

## PROFIL DOSEN

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### Pendidikan

S2 tahun 2004, Institut Pertanian Bogor, Bogor Skripsi : Penyusunan kunci determinasi jenis-jenis pohon mangrove di Teluk Bintuni, Irian Jaya
S1 tahun 1997, Institut Pertanian Bogor, Bogor Tesis : Model penduga biomassa dan karbon tegakan hutan kerangas di Taman Nasional Danau Sentarum, Kalimantan Barat.

### Bidang Kekhususan

No	Bidang Kekhususan
1.	Ekologi Hutan
2.	Ekologi dan Rehabilitasi Mangrove
3.	Analisis Sistem
4.	Etno-ekologi

### Mata Kuliah Yang Diasuh

No	Nama Mata Kuliah	Strata/Prog. Studi
1.	Ekologi Hutan	S1/Dep. Kehutanan USU
2.	Manajemen Hutan Mangrove	S1/Dep. Kehutanan USU
3.	Ekologi Restorasi	S1/Dep. Kehutanan USU
4.	Dendrologi	S1/Dep. Kehutanan USU
5.	Analisis Sistem	S1/Dep. Kehutanan USU
6.	Silvikultur	S1/Dep. Kehutanan USU
7.	Konservasi Sumberdaya Alam	S1/Dep. Kehutanan USU
8.	Pengantar Ilmu Kehutanan	S1/Dep. Kehutanan USU

### Pengalaman Pekerjaan (Profesi)

No	Tahun	Jabatan/Posisi
1.	1999-sekarang	Staf Pengajar Departemen Kehutanan, FP USU
2.	2000-2001	Koordinator Bidang Pendidikan Departemen Kehutanan, FP USU
3.	2002	Sekretaris Program Studi Budidaya Hutan, Departemen Kehutanan, FP USU
4.	2004-2006	Koordinator Bidang Kemahasiswaan Departemen

		Kehutanan, FP USU
5.	2006-sekarang	Sekretaris Program Studi Budidaya Hutan, Departemen Kehutanan, FP USU

### Publikasi Ilmiah

No	Tahun	Judul Buku/Tulisan	Nama Journal/Penerbit
1	2006	Hutan mangrove: Bagaimana memanfaatkannya secara lestari? Bagian II ( <b>Onrizal</b> )	Warta Konservasi Lahan Basah 14 (4) Oktober 2006: 6-8. Wetland International-Indonesia Programme
2	2006	Hutan mangrove: Bagaimana memanfaatkannya secara lestari? Bagian I ( <b>Onrizal</b> )	Warta Konservasi Lahan Basah 14 (3) Juli 2006: 6-7, 26-27. Wetland International-Indonesia Programme
3	2006	Land suitability for mangrove rehabilitation post-tsunami in Nias Island, North Sumatra. ( <b>Onrizal</b> & C. Kusmana)	Prosiding Seminar Hasil-hasil Penelitian USU, 5-6 September 2006. Lembaga Penelitian USU
4	2006	Komposisi jenis dan struktur hutan mangrove di Suaka Margasatwa Pulau Rambut, Teluk Jakarta. ( <b>Onrizal</b> , & C. Kusmana).	Peronema - Forestry Science Journal 2 (1): 1-8. Departemen Kehutanan USU
5	2006	Banjir bandang dan tanah longsor: apa yang bisa kita perbuat? ( <b>Onrizal</b> )	Harian Waspada 14 Januari 2006
6	2006	Musim hujan = banjir bandang dan tanah longsor? ( <b>Onrizal</b> )	Harian Analisa 13 Januari 2006
7	2006	Berdagang karbon dengan menanam pohon. ( <b>Onrizal</b> )	Harian Analisa 11 Januari 2006
8	2006	Perkampungan yang selamat dari tsunami karena bersahabat dengan alam. ( <b>Onrizal</b> )	Harian Analisa 4 Januari 2006
9	2005	Hutan mangrove menyelamatkan masyarakat di pesisir utara Nias dari tsunami. ( <b>Onrizal</b> )	Warta Konservasi Lahan Basah 13 (2): 5-7. Wetland International-Indonesia Programme
10	2005	Estimates of above-ground biomass and carbon stock of heath forest in Danau Sentarum National Park, West Kalimantan. (Kusmana, C., <b>Onrizal</b> , B.H. Saharjo, & B. Sumawinata).	The 2 <sup>nd</sup> International Workshop on the Demonstration Study on Carbon Fixing Forest Management in Indonesia, Hotel Salak, Bogor, 11 January 2005. JICA & Balitbang Hutan dan Konservasi Alam, Departemen Kehutanan RI

### Publikasi Ilmiah (lanjutan)

No	Tahun	Judul Buku/Tulisan	Nama Journal/Penerbit
11	2005	Peranan hutan mangrove dan hutan pantai dalam melindungi pantai dari tsunami. ( <b>Onrizal</b> )	Lokakarya Rehabilitasi Hutan Mangrove Pasca Tsunami di Medan, 9 April 2005. Departemen Kehutanan USU
12	2005	Vegetation analyses of vegetated landuse of surrounding Sentarum Lake National Park, West	International Symposium on Eco-human Interactions in Tropical Forests. The Japan

		Kalimantan, Indonesia. (Kusmana, C., B.H. Saharjo, I.P. Handayani, <b>Onrizal</b> , B. Sumawinata, & T. Kato)	Society of Tropical Ecology (JASTE), Kyoto, 13 <sup>th</sup> and 14 <sup>th</sup> June, 2005
13	2005	Refleksi satu tahun tsunami melanda Asia: Kawasan lindung pantai untuk melindungi kehidupan manusia. ( <b>Onrizal</b> )	Harian Analisa 26 Desember 2005
14	2005	Adaptasi tumbuhan mangrove pada habitat salin dan an-aerob**. ( <b>Onrizal</b> )	Departemen Kehutanan FP USU
15	2005	Ekologi dan Manajemen Mangrove. [Bahan Ajar]. (Onrizal & C. Kusmana)	Departemen Kehutanan FP USU
16	2005	Ekosistem sungai**. ( <b>Onrizal</b> )	Departemen Kehutanan FP USU
17	2005	Pembukaan lahan dengan dan tanpa bakar**. ( <b>Onrizal</b> )	Departemen Kehutanan FP USU
18	2005	Restorasi lahan terkontaminasi logam berat**. ( <b>Onrizal</b> )	Departemen Kehutanan FP USU
19	2005	Tanam pengkayaan pada hutan bekas tebangan dengan teknik tanam jalur**. ( <b>Onrizal</b> )	Departemen Kehutanan FP USU
20	2005	Teknik pembuatan herbarium**. ( <b>Onrizal</b> )	Departemen Kehutanan FP USU
21	2005	Ekologi mangrove. ( <b>Onrizal</b> )	Buku panduan praktik pengenalan dan pengelolaan hutan. Departemen Kehutanan, Fakultas Pertanian USU. p.59-76
22	2005	Komposisi jenis dan struktur hutan kerangas bekas kebakaran di Taman Nasional Danau Sentarum, Kalimantan Barat. ( <b>Onrizal</b> , C. Kusmana, B.H. Saharjo, I.P. Handayani, & T. Kato).	Biodiversitas-Journal of Biological Diversity* 6 (4): 266-268. Jurusan Biologi, FMIPA UNS Surakarta
23	2005	Social and environmental issues of Danau Sentarum National Park, West Kalimantan. ( <b>Onrizal</b> , C. Kusmana, B.H. Saharjo, I.P. Handayani, & T. Kato).	Biodiversitas-Journal of Biological Diversity* 6 (3): 222 – 225. Jurusan Biologi, FMIPA UNS Surakarta
24	2005	Flora mangrove berhabitus pohon di Hutan Lindung Angke Kapuk, Jakarta. ( <b>Onrizal</b> , Rugayah, & Suhardjono).	Biodiversitas-Journal of Biological Diversity* 6 (1): 34 – 39.
25	2005	Analisis vegetasi hutan hujan tropika sekunder di Taman Nasional Danau Sentarum, Kalimantan Barat. ( <b>Onrizal</b> , C. Kusmana, B.H. Saharjo, I.P. Handayani, & T. Kato).	Berkala Ilmiah Biologi 5 (6): 359-371* Fakultas Biologi UGM Yogyakarta

#### **Publikasi Ilmiah (lanjutan)**

No	Tahun	Judul Buku/Tulisan	Nama Journal/Penerbit
26	2005	Peranan hutan mangrove dan hutan pantai sebagai pelindung alami pantai dari tsunami. ( <b>Onrizal</b> ).	Perkasa 9 (1): 15-17. Sekolah Pascasarja USU
27	2004	Konservasi dan rehabilitasi mangrove di Hutan Lindung Angke-	Warta Konservasi Lahan Basah 12 (1): 26-27, 30.

		Kapuk dalam menunjang stabilitas ekosistem pesisir Jakarta. <b>(Onrizal)</b> .	Wetland International-Indonesia Programme
28	2004	Upaya rehabilitasi hutan dan lahan dalam pemulihan kualitas lingkungan. (Kusmana, C., Istomo, S. Wilarso, E.N. Dahlan, & <b>Onrizal</b> )	Seminar nasional Lingkungan hidup dan kemanusiaan (EARTH project/YMNH) di Klub Rasuna, Ahmad Bakrie Hall, Jakarta, 4 Juni 2004.
29	2004	Ekologi Hutan Indonesia. [Bahan Ajar]. (Onrizal & C. Kusmana)	Departemen Kehutanan FP USU
30	2004	Hutan dan pengaturan tata air**. <b>(Onrizal)</b>	Departemen Kehutanan FP USU
31	2004	Perbandingan kriteria dan indicator pengelolaan hutan alam produksi lestari keluaran ITTO dan FSC**. <b>(Onrizal)</b>	Departemen Kehutanan FP USU
32	2004	Ancaman kelestarian Suaka Margasatwa Pulau Rambut dan alternatif reabilitasinya. <b>(Onrizal)</b> .	Buletin Konservasi Alam 4 (1): 21-24. Direktorat Jenderal Perlindungan Hutan dan Konservasi Alam, Departemen Kehutanan RI
33	2004	Pertumbuhan anakan mangrove jenis <i>Avicennia officinalis</i> , <i>Sonneratia alba</i> , dan <i>Bruguiera parviflora</i> pada berbagai tingkat salinitas. <b>(Onrizal &amp; A.G. Ahmad)</b> .	Agrisol 3 (2): 76-80. Program Pascasarjana USU
34	2003	Hutan mangrove dan perlindungan pantai dari gelombang tsunami. <b>(Onrizal)</b> .	Warta Konservasi Lahan Basah 11 (3): 26-27. Wetland International-Indonesia Programme
35	2003	Prospek perkembangan hutan mangrove di Indonesia. (Kusmana, C & <b>Onrizal</b> )	Seminar Nasional Mengurangi Dampak Tsunami: Kemungkinan Penerapan Hasil Riset. Yogyakarta, 11 Maret 2003. BPPT & JICA
36	2003	<i>Rhizophora lamarckii</i> di Angke-Kapuk: Tambahan bagi daftar jenis flora Jawa. <b>(Onrizal, Suhardjono, &amp; Rugayah)</b> .	Konggres dan Seminar Nasional Penggalang Taksonomi Tumbuhan Indonesia di Surakarta, 19-20 Desember 2003. Fakultas MIPA UNS & PTTI
37	2003	Jenis-jenis pohon mangrove di Teluk Bintuni, Papua. [Buku]. (Kusmana, C., <b>Onrizal</b> , & Sudarmadji).	Fakultas Kehutanan IPB dan PT BUMWI
38	2002	Flora dan habitat mangrove di pantai timur Sumatera Utara**. <b>(Onrizal)</b>	Departemen Kehutanan FP USU
39	2002	Metodologi penilaian tegakan hutan tanaman industri**. <b>(Onrizal, &amp; N. Sulistiyono)</b> .	Departemen Kehutanan FP USU

#### Publikasi Ilmiah (lanjutan)

No	Tahun	Judul Buku/Tulisan	Nama Journal/Penerbit
40	2001	Evaluasi kerusakan kawasan mangrove dan alternatif reabilitasinya di Jawa Barat dan Banten**. <b>(Onrizal)</b>	Departemen Kehutanan FP USU

41	2002	Panduan Praktikum Ekologi Hutan	Departemen Kehutanan FP USU
42	2001	Suaka margasatwa karang gading dan langkat timur laut: Mewujudkan pengelolaan lestari**. ( <b>Onrizal</b> )	Departemen Kehutanan FP USU
43	2000	Kajian potensi dan permasalahan manajemen lestari hutan mangrove berupa suaka margasatwa (Studi kasus: Suaka Margasatwa Karang Gading dan Langkat Timur Laut, Sumatera Utara). ( <b>Onrizal</b> & T.M. Hanafiah-Oeliem)	Seminar - Workshop Manajemen Daerah Rawa dan Kawasan Pesisir, 4 – 6 Maret 2000 di Palembang. Universitas Sriwijaya, Palembang
44	2000	Sustainable mangrove forest management as wildlife reserve in North Sumatra: Problems dan action plan. (Hanafiah-Oeliem, TM, <b>Onrizal</b> , & A. Sahar-Hanafiah).	Proceedings of the third international wood science symposium, November 1-2, 2000, Uji, Kyoto, Japan.
45	1998	Evaluasi tingkat kerusakan kawasan mangrove di pulau Jawa dan arahan tehnik rehabilitasinya ( <i>Evaluation of damage level of mangrove area in Java island dan its rehabilitation technique</i> ). (Kusmana, C & <b>Onrizal</b> )	Lokakarya Jaringan Kerja Pelestari Mangrove, tanggal 12 - 13 Agustus 1998 di Pematang, Jawa Tengah. Fakultas Kehutanan Sekolah Tinggi Instiper Yogyakarta
46	1997	Mengenal jenis-jenis pohon mangrove di Teluk Bintuni, Irian Jaya. [Buku]. (Kusmana, C., Suhardjono, Sudarmadji, & <b>Onrizal</b> )	IPB Press

Keterangan: \* = Jurnal Ilmiah Nasional Terakreditasi, \*\* Disimpan di Perpustakaan Universitas USU ([www.library.usu.ac.id](http://www.library.usu.ac.id))


### Organisasi Profesi

No	Organisasi
1.	Anggota Penggalang Taksonomi Tumbuhan Indonesia (PTTI)

### Penghargaan

No	Tahun	Jenis Penghargaan	Instansi Pemberi Penghargaan
1.	2002	Dana penelitian untuk 2 judul penelitian kategori dosen muda	Dirjen Pendidikan Tinggi, Depdiknas
2.	2006-2007	Dana penelitian untuk 2 tahun kategori hibah pekerti (penelitian kerjasama antar perguruan tinggi)	Dirjen Pendidikan Tinggi, Depdiknas

## PROFILE

	Full Name	:	Onrizal, S.Hut, M.Si
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	Current Position	:	Secretary of Study Program of Silviculture, Forestry Department
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E-mail address	<a href="mailto:onrizal03@yahoo.com">onrizal03@yahoo.com</a>		

### Education

No	Degree	Name of University and place	Year of finished
1	S1 (Undergraduate)	Bogor Agricultural University/Bogor	1997
3	S2 (Master)	Bogor Agricultural University/Bogor	2004

### Thesis

<b>S1</b>	: Determination key of mangroves tree species in Bintuni Bay, Irian Jaya
<b>S2</b>	: Estimates of biomass and carbon of the heath forest in Danau Sentarum National Park, West Kalimantan

### Research Interest

No	Research Interest
1.	Forest ecology
2.	Mangroves ecology and rehabilitation
3.	System analyses
4.	Ethno-ecology

### Teaching Appointment

No	Name of Teaching Appointment	Degree
1.	Forest ecology	Undergraduate/Forestry Dept. USU
2.	Mangroves management	Undergraduate/Forestry Dept. USU
3.	Ecology of Restoration	Undergraduate/Forestry Dept. USU
4.	Dendrology	Undergraduate/Forestry Dept. USU
5.	System analyses	Undergraduate/Forestry Dept. USU
6.	Silviculture	Undergraduate/Forestry Dept. USU
7.	Natural resources conservation	Undergraduate/Forestry Dept. USU
8.	Introduction to forestry science	Undergraduate/Forestry Dept.

	USU
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### Professional Appointment

No	Year	Position
1.	1999-now	Lecture Staff of Forestry Department, Agriculture Faculty, University of Sumatera Utara
2.	2000-2001	Coordinator of Educational Division of Forestry Department
3.	2002	Secretary of Silviculture Study Program of Forestry Department
4.	2004-2006	Coordinator of Student Activity Division of Forestry Department
5.	2006-sekarang	Secretary of Silviculture Study Program of Forestry Department

### Publication

No	Year	Title	Publisher
1.	2006	Mangrove forest: How to use as sustainability? Part II ( <b>Onrizal</b> )	Warta Konservasi Lahan Basah 14 (4) October 2006: 6-8. Wetland International-Indonesia Programme
2.	2006	Mangrove forest: How to use as sustainability? Part I ( <b>Onrizal</b> )	Warta Konservasi Lahan Basah 14 (3) July 2006: 6-7, 26-27. Wetland International-Indonesia Programme
3.	2006	Land suitability for mangrove rehabilitation post-tsunami in Nias Island, North Sumatra. ( <b>Onrizal</b> & C. Kusmana)	Proceedings of Seminar on USU's Research, 5-6 September 2006. Research Institute of USU
4.	2006	Species composition and structure of mangrove forests in Pulau Rambut wildlife reserve, Jakarta bay. ( <b>Onrizal</b> , & C. Kusmana).	Peronema - Forestry Science Journal 2 (1): 1-8. Departemen Kehutanan USU
5.	2006	Flooded: what we can do? ( <b>Onrizal</b> )	Waspada Newspaper 14 January 2006
6.	2006	Rainy season is a flood season? ( <b>Onrizal</b> )	Analisa Newspaper 13 January 2006
7.	2006	Carbon trade by tree planting. ( <b>Onrizal</b> )	Analisa Newspaper 11 January 2006
8.	2006	Story of saved village from tsunami. ( <b>Onrizal</b> )	Analisa Newspaper 4 January 2006
9.	2005	Mangroves forest saved the coastal community in north Nias from tsunami wave. ( <b>Onrizal</b> )	Warta Konservasi Lahan Basah 13 (2): 5-7. Wetland International-Indonesia Programme
10.	2005	Estimates of above-ground biomass and carbon stock of heath forest in Danau Sentarum National Park, West Kalimantan. (Kusmana, C., <b>Onrizal</b> , B.H. Saharjo, & B. Sumawinata).	The 2 <sup>nd</sup> International Workshop on the Demonstration Study on Carbon Fixing Forest Management in Indonesia, Hotel Salak, Bogor, 11 January 2005. JICA & Forest and Natural Resources Research and Development Agency of Forestry Ministry of Republic of Indonesia

**Publikasi Ilmiah (lanjutan)**

No	Year	Title	Publisher
11.	2005	The roles of mangroves and littoral forest to protect the coastal areas from tsunami. <b>(Onrizal)</b>	Workshop on mangroves rehabilitation after tsunami disaster, Medan, 9 April 2005. Forestry Department of USU
12.	2005	Vegetation analyses of vegetated landuse of surrounding Sentarum Lake National Park, West Kalimantan, Indonesia. (Kusmana, C., B.H. Saharjo, I.P. Handayani, <b>Onrizal</b> , B. Sumawinata, & T. Kato)	International Symposium on Eco-human Interactions in Tropical Forests. The Japan Society of Tropical Ecology (JASTE), Kyoto, 13 <sup>th</sup> and 14 <sup>th</sup> June, 2005
13.	2005	Reflection of 1 year of the Asia tsunami disaster: Coastal protection area to protect human live. <b>(Onrizal)</b>	Analisa Newspaper 26 December 2005
14.	2005	Mangroves adaptation in salinity and an-aerob site**. <b>(Onrizal)</b>	Forestry Departement of USU
15.	2005	Ecology and management of mangroves in Indonesia. [Lecture's note]. (Onrizal & C. Kusmana)	Forestry Departement of USU
16.	2005	River ecosystem**. <b>(Onrizal)</b>	Forestry Departement of USU
17.	2005	Land clearing with and without burning**. <b>(Onrizal)</b>	Forestry Departement of USU
18.	2005	Restoration of contaminated land**. <b>(Onrizal)</b>	Forestry Departement of USU
19.	2005	Enrichment planting of log-over area by strip planting **. <b>(Onrizal)</b>	Forestry Departement of USU
20.	2005	Herbarium technique **. <b>(Onrizal)</b>	Forestry Departement of USU
21.	2005	Ecology of mangroves. <b>(Onrizal)</b>	Student guideline for forest management pratices. Forestry Department of USU. p.59-76
22.	2005	Species composition and structure of ex-burned heath forests in Danau Sentarum National Park, West Kalimantan. <b>(Onrizal</b> , C. Kusmana, B.H. Saharjo, I.P. Handayani, & T. Kato).	Biodiversitas-Journal of Biological Diversity* 6 (4): 266-268. Biology Department of UNS Surakarta
23.	2005	Social and environmental issues of Danau Sentarum National Park, West Kalimantan. <b>(Onrizal</b> , C. Kusmana, B.H. Saharjo, I.P. Handayani, & T. Kato).	Biodiversitas-Journal of Biological Diversity* 6 (3): 222 – 225. Biology Department of UNS Surakarta
24.	2005	Floristics of mangrove trees in Angke-Kapuk Protection Forest, Jakarta. <b>(Onrizal</b> , Rugayah, & Suhardjono).	Biodiversitas-Journal of Biological Diversity* 6 (1): 34 – 39. Biology Department of UNS Surakarta
25.	2005	Vegetation analyses of secondary tropical rain forest in Danau Sentarum National Park, West Kalimantan. <b>(Onrizal</b> , C. Kusmana,	Berkala Ilmiah Biologi 5 (6): 359-371* Biology Faculty of UGM Yogyakarta

		B.H. Saharjo, I.P. Handayani, & T. Kato).	
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**Publication (continued)**

No	Year	Title	Publisher
26.	2005	Peranan hutan mangrove dan hutan pantai sebagai pelindung alami pantai dari tsunami. ( <b>Onrizal</b> ).	Perkasa 9 (1): 15-17. Sekolah Pascasarja USU
27.	2004	Conservation and rehabilitation of mangroves in Angke-Kapuk Protection Forest to support stability of coastal ecosystem of Jakarta. ( <b>Onrizal</b> ).	Warta Konservasi Lahan Basah 12 (1): 26-27, 30. Wetland International-Indonesia Programme
28.	2004	Foerst and land rehabilitation for recovery of environment quality. (Kusmana, C., Istomo, S. Wilarso, E.N. Dahlan, & <b>Onrizal</b> )	Seminar nasional Lingkungan hidup dan kemanusiaan (EARTH project/YMNH) di Klub Rasuna, Ahmad Bakrie Hall, Jakarta, 4 Juni 2004.
29.	2004	Forest ecology in Indonesia. [Lecture's note]. (Onrizal & C. Kusmana)	Forestry Departement of USU
30.	2004	Forest and hidrology **. ( <b>Onrizal</b> )	Forestry Departement of USU
31.	2004	Comparing ITTO and FSC criteria and indicator in sustainable natural production forest management**. ( <b>Onrizal</b> )	Forestry Departement of USU
32.	2004	The treathened of Pulau Rambut wildlife reserve and its rehabilitation alternative. ( <b>Onrizal</b> ).	Buletin Konservasi Alam 4 (1): 21-24. Direktorat General of Forest protection and natural conservation of Forestry Ministry
33.	2004	Growth of mangrove seedlings <i>Avicennia officinalis</i> , <i>Sonneratia alba</i> , and <i>Bruguiera parviflora</i> in some salinity level. ( <b>Onrizal</b> & A.G. Ahmad).	Agrisol 3 (2): 76-80. Program Pascasarjana USU
34.	2003	Mangrove forest and coastal protection by tsunami wave. ( <b>Onrizal</b> ).	Warta Konservasi Lahan Basah 11 (3): 26-27. Wetland International-Indonesia Programme
35.	2003	Mangrove forest trends in Indonesia. (Kusmana, C & <b>Onrizal</b> )	National Seminar on reduced impact tsunami: Possibility of application of research result. Yogyakarta, 11 March 2003. BPPT & JICA
36.	2003	<i>Rhizophora lamarckii</i> in Angke-Kapuk: a new species for Java flora. ( <b>Onrizal</b> , Suhardjono, & Rugayah).	National Congress and Seminar on Indonesia Plant Taxonomy Group (PTTI). Surakarta, 19-20 December 2003. MIPA Faculty of UNS & PTTI
37.	2003	Mangrove tree species in Bintuni bay, Papua [Book]. (Kusmana, C., <b>Onrizal</b> , & Sudarmadji).	Fakultas Kehutanan IPB and PT BUMWI

38.	2002	Mangrove flora and its habitat in eastern coastal of North Sumatra **. <b>(Onrizal)</b>	Forestry Departement of USU
39.	2002	Metodology of valuation of industrial palnted forest stand**. <b>(Onrizal, &amp; N. Sulistiyono).</b>	Forestry Departement of USU

### Publication (*continued*)

No	Year	Title	Publisher
40.	2002	Guideline to forest ecology pratical	Forestry Departement of USU
41.	2001	Evaluation of degraded level of mangrove area in West Java and its rehabilitation technique**. <b>(Onrizal)</b>	Departemen Kehutanan FP USU
42.	2001	Karang Gading and Langkat Timur Laut wildlife reserve: sustainable management **. <b>(Onrizal)</b>	Departemen Kehutanan FP USU
43.	2000	Study on potency and problems on mangrove forest management as wildlife reserve. Case study in Karang Gading and Langkat Timur Laut wildlife reserve, North Sumatra. <b>(Onrizal &amp; T.M. Hanafiah-Oeliem)</b>	Seminar and Workshop on management of peat swamp and coastal area. Palembang, 4 – 6 March 2000. University of Sriwijaya, Palembang
44.	2000	Sustainable mangrove forest management as wildlife reserve in North Sumatra: Problems dan action plan. (Hanafiah-Oeliem, TM, <b>Onrizal</b> , & A. Sahar-Hanafiah).	Proceedings of the third international wood science symposium, November 1-2, 2000, Uji, Kyoto, Japan.
45.	1998	<i>Evaluation of dagraaded level of mangrove area in Java island dan its rehabilitation technique.</i> (Kusmana, C & <b>Onrizal</b> )	Workshop on mangrove saver network in Pematang, Central Java, 12 - 13 Agustus 1998. Forestry Faculty of Sekolah Tinggi Instiper, Yogyakarta
46.	1997	Fieldguide of mangrove tree species in Bintuni bay, Irian Jaya. [Book]. (Kusmana, C., Suhardjono, Sudarmadji, & <b>Onrizal</b> )	IPB Press, Bogor

Remark: \* = Accreditated national scientific journal, \*\* available at USU's library homepage ([www.library.usu.ac.id](http://www.library.usu.ac.id))

### Professionel Organization

No	Organisasi
1.	Member of Indonesian Plant Taxonomy Groups (PTTI)

### Prize and award

No	Year	Prizes and Awards	Giver Institution
1.	2002	Fellowship for young lecture research (2 research title)	Directorat General of Higher Educational of National Educational Ministry of Indonesia
2.	2006-2007	Fellowship for university joint research (2 years)	Directorat General of Higher Educational of National Educational Ministry of Indonesia