

---

## *Bibliography*

---

- Adam, E., Mutanga, O., & Rugege, D. (2010). Multispectral and hyperspectral remote sensing for identification and mapping of wetland vegetation: a review. *Wetlands Ecology and Management*, 18(3), 281-296.
- Adler-Golden, S. M., Levine, R. Y., Matthew, M. W., Richtsmeier, S. C., Bernstein, L. S., Gruninger, J. H., ... & Anderson, G. P. (2001, August). Shadow-insensitive material detection/classification with atmospherically corrected hyperspectral imagery. In *Algorithms for Multispectral, Hyperspectral, and Ultraspectral Imagery VII* (Vol. 4381, pp. 460-470). International Society for Optics and Photonics.
- Alexander, S. A., & Palmer, C. J. (1999). Forest health monitoring in the United States: First four years. *Environmental Monitoring and Assessment*, 55(2), 267-277.
- Alonzo, M., Bookhagen, B., & Roberts, D. A. (2014). Urban tree species mapping using hyperspectral and lidar data fusion. *Remote Sensing of Environment*, 148, 70-83.
- Anderson, J. E., Plourde, L. C., Martin, M. E., Braswell, B. H., Smith, M. L., Dubayah, R. O., ... & Blair, J. B. (2008). Integrating waveform lidar with hyperspectral imagery for inventory of a northern temperate forest. *Remote Sensing of Environment*, 112(4), 1856-1870.
- Anhold, J., Mitchell, B., Wilcox, C., Mellin, T., Merrick, M., Lynch, A. & Evans, D. (2015). Using LiDAR to evaluate forest landscapes and health factors and their relationship to habitat of the endangered Mount Graham red squirrel on the Coronado National Forest, Pinaleno Mountains, Arizona
- Bennett, D. D., & Tkacz, B. M. (2008). Forest health monitoring in the United States: a program overview. *Australian Forestry*, 71(3), 223-228.
- Blackburn, G. A. (1998). Quantifying chlorophylls and carotenoids at leaf and canopy scales: An evaluation of some hyperspectral approaches. *Remote sensing of environment*, 66(3), 273-285.
- Blackburn, G. A. (2006). Hyperspectral remote sensing of plant pigments. *Journal of experimental botany*, 58(4), 855-867.
- Boardman, J. W. (1993). Automating spectral unmixing of AVIRIS data using convex geometry concepts.
- Bonan, G. B. (2008). Forests and climate change: forcings, feedbacks, and the climate benefits of forests. *science*, 320(5882), 1444-1449.
- Borengasser, M., Hungate, W. S., & Watkins, R. (2007). *Hyperspectral remote sensing: principles and applications*. CRC press.
- Borka, G. (1984). Effect of metalliferous dusts from dressing works on the growth, development, main metabolic processes and yields of winter wheat in situ and under controlled conditions. *Environmental Pollution Series A, Ecological and Biological*, 35(1), 67-73.
- Broich, M., Hansen, M. C., Potapov, P., Adusei, B., Lindquist, E., & Stehman, S. V. (2011). Time-series analysis of multi-resolution optical imagery for quantifying forest cover loss in Sumatra

- and Kalimantan, Indonesia. *International Journal of Applied Earth Observation and Geoinformation*, 13(2), 277-291.
- Bruce, P. G., Scrosati, B., & Tarascon, J. M. (2008). Nanomaterials for rechargeable lithium batteries. *Angewandte Chemie International Edition*, 47(16), 2930-2946.
- Bruzzone, L., Roli, F., & Serpico, S. B. (1995). An extension of the Jeffreys-Matusita distance to multiclass cases for feature selection. *IEEE Transactions on Geoscience and Remote Sensing*, 33(6), 1318-1321.
- Bunting, P., & Lucas, R. (2006). The delineation of tree crowns in Australian mixed species forests using hyperspectral Compact Airborne Spectrographic Imager (CASI) data. *Remote Sensing of Environment*, 101(2), 230-248.
- Bussotti, F., Feducci, M., Iacopetti, G., Maggino, F., Pollastrini, M., & Selvi, F. (2018). Linking forest diversity and tree health: preliminary insights from a large-scale survey in Italy. *Forest Ecosystems*, 5(1), 12.
- Carter, G. A., & Miller, R. L. (1994). Early detection of plant stress by digital imaging within narrow stress-sensitive wavebands. *Remote sensing of environment*, 50(3), 295-302.
- Chakraborty, S., Sahoo, S., Majumdar, D., Saha, S., & Roy, S. (2019). Future Mangrove Suitability Assessment of Andaman to strengthen sustainable development. *Journal of Cleaner Production*, 234, 597-614.
- Chakravarty, S., Ghosh, S. K., Suresh, C. P., Dey, A. N., & Shukla, G. (2012). Deforestation: causes, effects and control strategies. In *Global perspectives on sustainable forest management*. IntechOpen.
- Chambers, J. Q., Asner, G. P., Morton, D. C., Anderson, L. O., Saatchi, S. S., Espírito-Santo, F. D., ... & Souza Jr, C. (2007). Regional ecosystem structure and function: ecological insights from remote sensing of tropical forests. *Trends in Ecology & Evolution*, 22(8), 414-423.
- Chan, J. C. W., & Paelinckx, D. (2008). Evaluation of Random Forest and Adaboost tree-based ensemble classification and spectral band selection for ecotope mapping using airborne hyperspectral imagery. *Remote Sensing of Environment*, 112(6), 2999-3011.
- Chazdon, R. L. (2008). Beyond deforestation: restoring forests and ecosystem services on degraded lands. *science*, 320(5882), 1458-1460.
- Chen, D., Nie, W., Cai, P., & Liu, Z. (2018). The diffusion of dust in a fully-mechanized mining face with a mining height of 7 m and the application of wet dust-collecting nets. *Journal of Cleaner Production*, 205, 463-476.
- Cho, M. A., Debba, P., Mathieu, R., Naidoo, L., Van Aardt, J., & Asner, G. P. (2010). Improving discrimination of savanna tree species through a multiple-endmember spectral angle mapper approach: Canopy-level analysis. *IEEE Transactions on Geoscience and Remote Sensing*, 48(11), 4133-4142.
- Cho, M. A., Mathieu, R., Asner, G. P., Naidoo, L., van Aardt, J., Ramoelo, A., ... & Erasmus, B. (2012). Mapping tree species composition in South African savannas using an integrated airborne spectral and LiDAR system. *Remote Sensing of Environment*, 125, 214-226.
- Ciesla, W. M. (2000). Remote sensing in forest health protection.

- Cissel, J. H., Swanson, F. J., McKee, W. A., & Burditt, A. L. (1994). Using the past to plan the future in the Pacific Northwest. *Journal of Forestry*, 92(8), 30-31.
- Clevers, J. G., & Kooistra, L. (2012). Using hyperspectral remote sensing data for retrieving canopy chlorophyll and nitrogen content. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, 5(2), 574-583.
- Coates, A. R., Dennison, P. E., Roberts, D. A., & Roth, K. L. (2015). Monitoring the impacts of severe drought on southern California chaparral species using hyperspectral and thermal infrared imagery. *Remote Sensing*, 7(11), 14276-14291.
- Conesa, H. M., Faz, Á., & Arnaldos, R. (2006). Heavy metal accumulation and tolerance in plants from mine tailings of the semiarid Cartagena–La Unión mining district (SE Spain). *Science of the Total Environment*, 366(1), 1-11.
- Congalton, R. G. (1991). A review of assessing the accuracy of classifications of remotely sensed data. *Remote sensing of environment*, 37(1), 35-46.
- Cramer, V. A., & Hobbs, R. J. (2002). Ecological consequences of altered hydrological regimes in fragmented ecosystems in southern Australia: impacts and possible management responses. *Austral Ecology*, 27(5), 546-564.
- Croft, H., Chen, J. M., & Zhang, Y. (2014). The applicability of empirical vegetation indices for determining leaf chlorophyll content over different leaf and canopy structures. *Ecological Complexity*, 17, 119-130.
- Cueva Ortiz, J., Espinosa, C., Quiroz Dahik, C., Aguirre Mendoza, Z., Cueva Ortiz, E., Gusmán, E., ... & Hildebrandt, P. (2019). Influence of Anthropogenic Factors on the Diversity and Structure of a Dry Forest in the Central Part of the Tumbesian Region (Ecuador–Perú). *Forests*, 10(1), 31.
- Curran, P. J. (1989). Remote sensing of foliar chemistry. *Remote sensing of environment*, 30(3), 271-278.
- Curran, P. J., Dungan, J. L., & Peterson, D. L. (2001). Estimating the foliar biochemical concentration of leaves with reflectance spectrometry: testing the Kokaly and Clark methodologies. *Remote Sensing of Environment*, 76(3), 349-359.
- Curran, Paul J. "Remote sensing of foliar chemistry." *Remote sensing of environment* 30.3 (1989): 271-278.
- Dai, J., & Blackhurst, J. (2012). A four-phase AHP–QFD approach for supplier assessment: a sustainability perspective. *International Journal of Production Research*, 50(19), 5474-5490.
- Dale, V. H., Joyce, L. A., McNulty, S., Neilson, R. P., Ayres, M. P., Flannigan, M. D., ... & Simberloff, D. (2001). Climate change and forest disturbances. *BioScience*, 51(9), 723-734.
- Dale, V. H., Joyce, L. A., McNulty, S., Neilson, R. P., Ayres, M. P., Flannigan, M. D., ... & Simberloff, D. (2001). Climate change and forest disturbances: climate change can affect forests by altering the frequency, intensity, duration, and timing of fire, drought, introduced species, insect and pathogen outbreaks, hurricanes, windstorms, ice storms, or landslides. *BioScience*, 51(9), 723-734.
- Dalponte, M., Ørka, H. O., Ene, L. T., Gobakken, T., & Næsset, E. (2014). Tree crown delineation and tree species classification in boreal forests using hyperspectral and ALS data. *Remote sensing of environment*, 140, 306-317.

- Dalponte, M., Orka, H. O., Gobakken, T., Gianelle, D., & Næsset, E. (2013). Tree species classification in boreal forests with hyperspectral data. *IEEE Transactions on Geoscience and Remote Sensing*, 51(5), 2632-2645.
- Dash, J. P., Watt, M. S., Pearse, G. D., Heaphy, M., & Dungey, H. S. (2017). Assessing very high resolution UAV imagery for monitoring forest health during a simulated disease outbreak. *ISPRS Journal of Photogrammetry and Remote Sensing*, 131, 1-14.
- De Carvalho, O. A., & Meneses, P. R. (2000, February). Spectral correlation mapper (SCM): an improvement on the spectral angle mapper (SAM). In *Summaries of the 9th JPL Airborne Earth Science Workshop*, JPL Publication 00-18 (Vol. 9). JPL Publication Pasadena, CA.
- Decocq, G., Aubert, M., Dupont, F., Alard, D., Saguez, R., Wattez-Franger, A. N. N. I. E., ... & Bardat, J. (2004). Plant diversity in a managed temperate deciduous forest: understorey response to two silvicultural systems. *Journal of Applied Ecology*, 41(6), 1065-1079.
- Delalieux, S., Somers, B., Verstraeten, W. W., Van Aardt, J. A. N., Keulemans, W., & Coppin, P. (2009). Hyperspectral indices to diagnose leaf biotic stress of apple plants, considering leaf phenology. *International Journal of Remote Sensing*, 30(8), 1887-1912.
- Delgado, J. D., Arroyo, N. L., Arévalo, J. R., & Fernández-Palacios, J. M. (2007). Edge effects of roads on temperature, light, canopy cover, and canopy height in laurel and pine forests (Tenerife, Canary Islands). *Landscape and Urban planning*, 81(4), 328-340.
- Deng, H., Ye, Z. H., & Wong, M. H. (2004). Accumulation of lead, zinc, copper and cadmium by 12 wetland plant species thriving in metal-contaminated sites in China. *Environmental pollution*, 132(1), 29-40.
- Dhar, A., Sahoo, S., & Sahoo, M. (2015). Identification of groundwater potential zones considering water quality aspect. *Environmental Earth Sciences*, 74(7), 5663-5675.
- Divya, K., Smitha, V., & Jisha, M. S. (2018). Antifungal, antioxidant and cytotoxic activities of chitosan nanoparticles and its use as an edible coating on vegetables. *International journal of biological macromolecules*, 114, 572-577.
- Dudley, K. L., Dennison, P. E., Roth, K. L., Roberts, D. A., & Coates, A. R. (2015). A multi-temporal spectral library approach for mapping vegetation species across spatial and temporal phenological gradients. *Remote Sensing of Environment*, 167, 121-134.
- Farmer, A. M. (1993). The effects of dust on vegetation—a review. *Environmental pollution*, 79(1), 63-75.
- Fayolle, A., Engelbrecht, B., Freycon, V., Mortier, F., Swaine, M., Réjou-Méchain, M. & Gourlet-Fleury, S. (2012). Geological substrates shape tree species and trait distributions in African moist forests. *PloS one*, 7(8), e42381.
- Fei, S. (2010). Applying hotspot detection methods in forestry: a case study of chestnut oak regeneration. *International Journal of Forestry Research*, 2010.
- Franklin, S. E. (2001). *Remote sensing for sustainable forest management*. CRC Press.
- Fuller, D. O. (2006). Tropical forest monitoring and remote sensing: A new era of transparency in forest governance?. *Singapore Journal of Tropical Geography*, 27(1), 15-29.

- Garden, D. M. G. M. B. (1970). Physical and physiological properties of plants. *Remote Sensing with Special Reference to Agriculture and Forestry: With Special Reference to Agriculture and Forestry*, 224.
- Gasparovic, M., & Jogun, T. (2018). The effect of fusing Sentinel-2 bands on land-cover classification. *International journal of remote sensing*, 39(3), 822-841.
- Gautam, R., Hsu, N. C., Lau, W. K. M., & Yasunari, T. J. (2013). Satellite observations of desert dust-induced Himalayan snow darkening. *Geophysical Research Letters*, 40(5), 988-993.
- Gauthier, S., Bernier, P., Kuuluvainen, T., Shvidenko, A. Z., & Schepaschenko, D. G. (2015). Boreal forest health and global change. *Science*, 349(6250), 819-822.
- George, R., Padalia, H., & Kushwaha, S. P. S. (2014). Forest tree species discrimination in western Himalaya using EO-1 Hyperion. *International Journal of Applied Earth Observation and Geoinformation*, 28, 140-149.
- Getter, K. L., & Rowe, D. B. (2006). The role of extensive green roofs in sustainable development. *HortScience*, 41(5), 1276-1285.
- Getzin, S., Wiegand, K., & Schöning, I. (2012). Assessing biodiversity in forests using very high-resolution images and unmanned aerial vehicles. *Methods in ecology and evolution*, 3(2), 397-404.
- Ghazoul, J., & Sheil, D. (2010). *Tropical rain forest ecology, diversity, and conservation* (No. 577.34 G4).
- Ghiyamat, A., Shafri, H. Z. M., Mahdiraji, G. A., Shariff, A. R. M., & Mansor, S. (2013). Hyperspectral discrimination of tree species with different classifications using single-and multiple-endmember. *International journal of applied earth observation and geoinformation*, 23, 177-191.
- Ghose, M. K. (2007). Generation and quantification of hazardous dusts from coal mining in the Indian context. *Environmental monitoring and assessment*, 130(1-3), 35-45.
- Ghose, M. K., & Majee, S. R. (2007). Characteristics of hazardous airborne dust around an Indian surface coal mining area. *Environmental Monitoring and Assessment*, 130(1-3), 17-25.
- Gibbs, H. K., Munger, J., L'Roe, J., Barreto, P., Pereira, R., Christie, M., ... & Walker, N. F. (2016). Did ranchers and slaughterhouses respond to zero-deforestation agreements in the Brazilian Amazon?. *Conservation Letters*, 9(1), 32-42.
- Gigović, L., Pamučar, D., Božanić, D., & Ljubojević, S. (2017). Application of the GIS-DANP-MABAC multi-criteria model for selecting the location of wind farms: A case study of Vojvodina, Serbia. *Renewable Energy*, 103, 501-521.
- Giorgi, F., Bi, X., & Pal, J. (2004). Mean, interannual variability and trends in a regional climate change experiment over Europe. II: climate change scenarios (2071–2100). *Climate Dynamics*, 23(7-8), 839-858.
- Gismondi, M., Kamusoko, C., Furuya, T., Tomimura, S., & Maya, M. (2014). MOLUSCE—An open source land use change analyst for QGIS.
- Gitelson, A. A., Vina, A., Ciganda, V., Rundquist, D. C., & Arkebauer, T. J. (2005). Remote estimation of canopy chlorophyll content in crops. *Geophysical Research Letters*, 32(8).

- Gong, P., Pu, R., Biging, G. S., & Larrieu, M. R. (2003). Estimation of forest leaf area index using vegetation indices derived from Hyperion hyperspectral data. *IEEE transactions on geoscience and remote sensing*, 41(6), 1355-1362.
- Gorelick, R. (2006). Combining richness and abundance into a single diversity index using matrix analogues of Shannon's and Simpson's indices. *Ecography*, 29(4), 525-530.
- Grantz, D. A., Garner, J. H. B., & Johnson, D. W. (2003). Ecological effects of particulate matter. *Environment international*, 29(2-3), 213-239.
- Green, P. E., & Srinivasan, V. (1978). Conjoint analysis in consumer research: issues and outlook. *Journal of consumer research*, 5(2), 103-123.
- Griffin, J. N., Jenkins, S. R., Gamfeldt, L., Jones, D., Hawkins, S. J., & Thompson, R. C. (2009). Spatial heterogeneity increases the importance of species richness for an ecosystem process. *Oikos*, 118(9), 1335-1342.
- Ismail, R., Mutanga, O., & Bob, U. (2007). Forest health and vitality: the detection and monitoring of *Pinus patula* trees infected by *Sirex noctilio* using digital multispectral imagery. *Southern Hemisphere Forestry Journal*, 69(1), 39-47.
- Itten, K. I., & Meyer, P. (1993). Geometric and radiometric correction of TM data of mountainous forested areas. *IEEE Transactions on geoscience and remote sensing*, 31(4), 764-770.
- Jamil, S., Abhilash, P. C., Singh, A., Singh, N., & Behl, H. M. (2009). Fly ash trapping and metal accumulating capacity of plants: Implication for green belt around thermal power plants. *Landscape and Urban Planning*, 92(2), 136-147.
- Jenkins, J. P., Richardson, A. D., Braswell, B. H., Ollinger, S. V., Hollinger, D. Y., & Smith, M. L. (2007). Refining light-use efficiency calculations for a deciduous forest canopy using simultaneous tower-based carbon flux and radiometric measurements. *Agricultural and Forest Meteorology*, 143(1-2), 64-79.
- Jha, C. S., Singhal, J., Reddy, C. S., Rajashekar, G., Maity, S., Patnaik, C., ... & Krishnayya, N. S. R. (2019). Characterization of species diversity and forest health using AVIRIS-NG hyperspectral remote sensing data. *Current Science* (00113891), 116(7).
- Jiang, Z., Huete, A. R., Didan, K., & Miura, T. (2008). Development of a two-band enhanced vegetation index without a blue band. *Remote sensing of Environment*, 112(10), 3833-3845.
- Johnson, P. S., Shifley, S. R., & Rogers, R. (2009). *The ecology and silviculture of oaks*. CABI.
- Jones, H. G. (2013). *Plants and microclimate: a quantitative approach to environmental plant physiology*. Cambridge university press.
- Jordan, C. F. (1969). Derivation of leaf-area index from quality of light on the forest floor. *Ecology*, 50(4), 663-666.
- Joshi, P. C., & Swami, A. (2007). Physiological responses of some tree species under roadside automobile pollution stress around city of Haridwar, India. *The Environmentalist*, 27(3), 365-374.
- Kamruzzaman, M., Makino, Y., Oshita, S., & Liu, S. (2015). Assessment of visible near-infrared hyperspectral imaging as a tool for detection of horsemeat adulteration in minced beef. *Food and Bioprocess Technology*, 8(5), 1054-1062.

- Kayet, N., Chakrabarty, A., Pathak, K., Sahoo, S., Dutta, T., & Hatai, B. K. (2018) Comparative analysis of multi-criteria probabilistic FR and AHP models for forest fire risk (FFR) mapping in Melghat Tiger Reserve (MTR) forest. *Journal of Forestry Research*, 1-15.
- Kayet, N., Pathak, K., Chakrabarty, A., & Sahoo, S. (2016). Spatial impact of land use/land cover change on surface temperature distribution in Saranda Forest, Jharkhand. *Modeling Earth Systems and Environment*, 2(3), 127.
- Kayet, N., Pathak, K., Chakrabarty, A., & Sahoo, S. (2016). Urban heat island explored by co-relationship between land surface temperature vs multiple vegetation indices. *Spatial Information Research*, 24(5), 515-529.
- Kayet, N., Pathak, K., Chakrabarty, A., Kumar, S., Chowdary, V. M., Singh, C. P., & S (2019). Forest Health Assessment for Geo-Environmental Planning and Management in hilltop mining areas using Hyperion and Landsat data. *Ecological Indicators*
- Kayet, N., Pathak, K., Chakrabarty, A., Kumar, S., Chowdary, V. M., Singh, C. P. & Basumatary, S. (2019). Assessment of foliar dust using Hyperion and Landsat satellite imagery for mine environmental monitoring in an open cast iron ore mining areas. *Journal of Cleaner Production*, 218, 993-1006.
- Khan, M. S., Zaidi, A., Ahemad, M., Oves, M., & Wani, P. A. (2010). Plant growth promotion by phosphate solubilizing fungi—current perspective. *Archives of Agronomy and Soil Science*, 56(1), 73-98.
- Khare, A. K. (2014). Effect of *Azolla Microphylla* Supplementation on Growth rate and Blood Constituents of Crossbred Female Calves (Doctoral dissertation, NDRI, Karnal).
- Kiran, G. S., & Mudaliar, A. (2012). Remote sensing & Geo-informatics technology in evaluation of forest tree diversity. *Asian Journal of Plant Science and Research*, 2(3), 237-242.
- Klos, R. J., Wang, G. G., Bauerle, W. L., & Rieck, J. R. (2009). Drought impact on forest growth and mortality in the southeast USA: an analysis using Forest Health and Monitoring data. *Ecological Applications*, 19(3), 699-708.
- Koch, B. (2010). Status and future of laser scanning, synthetic aperture radar and hyperspectral remote sensing data for forest biomass assessment. *ISPRS Journal of Photogrammetry and Remote Sensing*, 65(6), 581-590.
- Kolb, T. E., Wagner, M. R., & Covington, W. W. (1994). Concepts of forest health: utilitarian and ecosystem perspectives. *Society of American Foresters*.
- Kopačková, V., Lhotáková, Z., Oulehle, F., & Albrechtová, J. (2015). Assessing forest health via linking the geochemical properties of a soil profile with the biochemical parameters of vegetation. *International Journal of Environmental Science and Technology*, 12(6), 1987-2002.
- Kovacs, J. M., Wang, J., & Flores-Verdugo, F. (2005). Mapping mangrove leaf area index at the species level using IKONOS and LAI-2000 sensors for the Agua Brava Lagoon, Mexican Pacific. *Estuarine, Coastal and Shelf Science*, 62(1), 377-384.
- Kozoderov, V. V., Dmitriev, E. V., & Sokolov, A. A. (2015). Improved technique for retrieval of forest parameters from hyperspectral remote sensing data. *Optics express*, 23(24), A1342-A1353.
- Kozoderov, V., Kondranin, T., Dmitriev, E., & Kamentsev, V. (2015). Bayesian classifier applications of airborne hyperspectral imagery processing for forested areas. *Advances in Space Research*, 55(11), 2657-2667.

- Kruse, F. A., Lefkoff, A. B., Boardman, J. W., Heidebrecht, K. B., Shapiro, A. T., Barloon, P. J., & Goetz, A. F. H. (1993). The spectral image processing system (SIPS)—interactive visualization and analysis of imaging spectrometer data. *Remote sensing of environment*, 44(2-3), 145-163
- Kumar, S. P., Ramaiah, N., & Sreepada, R. A. (2015). Ecosystem characterisation of Indian coast with special focus on the west coast.
- Landgrebe, D. A. 2003. *Signal Theory Methods in Multispectral Remote Sensing*. New York, N.Y.: Wiley
- Lassau, S. A., & Hochuli, D. F. (2005). Wasp community responses to habitat complexity in Sydney sandstone forests. *Austral Ecology*, 30(2), 179-187.
- Latte, N., Lebourgeois, F., & Claessens, H. (2015). Increased tree-growth synchronization of beech (*Fagus sylvatica* L.) in response to climate change in northwestern Europe. *Dendrochronologia*, 33, 69-77.
- Laurin, G. V., Chan, J. C. W., Chen, Q., Lindsell, J. A., Coomes, D. A., Guerriero, L., ... & Valentini, R. (2014). Biodiversity mapping in a tropical West African forest with airborne hyperspectral data. *PLoS One*, 9(6), e97910.
- Lausch, A., Erasmi, S., King, D., Magdon, P., & Heurich, M. (2017). Understanding forest health with remote sensing-part II—a review of approaches and data models. *Remote Sensing*, 9(2), 129.
- Lee, I. Y., Hänel, G., & Pruppacher, H. R. (1980). A numerical determination of the evolution of cloud drop spectra due to condensation on natural aerosol particles. *Journal of the Atmospheric Sciences*, 37(8), 1839-1853.
- Lee, S., & Lathrop, R. G. (2005). Sub-pixel estimation of urban land cover components with linear mixture model analysis and Landsat Thematic Mapper imagery. *International Journal of Remote Sensing*, 26(22), 4885-4905.
- Lenhard, Karim, Michael E. Schaepman, Ross Purves, Peter Gege, and Andreas Hüni.(2005) "Improving the Calibration of Airborne Hyperspectral Sensors for Earth Observation."
- Lenney, M. P., Woodcock, C. E., Collins, J. B., & Hamdi, H. (1996). The status of agricultural lands in Egypt: the use of multitemporal NDVI features derived from Landsat TM. *Remote Sensing of Environment*, 56(1), 8-20.
- Leutner, B. F., Reineking, B., Müller, J., Bachmann, M., Beierkuhnlein, C., Dech, S., & Wegmann, M. (2012). Modelling forest  $\alpha$ -diversity and floristic composition—On the added value of LiDAR plus hyperspectral remote sensing. *Remote Sensing*, 4(9), 2818-2845.
- Lévesque, J., & King, D. J. (2003). Spatial analysis of radiometric fractions from high-resolution multispectral imagery for modelling individual tree crown and forest canopy structure and health. *Remote Sensing of Environment*, 84(4), 589-602.
- Li, Z., Ma, Z., van der Kuijp, T. J., Yuan, Z., & Huang, L. (2014). A review of soil heavy metal pollution from mines in China: pollution and health risk assessment. *Science of the total environment*, 468, 843-853.
- Lim, K., Treitz, P., Wulder, M., St-Onge, B., & Flood, M. (2003). LiDAR remote sensing of forest structure. *Progress in physical geography*, 27(1), 88-106.



- Loehle, C., Idso, C., & Wigley, T. B. (2016). Physiological and ecological factors influencing recent trends in United States forest health responses to climate change. *Forest Ecology and Management*, 363, 179-189.
- Lu, D., Mausel, P., Batistella, M., & Moran, E. (2005). Land-cover binary change detection methods for use in the moist tropical region of the Amazon: a comparative study. *International Journal of Remote Sensing*, 26(1), 101-114.
- Ma, B., Pu, R., Wu, L., & Zhang, S. (2017). Vegetation Index Differencing for Estimating Foliar Dust in an Ultra-Low-Grade Magnetite Mining Area Using Landsat Imagery. *Ieee Access*, 5, 8825-8834.
- Madubansi, M., & Shackleton, C. M. (2006). Changing energy profiles and consumption patterns following electrification in five rural villages, South Africa. *Energy Policy*, 34(18), 4081-4092.
- Mandal, S. P., Chakrabarty, A., & Maity, P. (2018). Comparative evaluation of information value and frequency ratio in landslide susceptibility analysis along national highways of Sikkim Himalaya. *Spatial Information Research*, 26(2), 127-141.
- Manning, W. J. (2001). Air pollution and forest health: establishing cause and effect in the forest. *The Scientific World Journal*, 1, 391-392.
- Mapfumo, R. B., Murwira, A., Masocha, M., & Andriani, R. (2016). The relationship between satellite-derived indices and species diversity across African savanna ecosystems. *International journal of applied earth observation and geoinformation*, 52, 306-317.
- Marshall, M., Thenkabail, P., Biggs, T., & Post, K. (2016). Hyperspectral narrowband and multispectral broadband indices for remote sensing of crop evapotranspiration and its components (transpiration and soil evaporation). *Agricultural and forest meteorology*, 218, 122-134.
- Matawle, J. L., Pervez, S., Dewangan, S., Shrivastava, A., Tiwari, S., Pant, P., & Pervez, Y. (2015). Characterization of PM<sub>2.5</sub> source profiles for traffic and dust sources in Raipur, India. *Aerosol and Air Quality Research*, 15(7), 2537-2548.
- Meng, J., Li, S., Wang, W., Liu, Q., Xie, S., & Ma, W. (2016). Mapping forest health using spectral and textural information extracted from spot-5 satellite images. *Remote Sensing*, 8(9), 719.
- Merzlyak, M. N., Gitelson, A. A., Pogosyan, S. I., Chivkunova, O. B., Lehimena, L., Garson, M., ... & Rumyantseva, V. B. (1997). Reflectance spectra of leaves and fruits during their development and senescence and under stress. *Russian Journal of Plant Physiology*, 44(5), 614-622.
- Merzlyak, M. N., Solovchenko, A. E., & Gitelson, A. A. (2003). Reflectance spectral features and non-destructive estimation of chlorophyll, carotenoid and anthocyanin content in apple fruit. *Postharvest Biology and Technology*, 27(2), 197-211.
- Möckel, T., Dalmayne, J., Schmid, B., Prentice, H., & Hall, K. (2016). Airborne hyperspectral data predict fine-scale plant species diversity in grazed dry grasslands. *Remote Sensing*, 8(2), 133.
- Moore, B., & Allard, G. (2008). Climate change impacts on forest health. *Forest Health and Biosecurity Working Papers (FAO)*.
- Morin, X., Fahse, L., Jactel, H., Scherer-Lorenzen, M., García-Valdés, R., & Bugmann, H. (2018). Long-term response of forest productivity to climate change is mostly driven by change in tree species composition. *Scientific reports*, 8(1), 5627.
- Mudd, J. B. (Ed.). (2012). *Responses of plants to air pollution*. Elsevier.

- Murakami, K., Maenaka, H., & Morimoto, Y. (2005). Factors influencing species diversity of ferns and fern allies in fragmented forest patches in the Kyoto city area. *Landscape and Urban Planning*, 70(3-4), 221-229.
- Murakami, T., Ogawa, S., Ishitsuka, N., Kumagai, K., & Saito, G. (2001). Crop discrimination with multitemporal SPOT/HRV data in the Saga Plains, Japan. *International Journal of Remote Sensing*, 22(7), 1335-1348.
- Murray, J. T., Seely, J., Plath, J., Gotfredson, E., Engel, J., Ryder, B., ... & Kridler, N. (2013, October). Dust-penetrating (DUSPEN) see-through lidar for helicopter situational awareness in DVE. In *Electro-Optical Remote Sensing, Photonic Technologies, and Applications VII; and Military Applications in Hyperspectral Imaging and High Spatial Resolution Sensing* (Vol. 8897, p. 88970K). International Society for Optics and Photonics.
- Nagajyoti, P. C., Lee, K. D., & Sreekanth, T. V. M. (2010). Heavy metals, occurrence and toxicity for plants: a review. *Environmental chemistry letters*, 8(3), 199-216.
- Nagendra, H. (2001). Using remote sensing to assess biodiversity. *International journal of remote sensing*, 22(12), 2377-2400.
- Nagendra, H., & Gopal, D. (2011). Tree diversity, distribution, history and change in urban parks: studies in Bangalore, India. *Urban Ecosystems*, 14(2), 211-223.
- Nagendra, H., & Rocchini, D. (2008). High resolution satellite imagery for tropical biodiversity studies: the devil is in the detail. *Biodiversity and conservation*, 17(14), 3431.
- Naidoo, G., & Chirkoot, D. (2004). The effects of coal dust on photosynthetic performance of the mangrove, *Avicennia marina* in Richards Bay, South Africa. *Environmental pollution*, 127(3), 359-366.
- Naidu, M. T., & Kumar, O. A. (2015). Tree species diversity in the Eastern Ghats of northern Andhra Pradesh, India. *Journal of Threatened Taxa*, 7(8), 7443-7459.
- Neff, J. C., Ballantyne, A. P., Farmer, G. L., Mahowald, N. M., Conroy, J. L., Landry, C. C., ... & Reynolds, R. L. (2008). Increasing eolian dust deposition in the western United States linked to human activity. *Nature Geoscience*, 1(3), 189.
- Ostry, M. E., & Laflamme, G. (2008). Fungi and diseases—natural components of healthy forests. *Botany*, 87(1), 22-25.
- Ozcelik, R., Gul, A. U., Merganic, J., & Merganicova, K. (2008). Tree species diversity and its relationship to stand parameters and geomorphology features in the eastern Black sea region forests of turkey. *Journal of environmental biology*, 29(3), 291.
- Pal, M., & Mather, P. M. (2001, November). Decision tree based classification of remotely sensed data. In *22nd Asian conference on remote Sensing* (Vol. 5, p. 9).
- Paling, E. I., Humphries, G., McCardle, I., & Thomson, G. (2001). The effects of iron ore dust on mangroves in Western Australia: lack of evidence for stomatal damage. *Wetlands Ecology and Management*, 9(5), 363-370.
- Pandithurai, G., Dipu, S., Dani, K. K., Tiwari, S., Bisht, D. S., Devara, P. C. S., & Pinker, R. T. (2008). Aerosol radiative forcing during dust events over New Delhi, India. *Journal of Geophysical Research: Atmospheres*, 113(D13).

- Pastenes, C., Santa-Maria, E., Infante, R., & Franck, N. (2003). Domestication of the Chilean guava (*Ugni molinae* Turcz.), a forest understorey shrub, must consider light intensity. *Scientia Horticulturae*, 98(1), 71-84.
- Pause, M., Schweitzer, C., Rosenthal, M., Keuck, V., Bumberger, J., Dietrich, P., & Lausch, A. (2016). In situ/remote sensing integration to assess forest health—A review. *Remote Sensing*, 8(6), 471.
- Peng, Y., Fan, M., Song, J., Cui, T., & Li, R. (2018). Assessment of plant species diversity based on hyperspectral indices at a fine scale. *Scientific reports*, 8(1), 4776.
- Peñuelas, J., Gamon, J. A., Fredeen, A. L., Merino, J., & Field, C. B. (1994). Reflectance indices associated with physiological changes in nitrogen-and water-limited sunflower leaves. *Remote sensing of Environment*, 48(2), 135-146.
- Petropoulos, G. P., Kalaitzidis, C., & Vadrevu, K. P. (2012). Support vector machines and object-based classification for obtaining land-use/cover cartography from Hyperion hyperspectral imagery. *Computers & Geosciences*, 41, 99-107.
- Plaza, A., Benediktsson, J. A., Boardman, J. W., Brazile, J., Bruzzone, L., Camps-Valls, G., ... & Marconcini, M. (2009). Recent advances in techniques for hyperspectral image processing. *Remote sensing of environment*, 113, S110-S122.
- Prajapati, S. K., & Tripathi, B. D. (2008). Seasonal variation of leaf dust accumulation and pigment content in plant species exposed to urban particulates pollution. *Journal of environmental quality*, 37(3), 865-870.
- Prasad, J., Venkatesh, A. S., Sahoo, P. R., Singh, S., & Sylvestre Kanouo, N. (2017). Geological Controls on High-Grade Iron Ores from Kiriburu-Meghahatuburu Iron Ore Deposit, Singhbhum-Orissa Craton, Eastern India. *Minerals*, 7(10), 197.
- Prusty, B. A. K., Mishra, P. C., & Azeez, P. A. (2005). Dust accumulation and leaf pigment content in vegetation near the national highway at Sambalpur, Orissa, India. *Ecotoxicology and Environmental Safety*, 60(2), 228-235.
- Pu, R., Gong, P., Biging, G. S., & Larrieu, M. R. (2003). Extraction of red edge optical parameters from Hyperion data for estimation of forest leaf area index. *IEEE Transactions on Geoscience and Remote Sensing*, 41(4), 916-921.
- Puletti, N., Camarretta, N., & Corona, P. (2016). Evaluating EO1-Hyperion capability for mapping conifer and broadleaved forests. *European Journal of Remote Sensing*, 49(1), 157-169.
- Rahul, J., & Jain, M. K. (2014). An investigation in to the impact of particulate matter on vegetation along the national highway: a review. *Research journal of environmental sciences*, 8(7), 356.
- Rai, P. K., & Panda, L. L. (2014). Dust capturing potential and air pollution tolerance index (APTI) of some road side tree vegetation in Aizawl, Mizoram, India: an Indo-Burma hot spot region. *Air Quality, Atmosphere & Health*, 7(1), 93-101.
- Raizada, A., & Samra, J. S. (2000). Rehabilitation of an abandoned limestone mine in the lower western Himalayas-impact assessment on vegetation development and floristic diversity. *Indian Forester*, 126(8), 842-855.
- Raju, K. S., Sonali, P., & Kumar, D. N. (2017). Ranking of CMIP5-based global climate models for India using compromise programming. *Theoretical and applied climatology*, 128(3-4), 563-574.

- Reed, B. C., Schwartz, M. D., & Xiao, X. (2009). Remote sensing phenology. In *Phenology of ecosystem processes* (pp. 231-246). Springer, New York, NY.
- Richards, J. A., & Jia, X. (2006). Image classification methodologies. *Remote Sensing Digital Image Analysis: An Introduction*, 295-332.
- Ricks, G. R., & Williams, R. J. H. (1974). Effects of atmospheric pollution on deciduous woodland part 2: effects of particulate matter upon stomatal diffusion resistance in leaves of *Quercus petraea* (Mattuschka) Leibl. *Environmental Pollution* (1970), 6(2), 87-109.
- Rocchini, D., Balkenhol, N., Carter, G. A., Foody, G. M., Gillespie, T. W., He, K. S., ... & Nagendra, H. (2010). Remotely sensed spectral heterogeneity as a proxy of species diversity: recent advances and open challenges. *Ecological Informatics*, 5(5), 318-329.
- Rodríguez-Pérez, J. R., Riaño, D., Carlisle, E., Ustin, S., & Smart, D. R. (2007). Evaluation of hyperspectral reflectance indexes to detect grapevine water status in vineyards. *American Journal of Enology and Viticulture*, 58(3), 302-317.
- Rogan, J., Ziemer, M., Martin, D., Ratick, S., Cuba, N., & DeLauer, V. (2013). The impact of tree cover loss on land surface temperature: A case study of central Massachusetts using Landsat Thematic Mapper thermal data. *Applied Geography*, 45, 49-57.
- Rogass, C., Mielke, C., Scheffler, D., Boesche, N. K., Lausch, A., Lubitz, C., ... & Guanter, L. (2014). Reduction of uncorrelated striping noise—Applications for hyperspectral pushbroom acquisitions. *Remote Sensing*, 6(11), 11082-11106.
- Rothe, A., Huber, C., Kreutzer, K., & Weis, W. (2002). Deposition and soil leaching in stands of Norway spruce and European beech: results from the Höglwald research in comparison with other European case studies. *Plant and soil*, 240(1), 33-45.
- Roy, P. S., Dutt, C. B. S., & Joshi, P. K. (2002). Tropical forest resource assessment and monitoring. *Tropical Ecology*, 43(1), 21-37.
- Saaty, T. L. (1980). *The analytic hierarchy process* McGraw-Hill. New York, 324.
- Sahoo, S., Dhar, A., Debsarkar, A., & Kar, A. (2019) Future Scenarios of Environmental Vulnerability Mapping Using Grey Analytic Hierarchy Process. *Natural Resources Research*, 1-23.
- Sahu, S. C., Dhal, N. K., Lal, B., & Mohanty, R. C. (2012). Differences in tree species diversity and soil nutrient status in a tropical sacred forest ecosystem on Niyamgiri hill range, Eastern Ghats, India. *Journal of Mountain Science*, 9(4), 492-500.
- Samadi, M., Bolorani, A. D., Alavipanah, S. K., Mohamadi, H., & Najafi, M. S. (2014). Global dust Detection Index (GDDI); a new remotely sensed methodology for dust storms detection. *Journal of Environmental Health Science and Engineering*, 12(1), 20.
- Savitzky, A., & Golay, M. J. (1964). Smoothing and differentiation of data by simplified least squares procedures. *Analytical chemistry*, 36(8), 1627-1639.
- Schneider, F. D., Morsdorf, F., Schmid, B., Petchey, O. L., Hueni, A., Schimel, D. S., & Schaepman, M. E. (2017). Mapping functional diversity from remotely sensed morphological and physiological forest traits. *Nature communications*, 8(1), 1441.
- Seth, M. K. (2003). Trees and their economic importance. *The Botanical Review*, 69(4), 321-376.

- Sharifi, M. R., Gibson, A. C., & Rundel, P. W. (1997). Surface dust impacts on gas exchange in Mojave Desert shrubs. *Journal of Applied Ecology*, 837-846.
- Shaw, G. A., & Burke, H. K. (2003). Spectral imaging for remote sensing. *Lincoln laboratory journal*, 14(1), 3-28.
- Simon, E., Baranyai, E., Braun, M., Cserháti, C., Fábrián, I., & Tóthmérész, B. (2014). Elemental concentrations in deposited dust on leaves along an urbanization gradient. *Science of the Total Environment*, 490, 514-520.
- Simonson, W. D., Allen, H. D., & Coomes, D. A. (2012). Use of an airborne lidar system to model plant species composition and diversity of Mediterranean oak forests. *Conservation Biology*, 26(5), 840-850.
- Sims, D. A., & Gamon, J. A. (2002). Relationships between leaf pigment content and spectral reflectance across a wide range of species, leaf structures and developmental stages. *Remote sensing of environment*, 81(2-3), 337-354.
- Singh, A. N., Raghubansh, A. S., & Singh, J. S. (2002). Plantations as a tool for mine spoil restoration. *Current Science*, 82(12), 1436-1441.
- Singh, V., Mani, I., Chaudhary, D. K., & Dhar, P. K. (2014). Metabolic engineering of biosynthetic pathway for production of renewable biofuels. *Applied biochemistry and biotechnology*, 172(3), 1158-1171.
- Sinha, S., & Banerjee, S. P. (1997). Characterization of haul road dust in an Indian opencast iron ore mine. *Atmospheric Environment*, 31(17), 2809-2814.
- Solberg, S., Næsset, E., Lange, H., & Bollandsås, O. M. (2004). Remote sensing of forest health. *International Archives of Photogrammetry, Remote Sensing and Spatial Information Sciences*, 36(Part 8), W2.
- Somers, B., & Asner, G. P. (2014). Tree species mapping in tropical forests using multi-temporal imaging spectroscopy: Wavelength adaptive spectral mixture analysis. *International Journal of Applied Earth Observation and Geoinformation*, 31, 57-66.
- Soudani, K., François, C., Le Maire, G., Le Dantec, V., & Dufrêne, E. (2006). Comparative analysis of IKONOS, SPOT, and ETM+ data for leaf area index estimation in temperate coniferous and deciduous forest stands. *Remote sensing of environment*, 102(1), 161-175.
- Staenz, K., Secker, J., Gao, B. C., Davis, C., & Nadeau, C. (2002). Radiative transfer codes applied to hyperspectral data for the retrieval of surface reflectance. *ISPRS Journal of Photogrammetry and Remote Sensing*, 57(3), 194-203.
- Stone, C., & Coops, N. C. (2004). Assessment and monitoring of damage from insects in Australian eucalypt forests and commercial plantations. *Austral Entomology*, 43(3), 283-292.
- Stylinski, C., Gamon, J., & Oechel, W. (2002). Seasonal patterns of reflectance indices, carotenoid pigments and photosynthesis of evergreen chaparral species. *Oecologia*, 131(3), 366-374.
- Swets, J. A. (1988). Measuring the accuracy of diagnostic systems. *Science*, 240(4857), 1285-1293.
- Thakar, B. K., & Mishra, P. C. (2010). Dust collection potential and air pollution tolerance index of tree vegetation around Vedanta Aluminium Limited, Jharsuguda. *The Bioscan*, 3, 603-612.
- Thenkabail, P. S., & Lyon, J. G. (2016). *Hyperspectral remote sensing of vegetation*. CRC Press.

- Thenkabail, P. S., Enclona, E. A., Ashton, M. S., Legg, C., & De Dieu, M. J. (2004). Hyperion, IKONOS, ALI, and ETM+ sensors in the study of African rainforests. *Remote Sensing of Environment*, 90(1), 23-43.
- Thenkabail, P. S., Gumma, M. K., Teluguntla, P., & Mohammed, I. A. (2014). Hyperspectral remote sensing of vegetation and agricultural crops. *Photogrammetric Engineering & Remote Sensing (PE&RS)*, 80(8), 697-723.
- Toledo, M., Poorter, L., Peña-Claros, M., Alarcón, A., Balcázar, J., Leñaño, C., & Bongers, F. (2011). Climate is a stronger driver of tree and forest growth rates than soil and disturbance. *Journal of Ecology*, 99(1), 254-264.
- Trumbore, S., Brando, P., & Hartmann, H. (2015). Forest health and global change. *Science*, 349(6250), 814-818.
- Tso, B., & Mather, P. (2009). Classification methods for remotely sensed data (p. 347).
- Tuominen, J., Lipping, T., & Kuosmanen, V. (2008, July). Assessment of ENVI forest health tool in detection of dust and seepage contaminated forest areas. In *Geoscience and Remote Sensing Symposium, 2008. IGARSS 2008. IEEE International (Vol. 3, pp. III-1358)*. IEEE.
- Tuominen, J., Lipping, T., Kuosmanen, V., & Haapanen, R. (2009). Remote sensing of forest health. In *Geoscience and Remote Sensing*. InTech.
- Ustin, S. L., Roberts, D. A., Gamon, J. A., Asner, G. P., & Green, R. O. (2004). Using imaging spectroscopy to study ecosystem processes and properties. *AIBS Bulletin*, 54(6), 523-534.
- Vaiphasa, C. (2006). Consideration of smoothing techniques for hyperspectral remote sensing. *ISPRS journal of photogrammetry and remote sensing*, 60(2), 91-99.
- Vakhshoori, V., & Zare, M. (2018). Is the ROC curve a reliable tool to compare the validity of landslide susceptibility maps?. *Geomatics, Natural Hazards and Risk*, 9(1), 249-266.
- Van Aardt, J. A. N., & Wynne, R. H. (2007). Examining pine spectral separability using hyperspectral data from an airborne sensor: An extension of field-based results. *International Journal of Remote Sensing*, 28(2), 431-436.
- Van Lierop, P., Lindquist, E., Sathyapala, S., & Franceschini, G. (2015). Global forest area disturbance from fire, insect pests, diseases and severe weather events. *Forest Ecology and Management*, 352, 78-88.
- Varshney, P. K., & Arora, M. K. (2004). *Advanced image processing techniques for remotely sensed hyperspectral data*. Springer Science & Business Media.
- Vayreda, J., Martinez-Vilalta, J., Gracia, M., & Retana, J. (2012). Recent climate changes interact with stand structure and management to determine changes in tree carbon stocks in Spanish forests. *Global Change Biology*, 18(3), 1028-1041.
- Veraverbeke, S., Gitas, I., Katagis, T., Polychronaki, A., Somers, B., & Goossens, R. (2012). Assessing post-fire vegetation recovery using red-near infrared vegetation indices: accounting for background and vegetation variability. *ISPRS Journal of Photogrammetry and Remote Sensing*, 68, 28-39.
- Vyas, D., & Krishnayya, N. S. R. (2014). Estimating attributes of deciduous forest cover of a sanctuary in India utilizing Hyperion data and PLS analysis. *International journal of remote sensing*, 35(9), 3197-3218.

- Vyas, D., Krishnayya, N. S. R., Manjunath, K. R., Ray, S. S., & Panigrahy, S. (2011). Evaluation of classifiers for processing Hyperion (EO-1) data of tropical vegetation. *International Journal of Applied Earth Observation and Geoinformation*, 13(2), 228-235.
- Wang, G., Zhou, G., Yang, L., & Li, Z. (2003). Distribution, species diversity and life-form spectra of plant communities along an altitudinal gradient in the northern slopes of Qilianshan Mountains, Gansu, China. *Plant ecology*, 165(2), 169-181.
- Wang, H., Pu, R., Zhu, Q., Ren, L., & Zhang, Z. (2015). Mapping health levels of *Robinia pseudoacacia* forests in the Yellow River delta, China, using IKONOS and Landsat 8 OLI imagery. *International Journal of Remote Sensing*, 36(4), 1114-1135.
- Wang, Z., Wang, T., Darvishzadeh, R., Skidmore, A. K., Jones, S., Suarez, L., ... & Hearne, J. (2016). Vegetation indices for mapping canopy foliar nitrogen in a mixed temperate forest. *Remote sensing*, 8(6), 491.
- Wilkie, D. S., Morelli, G. A., Demmer, J., Starkey, M., Telfer, P., & Steil, M. (2006). Parks and people: assessing the human welfare effects of establishing protected areas for biodiversity conservation. *Conservation Biology*, 20(1), 247-249.
- Wingfield, M. J., Brockerhoff, E. G., Wingfield, B. D., & Slippers, B. (2015). Planted forest health: the need for a global strategy. *Science*, 349(6250), 832-836.
- Woods, A. J., Heppner, D., Kope, H. H., Burleigh, J., & Maclauchlan, L. (2010). Forest health and climate change: a British Columbia perspective. *The forestry chronicle*, 86(4), 412-422.
- Wu, C., & Wang, X. (2016). Research of foliar dust content estimation by reflectance spectroscopy of *Euonymus japonicus* Thunb. *Environmental Nanotechnology, Monitoring & Management*, 5, 54-61.
- Wu, Y., Li, N., & Yuan, J. (2011). NDVI changes and their relation with climate factors in Chengde based on SPOT-VGT. *Chinese Agricultural Science Bulletin*, 27(11), 203-212.
- Yan, X., Shi, W., Zhao, W., & Luo, N. (2015). Mapping dustfall distribution in urban areas using remote sensing and ground spectral data. *Science of the Total Environment*, 506, 604-612.
- Yesilnacar, E., & Topal, T. (2005). Landslide susceptibility mapping: a comparison of logistic regression and neural networks methods in a medium scale study, Hendek region (Turkey). *Engineering Geology*, 79(3-4), 251-266.
- Yoo, M. H., Kwon, Y. J., Son, K. C., & Kays, S. J. (2006). Efficacy of indoor plants for the removal of single and mixed volatile organic pollutants and physiological effects of the volatiles on the plants. *Journal of the American Society for Horticultural Science*, 131(4), 452-458.
- Yu, H., Chin, M., Yuan, T., Bian, H., Remer, L. A., Prospero, J. M., & Zhang, Z. (2015). The fertilizing role of African dust in the Amazon rainforest: A first multiyear assessment based on data from Cloud-Aerosol Lidar and Infrared Pathfinder Satellite Observations. *Geophysical Research Letters*, 42(6), 1984-1991.
- Zhai, Y., Cui, L., Zhou, X., Gao, Y., Fei, T., & Gao, W. (2013). Estimation of nitrogen, phosphorus, and potassium contents in the leaves of different plants using laboratory-based visible and near-infrared reflectance spectroscopy: comparison of partial least-square regression and support vector machine regression methods. *International journal of remote sensing*, 34(7), 2502-2518.

- Zhang, G., Chen, M., Li, L., Xu, Z., Chen, X., Guo, J., & Ma, Y. (2009). Overexpression of the soybean GmERF3 gene, an AP2/ERF type transcription factor for increased tolerances to salt, drought, and diseases in transgenic tobacco. *Journal of experimental botany*, 60(13), 3781-3796.
- Zhang, J., & Reid, J. S. (2010). A decadal regional and global trend analysis of the aerosol optical depth using a data-assimilation grade over-water MODIS and Level 2 MISR aerosol products. *Atmospheric Chemistry and Physics*, 10(22), 10949-10963.
- Zhao, D., Reddy, K. R., Kakani, V. G., Read, J. J., & Carter, G. A. (2003). Corn (*Zea mays* L.) growth, leaf pigment concentration, photosynthesis and leaf hyperspectral reflectance properties as affected by nitrogen supply. *Plant and soil*, 257(1), 205-218.
- Zhu, H., Chu, B., Zhang, C., Liu, F., Jiang, L., & He, Y. (2017). Hyperspectral imaging for presymptomatic detection of tobacco disease with successive projections algorithm and machine-learning classifiers. *Scientific Reports*, 7(1), 4125.
- Zirlewagen, D., Raben, G., & Weise, M. (2007). Zoning of forest health conditions based on a set of soil, topographic and vegetation parameters. *Forest Ecology and Management*, 248(1-2), 43-55.
- Zuo, J., Rameezdeen, R., Hagger, M., Zhou, Z., & Ding, Z. (2017). Dust pollution control on construction sites: Awareness and self-responsibility of managers. *Journal of Cleaner Production*, 166, 312-3
- Żywiec, M., Muter, E., Zielonka, T., Delibes, M., Calvo, G., & Fedriani, J. M. (2017). Long-term effect of temperature and precipitation on radial growth in a threatened thermo-Mediterranean tree