

PUSTAKA ACUAN

- Agardh, C.A. 1812. *Dispositio algarum Sueciae*, quam publico examini subjiunt Carl Adolph Agardh & David Sjöström, Smolandus. Die [in handwriting:] xvi maji [original April date deleted] mdcccxi. Lundae: Litteris Berlingianis. p. iv. h. et l.s. pp. Pars 4: [i-iii], [35-42].
- Anagnostidis, K. & Komárek, J. (1988). Modern approach to the classification system of cyanophytes. 3. Oscillatoriales. *Archiv für Hydrobiologie, Supplement* 80(1-4): 327-472, 35 figs, 13 tables.
- Anagnostidis, K. 2001. Nomenclatural changes in cyanoprokaryotic order Oscillatoriales. *Preslia, Praha* 73: 359-375.
- Allaf, M. M. and Peerhossaini, H. 2022. Cyanopbacteria: model microorganisms and beyond. *Microorganism*, 10: 1-23.
- Alwathnani, H. and Johansen, J. R. 2011. Cyanobacteria in soils from a mojave desert ecosystem. *Monographs of the Western North American Naturalist*, 5: 71-89.
- Anand, N., Thajuddin, N., and Dadheech, P. K. 2019. Cyanobacteria taxonomy: morphometry to molecular studies. In Mishra, A. K., Tiwari, D. N., and Rai, A. N. (Eds.). *Cyanobacteria from Basic Science to Applications*. London: Academic Press. pp. 43-56.
- Anwari, W., Sujihati, S., and Munarti. 2021. Keanekaragaman lichen di Pusat Pendidikan Konservasi Alam Bodogol, Taman Nasional Gunung Gede Pangrango. *Jurnal Penelitian Ekosistem Dipterokarpa*, 7(2): 1-12.
- Arber, W. 2000. Genetic variation: molecular mechanisms and impact on microbial evolution. *FEMS Microbiology Reviews*, 24(1): 1-7.
- Argules, E. D. L. R. and Monsalud, R. G. 2021. Taxonomy and species composition of epiphytic algae in Sta. Cruz River, laguna (Philippines). *Journal of Microbiology, Biotechnology dan Food Sciences*, 11(3): 1-8.
- Bano, A. and Siddiqui, P. J. A. 2016. Distribution of epizoic Cyanobacteria on molluscan species occuring at a rocky shore (buleji), Karachi, Pakistan. *International Journal of Biology and Biotechnology*, 13(1): 49-57.
- BAPPEDA DIY. 2023. *Data Vertikal Badan Meteorologi Klimatologi dan Geofisika*. Accesed from https://bappeda.jogjapro.go.id/dataku/data_dasar/index/710-iklim?id_skpd=222#55 on 14 August 2023.
- Baderan, D. W. K., Rahim, S., Angio, M., and Salim, A. I. B. 2021. Keanekaragaman, pemerataan, dan kekayaan spesies tumbuhan dari geosite potensial Benteng Otanaha sebagai rintisan pengembangan geopark Provinsi Gorontalo. *Jurnal Biologi*, 14(2): 264-274.
- Bell, R. A., Athey, P. V., and Sommerfeld, M. R. 1988. Distribution of endolithic algae on the Colorado Plateau of Northern Arizona. *The Southwestern Naturalist*, 33(3): 315-322.
- Bentley, B. I. 1987. Nitrogen fixation by epiphylls in a tropical rainforest. *Annals of the Missouri Botanical Garden*, 74: 234-241.
- Bharadwaja, Y. 1934. The taxonomy of *Scytonema* and *Tolypothrix*, including some new records and some new species from India and Ceylon. *Revue Algologique* 7: 149-178.
- Bornet, É. & Thuret, G. 1880. *Notes algologiques recueil d'observations sur les algues*. Fasc. 2. pp. 73-196.

- Bornet, É. & Flahault, C. 1886 '1887'. Revision des Nostocacées hétérocystées contenues dans les principaux herbiers de France (Troisième fragment). *Annales des Sciences Naturelles, Botanique, Septième série* 5: 51-129.
- Bornet, É. & Flahault, C. 1886 '1888'. Revision des Nostocacées hétérocystées contenues dans les principaux herbiers de France (quatrième et dernier fragment). *Annales des Sciences Naturelles, Botanique, Septième Série* 7: 177-262.
- Brébisson, L.A. de & Godey, L.L. 1835 '1836'. Algues des environs de Falaise, décrites et dessinées par MM. de Brébisson et Godey. *Mémoires de la Société Académique des Sciences, Artes et Belles-Lettres de Falaise* 1835: 1-62, 256-269.
- Broadly, P. A. 2022. *The Diversity of Algae Inhabiting Terrestrial Habitats in Freshwater Algae of North America*. Elsevier Science, Amsterdam.
- Cantonati, M., Komárek, J., and Montejano, G. 2015. Cyanobacteria in ambient spring. *Biodivers Conserv*, 24: 865-888.
- Casamatta, D. A. and Hašler, P. 2016. Blue-green algae (Cyanobacteria) in rivers. In Necchi Jr. O. (Eds.). *River Algae*. New York: Springer. p. 22.
- Castenholz, R. W., Wilmoth, A., Herdman, M., Rippka, R., Waterbury, J. B., Iteman, I., and Hoffmann, L. 2001. Phylum BX. Cyanobacteria. In Garrity, G., Boone, D. R., Castenholz, D. W. (Eds.). *Bergey's Manual of Systematic Bacteriology*. New York: Springer. pp. 473-599.
- Cavalier-Smith, T. 2002. The neomuran origin of archaeobacteria, the negibacterial root of the universal tree and bacterial megaclassification. *Int J Syst Evol Microbiol*. 52:7-76.
- Chamizo, S., Mugnai, G., Rossi, F., Certini, G., and de Philippis, R. 2018. Cyanobacteria inoculation improves soil stability and fertility on different textured soils: gaining insights for applicability in soil restoration. *Frontiers in Environmental Science*, 6: 1-14.
- Chatterjee. S. 2019. A comprehensive report on the occurrence of nine species of gloeocapsa – a coccoidal cyanobacteria from Burdwan District of West Bengal, India. *International Journal of Bio-Science and Bio-Technology*, 11(11): 31-42.
- Clemente y Rubio, S. R. 1807. *Ensayo sobre las variedades de la vid común que vegetan en Andalucía, con un índice etimológico y tres listas de plantas en que se caracterizan varias especies nuevas*. pp. [i]-xviii, [1]-324.
- Curren, M. and Leong, S. C. Y. 2018. *Lyngbya regalis* sp. nov. (Oscillatoriales, Cyanophyceae), a new tropical marine cyanobacterium. *Phytotaxa*, 367(2): 120-132.
- Czerwik-Marcinkowska, J. and Mrozinska, T. 2011. Algae and Cyanobacteria in caves of the Polish Jura. *Polish Botanical Journal*, 56(2): 203-243.
- Czerwik-Marcinkowska, J., Wojciechowska, A., and Massalski, A. 2015. Biodiversity of limestone caves: aggregations of aerophytic algae and Cyanobacteria in relation to site factors. *Polish Journal of Ecology*, 63(4): 481-499.
- Demmig-Adams, B., Dumlao, M. R., Herzenach, M. K., and Adams III, W. W. 2008. Acclimation. In Jørgensen, S. E. and Fath, B. D. (Eds.). *Encyclopedia of Ecology*. London: Academic Press. pp. 15-16.
- De Notaris, G. 1846. *Prospetto della flora ligustica e dei zoofiti del mare Ligustico*. pp. 1-80. Genoa: Tipografia Ferrando.
- Drouet, F. 1963. Ecophenes of *Schizothrix calcicola* (Oscillatoriaceae). *Proceedings of the Academy of Natural Sciences of Philadelphia*, 115: 261-281.

- Dillwyn, L.W. 1802. British Confervae; or colored figures and descriptions of the British plants referred by botanists to the genus Conferva. London: W. Phillips. pp. pls 1-20.
- Dillwyn, L. W. 1809. British Confervae; or colored figures and descriptions of the British plants referred by botanists to the genus Conferva. pp. 1-87, 1-6 (Index and Errata), pls. 69, 100-109.
- Elenkin, A. A. 1931. O nekotorykh s'yedobnykh presnovodnykh vodoroslyakh [About some edible freshwater algae]. *Priroda* 1931(10): 965-992.
- Elenkin, A. A. 1938. *Sinezeleniye vodorosli SSSR. Monografiya presnovodnykh i nazemnykh S'yanofiseaye, obnaruzhennykh v predelakh SSSR. Spetsial'naya (sistematicheskaya) chast', vyp. I. I. Chroococcaceae Geitl.; II. Chamaesiphonaceae Geitl.; III. Hormogoneae (Geitl.) Elenk.: poryadok Stigonematales Geitl.; poryadok Mastigocladales Elenk.; poryadok Diplonematales Elenk.; poryadok Nostocales (Geitl.) Elenk.: sem. Nostocaceae Elenk., sem. Anabaenaceae Elenk., Aphanizomenonaceae Elenk., sem. Nodulariaceae Elenk., sem. Scytonemataceae (Kütz.) Elenk.* Moscow & Leningrad: Izdatel'stvo Akademii Nauk SSSR. pp. 984, 290 figures.
- Elenkin, A. A. (1949). *Sinezeleniye vodorosli SSSR. Monografiya presnovodnykh i nazemnykh S'yanofiseaye, obnaruzhennykh v predelakh SSSR. Spetsial'naya (sistematicheskaya) chast', vyp. II. III. Hormogoneae (Geitl.) Elenk. (okonchaniye).* Moscow: Izdate'stvo Akademii Nauk SSSR. pp. 985-1908, figures 291- 566.
- Forti, A. 1907. Sylloge algarum omnium hucusque cognitarum. Vol. V [of De Toni, J.B. "Sylloge Algarum Omnium"]. Sylloge Myxophycearum. Patavii [Padova]: Sumptibus auctoris. pp. i-viii, 1-761.
- Friedmann, E. I. and Borowitzka, I. J. 1982. The symposium on taxonomic concepts in blue-green algae: Towards a compromise with the bacteriological code. *Taxon*, 31: 673-683.
- Fritsch, F. E. 1922. The terrestrial alga. *Journal of Ecology*, 10(2): 220-236.
- Gaillon, B. 1833. *Aperçu d'histoire naturelle et observations sur les limites qui séparent le règne végétal du règne animal [suivi des] tableaux synoptiques et méthodiques des genres des Nématozoaires (Lu à la Société d'Agriculture, du Commerce et des Arts, de Boulogne-sur-mer, dans sa séance publique du 19 Septembre 1832).* Boulogne: Imprimerie de Le Roy-Mabille. pp. [1]-24, [11].
- Gama Jr, W. A., Laughinghouse, H. D., and Sant'anna, C. L. 2014. How diverse are coccoid Cyanobacteria? A case study of terrestrial habitats from the Atlantic Rainforest (São Paulo, Brazil). *Phytotaxa*, 178(2): 61-97.
- Gani, P., Sunar, N. M., Matias-Peralta, H. M., and Apandi, N. 2019. An overview of environmental factor's effect on the growth of microalgae. *Journal of Applied Chemistry and Natural Resources*, 1(2): 1-5.
- Gardner, N. L. 1927. New myxophyceae from Porto Rico. *Memoirs of the New York Botanical Garden* 7: 1-144.
- Gaysina, L. A., Saraf, A., and Singh, P. 2019. Cyanobacteria in diverse habitat. In Mishra, A. K., Tiwari, D. N., and Rai, A. N. (Eds.). *Cyanophyceae from Basic Science to Applications*. London: Academic Press. pp. 1-28.
- Gomont, M. 1892. Monographie des Oscillariées (Nostocacées homocystées). *Annales des Sciences Naturelles, Botanique, Série 7* 15: 263-368, pls 6-14.

- Gomont, M. 1892 '1893'. Monographie des Oscillariées (Nostocacées Homocystées). Deuxième partie. - Lyngbyées. *Annales des Sciences Naturelles, Botanique*, 7(16): 91-264.
- Guo, B., Zhang, X. D., and Wei, Y. H. 2012. Effects of light intensity on the growth of cyanobacteria isolated from *Huperzia serrata* (Thunb.) Trevis in liquid medium. *Acta Photonica Sinica*, 41(1): 102-106.
- Guiry, M.D. and Guiry, G.M. 2023. *AlgaeBase*. World-wide electronic publication, National University of Ireland, Galway. <https://www.algaebase.org>; searched on July 1, 2023.
- Gultom, H. M. 2022. Analisis proyeksi curah hujan tahunan (2016-2040) menggunakan skenario RCP4.5 di Provinsi Nusa Tenggara Barat. *Megasains*, 13(1): 24-30.
- Halder, N. 2017. Taxonomy and biodiversity of the genus *Oscillatoria* Vauch. ex Gom. (Cyanoprokaryota: Oscillatoriales) with ecological notes from Hooghly in West Bengal, India. *Brazilian Journal of Biological Sciences*, 4(7): 89-101.
- Hassall, A.H. (1845). *A history of the British freshwater algae*, including descriptions of the Desmidiaceae and Diatomaceae. With upwards of one hundred plates, illustrating the various species. Vol. Hoffmann, L. (1986). Cyanophycées aériennes et subaériennes du Grand-Duché de Luxembourg. *Bulletin Jardin Botanique National Belgique* 56: 77-127.
- Herdman, M. and Rippka, R. 1988. Cellular differentiation: hormogonia and baeocytes. *Cyanobacteria*, 167: 232-242.
- Hoffmann, L. 1986. Cyanophycées aériennes et subaériennes du Grand-Duché de Luxembourg. *Bulletin Jardin Botanique National Belgique* 56: 77-127.
- Hoffman, L. 1989. Algae of terrestrial habitats. *Botanical Review*, 55(2): 77-105.
- Jones, K. 1977. The effect of temperature on acetylene reduction by mats of blue-green algae in sub-tropical grassland. *New Phytol*, 78: 433-436.
- Kant, R., Sarma, K., Saini, A., Singh, J., Ziyaul, N., and Kumar, S. 2020. Diversity of the genus *Nostoc* Vaucher (Nostocales, Cyanoprokaryota) from Tripura, India. *J. Indian bot. Soc.*, 100(2): 16-29.
- Kirchner, O. 1878. Algen. In: *Kryptogamen-Flora von Schlesien. Part 1.* (Cohn, F. Eds). Breslau: J.U. Kern's Verlag (Max Müller). Vol. 2, pp. i-iv [vii] 1-284.
- Kirchner, O. 1898. Schizophyta: Schizophyceae. In: *Die natürlichen Pflanzenfamilien.* (Engler, A. & Prantl, K. Eds). Leipzig: Wilhelm Engelmann. Vol. 1(1), pp. 45-92, figures 48-62.
- Komárek, J. 1993. Validation of the genera *Gloeocapsopsis* and *Asterocapsa* (Cyanoprokaryota) with regard to species from Japan, Mexico and Himalayas. *Bulletin of the National Science Museum, Tokyo. Series B, Botany* 19(1): 19-37.
- Komárek, J., Anna, C. L. S., Bohunická, M., Mareš, J., Hentschke, G. S., Rigonato, J., and Fiore, M. F. 2013. Phenotype diversity and phylogeny of selected *Scytonema* species (Cyanoprokaryota) from SE Brazil. *Fottea Olomouc*, 13(2): 173-200.
- Komárek, J. and Johansen, J. R. 2014. Coccoid cyanobacteria. In Wehr, J. D., Sheath, R. G., and Kociolek, P. (Eds.). *Freshwater Algae of North America: Ecology and Classification*. London: Academic Press. pp. 95, 105, 112-113.
- Komárek, J., Kaštovsky, J., Mareš, J., and Johansen, J. R. 2014. Taxonomic classification of cyanoprokaryotes (cyanobacterial genera) 2014, using a polyphasic approach. *Preslia*, 86: 295-335.

- Komárek, J., Kling, H., and Komárková, J. 2003. Filamentous cyanobacteria. In Wehr, J. D. and Sheath, R. G. *Freshwater Algae of North America*. California: Academia Press. pp. 138-139, 177.
- Krebs, C. J. 2014. *Ecology: The Experimental Analysis of Distribution and Abundance*. 6th ed. Pearson, Harlow.
- Krienitz, L. 2009. Algae (incl. Cyanobacteria): types, phytoplankton, and eutrophication/remediation. In Likens, G. E. (Ed.). *Encyclopedia of Inland Waters*. New York: Academia Press. pp. 103-113.
- Kumar, K., Mella-Herrera, R. A., and Golden, J. W. 2010. Cyanobacterial heterocysts. *Cold Spring Harbor Perspectives in Biology*, 2(4): 1-19.
- Kusumaningsari, S. D., Hendarto, B., and Ruswahyuni. 2015. Kemelimpahan hewan makrobentos pada dua umur tanaman *Rhizopora* sp. di Kelurahan Mangunharjo, Semarang. *Diponegoro Journal of Maquares*, 4(2): 58-64.
- Kützing, F. T. 1843. *Phycologia generalis* oder Anatomie, Physiologie und Systemkunde der Tange. Mit 80 farbig gedruckten Tafeln, gezeichnet und gravirt vom Verfasser. pp. [part 1]: [i]-xxxii, [1]-142, [part 2:] 143-458, 1, err., pls 1-80.
- Kützing, F. T. 1847. Diagnosen und Bemerkungen zu neuen oder kritischen Algen. *Botanische Zeitung* 5: 1-5, 22-25, 33-38, 52-55, 164-167, 177-180, 193-198, 219-223.
- Kützing, F. T. 1849. *Species algarum*. pp. [i]-vi, [1]-922. Lipsiae [Leipzig]: F.A. Brockhaus.
- Kvídiová, J., Elster, J., and Komárek, J. 2019. Ecophysiology of Cyanobacteria in the Polar Regions. In Mishra, A. K., Tiwari, D. N., and Rai, A. N. (Eds.). *Cyanobacteria from Basic Science to Applications*. London: Academic Press. pp. 283-284.
- Laughinghouse, H.D. IV, Lefler, F.W. & Berthold, D.E., (2021). Validation of the designation "*Neolyngbya regalis*", *nom. inval.* (*Oscillatoriaceae*, *Cyanobacteria*). *Notulae Algarum* 182: 1.
- Lemes-da-Silva, N. M., Branco, L. H. Z., and Necchi-Júnior, O. 2010. New aerophytic morphospecies of Cyanobacteria from tropical forest fragments in northwestern São Paulo state, Brazil. *Acta bot. bras.*, 24(4): 916-921.
- Leticia, V., Ballot, A., Azevedo, S. M. F. O., Padisák, J., and Welker, M. 2022. Introduction to Cyanophyceae. In Chorus, I. and Welker, M. (Eds.). *Toxic Cyanobacteria in Water*. London: CRC Press. pp. 163-204.
- Linnaeus, C. 1753. *Species plantarum*, exhibentes plantas rite cognitatas, ad genera relatas, cum differentiis specificis, nominibus trivialibus, synonymis selectis, locis natalibus, secundum systema sexuale digestas. Vol. 2 pp. [i], 561-1200.
- Maltseva, I. A. and Maltseva, Y. I. 2021. Diversity of cyanobacteria and algae in dependence to forest-forming tree species and properties rock of dump. *International Jouenal of Environmental Science and Technology*, 18: 545-560.
- Marshall, W. A. and Chalmers, M. O. 1997. Airbone dispersal of antarctic terrestrial algae and cyanobacteria. *Ecography*, 20: 585-594.
- Mareš, J., Strunecký, O., Bucinská, L., and Wiedermannová, J. 2019. Evolutionary patterns of thylakoid architecture in Cyanobacteria. *Frontiers in Microbiology*, 10: 1-22.
- McKay, C. P. and Friedmann, E. I. 1985. The cryptoendolithic microbial environment in the Antarctic cold desert: Temperature variation in nature. *Polar biol*, 4:19-25.

- Meneghini, G. 1837. Conspectus algologiae Euganeae. *Comentarii di Medicina del dott. G.F. Spongia* 4: 321-355.
- Meneghini, G. 1843. Monographia nostochinearum italicarum addito specimine de rivulariis. *Memorie della Reale Accademia delle Scienze di Torino, ser. 2* 5: 1-143.
- Metting, B. 1981. The systematic and ecology of soil algae. *The Botanical Review*, 147: 195-312.
- Morgan-Kiss, R., Priscu, J. C., Gudynaite-Savitch, L., and Huner, N. P. A. 2006. Adaptation and Acclimation of Photosynthetic Microorganisms to Permanently Cold Environments. *Microbiol Mol Biol Rev.* 70(1): 222-252.
- Murningsih and Mafazaa, H. 2016. Jenis-jenis lichen di Kampus Undip Semarang. *Bioma*, 18(1): 20-29.
- Naeem, S., Chazdon, R., Duffy, J. E., Prager, C., and Worm, B. 2016. Biodiversity and human well-being: an essential link for sustainable development. *Biological Science*, 283: 1-10.
- Nägeli, C. 1849. Gattungen einzelliger algen, physiologisch und systematisch bearbeitet. *Neue Denkschriften der Allg. Schweizerischen Gesellschaft für die Gesamten Naturwissenschaften* 10(7): i-viii, 1-139.
- Nandagopal, P., Steven, A. N., Chan, L. W., Rahmat, Z., Jamaluddin, H., and Noh, N. I. M. 2021. Bioactive metabolites produced by Cyanobacteria for growth adaptation and their pharmacological properties. *Biology*, 10: 2-24.
- Nayak, S. and Prasanna, R. 2007. Soil pH and its role in cyanobacterial abundance and diversity in rice field soils. *Applied Ecology and Environmental Research*, 5(2): 103-113.
- Lee, R. E. 2008. *Phycology*. New York: Cambridge University Press. pp. 24-25.
- Lembaga Ilmu Pengetahuan Indonesia (LIPI). 2014. *Kekinian Keanekaragaman Hayati Indonesia*. Jakarta: LIPI Press. pp. xxi, 72.
- Lemes da Silva, N.M., Zanini Branco, L.H. & O. Necchi Jr. 2010. New aerophytic morphospecies of cyanobacteria from tropical forest fragments in northwestern Sao Paulo State, Brazil. *Acta Botanica Brasiliensis* 24(4): 916-923.
- Pamoengkas, P. and Zamzam, A. K. 2017. Komposisi functional species grup pada sistem silvikultur tebang pilih tanam jalur di area IUPHHK-HA PT. Sarpatim, Kalimantan Tengah. *Jurnal Silvakultur Tropika*, 8(3): 160-169.
- Parmadi, E. H., Dewiyanti, I., and Karina, S. 2016. Indeks nilai penting vegetasi mangrove di kawasan Kuala IDI, Kabupaten Aceh Timur. *Jurnal Ilmiah Mahasiswa Kelautan dan Perikanan Unsyiah*, 1(1): 82-95.
- Pooja, B. and Sahoo, D. 2015. Classification of algae. In Sahoo, D. and Joseph, S. (Eds.). *The Algae World*. London: Springer. pp. 31-53.
- Prasanna, R., Kumar, R., Sood, A., Prasanna, B. M. and Singh, P. K. 2006. Morphological, physiochemical and molecular characterization of anabaena strains. *Microbiological Research*, 161: 187-202.
- Prescott, G.W. 1954. *How to Know the Fresh-Water Algae?* Iowa: WM. C. Brown Company. p. 7.
- Rabenhorst, L. 1865. *Flora europaea algarum aquae dulcis et submarinae*. Sectio II. Algas phycochromaceas complectens. pp. 1-319, 71 figs. Lipsiae [Leipzig]: Apud Eduardum Kummerum.
- Rawana, Wijayani, S., and Masrur, M. A. 2022. Indeks nilai penting dan keanekaragaman komunitas vegetasi penyusun hutan di Alas Burno SUBKPH Lumajang. *Jurnal Wana Tropika*, 12(2): 80-89.

- Ray, J. G. and Thomas, T. B. 2012. Ecology and diversity of green algae of tropical oxic dystrophic soils in relation to different soil parameters and vegetation. *Research Journal of Soil Biology*, 4(3): 42-68.
- Rindi, F. 2006. Diversity, distribution and ecology of green algae and cyanobacteria in urban habitat.
- Roemer, F. A. 1845. *Die Algen Deutschlands*. pp. [i-ii], 1-72, pls I-XI. Hanover: Im Verlage der Hahn'schen Hofbuchhandlung.
- Roger, P. A. and Reynaud, P. A. 1982. Free living blue-green algae in tropical soil. In Dommergues, Y. R. and Diem, H. G. (Eds.). *Microbiology of Tropical Soil and Plant Production*. Dordrecht: Martinus Nijhoff/Dr. W. Junk Publishers. pp 147-153.
- Saber, A. A., El-Sheekh, M., Nikulin, A. Y., Cantonati, M., and Saber, H. 2021. Taxonomic and ecological observations on some algal and cyanobacterial morphospecies new for or rarely recorded in either Egypt or Africa. *Egyptian Journal of Botany*, 61(1): 283-301.
- Senna, P. A. C. 1983. Nomenclatural changes in the Brazilian Nostocophyceae. *Taxon* 32(3): 467-468.
- Silva, P. C., Basson, P. W. & Moe, R. L. 1996. Catalogue of the benthic marine algae of the Indian Ocean. *University of California Publications in Botany* 79: [i]-xiv, 1-1259.
- Spegazzini, C. 1916. Aceitunas de manantial (*Nostoc pruniforme* C. A. Agard var. *andicola* Speg. n. var.). *Physis (Buenos Aires)* 2: 282-283.
- Stibal, M., Sabacká, M., and Kaštovská, K. 2006. Microbial communities on glacial surfaces in Svalbard: impact of physical and chemical properties on abundance and structure of cyanobacteria and algae. *Microbial Ecology*, 52: 644-654.
- Strunecky, O., Komárek, J., Johansen, J., Lukesová, A., and Elster, J. 2013. Molecular and morphological criteria for revision of the genus *Microcoleus* (*Oscillatoriales*, *cyanobacteria*). *Journal of Phycology* 49(6): 1167-1180.
- Supriyati, Tjahjono, B., and Effendy, S. 2018. Analisis pola hujan untuk mitigasi aliran lahar hujan Gunungapi Sinabung. *Jurnal Ilmu Tanah dan Lingkungan*, 20(2): 95-100.
- Sutoyo. 2010. Keanekaragaman hayati Indonesia. *Buana Sains*, 10(2): 101-106.
- Swingland, I. R. 2001. Biodiversity, definition of. *Encyclopedia of biodiversity*, 1: 377-391.
- Tschermak-Woess, E. 1978. *Myrmecia reticulata* as a phycobiont and free-living-free-living *Trebouxia*-the problem of *Stenocybe septata*. *Lichenologist*, 10: 69-79.
- Vaucher, J. P. É. 1803. *Histoire des conferves d'eau douce*. Contenant leurs différents modes de reproduction, et la description de leurs principales espèces, suivie de l'histoire des trémelles et des ulves d'eau douce. pp. [i]-xv, [1]-285.
- Warren, S. D., Clair, L. L. S., Stark, L. R., Lewis, L. A., Pombubpa, N., Kurbessoian, T., Stajich, J. E., and Aanderdud, Z. T. 2019. Reproduction and dispersal of biological soil crust organisms. *Frontiers in Ecology and Evolution*, 7: 1-17.
- Wildan, A., Sutjihati, S., and Munarti. 2021. Keanekaragaman lichen di Pusat Pendidikan Konservasi Alam Bodogol, Taman Nasional Gunung Gede Pangrango. *Jurnal Penelitian Ekosistem Dipterokarpa*, 7(2): 1-12.
- Wille, N. 1900. Algologische Notizen I-VI. *Nyt Magazin for Naturvidenskaberne* 38(1): 1-27.

- Wolle, F. 1887. *Fresh-water Algae of the United States; (exclusive of the Diatomaceae)* complementary to Desmids of the United States ... One hundred and fifty-one plates ... including nine additional plates of desmids. Bethlehem, PA: The Comenius Press. pp. 1-364, Atlas, 157 pls.
- Zeller, G. 1873. Algae collected by Mr. S. Kurz in Arracan and British Burma, determined and systematically arranged by Dr. G. Zeller. *Journal of the Asiatic Society of Bengal* 42(2): 175-193.