , Q3	2019, 966 MSF, pp. 428–432
37	Gold nanoparticles modified screen-printed immunosensor for cancer biomarker HER2 determination based on anti HER2 bioconjugates	<i>AIP Conference Proceedings</i> , Q4	2018, 2049, 020051
38	Gold modified screen printed carbon electrode (SPCE) with streptavidin-biotin system for detection of heart failure by using immunosensor	<i>AIP Conference Proceedings</i> , Q4	2018, 2049, 030017

39	A study of green electro-analysis conducted by experimental design method for detection of Samarium as complex with diethylenetriaminepentaacetic acid (DTPA) Wyantuti, S., Pratomo, U., Hartati, Y.W., Hendrati, D., Bahti, H.H.	<i>AIP Conference Proceedings</i> , Q4	2018, 2049, 030010
40	Fast and simultaneous detection of Sm, Eu, Gd, Tb and Dy using combination of voltammetry method and multivariate analysis	<i>Research Journal of Chemistry and Environment</i> , Q4	2018, 22(Special issue II), pp. 302–306
41	A voltammetric immunosensor for detection of HER2 using gold modified-screen printed carbon electrode	<i>Research Journal of Chemistry and Environment</i> , Q4	2018, 22(Special issue II), pp. 294–301
42	<u>Recombinant anti BNP-SCFV production in Escherichia coli and its application for the detection of heart failure by electrochemical immunosensor using Screen-Printed Carbon Electrode-Gold Nanoparticles (SPCE-GNP)</u>	<i>Research Journal of Chemistry and Environment</i> , Q4	2018, 22(Special issue II), pp. 102–107

E. Books in the Past 5 Years

No	Title	Year	Publisher
1	Voltammetry (Book Chapter)	2020	Intech Open
2	Elektroanalisis Kimia	2019	Bitread
3			

F. Patents in the Past 5 Years

No	Title	Year	Patent Number
1	Metode Deteksi Urutan Pendek DNA Salmonella typhi menggunakan Biosensor Elektrokimia	2020	IDP000067858
2			

G. Community Service in the Past 5 Years

No	Year	Title
1	2022	Cold Pressed Juice Pengolahan Pangan sehat
2	2021	Penyuluhan Kesehatan & Deteksi Dini COVID-19 Berbasis Aplikasi Protein Dalam Alat Rapid Test COVID-19

No	Year	Title
3	2020	Diagnosis Covid-Kec Ibun Kab Bandung
4	2019	Sosialisasi urgensi diagnosis dalam identifikasi dan penanganan penyakit menular di Desa Cilayung Kacamatan Jatinangor
5	2018	Pengujian kehalalan pangan berbasis babi dan kegiatan penyuluhan kandungan bahan pangan, sosialisasi nomor PIRT dan sertifikasi halal pada produk pangan di Desa Sayang Kecamatan Jatinangor Kabupaten Sumedang

H. Journal Reviewer/Editor in the Last 5 Years

No	Name of Journal	Reviewer/Editor	Year
1	Sensors and Actuators Report, Elsevier	Reviewer	2022
2	ADMET and DMP, International Association of Physic Chemist	Reviewer	2022
3	Food Control, Elsevier	Reviewer	2022
4	Inorganic Chemistry Communication, Elsevier	Reviewer	2022
5	Iranian Journal Chemistry and Chemical Engineering, IJCCE	Reviewer	2022
6	Journal of Alloy and Compounds, Elsevier	Reviewer	2022
7	Food Analytical Methods, Springer	Reviewer	2021
8	Journal of Nanostructur, Springer	Reviewer	2021
9	Advance in Natural Science: Nanoscience and Nanotechnology, IOP Publishing	Reviewer	2020
10	ChemistrySelect, Willey	Reviewer	2020
11	Process Biochemistry, Elsevier	Reviewer	2019
12	Talanta	Reviewer	2018