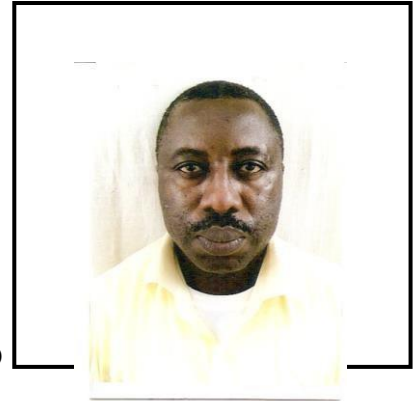


# CURRICULUM VITAE



## CIVIL STATUS

**Name and Surname:** CHUYONG George BINDEH  
**Date of Birth:** 12<sup>TH</sup> SEPTEMBER 1962 at BANSO  
**Region:** North-West, Cameroon  
**Marital Status:** Married with three kids

## ACADEMIC RECORD

- 1990-94 Doctor of Philosophy (Ph.D.) in Quantitative Tropical Forest Ecology. Department of Biological and Molecular Sciences, University of Stirling, Stirling, Scotland.
- 1988-90 Master of Science (MSc) in Forest Biometrics. Department of Forest Resources Management, University of Ibadan, Ibadan, Nigeria.
- 1984-88 Bachelor of Science (BSc) Hons. in Forest Resources Management. (Class 2:1) University of Ibadan, Ibadan, Nigeria.
- 1980-82 General Certificate of Education Advance Level (GCE /AL) Cameroon Protestant College (CPC) Bali, Cameroon.
- 1975-80 General Certificate of Education. Ordinary Level (GCE ) O/L St. Bede's College. Ashing Kom, Cameroon.

## EMPLOYMENT RECORD

- 2018 – Present **Professor of Forest Ecology and Management. Botany Programme, Department of Plant Science, University of Buea, Buea, SWR Cameroon.** Teaching and research in plant ecology and management with a bias in forest and associated landscapes. Curriculum development for professional graduate degree programmes (Wetland Ecology and Management, Conservation Biology and Forest Science)
- 2011 - 2017 **Mangrove Conservation Expert – GCP/CMR/030/GFF Mangrove Project Cameroon.** Developed and operationalized a monitoring plan for the five years GEF funded project in all of the major mangrove blocks of Cameroon.

- 2009 – 2018 **Associate Professor of Forest Ecology and Biometrics. Botany Programme, Department of Plant and Animal Sciences (now Botany and Plant Physiology), University of Buea, Buea, SWR Cameroon.** Teaching and research in plant ecology and management with a bias in forest and associate landscapes. Curriculum development for a professional Masters“ degree programme on Wetland Ecology and Management.
- 2003 - 2009 **Lecturer. Department of Plant and Animal Sciences, University of Buea, Buea. SWP Cameroon.** Teaching and research in plant sciences
- 2002 - 2003 **Assistant Lecturer. Department of Life Sciences, University of Buea, Buea. SWP Cameroon.** Teaching and research in plant sciences
- 2001 - 2002 **Senior Instructor, Department of Life Sciences, University of Buea, Buea. SWP Cameroon.**
- 2000 - Present Biodiversity Conservation Expert/Consultant (Ecosystems & Landscapes).** Serving as a national and International Expert/consultant on biodiversity issues and worked on the revision of the second National Biodiversity Strategy and Action Plan in 2011 amongst other tasks with the Ministries of Environment and sustainable Development (MINEPDED) and Forestry and Wildlife (MINFOF). Worked with WWF-Global Forest & Trade Network in the development of an ecological monitoring programme for TRC logging concessions in Cameroon. Worked with UNEP- Division of Environmental Policy Implementation division on the assessment of carbon pools and multiple benefits of mangroves in Central Africa (Cameroon, Gabon, R Congo and DR Congo) for REDD+. Development of the PIN and Feasibility/PDD for the proposed PNDP REDD+ pilot project with emphasis on the identification of factors and agents of deforestation and forest degradation with baseline scenarios. Worked on a START funded project reconciling deforestation/ degradation and food security through REDD+ incentives.
- 1999 - Present **Post Doctoral Assistant, Institute of Plant Sciences, University of Bern, Bern, Switzerland.** Worked for close to 20 years on forests dynamics using large scale plots (Institute of Plant Sciences, University of Bern Switzerland) in Korup National Park, Cameroon on Ectomycorrhizal legumes growing on nutrient poor soils.
- 1997- Present **Research Associate, Korup Forest Dynamic Plot (KFDP) Korup National Park Mundemba, Cameroon.** Worked for close to 25 years on forests dynamics using large scale plots (CTFS-ForestGEO site in Korup NP and smaller plots in logging concessions (GD, SEFAC and TRC) for the development of ecological monitoring programmes as required for timber certification.
- 1994-1997 **Post Doctoral Research Fellow, CEC Korup Project, Forestry Research Station, Kumba, Institute of Agronomic Research (IRA) CAMEROON.**

Experimented on the role of ectomycorrhizal association in restoring soil fertility in degraded landscapes.

1990-1994 **Research Officer, CEC Korup Project, Forestry Research Station Kumba, Institute of Agronomic Research (IRA) Cameroon.** Worked on nutrient cycling (litterfall, decomposition and leaching of nutrients) in ectomycorrhizal dominated stands in KNP.

### **ADDITIONAL SKILLS**

Driving

Photography

Computing: Word-processing (Microsoft Office 10)

Data analysis (MINITAB 17, Genstat, R Package, matlab and sgeostat). Graphics (Cricket graphs, MINITAB 17, R Package).

### **HONOURS AND AWARDS**

1988 -1991 Cameroon Government Scholarship awards for BSc, MSc and first year PhD.

1991-1994 British Council Technical Cooperation study fellowship award for PhD programme in Scotland, UK.

### **INTERESTS AND ACTIVITIES**

Member of British Ecological Society

Member of Cameroon Wildlife Conservation Society

Member of National Geographic Society

Member of Bioresources Development and Conservation Programme-Cameroon.

Member of Association of Tropical Biology and Conservation

Research Associate with Smithsonian Tropical Research Institute (STRI)

### **PUBLICATIONS**

#### **ACADEMIC PULICATIONS**

**Chuyong, G.B** (1994) Nutrient Cycling in Ectomycorrhizal Legume-Dominated Forest in Korup National Park, Cameroon. PhD thesis, University of Stirling, Scotland.

**Chuyong, G.B.** (1990) Comparison of 3-P and model Based Sampling methods for Timber Inventory in a Tropical High Forest Area in Nigeria. Unpublished MS.c (Forest Biometrics) thesis, University of Ibadan, Ibadan, Nigeria.

**Chuyong, G.B.** (1988) Yield Tables for *Gmelina arborea* stands in Gambari Forest Reserve, Nigeria. Unpublished B.Sc (Forestry) thesis, University of Ibadan, Ibadan, Nigeria.

### **JOURNAL ARTICLES**

- Piponiot C., Anderson-Teixeira KJ, Davies SJ, Allen D., Bourg NA., Burslem DFRP, Cárdenas D., Chang-Yang C-H, **Chuyong G.**, et al. (2022). Distribution of biomass dynamics in relation to tree size in forests across the world. *New Phytologist* First published: 24 February 2022 <https://doi.org/10.1111/nph.17995>
- Mokake SE, **Chuyong GB**, Egbe AE and Ewusi NB. (2022). Silvicultural assessment of enrichment planting with commercial tree species after selective logging. *Journal of Ecology and the Environment* 14(1): 28-43.
- Drager AP, **Chuyong GB**, Kenfack D., Nkomo WA, Thomas DW, Wandji RT. 2022. What structures diurnal visitation rates to flowering trees in an Afrotropical lowland rainforest understory? *Insect Conservation and Diversity* 15 (1):19-35
- Needham JF, Johnson DJ., Anderson-Teixeira KJ, Bourg N, Bunyavejchewin S., Butt N., Cao M., Cardenas D., Chang-Yang CH, Chen YY, **Chuyong G.**, et al. 2022. Demographic composition, not demographic diversity, predicts biomass and turnover across temperate and tropical forests. *Global Change Biology* 28(9):2895-2909.
- Blundo C., Carilla J, Grau R, Malizia A, Malizia L, Osinaga-Acosta O. et al. 2021. Taking the pulse of Earth's tropical forests using networks of highly distributed plots. *Biological conservation* 260:108849
- Kambach S., Condit R., Aguilar S., et al. 2021. The growth–survival and stature–recruitment trade-offs structure the majority of tropical forests. *Authorea*. November 01, 2021 Preprint. DOI: 10.22541/au.163253541.10680169/v2.
- Hubau W, Lewis SL, Phillips OL, Affum-Baffoe K, Beeckman H, et al. 2020. Asynchronous carbon sink saturation in African and Amazonian tropical forests. *Nature* 579: 80-87
- Ploton P., Mortier P., Barbier N., Cornu G., Réjou-Méchain M., Rossi V., Alonso A., Bastin JF., Bayol N., Bénédet F., Bissiengou P., **Chuyong G.**, Demarquez B., Doucet JL., Droissart V., Kamdem NG., Kenfack D., Memiaghe H., Libalah M., Sonké B., Texier N., Thomas D., Zebaze D., Péliissier R. & Gourlet-Fleury S.(2020). A map of African humid tropical forest aboveground biomass derived from management inventories. *Scientific Data* 7:1-13
- Chuyong GB.**; Duah I. & Darkwa K. (2019): The Morphometric Evidence and Antifungal Activity of *Chromolaena odorata* in Western Cameroon. *Journal of Herbs, Spices & Medicinal Plants* 25 (4):401-413
- Ren H.; Keil P.; Mi X.; Ma K. et al. (2019). Environment- and trait-mediated scaling of tree occupancy in forests worldwide. *Global Ecology and Biogeography*. 10.1111/geb.12922.
- Girma Z.; **Chuyong G.**; Evangelista P. & Mamo Y. 2018. Vascular plant species composition, relative abundance, distribution and threats in Arsi Mountains National Park, Ethiopia. *Mountain Research and Development* 38 (2):143 – 152
- Girma Z.; **Chuyong G.**; and Mamo Y. 2018. Impact of Livestock Encroachments and Tree

Removal on Populations of Mountain Nyala and Menelik's Bushbuck in Arsi Mountains National Park, Ethiopia. *International Journal of Ecology*, 2018

Lutz, JA; Furniss, TJ; Johnson, DJ; Davies, SJ; Allen, D; Alonso, A; Anderson-Teixeira, KJ; Andrade, A; Baltzer, J; Becker, KML; Blomdahl, EM; Bourg, NA; Bunyavejchewin, S; Burslem, DFRP; Cansler, CA; Cao, K; Cao, M; Cardenas, D; Chang, L; Chao, K; Chao, W; Chiang, J-M; Chu, C; **Chuyong, GB**; Clay, K; Condit, R; Cordell, S; Dattaraja, HS; Duque, A; Ewango, CEN; Fischer, GA; Fischer, GA; Fletcher, C; Freund, JA; Giardina, C; Germain, SJ; Gilbert, GS; Hao, Z; Hart, T; Hau, BCH; He, F; Hector, A; Howe, RW; Hsieh, C-F; Hu, Y-H; Hubbell, SP; Inman-Narahari, FM; Itoh, A; Janík, D; Kassim, AR; Kenfack D; Korte, K; Kral, K; Larson, AJ; Li, Y; Lin, Y; Liu, S; Lum, S; Ma, K; Makana, J-R; Malhi, Y; McMahan, SM; McShea, WJ; Memiaghe, HR; Mi, X; Morecroft, M; Musili, PM; Myers JA; Novotny, V; Oliveira A; Ong, P; Orwig, DA; Ostertag, R; Parker, GG; Patankar, R; Phillips, RP; Reynolds, G; Sack, L; Song, G-Z; Su, S-H; Sukumar, R; Sun, I-F; Suresh, SH; Swanson, ME; Tan, S; Thomas, DW; Thompson, J; Uriarte, M; Valencia, R; Vicentini, A; Vrska, T; Wang, X; Weiblen, GD; Wolf, A; Wu, S-H; Xu, H; Yamakura, T; Yap, S; Zimmerman, JK. 2018. Global importance of large-diameter trees. *Global Ecology and Biogeography* 27(7):849-864.

Mokake , SE; **Chuyong, GB**; Egbe, AE; Ndiang, Z; Blaise Jumbam, B. 2018. Natural regeneration of some commercial timber tree species following selective logging in a semi deciduous forest in the east region of Cameroon. *Journal of Biodiversity and Environmental Sciences* 12(1): 22-39.

Kenfack, D; Sainge, MN; **Chuyong, GB**; Thomas DW. 2018. The genus *Cola* (Malvaceae) in Cameroon's Korup National Park, with two novelties. . *Plant Ecology and Evolution* 151 (2): 241–251.

Sainge MN; **Chuyong, GB**. & Townsend, PA. 2017. Endemism and geographic distribution of African Thismiaceae. 2017. *Plant Ecology and Evolution* 150 (3): 304–312.

Libalah , MB; Droissart, V; Sonké,B; Hardy, OJ; Drouet,T; Pescador, DS; Kenfack, D; Thomas,DW; **Chuyong, GB** & Couteron, P . 2017. Shift in functional traits along soil fertility gradient reflects non-random community assembly in a tropical African rainforest. *Plant Ecology and Evolution* 150 (3): 265–278.

Carlucci, MB; Seger, GDS; Sheil, D; Amaral, IL; **Chuyong, GB**; Ferreira, LV; Galatti, U; Hurtado, J; Kenfack, D; Leal, DC. 2017. Phylogenetic composition and structure of tree communities shed light on historical processes influencing tropical rainforest diversity. *Ecography* 40:521-530

**Chuyong, G B**; Acidri, T. 2017. Light and moisture levels affect growth and physiological parameters differently in *Faidherbia albida* (Delile) A. Chev. Seedlings. *Acta Physiologiae Plantarum* 395:117

- LaManna, JA; Mangan, SA; Alonso, A; Bourg, NA; Brockelman, WY; Bunyavejchewin, S; Chang, L; Chiang, J; **Chuyong, GB**; Clay, K. et al. 2017. Plant diversity increases with the strength of negative density dependence at the global scale. *Science*. 356:1389-1392.
- Ploton, P; Barbier, N; Couteron, P; Antin, CM; Ayyappan, N; Balachandran, N; Barathan, N; Bastin, J-F; **Chuyong, G**; Dauby, G. et al. 2017. Toward a general tropical forest biomass prediction model from very high resolution optical satellite images. *Remote Sensing of Environment* 200:140-153.
- Neba, GA; Newbery, D; **Chuyong, GB**. 2016. Limitation of seedling growth by potassium and magnesium supply for two ectomycorrhizal tree species of a Central African rain forest and its implication for their recruitment. *Ecology and evolution* 6:125-142.
- Baldeck, CA; Kembel, SW; Harms, KE; Yavitt, JB; John, R; Turner, BL; Madawala, S; Gunatilleke, N; Gunatilleke, S; Bunyavejchewin, S; S. Kiratiprayoon S; Yaacob A; Supardi MNN; Valencia R.; Navarrete H.; Davies SJ; **Chuyong GB**; Kenfack D; Thomas DW; Dalling JW. 2016. Phylogenetic turnover along local environmental gradients in tropical forest communities. *Oecologia* 182:547-557.
- Ploton, P; Barbier, N; Momo, ST; Réjou-Méchain, M; Boyemba Bosela, F; **Chuyong, GB**; Dauby, G; Droissart, V; Fayolle, A; Goodman, RC; Henry M; Kamdem NG; Katembo Mukirania J.; Kenfack D; Libalah M; Ngomanda A; Rossi V; Sonké B, Texier N, Thomas D; Zebaze D; Couteron P; Berger U; and Pélissier R. 2016. Closing a gap in tropical forest biomass estimation: taking crown mass variation into account in pantropical allometries. *Biogeosciences*. 13:1571-1585
- Lucha CF., and **Chuyong GB**. (2016). Ethnobotanical Survey of Fodder/Forage Plant Species in Range and Farming Systems in the Savannahs of Ngoketunjia, North Western Cameroon. *Int. J. Curr. Res. Biosci. Plant Biol.* 3(6): 50-72
- Nkemnyi MF, De Herdt T, **Chuyong GB**, Vanwing T. 2016. Reconstituting the role of indigenous structures in protected forest management in Cameroon. *For Policy Econ.* 67:45–51.
- Mbunya MF., De Herdt T., **Chuyong GB.**, Vanwing T. 2016. The influence of institutions on access to forest resources in Cameroon: The case of Tofala Hill Wildlife Sanctuary. *Journal for Nature Conservation* 34: 42–50
- Girma Z., **Chuyong G.**, Evangelista P. and Mamo Y. 2015. Habitat characterization and preferences of the mountain nyala (*Tragelaphus buxtoni*, Lydekker 1910) and menelik's bushbuck (*Tragelaphus scriptus meneliki*, Neumann 1902) in Arsi mountains national park, south-eastern Ethiopia. *International Journal of Current Research*. 7, (11): 2307423082.
- Bastin JF., Barbier N, Réjou-Méchain M., Fayolle A, Gourlet-Fleury S., Maniatis D, de Haulleville T., Baya F, Beeckman H., Beina D., Couteron P., **Chuyong G.**, Dauby G. et

al. 2015. Seeing Central African forests through their largest trees. *Scientific Reports* 5:13156 . DOI: 10.1038/srep13156

**Chuyong GB** and T. Acidri. 2015. Combining Pre-sowing Treatments in *Faidherbia albida* (Delile) A. Chev. does not Imply Better Germination Success. *International Journal of Plant & Soil Science* 8(1): 1-6.

Kenfack D, **Chuyong GB**, Condit R, Russo SE & Thomas DW. 2014. Demographic variation and habitat specialization of tree species in a diverse tropical forest of Cameroon. *Forest Ecosystems* 1, 1–13.

Bechem EET, **Chuyong GB** & Fon BT. 2014. A survey of mycorrhizal colonization in the 50ha Korup Forest Dynamic Plot in Cameroon. *American Journal of Plant Sciences* 5 (10):1403

Anderson-Teixeira KJ, Davies, SJ; Bennett, AC; Gonzalez-Akre, EB; Muller-Landau, HC; Wright, SJ; Abu Salim, K; Almeyda Zambrano, AM; Alonso, A; Baltzer, JL; Basset, Y; Bourg, NA; Broadbent, EN; Brockelman, WY; Bunyavejchewin, S; Burslem, DFRP; Butt, N; Cao, M; Cardenas, D; **Chuyong, GB**; Clay, K; Cordell, S; Dattaraja, HS; Deng, X; Detto, D; Du, X; Duque, A; Erikson, DL; Ewango, CEN; Fischer, GA; Fletcher, C; Foster, RB; Giardina, CP; Gilbert, GS; Gunatilleke, N; Gunatilleke, S; Hao, Z; Hargrove, WW; Hart, TB; Hau, BCH; He, F; Hoffman, FM; Howe, RW; Hubbell, SP; InmanNarahari, FM; Jansen, PA; Jiang, M; Johnson, DJ; Kanzaki, M; Kassim, AR; Kenfack, D; Kibet, S; Kinnaird, MF; Korte, L; Kral, K; Kumar, J; Larson, AJ; Li, Y; Li, X; Liu, S; Lum, SKY; Lutz, JA; Ma, K; Maddalena, DM; Makana, JR; Malhi, Y; Marthens, T; Mat Serudin, R; McMahon, SM; McShea, WJ; Memiaghe, HR; Mi, X; Mizuno, T; Morecroft, M; Myers, JA; Novotny, V; Oliveira, AA de; Ong, PS; Orwig, DA; Ostertag, R; Ouden, J d; Parker, GG; Phillips, RP; Sack, L; Sainge, MN; Sang, W; Sri-ngernyuang, K; Sukumar, R; Sun, IF; Sungpalee, W; Suresh, HS; Tan, S; Thomas, SC; Thomas, DW; Thompson, J; Turner, BL; Uriarte, M; Valencia, R; Vallejo, MI; Vicentini, V; Vrška, T; Wang, X; Wang, X; Weiblen, G; Wolf, A; Xu, H; Yap, S; Zimmerman, J. 2015. ForestGEO: a worldwide network monitoring forests in an era of global change. *Global Change Biology. Global Change Biology* 21: 528–549.

Chisholm RA, Condit R, Abd Rahman K, Baker PJ, Bunyavejchewin S, Chen Y-Y, **Chuyong G**, Dattaraja HS, Davies S, Ewango CEN, Gunatilleke CVS, Gunatilleke N IAU, Hubbell S, Kenfack D, Kiratiprayoon S., Lin Y., Makana JR, Pongpattananurak N., Pulla S., Puchi\_Manage R., Sukumar R., S-H, Sun I., Suresh HS, Tan S, Thomas D, Yap S. 2014. *Ecology Letters* 17 (7):855-865

Réjou-Méchain, M., Muller-Landau, H. C., Detto, M., Thomas, S. C., Le Toan, T., Saatchi, S. S., Barreto-Silva, J. S., Bourg, N. A., Bunyavejchewin, S., Butt, N., Brockelman, W. Y., Cao, M., Cárdenas, D., Chiang, J.-M., **Chuyong, G. B.**, Clay, K., Condit, R., Dattaraja, H. S., Davies, S. J., Duque, A., Esufali, S., Ewango, C., Fernando, R. H. S., Fletcher, C.

- D., Gunatilleke, I. A. U. N., Hao, Z., Harms, K. E., Hart, T. B., Hérault, B., Howe, R. W., Hubbell, S. P., Johnson, D. J., Kenfack, D., Larson, A. J., Lin, L., Lin, Y., Lutz, J. A., Makana, J.-R., Malhi, Y., Marthens, T. R., McEwan, R. W., McMahan, S. M., McShea, W. J., Muscarella, R., Nathalang, A., Noor, N. S. M., Nytch, C. J., Oliveira, A. A., Phillips, R. P., Pongpattananurak, N., Puchi-Manage, R., Salim, R., Schurman, J., Sukumar, R., Suresh, H. S., Suwanvecho, U., Thomas, D. W., Thompson, J., Uriarte, M., Valencia, R., Vicentini, A., Wolf, A. T., Yap, S., Yuan, Z., Zartman, C. E., Zimmerman, J. K., and Chave, J.: Local spatial structure of forest biomass and its consequences for remote sensing of carbon stocks, *Biogeosciences*, 11, 6827-6840, doi:10.5194/bg-116827-2014, 2014.
- Parmentier I., Maxime Réjou-Méchain, Jérôme Chave, Jason Vleminckx, Duncan W Thomas, David Kenfack, **George B Chuyong** & Olivier J Hardy. 2014. Prevalence of phylogenetic clustering at multiple scales in an African rain forest tree community. *Journal of Ecology* 102: 1008-1016.
- Stephenson NL, Das AJ, Condit R, Russo SE, Baker PJ, Bechman NG, Coomes DA, Lines ER, Morris WK, Ruger N, Alvarez E, Blundo C., Bunyavejchewin S., **Chuyong G.**, Davies SJ., Duques A., Ewango CN., Flores O., Franklin JF., Grau HR., Hao Z., Harmon ME., Hubbell SP, Kenfack D., Lin Y., Makana J-R., Malizia A., Malizia LR., Pabst RJ., Pongpattananurak N., Su S-H, Sun I-F, Tan S., Thomas D., van Mantgem PJ., Wang X., Wisser SK., Zavala MA. 2014. Rate of tree carbon accumulation increases continuously with tree size. *Nature* 507:90-93. Doi:10.1038/nature12914.
- Parmentier I., Duminil J., Kuzmina M., Phillippe M., Thomas DW., Kenfack D., **Chuyong GB**, Gruaud C., & Hardy OJ. 2013. How effective are DNA barcodes in the identification of African rainforest trees? *PloS ONE* 8 (4) e54921. Doi:10.1038/journalpone.0054921.
- Sainge MN, Kenfack D & **Chuyong GB**. 2013. Two New species of *Afrothismia* (Thismiaceae) from Southern Cameroon. *Kew Bulletin* 68 (4):591-597.
- Chisholm, RA., Muller-Landau HC., Abdul Rahman K., Bebbler DP., Bin Y., Bohlman SA., Bourg NA., Brinks J., Bunyavejchewin S., Butt N. et al. 2013. Scale-dependent relationships between tree species richness and ecosystem function in forests. *Journal of Ecology* 101 (5):1214-1224.
- Fonge, AB., **Chuyong BG.**, Tening AS., Fobid AC and Numbisi NF. (2013). Seasonal occurrence, distribution and diversity of phytoplankton in the Douala Estuary, Cameroon. *African Journal of Aquatic Science* 38(2):23-133
- Tening, AS., **Chuyong GB.**, Asongwe GA., Fonge BA., Lifongo LL., and Tandia BK. 2013. Nitrate and ammonium levels of some water bodies and their interaction with some selected properties of soils in Douala metropolis, Cameroon. *African Journal of Environmental Science and Technology* 7(7):648-656.
- Yang J., Swenson NG., Cao M., **Chuyong GB.**, Ewango CEN., Howe R., Kenfack D., Thomas D., Wolf A. and Lin L. 2013. A phylogenetic perspective on the individual species-area relationship in temperate and tropical tree communities. *PloS one* 8(5):e63192},



- Newbery DM., van der Burgt XM., Worbes M., **Chuyong GB**. 2013. Transient dominance in a central African rain forest. *Ecological Monographs* 83 (3):339-382.
- Tening AS., **Chuyong GB**., Asongwe GA., Fonge BA., Lifongo LL., Mvondo-Ze AD., Che, VB. and Suh CE. 2013. Contribution of some water bodies and the role of soils in the physicochemical enrichment of the Douala-Edea mangrove ecosystem. *African Journal of Environmental Science and Technology* 7 (5):336-349.
- Baldeck CA, Harms KE, Yavitt JB, John R, Turner BL, Valencia R, Navarrete H, Davies SJ, **Chuyong GB**, Kenfack D, Thomas DW, Madawala S, Gunatilleke N, Gunatilleke S, Bunyavejchewin S, Kiratiprayoon S, Yaacob A, Supardi MNN, Dalling JW. 2013. Soil resources and topography shape local tree community structure in tropical forests. *Proceedings of Royal Society B* 280:20122532. <http://dx.doi.org/10.1098/rspb.2012.2532>
- Baldeck CA, Harms KE, Yavitt JB, John R, Turner BL, Valencia R, Navarrete H, Bunyavejchewin S, Kiratiprayoon S, Yaacob A, Supardi MNN, Davies SJ, Hubbell SP, **Chuyong GB**, Kenfack D, Thomas DW, Dalling JW. 2013 Habitat filtering across tree life stages in tropical forest communities. *Proceeding of Royal Society B* 280:20130548.
- Baldeck CA, Kembel SW, Joseph B. Yavitt JB, John R, Turner BL, **Chuyong GB**, Kenfack D, Thomas DW, Madawala S, Gunatilleke N, Gunatilleke S, Bunyavejchewin S, Kiratiprayoon S, Yaacob A, Nur Supardi MN, Valencia R, Navarrete H, Davies SJ, Hubbell SP, Dalling JW 2013. A taxonomic comparison of local habitat niches of tropical trees. *Oecologia* 173 (4):1491-1498
- De Cáceres, M., P. Legendre, R. Valencia, M. Cao, L. Chang, **G. B. Chuyong**, R. Condit, Z. Hao, C. Hsieh, S. P. Hubbell, D. Kenfack, K. Ma, X. Mi, N. N. Supardi, A. Kassim, H. Ren, S. Su, I. Sun, D. W. Thomas, W. Ye, and F. He. (2012). The variation of tree beta diversity across a global network of forest plots. *Global Ecology and Biogeography*.
- Egbe E.A, **Chuyong G.B**, Fonge A.B, Tata B.L and Tabot P.T (2012) The effects of different concentrations of indole-3-butyric acid (IBA) on leafy stem cuttings of four tropical timber species. *Journal of Horticulture Forestry* 45:85-91.
- Chuyong GB**., Kenfack D., Harms KE., Thomas DW., Condit R., and Comita LS. (2011). Habitat specificity and diversity in an African wet tropical forest. *Plant Ecology* 212:1363-1374
- Cleveland C.C, Townsend A.R., Taylor P., Alvarez-Clare S., Bustamante M.M.C., **Chuyong G.**, Dobrowski S.Z., Grierson P., Harms K.E., Houlton B. Z., Marklein A., Parton W., Porder S., Reed S.C., Sierra C.A., Silver W. L., Tanner E. V. J., Weider W.R. (2011). Relationships among net primary productivity, nutrients and climate in tropical rain forest: a pan-tropical analysis. *Ecology Letters* 14:939-947
- Parmentier I., Harrigan RJ., Buermann W., Mitchard ETA., Saatchi S., Malhi Y., Bongers F., Hawthorne WD., Leal ME., Lewis SL., Nusbaumer L., Sheil D., Sosef MSM., AffumBaffoe K., Bakayoko A., **Chuyong GB**., Chatelain C., Comiskey JA., Dauby G., Doucet JL., Fauset S., Gautier L., Gillet JF., Kenfack D., Kouame FN., Kouassi EK.,

- Kouka LA., Parren MPE., Peh KSH., Reitsma JM., Senterre B., Sonke B., Sunderland TCH., Swaine MD., Tchouto MGP., Thomas D., Van Valkenburg JLCH. And Hardy OJ. (2011) Predicting alpha diversity of African rain forests: models based on climate and satellite-derived data do not perform better than a purely spatial model. *Journal of Biogeography*. Online doi 10.1111/j. 1365-2699.2010.02467.x
- Newbery D.M., Praz C. J., van der Burgt X. M., Norghauer J. M. and **Chuyong G. B.** (2010). Recruitment dynamics of the grove-dominant tree *Microberlinia bisulcata* in African rain forest: extending the light response versus adult longevity trade-off concept. *Plant Ecology* 206:151 – 172.
- Focho DA., Egbe EA., **Chuyong GB.**, Fongod AGN., Fonge BA., Ndam WT. and Youssoufa BM. (2010) An ethnobotanical investigation of the family Annonaceae on Mt Cameroon. *Journal of Development and Agricultural Ecology* 4:2148-2158
- Tedersoo L., Nilsson RH., Abarenkov K., Jairus T., Sadam A., Saar I., Bahram M., Bechem E., **Chuyong G.** and Kõljalg U. (2010) 454 Pyrosequencing and Sanger sequencing of tropical mycorrhizal fungi provide similar results but reveal substantial methodological biases. *New Phytologist* doi 10:1111/j. 1469-8137.2010.03373
- DeWalt SJ., Schnitzer SA., Chave J., Bongers F., Burnham R., Cai Z., **Chuyong G.**, Clark DB., Ewango CEN., Gerwing JJ., Gortaire E., Hart T., Ibarra-Manríquez G., Ickes K., Kenfack D., Macía MJ., Makana JR., Martínez-Ramos M., Mascaro J., Sainge M., Muller-Landau HC., Parren MPE., Parthasarathy N., Pérez-Salicrup DR., Putz FE., Romero-Saltos H. and Thomas D. (2010) Annual rainfall and seasonality predict pantropical patterns of liana density and basal area. *Biotropica* 42:309-317
- Njome MS., Suh CE., **Chuyong G.** and de Wit M J. (2010) Volcanic risk perception in rural communities along the slopes of Mount Cameroon, West-Central Africa. *Journal of African Earth Sciences* 58:608-622.
- Ajonina G, Tchikangwa B, **Chuyong GB** and Tchamba M (2009) The challenges and prospects of developing a community based generalized method to assess mangrove ecosystem vulnerability and adaptations to climate change: Experience from Cameroon. *Nature and Faune* 24: 16-25.
- Feka NZ, **Chuyong GB** and Ajonina GN. (2009) Sustainable utilization of mangroves using improved fish-smoking systems: A management perspective from the Douala-Edea Wildlife Reserve, Cameroon. *Tropical Conservation Science* 2 (4): 450-468.
- Newbery DM, Schwan S, **Chuyong GB** and van der Burgt XM (2009) Buttress form of the central African rain forest tree *Microberlinia bisulcata*, and its possible role in nutrient acquisition. *Trees* 33:219-234
- Morlon H, **Chuyong G**, Condit R, Hubell S, Kenfack D, Thomas D, Valencia R, and Green J. L. (2008) A general framework for the distance-decay of similarity in ecological communities. *Ecology Letters* 11:904-917

- Kenfack D, Thomas DW, **Chuyong G.B** and Condit R. (2007). Rarity and abundance in a diverse African forest. *Biodiversity and Conservation* 16:2045-2074
- LaFrankie, J.V, Ashton, P.S, **Chuyong, G.B**, Co, L, Condit, R, Davies, S.J, Foster, R, Hubbell, S.P, Kenfack, D, Lagunzad, D, Losos, E.C, Noor Supardi Md. Nor, Tan, S, Thomas, W.T, Valencia, R, and Villa, G (2006) Contrasting structure and composition of the understory in species-rich tropical rain forests. *Ecology* 87:2298-2305
- Newbery DM, **Chuyong GB**, Zimmermann L. (2006) Mast fruiting of large ectomycorrhizal African rain forest trees: importance of dry season intensity, and the resource limitation hypothesis. *New Phytologist* 170:561-579
- Newbery DM, **Chuyong GB**, Zimmermann L and Praz C. (2006) Seedling survival and growth of three ectomycorrhizal caesalpiniaceous tree species in a Central African rain forest. *Journal of Tropical Ecology* 22:499-511
- Muller-Landau H.C., Condit R, Chave J, Thomas S.C, Bohlman S.A, Buyavejchewin S, Davis S, Foster R, Guntileke S, Gunatileke N, Harms K.E, Hart T, Hubell S, Itoh A, Kassim A.R, LaFrankie J, Lee H.S, Losos E, Makana J, Ohkubo T, Sukumar R, Supradi N, Tan S, Thompson J, Valencia R, Muñoz G.V, Wills C, Yamakura T, **Chuyong G**, Dattaraja H.S, Esufali S, Hall P, Hernandez C, Kenfack D, Kiratiprayoon S, Suresh H.S, Thomas D, Vallejo M.I, Ashton P. (2006a). Testing Metabolic ecology theory for allometric scaling of tree size, growth and mortality in tropical forests. *Ecology Letters* 9:575-588
- Muller-Landau H.C., Condit R, Harms K.E, Mark C.O, Thomas S.C, Buyavejchewin S, **Chuyong G.B**, Co L, Davies S, Foster R, Guntileke N, Gunatileke S, Hart T, Hubell S.P ana J.R, Ohkubo T, Samper C, Sukumar R, Sun I, Supradi N, Tan S, Thomas D, Thompson J, Valencia R, Vallejo M.I, Muñoz G.V, Yamakura T, Zimmerman J.K, , Itoh A, Kassim A.R, Kenfack D, LaFrankie J, Lagunzad D, Lee H. S, Losos E, MakDattaraja H.S, Esufali S, Hall P, He F, Hernandez C, Kiratiprayoon S, Suresh H.S, Wills C, Ashton P. (2006b). Comparing tropical forest tree size distributions with predictions of metabolic ecology and equilibrium models. *Ecology Letters* 9:589-602
- Condit R, Ashton P., Baslev H., Brokaw N., Bunyavejchewin S., **Chuyong G.**, Co L., Dattaraja H.S. Davies S., Esufali S., Ewango C.E.N., Foster R., Gunatileke N., Gunatileke S., Hernandez C., Hubbell S., John R., Kenfack D., Kirakiprayoon, S., Hall P., Hart T., Itoh A., Lafrankie J., Liengola I., Lagunzad D., Lao S., Losos E., Magard E., Makana J., Manokaran N., Navarette H., Mohammed Nur S., Okhubo T., Pérez R., Smaper C., Hua Seng L., Sukumar R., Svenning J.C., Tan S., Thomas D., Thomson J., Valleho M., Villa Muñoz G., Valencia R., Yamakura T. & Zimmerman J. 2005. Tropical tree  $\alpha$ -diversity: Results from a worldwide network of large plots. *Biologiske Skrifter* 55:565-582
- Chuyong GB**, Newbery DM, Songwe NC. 2004. Rainfall input, throughfall and stemflow of nutrients in a central African rain forest dominated by ectomycorrhizal trees. *Biogeochemistry* 67:73-91.

**Chuyong GB**, Newbery DM, Songwe NC. 2002. Litter breakdown and mineralisation in a central African rain forest dominated by ectomycorrhizal trees. *Biogeochemistry* 61:73-94.

Newbery DM, **Chuyong GB**, Green JJ, Songwe NC, Tchuenteu F, Zimmermann L. 2002. Does low phosphorus supply limit establishment and tree growth in groves of ectomycorrhizal trees in central African rainforest? *New Phytologist* 156:297-311.

**Chuyong GB**, Newbery DM, Songwe NC. 2000. Litter nutrients and retranslocation in a central African rain forest dominated by ectomycorrhizal Trees. *New Phytologist* 148:20-32.

## **BOOK CHAPTER**

Thomas, D; Burnham, RJ; **Chuyong, G**; Kenfack, D; Sainge, MN. 2015. Liana abundance and diversity in Cameroon's Korup National Park. Pages 13-22 in S. A. Schnitzer, F. Bongers, F. E. Putz, and R. J. Burnham, editors. *Ecology of lianas*. Wiley-Blackwell, Oxford, UK.

DeWalt, S. J., S. A. Schnitzer, L. F. Alves, F. Bongers, R. J. Burnham, Z. Cai, W. P. Carson, J. Chave, **G. B. Chuyong**, F. R. C. Costa, C. E. N. Ewango, R. V. Gallagher, J. J. Gerwing, E. Gortaire Amezcua, T. Hart, G. Ibarra-Manríquez, K. Ickes, D. Kenfack, S. G. Letcher, M. J. Macía, J.-R. Makana, A. Malizia, M. Martínez-Ramos, J. Mascaro, C. Muthumperumal, S. Muthuramkumar, A. Nogueira, M. P. E. Parren, N. Parthasarathy, D. R. Pérez-Salicrup, F. E. Putz, H. Romero-Saltos, M. S. Reddy, M. N. Sainge, D. Thomas, and J. van Melis. 2015. Biogeographical patterns of liana abundance and diversity. Pages 131-146 in S. A. Schnitzer, F. Bongers, F. E. Putz, and R. J. Burnham, editors. *Ecology of lianas*. Wiley-Blackwell, Oxford, UK.

Ajonina GN, Kairo J., Grimsditch G., Sembres T., Chuyong G. & Diyouke E. 2014. Assessment of Mangrove Carbon Stocks in Cameroon, Gabon, the Republic of Congo (RoC) and the Democratic Republic of Congo (DRC) Including their Potential for Reducing Emissions from Deforestation and Forest Degradation (REDD+). In Diop S., Barousseau JP & Descamps C. eds. *The Land/Ocean Interactions in the Coastal Zone of West and Central Africa*. 177-189. Springer International Publishing

Losos E. & CTFS Working Group<sup>1</sup>. 2004. The Structure of Tropical Forests. In Losos E. C and Leigh, E. G. Jr. eds. *Forest Diversity and Dynamism: Finding from a Large-Scale plot Network*. 69-78. University of Chicago Press, Chicago.

Condit R, Leigh E.G., Lao S. & CTFS Working Group<sup>1</sup>. 2004. Species-Area relationships and Diversity Measures in the Forest Dynamics Plots. In Losos E. C and Leigh, E. G. Jr. eds. *Forest Diversity and Dynamism: Finding from a Large-Scale plot Network*. 79-89. University of Chicago Press, Chicago.

Ashton P. & CTFS Working Group<sup>1</sup>. 2004. Floristics and vegetation of the Forest Dynamics plots. In Losos E.C. and Leigh, E.G. Jr. eds. *Forest Diversity and Dynamism: Findings from a Large-Scale Plot Network*. 90-102. University of Chicago Press, Chicago.

**Chuyong G.B**, Condit R, Kenfack D, Losos E, Sainge M, Songwe N.C and D.W Thomas (2004) Korup Forest Dynamic Plot, Cameroon. Chapter 29 in E.C Losos and E.G

Leigh, Jr eds. *Forest Diversity and Dynamism: Findings from a Large-Scale Plot Network*. 506-516. University of Chicago Press, Chicago

<sup>1</sup> For this book the CTFS Working Group includes P.S. Aston, N. Brokaw, S. Bunyachewin, R. Condit, **G. Chuyong**, L. Co, S.H. Dattaraja, S. Davies, S. Esufali, C. Ewango, R. Foster, N. Gunatilleke, S. Gunatilleke, T. Hart, C. Hernandez, S. Hubbell, A. Itoh, R. John., M. Kanzani, D. Kenfack, S. Kiratipranyoon, J. LaFrankie, H.S. Lee, I. Liengola, S. Lao, E. Losos, J.R. Makana, N. Manokaran, H. Navarete, T. Ohkubo, R. Pérez, N. Pongpattananurak, C. Samper, Kiangsak Sri-ngernyang, R. Sukumar, I.-F. Sun, S.H. Suresh, S. Tan, D. Thomas, J. Thomson, M. Vallejo, G. Villa Munoz, R. Valencia, T. Yamakura and J. Zimmerman.

**Chuyong G.B**, Kenfack, D, Songwe, N.C and Thomas, D.W. (1999) Korup Forest Dynamic Plot: A Biodiversity Database. In (Eds P.C Nkwi & D.A Mbah) *Conserving and Managing Biodiversity in Central Africa: Global challenges and local solutions*. Cameroon Academy of Science Publication. 113-118. Yaounde.

Newbery D.M, Songwe NC, **Chuyong G.B** 1998. Phenology and Dynamics of an African rainforest at Korup, Cameroon. In (Eds DM Newbery, HHT Prins, ND Brown) *Population and Community Dynamics in the Tropics*. 267-308. Blackwell, Oxford.

#### **TEXT BOOKS AND SERIES**

Thomas D.W, Kenfack D, **Chuyong G.B**, Sainge N.M, Losos E.C, Condit R.S and N.C Songwe. (2003) *Tree Species of Southern Cameroon: Tree Distribution Maps, Diameter Tables, and Species Documentation of the 50-Hectare Korup Forest Dynamics plot*. Center for Tropical Forest Science of the Smithsonian Tropical Research Institute and Bioresources Development and Conservation Programme-Cameroon, Washington, D.C. 247pp

#### **CONFERENCE AND INVITED PAPERS**

**Chuyong GB**. 2017. Permanent Sample Plots for monitoring mangrove ecosystems: An Inventory Tool. Regional Forum on “Community management of mangroves in Central Africa: Actions and perspectives“ Douala, Cameroon, 14-16 June 2017.

Ajonina GN., **Chuyong GB** & Usongo PA. 2012. Reducing tropical deforestation and protection of ecosystem services to support food security. Global Environmental Change research Learning Forum. Accra Ghana, 14-16 November 2012

**Chuyong, G.B** & Ewango, CEN. 2007. Sharing African experience within the CTFS network of monitoring plots. The Third Tropical Ecology, Assessment, and Monitoring (TEAM) Network Science Meeting at the InterContinental Miramar Hotel, Panama City, Panama, November 4-7, 2007.

**Chuyong, G.B** & Mih A.M. 2005. Agricultural land use and land degradation in the Mount Cameroon region: Can remote sensing data be of any help? Stakeholders and Project Cycle Management (PCM) workshop on “Capacity Building for Geohazards and Remote Sensing in South Western Cameroon” at COIC Buea Cameroon. 19 September 2005. Thomas D.W.,

- Kenfack D. & **Chuyong G.B.** 2004. Measuring the alpha diversity of trees: Is this a useful tool? *Inside CTFS*, Summer 2004. Center for Tropical Forest Science. Pp 6-7
- Chuyong G.B.**, Kenfack D. & Thomas D.W. 2003. Species-habitat association and diversity at Korup, Cameroon. *Inside CTFS*, Summer 2003. Center for Tropical Forest Science. P 3
- Chuyong, G.B**, Kenfack, D, Thomas, W.T, Losos, E, Condit R. (2002) Habitat specificity and plant diversity in a central African rainforest at Korup, Cameroon. Paper presented at annual meeting of the Association of Tropical Biology, Panama city, Panama. 29<sup>th</sup> July – 3<sup>rd</sup> August 2002.
- Chuyong, G.B**, Njampa, L, Newbery, D. Mc, Alexander, I. J. (2001) Phosphorus cycling by ectomycorrhizal trees in an African rain forest. Third International Conference on Mycorrhizae, Adelaide, Australia. 14-17 September 2001
- Chuyong, G.B** (1997) Growth and demography of seedlings of some key species in Korup National Park, Cameroon. Paper presented at the Korup research workshop, Mundemba. 01-03 March 1997.
- Chuyong, G.B** and Songwe, N.C (1996) Nutrient Strategies of tropical Forest on poor soils: Ectomycorrhizal association in Korup, South West Cameroon. Paper presented at Workshop on „The Rainforest of South Eastern Nigeria and South Western Cameroon“, Obudu Nigeria. 20<sup>th</sup> –23<sup>rd</sup> October 1996.

## TECHNICAL REPORTS

- Chuyong, G.B**, Songwe N.C Mouncharou G. (2000). Environmental Impact Assessment of Exploration activities in Douala-Edea Forest Reserve; Littoral Province Cameroon. CWCS Yaounde. 35pp.
- Chuyong G.B** (2001). Ecological indices for ecological monitoring in the SE forests of Cameroon. Technical report to WWF-SE Forest Project Yokadouma, Cameroon. 38pp.
- Thomas W.T and **Chuyong G.B.** (2006). The establishment long-term monitoring plots for forest dynamics and regeneration in UFAs in SE Cameroon. Technical Report to CARPE, USAID.USA. 38pp.
- Ajonina G. N., **Chuyong G. B.** & Tchikangwa B. N. (2010). Developing a generalizable methodology for assessing the vulnerability and adaptation of mangroves and associated ecosystems in Cameroon: A Country Synthesis Report. WWF-US-Global Environment Facility Project Development Facility – Climate Change (GEF PDF B) Project.
- Chuyong G.B** & Ajonina G.N (2011). Review and consolidation of monitoring and evaluation system at Transformation Reef Cameroon (TRC), Cameroon. Technical Report to TRC and WWF-Global Forest & Trade Network.
- Ajonina GN, Kairo J., Grimsditch G., Sembres T., **Chuyong G.**, Mibog DE., Nyambane A., &

Fitzgerald C. (2013). Assessment of carbon pools and multiple benefits of mangroves in Central Africa for REDD+. UNEP- Division of Environmental Policy Implementation. Nairobi, Kenya.

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