



**IPB University**  
— Bogor Indonesia —

# STAFF HANDBOOK 2021

**Silviculture Study Programme  
Departement of Silviculture  
Faculty of Forestry and Environment**



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### **FOREST ECOLOGY DIVISION**

Prof.Dr.Ir. Cecep Kusmana, MS  
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Dr.Ir. Iwan Hilwan, MS  
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### **FOREST PROTECTION DIVISION**

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Prof. Dr. Ir. Achmad, MS  
Prof. Dr. Ir. Lailan Syaufina, M.Sc  
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Dr. Erianto Indra Putra, S.Hut, M.Si  
Dr Yunik Istikorini, SP, MP  
Ati Dwi Nurhayati, S.Hut, M.Si  
Dr.M. Alam Firmansyah, S.Hut, M.Si  
Lufthi Rusniarsyah, SP, MSi



**IPB University**  
— Bogor Indonesia —

**Silviculture Study Programme  
Department of Silviculture  
Faculty of Forestry and Environment**

# **SILVICULTURE DIVISION**



**Prof. Dr. Ir. Nurheni Wijayanto, M.S.**



**Position:**

Professor

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**Teaching and Research Area:**

Agroforestry

**Academic Career:**

Initial academic appointment	Position	Institution	Year
Doctorate/PhD degree	Forestry Science	IPB University	2001
Master/MSc degree	Forest Management Science	IPB University	1989
Undergraduate degree	Forest Management	IPB University	1983

**Employment:**

Position	Employer	Period
Lecturer	IPB University	1984 - present
Head of Silviculture Division	Department of Silviculture	2019 - present
Member of Commission B	IPB University	2017 - 2020
Head	Department of Silviculture	2011 - 2015

**Primary Publications :**

No	Title	Journal	Volume	Issue	Year
1	Growth of Shorea Leprosula Seedlings Prepared in Combo Nursery Technique to Support Mine Reclamation	Journal Wasian	8	1	2021
2	Selection of organic materials potentially used to enhance bioremediation of acid mine drainage	Journal of Degraded and Mining Lands Management	8	3	2021
3	The Effect Of Cajuput And Citronella Grass As Host Plants On Sandalwood Growth	Media Konservasi	26	2	2021
4	Above-Ground Biomass Estimation of Acacia mangium Willd. in Revegetation Area of Coal Mining	Journal Sylva Lestari	8	1	2020
5	Evaluasi Pertumbuhan Aren (Arenga Pinnata (Wurmb)) Di Lahan Pasca Tambang Pt Berau Coal Kalimantan Timur	Media Konservasi	25	2	2020



No	Title	Journal	Volume	Issue	Year
6	Effect of Citronella Leaf Waste - Fly Ash Compost on the Growth of <i>Cananga odorata</i>	Jurnal Teknologi Mineral dan Batubara	16	2	2020
7	Study of Cultivation Traditional Technical and Production Java Kenanga ( <i>Cananga odorata</i> f. <i>Macrophylla</i> ) in Blitar	Journal of Tropical Silviculture	10	3	2020
8	The Erosion Rate Estimatisation of Citronellagrass ( <i>Cymbopogon nardus</i> L) on Post Mining Land	Journal of Agricultural Engineering	9	1	2019
9	Breeding Techniques of <i>Melaleuca cajuputi</i> in Vegetative at Nurseries Coal Company PT Bukit Asam Ltd	Journal of Tropical Silviculture	10	1	2019
10	Effectiveness of Indigenous Arbuscular Mycorrhizal Fungi to the Shoot Cutting Growth of Gosale ( <i>Syzygium malaccense</i> (L.) Merr & L.M Perry)	Journal of Tropical Silviculture	9	3	2018
11	Utilization of AMF and Host Plant to Increase The Growth of Sandalwood Seedlings ( <i>Santalum album</i> Linn.)	Journal of Tropical Silviculture	9	3	2018
12	Utilization of Empty Fruit Bunch and Grass As Compost Raw Material in PT Bukit Asam, South Sumatera	Journal of Tropical Silviculture	9	3	2018
13	Integrated post mining landscape for sustainable land use: A case study in South Sumatera, Indonesia	Sustainable Environment Research	27	4	2017
14	Diversity Arbuscular Mycorrhizal Fungi from <i>Desmodium</i> spp. PT. Cibaliung Sumberdaya, Banten	Journal of Tropical Silviculture	7	3	2016
15	Compost and Mycorrhizal Application on Longkida ( <i>Nauclea orientalis</i> ) Seedling at Post-Mining Soil PT. ANTAM Pomala	Journal of Tropical Silviculture	07	1	2016
16	Utilization of Empty Fruit Bunch Compost on Improving <i>Melaleuca cajuputi</i> at Coal Post-Mining	Journal of Tropical Silviculture	9	3	2016

**Involvement in the Professional Associations:**

Organization name	Specific role	Level	Period
Masyarakat Silvikultur Indonesia	Member	National	2013 - present



**Prof Dr Ir Iskandar Z. Siregar, M.Sc.F.Trop**



**Position:**

Professor

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**Teaching and Research Area:**

Forest genetic; Tree improvement

**Academic Career:**

Initial academic appointment	Position	Institution	Year
Doctorate/PhD degree	Forest Genetic	George August Univ. of Gottingen	2000
Master/MSc degree	Forest Genetic; Tree Improvement	University of Canterbury	1994
Undergraduate degree	Forest Management	IPB University	1989

**Employment:**

Position	Employer	Period
Lecturer	IPB University	1990 - present
Director	Directorate of International Program IPB University	2018 - present
Member of Commission B	Board of Professors	2007 - 2020
Director	Directorate of Research & Innovation	2013 - 2018

**Research and Development Projects :**

Title	Period	Partner/Donor
Seleksi Sengon ( <i>Falcataria moluccana</i> (MIQ) BARNEBY & J.W GRIMERS) Tahan Hama Bokter ( <i>Xystrocera festiva</i> ) Dan Penyakit Karat Tumor ( <i>Uromycladium falcatarium</i> )	2020 - 2022	Penelitian Pendidikan Magister menuju Doktor untuk Sarjana Unggul
Adaptive Genetic Divergence on <i>Dryobalanops aromatica</i> Growing in Sumatran Tropical Peat Swamp Forests	2017-2019	Penelitian Dasar
Karakterisasi Genomik Daya Adaptasi <i>Shorea</i> spp	2016 - 2018	Penelitian Pendidikan Magister menuju Doktor untuk Sarjana Unggul
Pendekatan Genomika Fungsional Untuk Pemuliaan Sengon ( <i>Falcataria moluccana</i> Miq.) Toleran Karat Tumor ( <i>Uromycladium</i> spp.)	2016 - 2018	Penelitian Pendidikan Magister menuju Doktor untuk Sarjana Unggul



Title	Period	Partner/Donor
Genetic Variation of Shorea Species in Degraded Peat Swamp Forests in Sumatra, Indonesia	2016 - 2018	Penelitian Kerja Sama Luar Negeri
Evaluation on Sustainability of Fast Growing Three Species Plantation as Biomass Source for Bio Energy in Indonesia	2016 - 2018	Penelitian Kerja Sama Luar Negeri

**Patents and proprietary rights**

No	Title	Year
1.	Metode Ekstraksi Deoxyribonucleic Acid (DNA) Untuk Kayu Tropis	2019
2.	Metode Untuk Mengidentifikasi Spesies Tanaman Rotan Menggunakan DNA Barcoding	2016

**Primary Publications :**

No	Title	Journal	Volume	Issue	Year
1	DNA Isolation Success Rates from Dried and Fresh Wood Samples of Selected 20 Tropical Wood Tree Species for Possible Consideration in Forensic Forestry	Science & Justice	61	5	2021
2	Generating long-read sequences using Oxford Nanopore Technology from <i>Diospyros celebica</i> genomic DNA	BMC Research Notes	14	1	2021
3	Geometry Feature Extraction of Shorea Leaf Venation Based on Digital Image and Classification Using Random Forest	International Journal of Computing and Digital System	10	1	2021
4	Examining the Consistency of Folk Identifications of Trees to Implement Community-Based Biodiversity Monitoring	Human Ecology	48	2	2020
5	De novo assembly of transcriptome dataset from leaves of <i>Dryobalanops aromatica</i> (Syn. <i>Dryobalanops sumatrensis</i> ) seedlings grown in two contrasting potting media	BMC Research Notes	13	1	2020
6	Species Confirmation and Genetic Diversity of Gall-Rust Resistant and Susceptible Sengon Using Chloroplast DNA Marker	Journal of Plant Forest Research	17	2	2020
7	Seed germination characteristics in different storage time of <i>Gmelina arborea</i> treated with ultrafine bubbles priming	Biodiversitas Journal of Biological Diversity	21	10	2020



No	Title	Journal	Volume	Issue	Year
8	Short Communication: Geometric morphometric analysis of leaf venation in four Shorea species for identification using Digital Image Processing	Biodiversitas Journal of Biological Diversity	21	7	2020
9	Integrating DNA Barcoding and Traditional Taxonomy for the Identification of Dipterocarps in Remnant Lowland Forests of Sumatra	Plants	8	11	2019
10	Genetic Diversity of Dominant Plant Species in Tropical Land-Use Systems in Sumatra, Indonesia	Tropical Conservation Science	11	-	2018
11	Genetic diversity of Falcataria moluccana and its relationship to the resistance of gall rust disease	Biodiversitas Journal of Biological Diver	19	1	2018
12	Population genetics and ecology of Sumatran camphor ( <i>Dryobalanops aromatica</i> ) in natural and community-owned forests in Indonesia	Biodiversitas Journal of Biological Diversity	19	6	2018
13	Variation in seed morpho-physiological and biochemical traits of Java olive populations originated from Java, Bali, Lombok, and Timor Islands, Indonesia	Biodiversitas Journal of Biological Diversity	19	3	2018
14	Intraspecific Variation on Early Growth of <i>Neolamarckia Cadamba</i> Miq. in Provenance-Progeny Tests in West Java Province, Indonesia	Journal of Biotropia	23	1	2016

**Involvement in the Professional Associations:**

Organization name	Specific role	Level	Period
Masyarakat Silvikultur Indonesia	Member	National	2013 - present
Masyakarat Peneliti Kayu Indonesia (MAPEKI)	Member	National	2012 - present
International Society of Arboriculture	Member	Internasional	2017 - present
Masyarakat Arborikultur Indonesia	Head	National	2021 - present





**Prof. Dr. Ir. Sri Wilarso Budi R., M.S.**



**Position:**

Professor

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**Teaching and Research Area:**

Silviculture; Mychorriza

**Academic Career:**

Initial academic appointment	Position	Institution	Year
Doctorate/PhD degree	Forest Microbiology	Inra Nancy	1999
Master/MSc degree	Agronomic	IPB University	1993
Undergraduate degree	Forest Management	IPB University	1986

**Employment:**

Position	Employer	Period
Lecturer	IPB University	1988 - present
Head of Tropical Silviculture Study Program	Departement of Silviculture	2016 - present
Member of Commission D	Board of Professors	2017 - 2020

**Primary Publications :**

No	Tittle	Journal	Volume	Issue	Year
1	Growth And Organic Acid Exudation Of Samanea Saman (Jacq.) Merr. Seedling With Aluminum Exposure	Malaysian Journal Of Biochemistry & Molecular Biology	1	1	2021
2	Morpho-physiological changes of four tropical tree seedlings under aluminum stress	Biodiversitas Journal of Biological Diversity	22	3	2021
3	Influence Of Arbuscular Mycorrhizal Fungi And Soil Ameliorants On The Mycorrhizal Colonization, Chlorophyll Content, And Performance Growth Of Two Tropical Tree Seedlings Grown In Soil Media With High Aluminum Content	Malaysian Applied Biology	49	1	2020
4	Genetic Variation Of Teak Mistletoe (Dendrophthoe Pentandra (L.) Miq.) Based On Random Amplified Polymorphic Dna (Rapid) Markers	BIOTROPIA	27	2	2020



No	Title	Journal	Volume	Issue	Year
5	The Growth improvement of <i>Falcataria moluccana</i> inoculated with MycoSilvi grown in post-mining silica sand soil medium amended with soil ameliorants	Biodiversitas Journal of Biological Diversity	21	1	2020
6	The Role of MycoSilvi, Lime, and Compost on The Growth of Balsa ( <i>Ochroma bicolor</i> Rowlee.) Seedling in Post Silica Sand Mine Media	Journal of Sylva Indonesiana (JSI)	3	1	2020
7	The Utilization of Arbuscular Mycorrhizal Fungi and Organic Pot to Enhance the Growth of kayu afrika ( <i>Maesopsis eminii</i> Engl) Seedling at IPB Darmaga Permanent Nursery	Journal of Tropical Silviculture	11	3	2020
8	The utilization of arbuscular mycorrhizal fungi and organic pot to enhance <i>Suren</i> ( <i>Toona sinensis</i> Roem.) growth at IPB Dramaga Permanent Nursery	Journal of Tropical Silviculture	11	2	2020
9	Growth Response of Seedling Mahogany ( <i>Swietenia macrophylla</i> King) by Arbuscular Mycorrhizal Fungi (AMF) Inoculation on Organic Pot	Journal of Tropical Silviculture	11	2	2020
10	Root colonization by arbuscular mycorrhizal fungi (AMF) in various age classes of revegetation post-coal mine	Biodiversitas Journal of Biological Diversity	21	11	2020
11	Status Fungi Mikoriza Arbuskula (Fma) Pada Rizosfer Jernang ( <i>Daemonorops DRACO</i> Blume) Di Jambi	Media Konservasi	24	3	2020
12	Characteristics Of Morphology, Anatomy And Dormancy Breaks Of <i>Castanopsis Buruana</i> Miq. Seeds As An Endemic Plant Of Sulawesi, Indonesia	Plant Archives	19	2	2019
13	Intensive tropical land use massively shifts soil fungal communities	Scientific Reports	9	1	2019
14	Effects of Arbuscular Mycorrhizal Fungi and Organic Material on Growth and Nutrient Uptake by <i>Pericopsis mooniana</i> in Coal Mine	Asian Journal of Plant Sciences	18	3	2019
15	Uji Efektivitas Inokulum Fungi Mikoriza Arbuskula Terhadap Pertumbuhan Bibit Jati ( <i>Tectona Grandis</i> Linn. F)	Journal of Natural Resources and Environmental Management	9	3	2019
16	Identifikasi Mikroba Potensial Fungi Mikoriza Arbuskula (Fma) Pada Lahan Pascatambang Pt. Holcim Indonesia Tbk. Cibinong, Bogor, Jawa Barat	Journal of Natural Resources and Environmental Management	8	3	2018



No	Title	Journal	Volume	Issue	Year
17	Response of forest tree species inoculated with MycoSilvi and soil ameliorant addition grown in silica sand	Asian Journal of Agriculture and Biology	6	4	2018
18	Dna Barcode Characterization Of Mistletoe Infestation In Teak Clonal Seed Orchard (Cso) In Padangan, East Java Province, Indonesia	BIOTROPIA	24	2	2017
19	Species Diversity of Undergrowth Vegetation in Former Silica and Limestone Mining Land at PT Holcim Indonesia Tbk, West Java Indonesia	International Journal of Sciences: Basic and Applied Research (IJSBAR)	31	3	2017
20	Assessing Intensity of Mistletoe Infestation in Teak Clonal Seed Orchard (CSO) Padangan, East Java	Procedia Environmental Sciences	33	-	2016

**Involvement in the Professional Associations:**

Organization name	Specific role	Level	Period
Masyarakat Silvikultur Indonesia	Member	National	2017 - present
Indonesian Mycorrhizas Association	Management	National	2017 - present



**Prof.Dr.Ir. Prijanto Pamoengkas, M.Sc.F.Trop**



**Position:**

Professor

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**Teaching and Research Area:**

Natural forest silviculture

**Academic Career:**

Initial academic appointment	Position	Institution	Year
Doctorate/PhD degree	Forestry Science	IPB University	2006
Master/MSc degree	Forest Nutrition	George August Univ. of Gottingen	1995
Undergraduate degree	Forest Management	IPB University	1987

**Employment:**

Position	Employer	Period
Lecturer	IPB University	1989 - present

**Primary Publications :**

No	Title	Journal	Volume	Issue	Year
1	The growth Shorea leprosula Miq. on various slopes and directions of slopes in Gunung Dahu Research Forest, Bogor	Journal of Natural Resources and Environmental Management	11	3	2021
2	Growth Evaluation of Red Meranti Species In Restoration Area of Gunung Dahu Research Forest, Bogor	Journal of Forest Research and Nature Conservation	17	2	2020
3	The effect of planting technique on the growth of two Shorea species in Gunung Dahu, Bogor, Indonesia	Biodiversitas Journal of Biological Diversity	21	9	2020
4	The growth of Shorea leprosula at various planting distances and slopes in Gunung Dahu Research Forest, Bogor, Indonesia	Biodiversitas Journal of Biological Diversity	21	9	2020
5	Stand structure of Unmanaged Red Meranti Plantation (Shorea leprosula Miq.) in Haurbentes Forest Research, Jasinga	Journal of Natural Resources and Environmental Management	9	1	2019



No	Title	Journal	Volume	Issue	Year
6	Vegetation Recovery of Logged-over Dipterocarp Forests In Central Kalimantan, Indonesia	Floresta e Ambiente	26	3	2019
7	Site Management Eucalyptus pellita at PT. Perawang Sukses Perkasa Industri, Riau	Journal of Tropical Silviculture	09	02	2018
8	Correlation Between Physical and Chemical Soil Properties and Growth of Red Meranti in Haurbentes Forest Research	Journal of Natural Resources and Environmental Management	08	02	2018
9	Entitled Potential for Nature Seedling Regeneration in The Forest that Managed by Silviculture System of TPTJ in Central Kalimantan	Journal of Tropical Silviculture	09	02	2018
10	Stand structure and species composition of merbau in logged-over forest in Papua, Indonesia	Biodiversitas Journal of Biological Diversity	19	1	2018
11	Tree growth performance and estimation of wood quality in plantation trials for <i>Maesopsis eminii</i> and <i>Shorea</i> spp.	Journal of Forestry Research	29	4	2018
12	Typological of Vegetation Cover Analysis as the Basis Strategy of Restoration on IUPHHK-RE PT REKI	Journal of Natural Resources and Environmental Management	7	1	2017
13	The properties of red meranti wood ( <i>Shorea leprosula</i> Miq) from stand with thinning and shade free gap treatments	Journal of the Indian Academy of Wood Science	13	1	2016

**Involvement in the Professional Associations:**

Organization name	Specific role	Level	Period
Masyarakat Silvikultur Indonesia	Member	National	2013 - present



**Dr.Ir. Ulfah Juniarti Siregar, M.Agr**



**Position:**

Associate Professor

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**Teaching and Research Area:**

Forest genetic; Tree improvement

**Academic Career:**

Initial academic appointment	Position	Institution	Year
Doctorate/PhD degree	Agricultural Science	Kyoto University	1992
Master/MSc degree	Genetic	Kyoto University	1989
Undergraduate degree	Agronomic	IPB University	1981

**Employment:**

Position	Employer	Period
Lecturer	IPB University	1983 - present
Member of Commission D	Academic Senate	2019 - present

**Research and Development Projects :**

Title	Period	Partner/Donor
Seleksi Galur Sengon Unggul (Paraserianthes falcataria (L.) Nielsen) Tahan Hama Penggerek Batang Boktor (Xystrocera festiva) dan Penyakit Karat Puru	2019 - 2021	Penelitian Dasar Unggulan Perguruan Tinggi
Seleksi Sengon (Falcataria moluccana (MIQ) BARNEBY & J.W GRIMERS) Tahan Hama Boktor (Xystrocera festiva) Dan Penyakit Karat Tumor (Uromycladium falcatarium)	2020 - 2022	Penelitian Pendidikan Magister menuju Doktor untuk Sarjana Unggul
Adaptive Genetic Divergence on Dryobalanops aromatica Growing in Sumatran Tropical Peat Swamp Forests	2017-2019	Penelitian Dasar
Karakterisasi Genomik Daya Adaptasi Shorea spp	2016 - 2018	Penelitian Pendidikan Magister menuju Doktor untuk Sarjana Unggul



Title	Period	Partner/Donor
Pendekatan Genomika Fungsional Untuk Pemuliaan Sengon ( <i>Falcataria moluccana</i> Miq.) Toleran Karat Tumor ( <i>Uromycladium</i> spp.)	2016 - 2018	Penelitian Pendidikan Magister menuju Doktor untuk Sarjana Unggul
Genetic Variation of Shorea Species in Degraded Peat Swamp Forests in Sumatra, Indonesia	2016 - 2018	Penelitian Kerja Sama Luar Negeri

**Patents and proprietary rights**

No	Title	Year
1.	Metode Untuk Mengidentifikasi Spesies Tanaman Rotan Menggunakan DNA Barcoding	2016

**Primary Publications :**

No	Title	Journal	Volume	Issue	Year
1	De novo transcriptome assembly data for sengon ( <i>Falcataria moluccana</i> ) trees displaying resistance and susceptibility to boktor stem borers ( <i>Xystrocera festiva</i> Pascoe)	BMC Research Notes	14	1	2021
2	De novo transcriptome datasets of Shorea balangeran leaves and basal stem in waterlogged and dry soil	Data in Brief	28	-	2020
3	Diversity and distribution of microalgae in coastal areas of East Java, Indonesia	Biodiversitas Journal of Biological Diversity	21	3	2020
4	Ecological aspects and genetic diversity of Shorea balangeran in two forest types of Muara Kendawangan Nature Reserve, West Kalimantan, Indonesia	Biodiversitas Journal of Biological Diversity	20	2	2019
5	Fingerprinting sengon ( <i>Falcataria moluccana</i> ) accessions resistant to boktor pest and gall rust disease using microsatellite markers	Biodiversitas Journal of Biological Diversity	20	9	2019
6	Identification of chemical compounds in agarwood-producing species <i>Aquilaria malaccensis</i> and <i>Gyrinops versteegii</i>	Journal of Forestry Research	-	-	2019
7	Inability of Polysaccharides of <i>Spirulina Platensis</i> to Protect Hepatocyte Cells Line on <i>Toxoplasma Gondii</i> Infection In Vitro	Journal of Global Pharma Technology	12	01	2019



No	Title	Journal	Volume	Issue	Year
8	Leaf Morphology Traits of Shorea spp in Ex-Situ KHDTK Haurbentes	Media Konservasi	24	2	2019
9	Development of protocols for genomic library construction of Agarwood (Aquilaria malaccensis)	Journal of Biological Diversity	18	3	2017
10	Geographical variation in soil bacterial community structure in tropical forests in Southeast Asia and temperate forests in Japan based on pyrosequencing analysis of 16S rRNA	Genes and genetic Systems	92	1	2017
11	Morphological Characterization of Sengon (Paraserianthes falcataria L. Nielsen) Gamma Radiation Mutation Results	Journal of Tropical Silviculture	08	1	2017

**Involvement in the Professional Associations:**

Organizati on name	Specific role	Level	Period
Masyarakat Silvikultur Indonesia	Member	National	2013 - present





**Dr. Ir. Supriyanto**



**Position:**

Associate Professor

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**Teaching and Research Area:**

Plant physiology and forest biotechnology

**Academic Career:**

Initial academic appointment	Position	Institution	Year
Doctorate/PhD degree	Forest Microbiology	Universite De Nancy I	1991
Undergraduate degree	Forest Management	Gadjah Mada University	1981

**Employment:**

Position	Employer	Period
Lecturer	IPB University	1992 - 2020

**Primary Publications :**

No	Tittle	Journal	Volume	Issue	Year
1	Reconciling Livelihoods and Conservation for Rattan Sustainable Harvesting in Lore Lindu National Park, Indonesia	Small-scale Forestry	-	-	2020
2	Carbon stock assessment using forest canopy density mapper in agroforestry land in Berau, East Kalimantan, Indonesia	Biodiversitas Journal of Biological Diversity	20	9	2019
3	Agroforest diversity and ethnobotanical aspects in two villages of Berau, East Kalimantan, Indonesia	Journal of Biological Diversity (Biodiversitas)	19	2	2018
4	Genetic Diversity Of Pongamia Pinnata (Millettia Pinnata, Aka. Malapari) Populations In Java Island, Indonesia	Journal of Biological Diversity	18	2	2017
5	Oil Content of Malapari (Pongamia pinnata (L.) Pierre) from Java Island as Biodiesel Raw Material)	Journal of Forest Products Research	35	4	2017



No	Tittle	Journal	Volume	Issue	Year
6	Morphological Diversity of Fruits, Seeds and Seedlings of Pongamia (Pongamia pinnata (L.) Pierre) in Java Island)	Jurnal Perbenihan Tanaman Hutan	5	2	2017
7	Morphological and Anatomical Evaluation of Grafted Pinus merkusii	Journal of the Korean Wood Science and Technology	44	6	2016
8	Biodiversity, carbon stocks and community monitoring in traditional agroforestry practices: preliminary results from two investigated villages in Berau, East Kalimantan	Procedia Environmental Sciences	33	-	2016

**Involvement in the Professional Associations:**

Organization name	Specific role	Level	Period
Masyarakat Silvikultur Indonesia	Member	National	2013 - 2020



**Dr. Ir. Irdika Mansur, M.For.Sc**



**Position:**

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**Teaching and Research Area:**

Silviculture, mine reclamation

**Academic Career:**

Initial academic appointment	Position	Institution	Year
Doctorate/PhD degree	Microbiology	University of Kent	2000
Master/MSc degree	Forestry Science	University of Canterbury	1994
Undergraduate degree	Forest Management	IPB University	1988

**Employment:**

Position	Employer	Period
Lecturer	IPB University	1990 - present
Head	Laboratory Unit Excellent Research IPB University	2021 - present

**Primary Publications :**

No	Title	Journal	Volume	Issue	Year
1	Growth of Shorea Leprosula Seedlings Prepared in Combo Nursery Technique to Support Mine Reclamation	Journal Wasian	8	1	2021
2	Selection of organic materials potentially used to enhance bioremediation of acid mine drainage	Journal of Degraded and Mining Lands Management	8	3	2021
3	The Effect Of Cajuput And Citronella Grass As Host Plants On Sandalwood Growth	Media Konservasi	26	2	2021
4	Above-Ground Biomass Estimation of Acacia mangium Willd. in Revegetation Area of Coal Mining	Journal Sylva Lestari	8	1	2020



No	Title	Journal	Volume	Issue	Year
5	Growth Evaluation of Sugar Palm ( <i>Arenga pinnata</i> (Wurmb)) on Post-Mining Land at PT Berau Coal Kalimantan Timur)	Media Konservasi	25	2	2020
6	Effect of Citronella Leaf Waste - Fly Ash Compost on the Growth of <i>Cananga odorata</i>	Jurnal Teknologi Mineral dan Batubara	16	2	2020
7	Study of Cultivation Traditional Technical and Production Java Kenanga ( <i>Cananga odorata</i> f. <i>Macrophylla</i> ) in Blitar	Journal of Tropical Silviculture	10	3	2020
8	The Effect Application of <i>Desmodium ovalifolium</i> Inoculated with Arbuscular Mycorrhizal Fungi on <i>Octomeles sumatrana</i> Miq. Seedling on Post Mining Soil	Jurnal Perbenihan Tanaman Hutan	8	1	2020
9	The Erosion Rate Estimatisation of Citronellagrass ( <i>Cymbopogon nardus</i> L) on Post Mining Land	Journal of Agricultural Engineering	9	1	2019
10	Breeding Techniques of <i>Melalucea cajuputi</i> in Vegetative at Nurseries Coal Company PT Bukit Asam Ltd	Journal of Tropical Silviculture	10	1	2019
11	Effectiveness of Indigenous Arbuscular Mycorrhizal Fungi to the Shoot Cutting Growth of Gosale ( <i>Syzygium malaccense</i> (L.) Merr & L.M Perry)	Journal of Tropical Silviculture	9	3	2018
12	Utilization of AMF and Host Plant to Increase The Growth of Sandalwood Seedlings ( <i>Santalum album</i> Linn.)	Journal of Tropical Silviculture	9	3	2018
13	Utilization of Empty Fruit Bunch and Grass As Compost Raw Material in PT Bukit Asam, South Sumatera	Journal of Tropical Silviculture	9	3	2018
14	Application Arbuscular Mycorrhizal Fungi on <i>Desmodium ovalifolium</i> in Post mining Soil	Jurnal Perbenihan Tanaman Hutan	5	1	2017
15	Integrated post mining landscape for sustainable land use: A case study in South Sumatera, Indonesia	Sustainable Environment Research	27	4	2017



No	Title	Journal	Volume	Issue	Year
16	Diversity Arbuscular Mychorrizal Fungi from Desmodium spp. PT. Cibaliung Sumberdaya, Banten	Journal of Tropical Silviculture	7	3	2016
17	Compost and Mycorrhizal Application on Longkida (Nauclea orientalis) Seedling at Post-Mining Soil PT. ANTAM	Journal of Tropical Silviculture	07	1	2016
18	Utilization of Empty Fruit Bunch Compost on Improving Melaleuca cajuputi at Coal Post-Mining	Journal of Tropical Silviculture	9	3	2016

**Involvement in the Professional Associations:**

Organization name	Specific role	Level	Period
Indonesian Mycorrhizas Association	Chairman Of The Supervisory Board	National	2021- present
Masyarakat Arborikultur Indonesia	Member	National	2021 - present
Indonesian Mycorrhizas Association	Supervisory Board	National	2016 - 2020
Dewan Atsiri Indonesia (DAI)	Head of Program and Empowerment	National	2016 - 2020



**Dr. Ir. Cahyo Wibowo, M.Sc.F.Trop**



**Position:**

Assistant Professor

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**Teaching and Research Area:**

Forest soil science

**Academic Career:**

Initial academic appointment	Position	Institution	Year
Doctorate/PhD degree	Silviculture	IPB University	2006
Master/MSc degree	Silviculture	Universitaet Gottingen	1993
Undergraduate degree	Forest Resource Conservation	IPB University	1985

**Employment:**

Position	Employer	Period
Lecturer	IPB University	1986 - present
Chairman of the Student affairs and Discipline Commission	Departement of Silviculture	2017 - 2018

**Primary Publications :**

No	Title	Journal	Volume	Issue	Year
1	Influence Of Arbuscular Mycorrhizal Fungi And Soil Ameliorants On The Mycorrhizal Colonization, Chlorophyll Content, And Performance Growth Of Two Tropical Tree Seedlings Grown In Soil Media With High Aluminum Content	Malaysian Applied Biology	49	1	2020
2	The Growth improvement of Falcataria moluccana inoculated with MycoSilvi grown in post-mining silica sand soil medium amended with soil ameliorants	Biodiversitas Journal of Biological Diversity	21	1	2020
3	The Role of MycoSilvi, Lime, and Compost on The Growth of Balsa (Ochroma bicolor Rowlee.) Seedling in Post Silica Sand Mine Media	Journal of Sylva Indonesiana (JSI)	3	1	2020



No	Title	Journal	Volume	Issue	Year
4	Arrangement of blocks and vegetation of urban forest based on land cover and soil properties to increase the functions of recreation, soil and water conservation in Pondok Labu, South Jakarta	IOP Conf. Series: Earth and Environmental Science	203	208	2018
5	Influence of Adventitious Roots and Planting Media on Growth of Branch Cutting of Betung Bamboo ( <i>Dendrocalamus asper</i> Schult Backer ex Heyne)	Journal of Tropical Silviculture	9	02	2018
6	Structure and Distribution of Rasamala ( <i>Altingia excelsa</i> Noronha) and Jamuju ( <i>Dacrycarpus imbricatus</i> Blume de Laub.) in Gunung Gede Pangrango National Park. Case Study of Cimande and Selabintana Resort	International Journal of Sciences: Basic and Applied Research (IJSBAR)	40	1	2018
7	The Role of Arthropodas in Ecotone and Oil Palm Ecosystems	Journal of Tropical Silviculture	08	02	2017

**Involvement in the Professional Associations:**

Organization name	Specific role	Level	Period
Masyarakat Silvikultur Indonesia	Member	National	2013 - present



**Ir. Andi Sukendro, M.Si**



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Assistant

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**Teaching and Research Area:**

Silviculture; Forest plantation propagation technology

**Academic Career:**

Initial academic appointment	Position	Institution	Year
Master/MSc degree	Forest Science	IPB University	2001
Undergraduate degree	Forest Management	IPB University	1986

**Employment:**

Position	Employer	Period
Lecturer	IPB University	1987 - present
Secretary of Teaching Farm	Faculty of Forestry and Environment	2016 - present

**Primary Publications :**

No	Title	Journal	Volume	Issue	Year
1	Influence Fertilization on Length Branch of Kesambi ( <i>Schleichera oleosa</i> (Lour.) Merr.) and Productivity of Shellac in KPH Probolinggo	Journal of Tropical Silviculture	11	3	2020
2	Influence Of Arbuscular Mycorrhizal Fungi And Soil Ameliorants On The Mycorrhizal Colonization, Chlorophyll Content, And Performance Growth Of Two Tropical Tree Seedlings Grown In Soil Media With High Aluminum Content	Malaysian Applied Biology	49	1	2020
3	The Growth improvement of <i>Falcataria moluccana</i> inoculated with MycoSilvi grown in post-mining silica sand soil medium amended with soil ameliorants	Biodiversitas Journal of Biological Diversity	21	1	2020





No	Title	Journal	Volume	Issue	Year
4	The Role of MycoSilvi, Lime, and Compost on The Growth of Balsa ( <i>Ochroma bicolor</i> Rowlee.) Seedling in Post Silica Sand Mine Media	Journal of Sylva Indonesiana (JSI)	3	1	2020
5	Vegetative Propagation on <i>Pericopsis mooniana</i> THW	Journal of Tropical Silviculture	09	02	2018

**Involvement in the Professional Associations:**

Organization name	Specific role	Level	Period
Masyarakat Silvikultur Indonesia	Member	National	2015 - present



**Dr. Ir. Arum Sekar Wulandari, M.S.**



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Assistant Professor

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**Teaching and Research Area:**

Silviculture; Forest plantation propagation technology

**Academic Career:**

Initial academic appointment	Position	Institution	Year
Doctorate/PhD degree	Biology	IPB University	2000
Master/MSc degree	Phytopathology	IPB University	1992
Undergraduate degree	Pests and Plant Diseases	IPB University	1989

**Employment:**

Position	Employer	Period
Lecturer	IPB University	1986 - present
Chairman of the Education Commission	Departement of Silviculture	2018 - present

**Primary Publications :**

No	Title	Journal	Volume	Issue	Year
1	Physiological Response of Mindi ( <i>Melia azedarah</i> L.) and Soybean ( <i>Glycine max</i> (L.) Merrill) in Organic Agroforestry	Journal of Tropical Silviculture	11	1	2021
2	Arbuscular mycorrhizal fungi and Rhizobium enhance the growth of <i>Samanea saman</i> (trembesi) planted on gold-mine tailings in Pongkor, West Java, Indonesia	Biodiversitas Journal of Biological Diversity	21	2	2020
3	The Physical Quality and Breaking Dormancy Treatment of <i>Pericopsis mooniana</i> (Thw.) Thw. Seeds	Journal of Tropical Silviculture	10	3	2020
4	Growth <i>Shorea selanica</i> and <i>Melinjo</i> ( <i>Gnetum gnemon</i> Linn.) at Planting Media With Different Cocopeat Concentrations	TALENTA Conference Series: Agriculturan & Natural Resource (ANR)	3	1	2020



No	Title	Journal	Volume	Issue	Year
5	Morphology and Physical Quality of Cananga Seeds ( <i>Cananga odorata</i> (Lam.) Hook.f. & Thomson forma genuina)	Journal of Tropical Silviculture	10	2	2019
6	The Effect of Rooting and Acclimatization Media on the Success of Acclimatization of Tembesu ( <i>Fagraea fragrans</i> (Roxb.) Miq.)	Jurnal PerbenihanTanaman Hutan	7	1	2019
7	Effect of Periods and Media Storage on Viability of Cananga Seed ( <i>Cananga odorata</i> (Lam.) Hook.f. & Thomson forma genuina)	Journal Sylva Lestari	7	3	2019
8	Growth of typha grass ( <i>Typha angustifolia</i> ) on gold-mine tailings with application of arbuscular mycorrhiza fungi	Biodiversitas Journal of Biological Diversity	19	2	2018
9	The growth response of Saninten ( <i>Castanopsis argentea</i> (Blume) A.DC.) In Vitro by adding Plant Growth Regulator BAP and IAA	Journal of Tropical Silviculture	8	3	2017
10	Combination Between Root Pruning and Inoculation Time of Ectomycorrhizal Fungi on Improving Growth of Melinjo ( <i>Gnetum gnemon</i> L) Seedling	Journal of Tropical Silviculture	7	3	2016
11	The Effect of Root Stimulant on Ectomycorrhizal Colonization of <i>Gnetum</i> Seedlings ( <i>Gnetum gnemon</i> L.)	Journal of Tropical Silviculture	7	3	2016

**Involvement in the Professional Associations:**

Organization name	Specific role	Level	Period
Masyarakat Silvikultur Indonesia	Member	National	2015 - present
Indonesian Mycorrhizas Association	Member	National	2018 - present



**Dr. Adisti Permatasari Putri Hartoyo, S.Hut., M.Si.**



**Position:**

Instructor

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**Teaching and Research Area:**

Agroforestry science; Silviculture; Community forest monitoring

**Academic Career:**

Initial academic appointment	Position	Institution	Year
Doctorate/PhD degree	Tropical Silviculture	IPB University	2018
Master/MSc degree	Tropical Silviculture	IPB University	2012
Undergraduate degree	Silviculture	IPB University	2013

**Employment:**

Position	Employer	Period
Lecturer	IPB University	2015 - present

**Primary Publications :**

No	Title	Journal	Volume	Issue	Year
1.	Oil palm empty fruit bunch valorization for activated and non-activated carbon nanoparticles and its heavy-metal-removal efficiency	Water Science and Technology	83	11	2021
2.	Normalized DifferenceVegetation Index (NDVI) analysis for vegetation cover in Leuser Ecosystem area, Sumatra, Indonesia	Biodiversitas Journal of Biological Diversity	22	3	2021
3.	The indigenous uses of plants from Siberut, Mentawai, Indonesia	Ethnobotany Research and Applications	22	-	2021
4.	Impact of agroforestry on the quality of Ciliwung Hulu Watershed, West Java	Journal of Watershed Management Research	4	2	2020
5.	Lecturer service program to enhance village potential development based on agricultural in Cihideung Udik Village, Bogor Regency	Journal of the Center for Community Innovation	2	1	2020



No	Title	Journal	Volume	Issue	Year
6.	Carbon stock assessment using forest canopy density mapper in agroforestry land in Berau, East Kalimantan, Indonesia	Biodiversitas Journal of Biological Diversity	20	9	2019
7.	Vegetation Biodiversity in Agroforestry Practice and Their associated Ecosystem Functions in Meru Betiri National Park, East Java	Journal of Tropical Forests	7	2	2019
8.	Vegetation Biodiversity in Agroforest System in Sungai Sekonyer Village, West Kotawaringin Regency, Central Kalimantan	Journal of Tropical Silviculture	10	2	2019
9.	Agroforest diversity and ethnobotanical aspects in two villages of Berau, East Kalimantan, Indonesia	Biodiversitas Journal of Biological Diversity	19	2	2018
10.	Biodiversity, carbon stocks and community monitoring in traditional agroforestry practices: preliminary results from two investigated villages in Berau, East Kalimantan	Procedia Environmental Sciences	33	-	2016

**Involvement in the Professional Associations:**

Organization name	Specific role	Level	Period
Masyarakat Silvikultur Indonesia	Member	National	2017-present



**Fifi Gus Dwiyanti, S.Hut., M.Agr, Ph.D**



**Position:**

Assistant Instructor

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**Teaching and Research Area:**

Forest genetic; dendrology

**Academic Career:**

Initial academic appointment	Position	Institution	Year
Doctorate/PhD degree	Forest Genetics	Ehime University	2015
Master/MSc degree	Forest Genetics	Ehime University	2012
Undergraduate degree	Silviculture	IPB University	2009

**Employment:**

Position	Employer	Period
Lecturer	IPB University	1985-present
Assistant Vice Head of Division Academic Development	IPB University	2021-present

**Primary Publications :**

No	Title	Journal	Volume	Issue	Year
1.	Chloroplast Genome Draft of <i>Dryobalanops aromatica</i> Generated Using Oxford Nanopore Technology and Its Potential Application for Phylogenetic Study	Forests	12	11	2021
2.	DNA Isolation Success Rates from Dried and Fresh Wood Samples of Selected 20 Tropical Wood Tree Species for Possible Consideration in Forensic Forestry	Science & Justice	61	5	2021
3.	Generating long-read sequences using Oxford Nanopore Technology from <i>Diospyros celebica</i> genomic DNA	BMC Research Notes	14	1	2021
4.	Use of a Pin-penetration Wood Density Meter to Determine the Density of 25 Indonesian Species	BioResource	16	2	2021



No	Tittle	Journal	Volume	Issue	Year
5.	Comparison of several methods of stands inventory prior to logging towards the yield volume of mangrove forest in Bintuni Bay, West Papua Province, Indonesia	Biodiversitas Journal of Biological Diversity	21	4	2020
6.	De novo assembly of transcriptome dataset from leaves of <i>Dryobalanops aromatica</i> (Syn. <i>Dryobalanops sumatrensis</i> ) seedlings grown in two contrasting potting media	BMC Research Notes	13	1	2020
7.	Discrimination and Determination of Extractive Content of Ebony ( <i>Diospyros celebica</i> Bakh.) from Celebes Island by Near-Infrared Spectroscopy	Forest	12	6	2020
8.	Genetic Variation and Genetic Structure of Two Closely Related Dipterocarp Species, <i>Dryobalanops aromatica</i> C.F. Gaertn. and <i>D. beccarii</i> Dyer	Sibbaldia: The Journal of Botanic Garden Horticulture	16	2018	2018
9.	Genetic variation and structure of Ubame oak, <i>Quercus phillyraeoides</i> , in Japan revealed by chloroplast DNA and nuclear microsatellite markers	Genes & Genetic Systems	93	2	2018

**Involvement in the Professional Associations:**

Organization name	Specific role	Level	Period
Masyarakat Silvikultur Indonesia	Member	National	2020 - present
Masyarakat Bioinformatika dan Biodiversitas Indonesia	Member	National	2020 - present
International Society of Arboriculture	Associate	International	2021 - present
Masyarakat Arborikultur Indonesia	Secretary	National	2021 - present



**IPB University**  
— Bogor Indonesia —

**Silviculture Study Programme  
Department of Silviculture  
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# **FOREST ECOLOGY DIVISION**





**Prof. Dr. Ir. Cecep Kusmana, MS**



**Position:**

Professor in Forest Ecology

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**Teaching and Research Area:**

Mangrove Forest Ecology

**Academic Career:**

Initial academic appointment	Position	Institution	Year
Doctorate/PhD degree	Forestry Science	Kyoto University	1993
Master/MSc degree	Natural Resources and Environmental Management	IPB University	1988
Undergraduate degree	Forestry	IPB University	1983

**Employment:**

Position	Employer	Period
Lecturer	IPB University	1985-present
Head of Forest Ecology Division	Departement of Silviculture	2019-present
Head of Master Program in Natural Resources and Environmental Management	Graduate School	2016-present
Head of S2/S3 PSL Study Program	Study Program in Natural Resources and Environment Management	2016-present
Member of Commission C	Board of Professors	2017-2020
Chairman of Commission III	Board of Trustees	2014-2019
Chairman of Commission B	Academic Senate	2014-2019

**Primary Publications :**

No	Tittle	Journal	Volume	Issue	Year
1	Effects of permeable barriers on totalecosystem carbon stocks of mangroveforestsand abandoned ponds in Demak District, Central Java, Indonesia	Biodiversitas Journal of Biological Diversity	21	11	2020
2	Sustainable status of mangrove forest ecosystem management in Langsa City, Aceh, Indonesia	AACL Bioflux	13	1	2020
3.	Short Communication: Diversity and distribution of figs (Ficus spp.) across altitudes in Gunung Tilu, Kuningan, West Java, Indonesia	Biodiversitas Journal of Biological Diversity	20	6	2019



No	Tittle	Journal	Volume	Issue	Year
4.	Short Communication: Population and stand structure of <i>Cinnamomum sintoc</i> in the Low Land Forest of Mount Ciremai National Park, West Java, Indonesia	Biodiversitas Journal of Biological Diversity	20	4	2019
5.	The Carbon Conservation of Mangrove Ecosystem In Indonesia	Biotropia The Southeast Asian Journal of Tropical Biology	26	3	2019
6.	Water quality, hematological parameters and biological performances of Snakehead fish ( <i>Channa striata</i> ) reared in different stocking densities in a recirculating aquaculture system	AACL Bioflux	12	5	2019
7.	Coastal community preference on the utilization of mangrove ecosystem and channelbar in Indramayu, Indonesia	AACL Bioflux	11	3	2018
8.	Allometric models for above- and below-ground biomass of <i>Sonneratia</i> spp.	Global Ecology and Conservation	15	-	2018
9.	Food Insecurity Under Climate Change and Adaptation of Farm Households in Sumedang District, West Java Province, Indonesia	International Journal of Engineering Sciences & Research Technology	6	1	2017
10.	Genetic variation of the mangrove species <i>Avicennia marina</i> in heavy metal polluted estuaries of Cilegon Industrial Area, Indonesia	Journal of Biological Diversity	18	3	2017
11.	Growth performance of <i>Bruguiera gymnorrhiza</i> derived from cut-propagule seedling	Biodiversitas Journal of Biological Diversity	19	1	2017
12.	Institutional resilience of pesantren in mangrove forest management in Kangean Island, East Java Province, Indonesia	AACL Bioflux	10	6	2017
13.	Lesson Learned From Mangrove Rehabilitation Program in Indonesia	Journal of Natural Resources and Environmental Management	7	1	2017
14.	Oil Contamination in Mangrove Ecosystems: Impacts and Rehabilitations	AACL Bioflux	10	6	2017
15.	Relation between Preferences Community Land Use with Conservation Village Model Development at Mount Rinjani National Park	International Journal of Sciences: Basic and Applied Research (IJSBAR)	31	1	2017
16.	Spatial analysis of mangrove deforestation and mangrove rehabilitation directive in Indramayu Regency, West Java, Indonesia	AACL Bioflux	10	6	2017



No	Tittle	Journal	Volume	Issue	Year
17.	Species and Structure Compoposition of Nature Disturbed Forest Stand in Papandayan Mountain, West Java Indonesia	International Journal of Sciences: Basic and Applied Research (IJSBAR)	31	2	2017
18.	Species Composition and Structure of Secondary Mangrove Forest in Rawa Timur, Central Java, Indonesia	AACL Bioflux	10	4	2017
19.	The carbon conservation of mangrove ecosystem applied REDD program	Regional Studies in Marine Science	16	-	2017
20.	Characteristics of Surian Flower, Fruit and Seed Productions (Toona sinensis (A. Juss.) M. Roem.) in Sumedang, West Java	Tropical Life Sciences Research	21	1	2016
21.	Determinants of Smallholder Farm Households' Adaptation Responses to Climate Change Induced Rice Insufficiency at Household Level in Sumedang District, Indonesia	International Journal of Sciences: Basic and Applied Research (IJSBAR)	29	3	2016
22.	Evaluating the level of sustainability of privately managed forest in Bogor, Indonesia	Journal of Biological Diversity	17	1	2016
23.	Land use, land cover and mangrove diversity in the Indonesian outermost small islands of Rote and nDana	Advances in Environmental Sciences - International Journal of the Bioflux Society	8	2	2016
24.	Mangrove Resource Uses by Local Community in Indonesia	Journal of Natural Resources and Environmental Management	6	2	2016
25.	Potential of Lonkida (Nauclea orientalis L.) for Phytoremediation of Acid Mined Drainage at PT. Bukit Asam Tbk. (Persero), Indonesia	Research Journal of Botany	11	1	2016
26.	Rhizophora Mucronata Seedling Growth Model at Different Spacings Using Guludan Planting Technique	International Journal of Engineering Sciences & Research Technology	5	12	2016

**Involvement in the Professional Associations:**

Organization name	Specific role	Level	Period
Masyarakat Silvikultur Indonesia	Member	National	2016-present



**Dr.Ir. Istomo MS.**



**Position:**

Associate Professor

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**Teaching and Research Area:**

Peat-Swamp Forest Ecology

**Academic Career:**

Initial academic appointment	Position	Institution	Year
Doctorate/PhD degree	Forestry Science	IPB University	2002
Master/MSc degree	Forestry Science	IPB University	1994
Undergraduate degree	Forest Management	IPB University	1987

**Employment:**

Position	Employer	Period
Lecturer	IPB University	1989 - present

**Primary Publications :**

No	Title	Journal	Volume	Issue	Year
1.	Stand Structure and Distribution of Terentang ( <i>Camposperma auriculata</i> ) and Mendarahan ( <i>Knema laurina</i> ) in Peat Swamp Forest	Journal of Tropical Silviculture	12	1	2021
2.	Association of Ramin ( <i>Gonystylus bancanus</i> (Miq.) Kurz) with Dominan Species in IUPHHK-HA PT Diamond Raya Timber, Riau	Journal of Tropical Silviculture	11	2	2020
3.	Comparison of several methods of stands inventory prior to logging towards the yield volume of mangrove forest in Bintuni Bay, West Papua Province, Indonesia	Biodiversitas Journal of Biological Diversity	21	4	2020
4.	The Development of Stand Growth after Logging in IUPHHK-HA PT Diamond Raya Timber Areal	Journal of Tropical Silviculture	11	1	2020
5.	Composition of Types and Structures Establish Various Forest Formations at Bama Resort Baluran National Park, East Java	Journal of Tropical Silviculture	10	2	2019



No	Title	Journal	Volume	Issue	Year
6.	Opportunities and challenges for an Indonesian forest monitoring network	Annal of Forest Science	76	54	2019
7.	Distribution and Habitat Characteristics of Rasamala ( <i>Altingia excelsa</i> Noronha) in Halimun Salak Mountain National Park	Journal of Natural Resources and Environmental Management	9	3	2019
8.	Mangrove Diversity in Production Forest Management Unit (FMU) Bulungan Unit VIII North Kalimantan	Media Konservasi	23	3	2018
9.	Potential Estimation of Seedling Recruitment by Seed Trees in Mangrove Forest IUPHHK-HA PT. BUMWI Bintuni Bay, West Papua	Journal of Tropical Silviculture	9	1	2018
10.	Structure and Distribution of Rasamala ( <i>Altingia excelsa</i> Noronha) and Jamuju ( <i>Dacrycarpus imbricatus</i> Blume de Laub.) in Gunung Gede Pangrango National Park. Case Study of Cimande and Selabintana Resort	International Journal of Sciences: Basic and Applied Research (IJSBAR)	40	1	2018
11.	Biomass potential on several mangrove planting models in Java Island, Indonesia	AACL Bioflux	10	4	2017
12.	Growth performance of <i>Bruguiera gymnorrhiza</i> derived from cut-propagule seedling	Biodiversitas Journal of Biological Diversity	19	1	2017
13.	Growth Development of Logged-Over Stand in the IUPHHK-HA Area of PT. Barito Putera, Central Kalimantan	Journal of Tropical Silviculture	8	1	2017
14.	Above ground carbon storage potential of stand of <i>Acacia nilotica</i> L. (Willd) ex. Del. in Baluran National Park, East Java	Journal of Natural Resources and Environmental Management	7	2	2017
15.	The Species Structure and Composition Stand with Root System of Plants in Karst Area in Bantimurung-Bulusaraung National Park, Resort Pattunuang-Karaenta	Journal of Tropical Silviculture	7	1	2016

**Involvement in the Professional Associations:**

Organization name	Specific role	Level	Period
Masyarakat Silvikultur Indonesia	Member	National	2017-present



**Dr.Ir. Basuki Wasis MS**



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**Teaching and Research Area:**

Forest soil science

**Academic Career:**

Initial academic appointment	Position	Institution	Year
Doctorate/PhD degree	Quality of Growing Places (Silviculture)	IPB University	2006
Master/MSc degree	Soil Science	IPB University	1995
Undergraduate degree	Forest Management	IPB University	1990

**Employment:**

Position	Employer	Period
Lecturer	IPB University	1991 - present

**Primary Publications :**

No	Title	Journal	Volume	Issue	Year
1.	Biomass and carbon approximation model on burnt peatland in Eks- Milion Ha, Central Kalimantan Province of Indonesia	Archives of Agriculture and Environmental Science	5	4	2020
2.	Impact of forest land cover on runoff, erosion and sedimentation in the Karai Watershed, Simalungun Regency, North Sumatra Province, Indonesia	Archives of Agriculture and Environmental Science	5	1	2020
3.	Population of Macrofauna, Mesofauna, and Ectomycorrhizae's Fruit Body at Shorea leprosula stand in Gunung Dahu Forest Research, Bogor	Journal of Forest and Nature Conservation Research	17	1	2020
4.	Carbon Stock Potential in Rehabilitation Land at Gunung Mas District, Central Kalimantan	Media Konservasi	25	2	2020



No	Title	Journal	Volume	Issue	Year
5.	Analysis of environmental damage and environmental economic valuation on tropical rain forest destruction in Simalungun Regency, North Sumatera Province, Indonesia	Archives of Agriculture and Environmental Science	4	3	2019
6.	Application of coconut shell charcoal and NPK fertilizer toward Acacia mangium growth on the soil of ex-limestone mining in Bogor, Indonesia	Archives of Agriculture and Environmental Science	4	1	2019
7.	Impact of Forest Fire on Flora and Mineral Soil Properties in Forest Area of Pelalawan District, Riau Province	Journal of Tropical Silviculture	10	1	2019
8.	Effectiveness of fulvic acid to the growth of Swietenia macrophylla King. with addition phosphate at post mining land in Indonesia	Archives of Agriculture and Environmental Science	4	2	2019
9.	Impacts of peat fire on soil flora and fauna, soil properties and environmental damage in Riau Province, Indonesia	Biodiversitas Journal of Biological Diversity	20	6	2019
10.	Application of Coconut Shells Charcoal and Cow Feces (Bokashi) on the Growth of Acacia (Acacia mangium Willd.) at the Postmining Limestone Soil	Journal of Tropical Silviculture	10	1	2019
11.	Growth of Sengon on Medium Used in Sand Mine by Granting Subsoil and Coconut Shell Charcoal	Journal of Tropical Silviculture	10	2	2019
12.	Growth of Paraserianthes falcataria (L.) Nielsen Seedling on Limestone Mining Site's Soil Added with Compost and NPK Fertilizer	Journal of Tropical Silviculture	9	1	2019
13.	Analysis of economic valuation of environmental damage due to sand mine in Gumulung Tonggoh, Cirebon District, West Java Province, Indonesia	Archives of Agriculture and Environmental Science	3	4	2018
14.	Carbon Stock Potential of Nabundong Forest KPH Region VI North Sumatera	Indonesian Journal of Agricultural Sciences	23	1	2018





No	Title	Journal	Volume	Issue	Year
15.	Growth of <i>Agathis dammara</i> (Lamb. Rich.) seedling on gold tailing with addition of coconut shell charcoal and compost	Archives of Agriculture and Environmental Science	3	2	2018
16.	Impact of bauxite mine to natural forest biomass and soil properties in Kas Island, Riau Island Province in Indonesia	Archives of Agriculture and Environmental Science	3	3	2018
17.	Impact of land and forest fire on soil fauna diversity in several land cover in Jambi Province, Indonesia	Biodiversitas Journal of Biological Diversity	19	2	2018
18.	Impact on Peatland Canal Bliocking of Soil Properties in The EKS PLG Million Ha of Central Kalimantan Province	Advance Research in Agriculture and Veterinary Science	5	3	2018
19.	Analysis of Revegetation Plant Growth in Post-mining Silica Land Holcim Educational Forest (HEF) Cibadak, Sukabumi, Jawa Barat	Journal of Natural Resources and Environmental Management	7	1	2017
20.	Growth response of mahogany seedling ( <i>Swietenia macrophylla</i> King.) to addition of coconut shell charcoal and compost on ex-sand mining site of West Java Province in Indonesia	Archives of Agriculture and Environmental Science	2	3	2017
21.	Growth for <i>Gmelina</i> ( <i>Gmelina arborea</i> Roxb.) on the Post Mine Silica with the Addition of Goat Manure and Wood Charcoal	Journal of Tropical Silviculture	8	3	2017
22.	Adaptability Study of <i>Samama</i> ( <i>Anthocephalus macrophyllus</i> ) on Several Lead (Pb) Level	Journal of Natural Resources and Environmental Management	6	2	2016

**Involvement in the Professional Associations:**

Organization name	Specific role	Level	Period
Masyarakat Silvikultur Indonesia	Member	National	2013-present





**Dr.Ir. Omo Rusdiana, M.Sc.forest.trop**



**Position:**

Associate Professor

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**Teaching and Research Area:**

Soil and water conservation

**Academic Career:**

Initial academic appointment	Position	Institution	Year
Doctorate/PhD degree	Forestry Science	IPB University	2007
Master/MSc degree	Silviculture	University of Göttingen	1993
Undergraduate degree	Forest Management	IPB University	1987

**Employment:**

Position	Employer	Period
Lecturer	IPB University	1989 - present
Head	Department of Silviculture	2021 - present
Secretary	Center for Planning & Regional Development Assessment	2016 - 2021

**Primary Publications :**

No	Title	Journal	Volume	Issue	Year
1.	Direction for Development of Community Forests for Handling Critical Land in Sukabumi Regency, West Java Province	Tataloka	23	3	2021
2.	The Role of the Forestry Subsector in the Regional Development of West Java Province: Input-Output and Clustering Approach	Journal of Regional and Rural Development Planning	4	2	2020
3.	Ecosystem services-based mangrove management strategies in Indonesia: a review	AAFL Bioflux	12	1	2019
4.	Suitability of <i>Durio zibethinus</i> Murr. and <i>Nephelium lappaceum</i> L. on the Utilization Block at Menumbing Mountain Grand Forest Park, West Bangka	Journal of Tropical Silviculture	9	1	2018



No	Title	Journal	Volume	Issue	Year
5.	The Changing Dynamic and Space Utilization Policy in Bogor District, West Java Province	Journal of Env. Engineering & Waste Management	9	1	2017
6.	The Environmental Carrying Capacity of Ciliwung Upstream Watershed in Bogor District	Journal of Env. Engineering & Waste Management	2	1	2017
7.	Mangrove Species Compotition and Community Knowledge of Mangrove Area in Sayoang Village, Distric of South Halmahera	Journal of Tropical Silviculture	8	1	2017
8.	Optimization Of Proposed Changes Of Forest Area Within The Province Spatial Plan (RTRWP) In East Kalimantan Province	Journal of Env. Engineering & Waste Management	2	1	2017
9.	Forestry and Agriculture Development Potential of Mahakam Ulu Regency, East Kalimantan Province	Journal of Regional and Rural Development Planning	1	2	2017
10.	Community Types of Dryland Forest Within The Sentajo Protected Forest, Kuantan Singingi Regency, Riau Province	Journal of Tropical Silviculture	8	2	2017
11.	Characteristics of Watershed For Determination of Critical Land Management: Application of Model Of Soil And Water Assesment Tool In Sub Watershed Ciseel, Watershed Citanduy, West Java Province, Indonesia	Journal of Environment and Earth Science	6	1	2016
12.	The Growth of Bakau Kurap ( <i>Rhizophora stylosa</i> Griff.) at Muara Mangrove Nursery, Teluk Naga, Tangerang	Journal of Tropical Silviculture	7	1	2016
13.	Characteristics of Watershed For Determination of Critical Land Management: Application of Model Of Soil And Water Assesment Tool In Sub Watershed Ciseel, Watershed Citanduy, West Java Province, Indonesia	Journal of Environment and Earth Science	6	1	2016
14.	Study on Community's Land Allocation in Long Pahangai District	Indonesian Journal of Electrical Engineering and Computer Science	3	3	2016

**Involvement in the Professional Associations:**

Organization name	Specific role	Level	Period
Masyarakat Silvikultur Indonesia	Member	National	2013-present



**Dr.Ir. Yadi Setiadi, M.Sc**



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**Teaching and Research Area:**

Forest ecology; Post-mining rehabilitation

**Academic Career:**

Initial academic appointment	Position	Institution	Year
Doctorate/PhD degree	Environmental Microbiology	University of Kent	1995
Master/MSc degree	Forest Biological Science	University of Philippines	1985
Undergraduate degree	Forest Management	IPB University	1979

**Employment:**

Position	Employer	Period
Lecturer	IPB University	1980 - present

**Primary Publications :**

No	Tittle	Journal	Volume	Issue	Year
1.	Response of Gmelina arborea Roxb. seedling growth to media planting and biostimulant amendment in IPB permanent nursery	Journal of Tropical Silviculture	10	1	2019
2.	Detection of Potential Aluminum Phytotoxicity on Toxic Land with Sorgum Bioassay	Journal of Tropical Silviculture	9	3	2018
3.	Jabon (Anthocephalus cadamba Roxb) Potency For Remediating Lead (PB) Toxicity Under Nutrient Culture Condition	Biotropia The Southeast Asian Journal of Tropical Biology	25	1	2018
4.	Response of Angsana (Pterocarpus indicus Willd.) seedling on growing media, lateral roots cutting, and cow's urine	Journal of Tropical Silviculture	8	3	2017



No	Tittle	Journal	Volume	Issue	Year
5.	Adaptability Trial of Paspalum conjugatum Berg, Setaria splendida Stapf and Vetiveria zizanooides (L.) Nash on Aluminum Toxicity	Journal of Tropical Silviculture	7	3	2016
6.	The Growth Response of Gmelina arborea Roxb. by Growth Stimulant at Nursery Permanen Dramaga IPB	Journal of Tropical Silviculture	7	2	2016

**Involvement in the Professional Associations:**

Organization name	Specific role	Level	Period
Masyarakat Silvikultur Indonesia	Member	National	2016-present



**Dr.Ir. Iwan Hilwan, MS**



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**Teaching and Research Area:**

Forest botany; dendrology

**Academic Career:**

Initial academic appointment	Position	Institution	Year
Doctorate/PhD degree	Tropical Silviculture	IPB University	2012
Master/MSc degree	Natural Resources and Environmental Management	IPB University	1992
Undergraduate degree	Forest Management	IPB University	1985

**Employment:**

Position	Employer	Period
Lecturer	IPB University	1980 - present
Secretary	Departemnet of Silviculture	2013 - 2018

**Primary Publications :**

No	Tittle	Journal	Volume	Issue	Year
1.	Analysis of Constructed Swamp Forest Vegetation as A Phitoremediation Agent in Coal Mining, South Kalimantan	Media Konservasi	24	1	2019
2.	Response of Gmelina arborea Roxb. seedling growth to media planting and biostimulant amendment in IPB permanent nursery	Journal of Tropical Silviculture	10	1	2019
3.	Land Rehabilitation on Post-fire Area with Different Types of Soil in Gunung Mas Regency, Central Kalimantan	Media Konservasi	24	1	2019
4.	The Diversity of Plant and Carbon Stock in Various Types of Land Use in Pesisir Barat Regency of Lampung Province	Journal of Tropical Silviculture	9	3	2018



No	Title	Journal	Volume	Issue	Year
5.	Distribution Pattern and Regeneration of Saninten ( <i>Castanopsis argantea</i> Blume) in Selabintana Resort, Gunung Gede Pangrango National Park	Journal of Tropical Silviculture	9	1	2018
6.	Ethnobotanical Study of Plants Used by People in Hiang Indigenous Forest Kerinci, Jambi	Journal of Tropical Life Science	7	2	2017
7.	Response of Angsana ( <i>Pterocarpus indicus</i> Willd.) seedling on growing media, lateral roots cutting, and cow's urine	Journal of Tropical Silviculture	8	3	2017

**Involvement in the Professional Associations:**

Organization name	Specific role	Level	Period
Masyarakat Silvikultur Indonesia	Member	National	2013 - present
International Society of Arboriculture	Member	Internasional	2017 - present



**Bayu Winata, S.Hut., M.Si**



**Position:**

Instructor

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**Teaching and Research Area:**

Forest ecology

**Academic Career:**

Initial academic appointment	Position	Institution	Year
Master/MSc degree	Tropical Silviculture	IPB University	2016
Undergraduate degree	Silviculture	IPB University	2014

**Employment:**

Position	Employer	Period
Lecturer	IPB University	2018 - present
Student Commission	Departement of Silviculture	2021 - present

**Primary Publications :**

No	Tittle	Journal	Volume	Issue	Year
1.	Analysis of environmental damage and environmental economic valuation on tropical rain forest destruction in Simalungun Regency, North Sumatera Province, Indonesia	Archives of Agriculture and Environmental Science	4	3	2019
2.	Application of coconut shell charcoal and NPK fertilizer toward Acacia mangium growth on the soil of ex-limestone mining in Bogor, Indonesia	Archives of Agriculture and Environmental Science	4	1	2019
3.	Effect of Lead (PB) toward the Growth and Adaptability of Acacia mangium on the Gold Tailing	Journal of Tropical Silviculture	10	2	2019
4.	Growth of Agathis dammara (Lamb. Rich.) seedling on gold tailing with addition of coconut shell charcoal and compost	Archives of Agriculture and Environmental Science	3	2	2018
5.	Impact of bauxite mine to natural forest biomass and soil properties in Kas Island, Riau Island Province in Indonesia	Archives of Agriculture and Environmental Science	3	3	2018
6.	Impact of land and forest fire on soil fauna diversity in several land cover in Jambi Province, Indonesia	Biodiversitas Journal of Biological Diversity	19	2	2018



**IPB University**  
— Bogor Indonesia —

**Silviculture Study Programme  
Departement of Silviculture  
Faculty of Forestry and Environment**

# **FOREST PROTECTION DIVISION**





**Prof.Dr.Ir. Bambang Hero Saharjo, M.Agr**



**Position:**

Professor

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**Teaching and Research Area:**

Forest Fire and Environmenta

**Academic Career:**

Initial academic appointment	Position	Institution	Year
Doctorate/PhD degree	Forest Fire	Kyoto University	1999
Master/MSc degree	Forest Fire	Kyoto University	1996
Undergraduate degree	Forest Management	IPB University	1987

**Employment:**

Position	Employer	Period
Lecturer	IPB University	1990 - present
Head of Forest Protection Division	Departement of Silviculture	2019 - present
Member of Commission B	Council of Professors	2017-2020
Dean	Faculty of Forestry and Environment	2011-2015
Head	Department of Silviculture	2010-2011

**Primary Publications :**

No	Title	Journal	Volume	Issue	Year
1.	Bridging the Services of the WMO Vegetation Fire and Smoke Pollution Warning Advisory and Assessment System (VFSP-WAS) to Politics, Policies and Land Management: the South East Asia Example and Global Visions	Biodiversidade Brasileira - BioBrasil	11	2	2021
2.	Distribution of carbon stocks in drainage areas on peatlands of Sungai Tohor Village, Meranti Islands District, Indonesia	Biodiversitas	22	11	2021



No	Title	Journal	Volume	Issue	Year
3.	Drainage canal impacts on smoke aerosol emissions for Indonesian peatland and non-peatland fires	Environmental Research Letters	16	9	2021
4.	Forest and Land Fires on Rupert Island, Riau	Journal of Tropical Silviculture	12	2	2021
5.	Forest and Land Fires Control in KPH Sumedang	Journal of Tropical Silviculture	12	1	2021
6.	The Role of Community in Forest Fire Prevention at BKPH Slarang, KPH Pematang	Journal of Tropical Silviculture	12	2	2021
7.	Beyond slash-and-burn: The roles of human activities, altered hydrology and fuels in peat fires in Central Kalimantan, Indonesia	Singapore Journal of Tropical Geography	41	2	2020
8.	Forest and Land Fire Prevention Strategies in the Forest Management Unit Kubu Raya, South Ketapang, and North Ketapang in West Kalimantan Province	Indonesian Journal of Agricultural Sciences	25	2	2020
9.	The Potential of Forest Fire in IUPHHK-HT PT Finnantara Intiga Distric Sintang Province Kalimantan Barat	Journal of Tropical Silviculture	11	1	2020
10.	The Correlation between Distribution of Hotspots and Forest and Land Fire with the Onset of Acute Respiratory Infections (ARI) in Kubu Raya District, West Kalimantan	Journal of Tropical Silviculture	10	3	2019
11.	Estimation of Carbondioxide Emissions Caused by Forest and Land Fires in Ketapang District, West Kalimantan Province	Journal of Tropical Silviculture	10	3	2019
12.	Characteristics and causes of forest and land fires in Kapuas Districts , Central Kalimantan Province, Indonesia	Biodiversitas	20	1	2019
13.	Effect of wildfires on tropical peatland vegetation in Meranti Islands District, Riau Province, Indonesia	Biodiversitas	20	10	2019
14.	Institutional Challenge on Forest and Land Fire Management at the Site Level	Indonesian Journal of Agricultural Sciences	24	2	2019
15.	Integration of GIS and Remote Sensing For Hotspot Distribution Analysis in Berbak Sembilang National Park	International Journal of Remote Sensing and Earth Sciences	16	1	2019
16.	Land cover changes from 2005 to 2015 in Mantangai area of Dayak Ngaju, Central Kalimantan, Indonesia	Biodiversitas	20	9	2019
17.	Long-Lead Prediction of the 2015 Fire and Haze Episode in Indonesia	Geophysical Research Letters	44	19	2017



**Patents and proprietary rights**

No	Title	Year
1.	Buku Indonesian Forest and Land Fires	2021
2.	Buku Pemanfaatan Lahan Gambut dan Emisi Gas Rumah Kaca	2021
3.	Buku Pengendalian Kebakaran Hutan dan atau Lahan Indonesia	2021
4.	Metode Pembuktian Terjadinya Kebakaran Hutan dan atau Lahan	2021
5.	Penyusunan Dan Substansi Dalam Penulisan Surat Keterangan Ahli Kebakaran Hutan Dan Lahan	2021
6.	Peta rawan kebakaran hutan dan atau lahan berbasis klasifikasi tipe bahan bakar	2021

**Involvement in the Professional Associations:**

Organization name	Specific role	Level	Period
Masyarakat Silvikultur Indonesia	Member	National	2013 - present
Society for Indonesian Biodiversity	Vice Chairman	National	2016 - present



**Prof.Dr.Ir. Achmad, MS**



**Position:**

Professor

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**Teaching and Research Area:**

Forest pathology

**Academic Career:**

Initial academic appointment	Position	Institution	Year
Doctorate/PhD degree	Phytopathology	IPB University	1997
Master/MSc degree	Phytopathology	IPB University	1991
Undergraduate degree	Pests and Plant Diseases	IPB University	1981

**Employment:**

Position	Employer	Period
Lecturer	IPB University	1988-2020

**Primary Publications :**

No	Title	Journal	Volume	Issue	Year
1.	In vitro biological control of <i>Ceratobasidium ramicola</i> by using tannin extracts from <i>Acacia villosa</i> , <i>Myristica fragrans</i> , <i>Acacia mangium</i> , and <i>Calliandra calothyrsus</i> leaves	Brazilian Journal of Biology	80	2	2020
2.	Characteristics of Morphology, Anatomy and Dormancy Breaks of <i>Castanopsis Buruana</i> Miq. Seeds as an Endemic Plant Of Sulawesi, Indonesia	Plant Archives	19	2	2019
3.	Evaluation of Agroforestry System between Sengon with Upland Rice to Invection of <i>Rhizoctonia</i> sp.	Journal of Tropical Silviculture	9	02	2018
4.	Identification and Pathogenicity of Fungal Dieback Disease on Sengon ( <i>Paraserianthes falcataria</i> (L.) Nielsen) Seedling and Rice ( <i>Oryza sativa</i> )	Pakistan Journal of Biological Sciences	21	1	2018



No	Title	Journal	Volume	Issue	Year
5.	Effectiveness of <i>Beauveria bassiana</i> Against <i>Coptotermes curvignathus</i>	Journal of Tropical Silviculture	07	3	2016
6.	Area of Damage and Distribution of Occurrence The Red Root Disease in Gunung Walat University Forest, Sukabumi	Journal of Tropical Silviculture	07	1	2016

**Involvement in the Professional Associations:**

Organization name	Specific role	Level	Period
Masyarakat Silvikultur Indonesia	Member	National	2016 - present



**Prof.Dr.Ir. Lailan Syaufina, M.Sc**



**Position:**

Professor

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**Teaching and Research Area:**

Forest fire and environmental

**Academic Career:**

Initial academic appointment	Position	Institution	Year
Doctorate/PhD degree	Forest Fire	Universiti Putra Malaysia	2002
Master/MSc degree	Apiculture	University of Göttingen	1993
Undergraduate degree	Forest Management	IPB University	1988

**Employment:**

Position	Employer	Period
Lecturer	IPB University	1989 - present
Member of Commission A	Academic Senate	2019 - present
Vice Dean for Academic and Student Affairs	Faculty of Forestry and Environment	2015 - 2020

**Patents and proprietary rights**

No	Title	Year
1.	Aplikasi Patroli Terpadu Karhutla	2020

**Primary Publications :**

No	Title	Journal	Volume	Issue	Year
1.	Changes of tree species diversity in peatland impacted by moderate fire severity at Teluk Meranti, Pelalawan, Riau Province, Indonesia	Biodiversitas Journal of Biological Diversity	22	5	2021
2.	The Possibility of COVID-19 Pandemic in Eliminating Burning Activities: A Case Study at Ogan Komering Ilir Regency, South Sumatera	Journal of Tropical Forest Management	27	3	2021
3,	Air quality and health impacts of vegetation and peat fires in Equatorial Asia during 2004–2015	Environmental Research Letters	15	9	2020



No	Title	Journal	Volume	Issue	Year
4.	Correlation Study of Environmental Knowledge, Attitudes, Subjective Norms and Perceptions of Behavior Control on Students' Environmental Care Behavior	SEJ (Science Education Journal)	4	1	2020
5.	Effects of Groundwater Level on the Occurrence of Forest and Peatland Fires: A Case of Study in Musi Banyuasin Regency	Journal Sylva Lestari	8	2	2020
6.	Perception and Activity of Community in Firewood Consumption in Dili City of Timor Leste	Journal of Tropical Silviculture	11	1	2020
7.	New estimate of particulate emissions from Indonesian peat fires in 2015	Atmospheric Chemistry and Physics	19	17	2019
8.	Peatland fire detection using spatio-temporal data mining analysis in Kalimantan, Indonesia	Journal of Tropical Forest Science	30	2	2018
9.	Variability of Climate and Forest and Peat Fires Occurrences in Bengkalis Regency, Riau	Journal of Tropical Silviculture	09	1	2018
10.	Fire Severity Assessment on Akasia stand at BKPH Parung Panjang KPH Bogor, Perum Perhutani III West Java and Banten	Journal of Tropical Silviculture	8	1	2017
11.	Status of Peatland Fire Research in Indonesia	Journal of Tropical Silviculture	07	3	2017
12.	The Effect of Various Types of Forest Fires on Pine Resin Productivity in Gunung Walat University Forest, Sukabumi, Indonesia	Journal of Biological Diversity	18	2	2017
13.	Density Based Clustering of Hotspots in Peatland with Road and River as Physical Obstacles	Indonesian Journal of Electrical Engineering and Computer Science	3	3	2016
14.	Rhizopheric and Non-rhizopheric Carbon Dioxide (CO <sub>2</sub> ) Emissions from Oil Palm( <i>Elaeis guineensis</i> ) Plantation on Shallow Peats	Indonesian Soil and Climate Journal	40	1	2016
15.	The Detection of Burnt Area Using Medium Resolution Satellite Imagery of Modis Based on Fire Index Approach	Journal of Natural Resources and Environmental Management	6	1	2016

**Involvement in the Professional Associations:**

Organization name	Specific role	Level	Period
Masyarakat Silvikultur Indonesia	Member	National	2013 - present



**Dr.Ir. Noor Farikhah Haneda, M.Si**



**Position:**

Associate Professor

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**Teaching and Research Area:**

Forest entomology; Forest health monitoring

**Academic Career:**

Initial academic appointment	Position	Institution	Year
Doctorate/PhD degree	Forest Entomology	Universiti Putra Malaysia	2005
Master/MSc degree	Entomology	IPB University	1995
Undergraduate degree	Pests and Plant Diseases	IPB University	1989

**Employment:**

Position	Employer	Period
Lecturer	IPB University	1990 - present
Vice Dean for Academic and Student Affairs	Faculty of Forestry and Environment	2021 - present
Head	Departement of Silviculture	2015 - 2020
Secretary	Departement of Silviculture	2009 - 2013

**Patents and proprietary rights**

No	Title	Year
1.	Komposisi Umpan Rayap Berbasis Nematoda Entomopatogen	2020





**Primary Publications :**

No	Title	Journal	Volume	Issue	Year
1.	Ants Diversity (Hymenoptera: Formicidae) on several Stands in Taman Hutan Raya Sultan Thaha Syaifuddin Jambi	Journal of Tropical Silviculture	12	01	2021
2.	Field test on the palatability of the subterranean termites to pine wood with various treatments	Biodiversitas Journal of Biological Diversity	21	12	2020
3.	Influence Fertilization on Length Branch of Kesambi ( <i>Schleichera oleosa</i> (Lour.) Merr.) and Productivity of Shellac in KPH Probolinggo	Journal of Tropical Silviculture	11	3	2020
4.	The Role of Ants in Lowland Tropical Rainforest Transformation	Journal of Forest Science	14	1	2020
5.	Stem borer insects on <i>Hopea odorata</i> in Bogor, West Java, Indonesia	Biodiversitas Journal of Biological Diversity	21	11	2020
6.	Arthropod community at different altitudes in Gunung Halimun-Salak National Park, Western Java, Indonesia	Biodiversitas Journal of Biological Diversity	20	6	2019
7.	Environmental characteristic of insect communit	Journal of Natural Resources and Environmental Management	9	2	2019
8.	Diversity of parasitoids and predators of lac insect ( <i>Laccifer lacca</i> Kerr) in KPH Probolinggo Perum Perhutani Unit II East Java	Indonesian Journal of Entomology	16	1	2019
9.	Shift in trophic niches of soil microarthropods with conversion of tropical rainforest into plantations as indicated by stable isotopes ( $^{15}\text{N}$ , $^{13}\text{C}$ )	PLOS ONE	14	10	2019
10.	Applying generalized allometric regressions to predict live body mass of tropical and temperate arthropods	Ecology and Evolution	8	24	2018
11.	Mangrove Pests at Batu Ampar, Kubu Raya, West Kalimantan	Journal of Tropical Silviculture	09	01	2018
12.	Molasses injection to improve growth and vitality of kesambi ( <i>Schleicera oleosa</i> Merr) as lac insect host plant	Journal of Forestry Research Wallacea	7	2	2018
13.	Population dynamics of <i>Arthroschista hilaralis</i> pest and its parasitoid diversity in various jabon ( <i>Anthocephalus cadamba</i> ) cropping patterns in South Sumatra, Indonesia	Biodiversitas Journal of Biological Diversity	19	1	2018



No	Title	Journal	Volume	Issue	Year
14.	Biodiversity of subterranean termites on the Acacia crassicarpa plantation	Biodiversitas Journal of Biological Diversity	18	4	2017
15.	Direct and cascading impacts of tropical land-use change on multi-trophic biodiversity	Nature Ecology & Evolution	1	10	2017
16.	Life Cycle of Arthroschista Hilaralis (Lepidoptera: Pyralidae) on Jabon Trees (Anthocephalus cadamba Miq)	SERANGGA	22	2	2017
17.	The Role of Arthropodas in Ecotone and Oil Palm Ecosystems	Journal of Tropical Silviculture	08	02	2017
18.	Species Richness And Biomass Explain Spatial Turnover In Ecosystem Functioning Across Tropical And Temperate Ecosystems	Philosophical Transactions of the Royal Society B: Biological Sciences	371	1694	2016
19.	Structure Population of Pine Woolly Adelgids (Hemiptera : Adelgidae) in Perum Perhutani Unit Iii, West Java And Banten, KPH Sumedang	Journal of Tropical Silviculture	7	3	2016

**Involvement in the Professional Associations:**

Organization name	Specific role	Level	Period
Masyarakat Silvikultur Indonesia	Member	National	2015 - present
Entomological Society of Indonesia	Member	National	2015 - present
International Society of Arboriculture	Member	International	2017 - present



**Dr.Ir. Elis Nina Herliyana, M.Si**



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**Teaching and Research Area:**

Forest pathology; Forest protection

**Academic Career:**

Initial academic appointment	Position	Institution	Year
Doctorate/PhD degree	Forest Science	IPB University	2007
Master/MSc degree	Phytopathology	IPB University	1997
Undergraduate degree	Pests and Plant Diseases	IPB University	1990

**Employment:**

Position	Employer	Period
Lecturer	IPB University	1991 - present

**Patents and proprietary rights**

No	Title	Year
1.	Teknologi Pengkilap Daun Tanaman Hias	2020
2.	Teknologi Pupuk dan Pestisida Organik Cair untuk Tanaman Pertanian	2020
3.	Metode Pembuatan Pupuk Organik Cair dari Limbah Rumput Laut	2019
4.	Komposisi Pestisida-Nabati Cair	2019
5.	Substrat Cair Induktor Untuk Produksi Pelet Jamur	2018



**Primary Publications :**

No	Title	Journal	Volume	Issue	Year
1.	Furfurylation of wood from fast-growing tropical species to enhance their resistance to subterranean termite	European Journal of Wood and Wood Products	79	4	2021
2.	Oil palm empty fruit bunch valorization for activated and non-activated carbon nanoparticles and its heavy-metal-removal efficiency	Water Science and Technology	83	11	2021
3.	Antibacterial Potency of <i>Pleurotus ostreatus</i> Extract From Fruiting Body and its Solid Substrate on <i>Staphylococcus aureus</i>	Journal of Sain Peternakan Indonesia	15	2	2020
4.	Feature Extraction of Jabon ( <i>Anthocephalus</i> sp) Leaf Disease using Discrete Wavelet Transform	TELKOMNIKA Telecommunication, Computing, Electronics and Control	18	2	2020
5.	Identification Fungi Pathogen Causes of Disease in Red Leaf Jabon ( <i>Anthocephalus macrophyllus</i> (Roxb.) Havil)	Journal of Tropical Silviculture	11	03	2020
6.	Termite Resistance of Furfuryl Alcohol and Imidacloprid Treated Fast-Growing Tropical Wood Species as Function of Field Test	Applied Sciences	10	17	2020
7.	Endophytic Bacterial Consortium Originated From Forestry Plant Roots and Their Nematicidal Activity Against <i>Meloidogyne incognita</i> Infestation in Greenhouse	Acta Univ. Agric. Silvic. Mendelianae Brun.	67	5	2019
8.	Antifungal activity of castor ( <i>Ricinus communis</i> L.) leaves methanolic extract on <i>Aspergillus niger</i>	International Food Research Journal	26	2	2019
9.	Microbial growths and checking on acrylic painted tropical woods and their static bending after three years of natural weathering	Journal of Materials Research and Technology	8	4	2019



No	Title	Journal	Volume	Issue	Year
10.	Drying Characteristic of Oyster Mushroom ( <i>Pleurotus ostreatus</i> var. <i>florida</i> ) in A Fluidized Bed Drier	Agritech	37	4	2018
11.	Screening of cellulolytic bacteria originated from termite gut for decomposing rubber tree stump	Journal of Tropical Silviculture	09	3	2018
12.	Morphological and Genetic Characteristics of Oyster Mushrooms ( <i>Pleurotus</i> spp.)	Journal of Horticulture	21	3	2016
13.	Leaf Morphological Feature Extraction of Digital Image <i>Anthocephalus</i> Cadamba	TELKOMNIKA (Telecommunication Computing Electronics and Control)	14	2	2016
14.	Area of Damage and Distribution of Occurrence The Red Root Disease in Gunung Walat University Forest, Sukabumi	Journal of Tropical Silviculture	07	1	2016
15.	Morphological Feature Extraction of Jabon's Leaf Seedling Pathogen Using Microscopic Image	TELKOMNIKA (Telecommunication Computing Electronics and Control)	14	1	2016

**Involvement in the Professional Associations:**

Organization name	Specific role	Level	Period
Masyarakat Silvikultur Indonesia	Member	National	2020 - present
The Mycological Society of Indonesia	Member	National	2020 - present
The Indonesian Phytopathological Society	Member	National	2020 - present



**Dr. Erianto Indra Putra, S.Hut. , M.Si**



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**Teaching and Research Area:**

Forest fire; Forest health monitoring

**Academic Career:**

Initial academic appointment	Position	Institution	Year
Doctorate/PhD degree	Human Environmental System	Hokkaido University	2010
Master/MSc degree	Forest Science	IPB University	2004
Undergraduate degree	Forest Management	IPB University	1997

**Employment:**

Position	Employer	Period
Lecturer	IPB University	2005 - present
Secretary	Departement of Silviculture	2018 - present

**Primary Publications :**

No	Title	Journal	Volume	Issue	Year
1.	Precipitation, Sea Surface Temperature Anomaly (SSTA) and Savanna Fire in Waingapu	Journal of Tropical Silviculture	12	2	2021
2.	The effect of humidity, temperature and precipitation to peat fire occurrences in Tanjung Jabung Timur Regency, Jambi)	Journal of Tropical Silviculture	10	3	2020
3.	Assessing rainfall pattern, groundwater level, and peat hydraulic conductivity for effective peat prevention measure	IOP Conference Series: Earth and Environmental Science	284	-	2019
4.	Effects of distance from canal and degradation history on peat bulk density in a degraded tropical peatland	Science of The Total Environment	699	-	2019



No	Title	Journal	Volume	Issue	Year
5.	Residual stand damage from selective logging of tropical forests: A comparative case study in central Kalimantan and West Sumatra, Indonesia	Global Ecology and Conservation	19	-	2019
6.	Chemical characterization of fine particulate matter emitted by peat fires in Central Kalimantan, Indonesia, during the 2015 El Niño	Atmospheric Chemistry and Physics	18	4	2018
7.	Determining critical groundwater level to prevent degraded peatland from severe peat fire	IOP Conference Series: Earth and Environmental Science	149	-	2018
8.	Denial of long-term issues with agriculture on tropical peatlands will have devastating consequences	Global Change Biology	23	3	2017
9.	Field measurements of trace gases and aerosols emitted by peat fires in Central Kalimantan, Indonesia, during the 2015 El Niño	Atmospheric Chemistry and Physics	16	18	2016

**Involvement in the Professional Associations:**

Organization name	Specific role	Level	Period
Masyarakat Silvikultur Indonesia	Member	National	2015 - present



**Dr. Yunik Istikorini, SP., MP**



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**Teaching and Research Area:**

Phytopatology, Biological Control, Induce Resistance

**Academic Career:**

Initial academic appointment	Position	Institution	Year
Doctorate/PhD degree	Entomology	IPB University	2008
Master/MSc degree	Phytopathology	Gadjah Mada University	2000
Undergraduate degree	Pests and Plant Diseases	University of Jember	1993

**Employment:**

Position	Employer	Period
Lecturer	IPB University	1994 - present

**Primary Publications :**

No	Title	Journal	Volume	Issue	Year
1.	Chemical characteristics of <i>Falcataria moluccana</i> wood infested by Boktor stem borer ( <i>Xystrocera festiva</i> )	Biodiversitas Journal of Biological Diversity	22	10	2021
2.	Early growth evaluation and estimation of heritability in a sengon ( <i>Falcataria moluccana</i> ) progeny testing at Kediri, East Java, Indonesia	Biodiversitas Journal of Biological Diversity	22	5	2021
3.	Health test of Kenaga Ylang-Ylang Seed ( <i>Cananga odorata</i> Lam. Hook.f. & Thomson) forma genuina	Tropical Forest Journal)	15	2	2020





No	Title	Journal	Volume	Issue	Year
4.	The Cause of Sengon ( <i>Paraserianthes falcataria</i> ) Damping-off Disease: Survey and Identification in Permanent Nursery, IPB University	Journal Sylva Lestari	8	1	2020
5.	The Potency of Endophytic Fungi in Binahong ( <i>Anredera cordifolia</i> (Ten.) Steenis) in Controlling <i>Botryodiplodia theobromae</i> Pat. Causing Dieback Disease on Jabon ( <i>Anthocephalus cadamba</i> (Roxb.) Miq	Journal of Tropical Silviculture	10	2	2019

**Involvement in the Professional Associations:**

Organization name	Specific role	Level	Period
Masyarakat Silvikultur Indonesia	Member	National	2017 - present
The Mycological Society of Indonesia	Member	National	2020 - present
The Indonesian Phytopathological Society	Member	National	2020 - present



**Ati Dwi Nurhayati, S.Hut., M.Si**



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**Teaching and Research Area:**

Forest fire and environmental

**Academic Career:**

Initial academic appointment	Position	Institution	Year
Doctorate/PhD degree	Natural Resources and Environmental Management	IPB University	On going
Master/MSc degree	Forest Science	IPB University	2002
Undergraduate degree	Forest Management	IPB University	2000

**Employment:**

Position	Employer	Period
Lecturer	IPB University	2007 - present
Secretary	Disaster study center	2013 - 2017

**Primary Publications :**

No	Title	Journal	Volume	Issue	Year
1.	Forest and Peatland Fire Dynamics in South Sumatra Province	Forest and Society	5	2	2021
2.	The Possibility of COVID-19 Pandemic in Eliminating Burning Activities: A Case Study at Ogan Komering Ilir Regency, South Sumatera	Journal of Tropical Forest Management	27	3	2021
3.	Behaviour and perception of community on peat fire in Ogan Komering Ilir District, South Sumatera Province	Journal of Natural Resources and Environmental Management	10	4	2020



No	Title	Journal	Volume	Issue	Year
4.	Forest Disturbance at Forest Management Unit (KPH) Kuningan Division Regional West Java and Banten	Journal of Tropical Silviculture	10	3	2019
5.	Forest Fire Causes in Gunung Walat Educational Forest, West Java	Journal of Tropical Silviculture	10	3	2019

**Involvement in the Professional Associations:**

Organization name	Specific role	Level	Period
Masyarakat Silvikultur Indonesia	Member	National	2013 - present



**Dr. Muhammad Alam Firmansyah, S.Hut., M.Si**



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**Teaching and Research Area:**

Forest pathology

**Academic Career:**

Initial academic appointment	Position	Institution	Year
Doctorate/PhD degree	Tropical Silviculture	IPB University	2019
Master/MSc degree	Forestry Science	IPB University	2002
Undergraduate degree	Conservation Of Forest Resources	IPB University	2002

**Employment:**

Position	Employer	Period
Lecturer	IPB University	2007 - present

**Primary Publications :**

No	Title	Journal	Volume	Issue	Year
1.	Identification and Pathogenicity of Fungal Dieback Disease on Sengon ( <i>Paraserianthes falcataria</i> (L.) Nielsen) Seedling and Rice ( <i>Oryza sativa</i> )	Pakistan Journal of Biological Sciences	21	1	2018
2.	In vitro biological control of <i>Ceratobasidium ramicola</i> by using tannin extracts from <i>Acacia villosa</i> , <i>Myristica fragrans</i> , <i>Acacia mangium</i> , and <i>Calliandra calothyrsus</i> leaves	Brazilian Journal of Biology	80	2	2020

**Involvement in the Professional Associations:**

Organization name	Specific role	Level	Period
Masyarakat Silvikultur Indonesia	Member	National	2013 - present



**Lufthi Rusniarsyah, S.P., M.Si**



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**Teaching and Research Area:**

Forest entomology

**Academic Career:**

Initial academic appointment	Position	Institution	Year
Master/MSc degree	Pests and Plant Diseases	IPB University	2013
Undergraduate degree	Entomology	IPB University	2004

**Employment:**

Position	Employer	Period
Lecturer	IPB University	2014 - present
Student Commission	Departement of Silviculture	2018 - present

**Involvement in the Professional Associations:**

Organization name	Specific role	Level	Period
Masyarakat Silvikultur Indonesia	Member	National	2015 - present



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