

- Alzoubi, M.A., Nie-rouquette, A., and Sasmito, A.P., 2018, "Conjugate Heat Transfer in Artificial Ground Freezing Using Enthalpy-Porosity Method: Experiments and Model Validation," *International Journal of Heat and Mass Transfer* 126, pp.740–752.
- Antecka, A., Klepacz-Smółka, A., Szeląg, R., Pietrzyk, D., Ledakowicz, S., 2022, "Comparison of three methods for thermostable C-phycoerythrin separation and purification", *Chemical Engineering and Processing - Process Intensification*, Vol. 171, 108563.
- Ayachi, F., Nakbi, A., Sakly, A., Pinto, L.A.A., and Lamine, A.B., 2019, "Application of statistical physics formalism for the modeling of adsorption isotherms of water molecules on the microalgae SP", *Food and Bioprocess Processing*, Vol. 114, 103–112.
- Azizian, S., Eris, S., and Wilson, L.D., 2018, " Re-evaluation of the century-old Langmuir isotherm for modeling adsorption phenomena in solution", *Chemical Physics*, Vol. 513, pp. 99-104.
- Azizkhani, M., and Faghihian, H., 2019, "Application of a novel adsorbent prepared using magnetized *Spirulina platensis* algae modified by potassium nickel hexacyanoferrate for removal of cesium, studied by response surface methodology", *Comptes Rendus Chimie*, Vol. 22, pp. 562-573.
- Bray, F., Ferlay, J., Soerjomataram, I., Siegel, R.I., Torre, L.A., and Jemal, A., 2018, "Global Cancer Statistics 2018: GLOBOCAN Estimates of Incidence and Mortality Worldwide for 36 Cancers in 185 Countries", *CA Cancer Journal for Clinicians*, Vol. 68, pp. 394–424.
- Burkov, I.A., Pushkarev, A.V., Ryabikin, S.S. , Shakurov, A.V., Tsiganov, D.I., Zherdev, A.A., 2022, "Numerical simulation of controlled precision cryosurgery using argon Joule–Thomson and liquid nitrogen evaporation cryoprobe", *International Journal of Refrigeration*, Vol. 133, pp. 30–40.
- Carfagna, S., Landi, V., Coraggio, F., Salbitani, G., Vona, V., Pinto, G., Pollio, A., and Ciniglia, C., 2018, "Different characteristics of C-phycoerythrin (C-PC) in two strains of the extremophilic *Galdieria phlegrea*", *Algal Research*, Vol. 31, pp. 406–412.
- Cevoli, C., Fabbri, A., Tylewicz, U., and Rocculi, P., 2018, "Finite Element Model to Study the Thawing of Packed Frozen Vegetables as Influenced by Working Environment Temperature," *Biosystems Engineering*, Vol. 170, pp. 1–11.
- Chaiklahan, R., Chirasuwan, N., and Bunnag, B., 2012, "Stability of Phycocyanin Extracted from *Spirulina* Sp.: Influence of Temperature, pH and Preservatives", *Process Biochemistry*, Vol. 47, pp. 659–664.
- Chandrasekhar, A., Hamsavi, G.K., and Raghavarao, K.S.M.S., 2021, "Efficient extraction of food grade natural blue colorant from dry biomass of *Spirulina platensis* using eco-friendly methods", *Food and Bioprocess Processing*, Vol. 129, pp. 84-93.

- Chentir, I., Hamdi, H., Li, S., Doumandji, A., Markou, G., and Nasri, M., 2018, "Stability, bio-functionality and bio-activity of crude phycocyanin from a two-phase cultured Saharian *Arthrospira* sp. strain", *Algal Research*, Vol. 35, pp. 395–406.
- Chew, K.W., Yap, J.Y., Show, P.L., Suan, N.H., Juan, J.C., Lee, D.J., 2017, "Microalgae biorefinery: High value products perspectives", *Bioresource Technology*, Vol. 229, pp. 53–62.
- Chia, S.R., Chew, K.W., Show, P.L., Xia, A., Ho, S., and Lim, J.W., 2019, "Spirulina Platensis Based Biorefinery for the Production of Value-Added Products for Food and Pharmaceutical Applications," *Bioresource Technology*, Vol. 289, 121727.
- Choi, Y., Choi, T., Gurav, R., Bhatia, S.K., Park, Y., Kim, H.J., Kan, E., Yang, Y., 2020, "Adsorption behavior of tetracycline onto *Spirulina* sp (microalgae)- derived biochars produced at different temperatures", *Science of the Total Environment*, Vol. 710, 136282.
- Chua, K.J. and Chou, S.K., 2009, "On the Study of the Freeze-Thaw Thermal Process of a Biological System," *Applied Thermal Engineering*, Vol. 29, pp. 3696–3709.
- Czerwonka, A., Kaławaj, K., Sławińska-Brych, A., Lemieszek, M.K., Bartnik, M., Wojtanowski, K.K., Zdzisińska, B., Rzeski, W., 2018, "Anticancer effect of the water extract of a commercial *Spirulina* (*Arthrospira platensis*) product on the human lung cancer A549 cell line", *Biomedicine & Pharmacotherapy*, Vol. 106, pp. 292–302.
- D'Alessandro, E.B., Filho, N.R.A., 2016, "Concepts and studies on lipid and pigments of microalgae: A review ", *Renewable and Sustainable Energy Reviews*, Vol. 58, pp. 832–841.
- Dejsungkranont, M., Chen, H., and Sirisansaneeyakul, S., 2017, "Enhancement of antioxidant activity of C-phycocyanin of *Spirulina* powder treated with supercritical fluid carbon dioxide", *Agriculture and Natural Resources*, Vol. 51, pp. 347-354.
- Deniz, I., Ozen, M.O., and Yesil-Celiktas, O., 2016, "Supercritical Fluid Extraction of Phycocyanin and Investigation of Cytotoxicity on Human Lung Cancer Cells", *The Journal of Supercritical Fluids*, Vol. 108, pp. 13–18.
- Dima, J.B., Santos, M.V., Baron, P.J., Califano, A., and Zaritzky, N.E., 2013, "Experimental Study and Numerical Modeling of the Freezing Process of Marine Products," *Food and Bioproducts Processing*, Vol. 92(1), pp. 54–66.
- Dissa, A.O., Desmorieux, H., Savadogo, P.W., Segda, D.I., and Koulidiati, J., 2010, "Shrinkage, porosity and density behaviour during convective drying of spirulina", *Journal of Food Engineering*, Vol. 97, pp. 410-418.
- Dombrovsky, L.A., Nenarokomova, N.B., Tsiganov, D.I., and Zeigarnik, Y.A., 2015, "Modeling of Repeating Freezing of Biological Tissues and Analysis of Possible Microwave Monitoring of Local Regions of Thawing," *International Journal of Heat and Mass Transfer*, Vol. 89, pp. 894–902.
- Durmaz, Y., Kilicli, M., Toker, O.S., Konar, N., Palabiyik, I., and Tamtürk, F., 2020, "Using spray-dried microalgae in ice cream formulation as a natural colorant: Effect on physicochemical and functional properties", *Algal Research*, Vol. 47, 101811.

- El-Araby, D.A., Amer, S.A., Attia, G.A., Osman, A., Fahmy, E.M., Altohamy, D.E., Alkafafy, M., Elakkad, H.A., and Tolba, S.A., 2022, "Dietary *Spirulina platensis* phycocyanin improves growth, tissue histoarchitecture, and immune responses, with modulating immunoexpression of CD3 and CD20 in Nile tilapia, *Oreochromis niloticus*", *Aquaculture*, Vol. 546, 737413.
- Faieta, M., Toong, C., Corradini, M.G., Ludescher, R.D., Pittia, P., 2022, "Degradation kinetics of C-Phycocyanin under isothermal and dynamic thermal treatments", *Food Chemistry*, Vol. 382, 132266.
- Fernández-Rojas, B., Hernández-Juárez, J., and Pedraza-Chaverri, J., 2014, "Nutraceutical properties of phycocyanin", *Journal of Functional Foods*, Vol. 11, pp. 375–392.
- Ferreira, S.R., 2017, "Freezing Time of a Slab Using the Method of Lines", *International Journal of Refrigeration*, Vol. 75, pp.77–94.
- Ferreira, A.F., Alma Toledo-Cervantes, A.T., de Godos, I., Gouveia, L., and Munõz, R., 2019, "Life cycle assessment of pilot and real scale photosynthetic biogas upgrading units", *Algal Research*, Vol. 44, 101668.
- Ferreira-Santos, P., Nunes, R., De Biasio, F., Spigno, G., Gorgoglione, D., Teixeira, J.A., and Rocha, C.M.R., 2020, "Influence of thermal and electrical effects of ohmic heating on C- phycocyanin properties and biocompounds recovery from *Spirulina platensis*", *LWT Food Science and Technology*, Vol.128, 109491.
- Gammoudi, S., Athmouni, K., Nasri, A., Diwani, N., Grati, I., Belhaj, D., Bouaziz-Ketata, H., Fki, L., El Feki, A., and Ayadi, H., 2019, "Optimization, isolation, characterization and hepatoprotective effect of a novel pigment-protein complex (phycocyanin) producing microalga: *Phormidium versicolor* NCC-466 using response surface methodology", *International Journal of Biological Macromolecules*, Vol. 137, pp. 647–656.
- Gantar, M., Simovi, D., Djilas, S., Gonzalez, W., and Miksovska, J., 2012, "Isolation, characterization and antioxidative activity of C-phycocyanin from *Limnothrix* sp strain 37-2-1", *Journal of Biotechnology*, Vol.159, pp. 21– 26.
- Garcia, H.F.L., and Mejia, N.L., 2021, "Mathematical Model of a Bubble Column for the Increased Growth of *Arthrospira platensis* and the Formation of Phycocyanin", *International Journal of Technology*, Vol. 12, No. 2, pp. 232-242.
- García-López, D.A., Olguín, E.J., González-Portela, R.E., Sánchez-Galván, G., De Philippis, R., Lovitt, R.W., Llewellyn, C.A., Fuentes-Grünwald, C., and Saldívar, R.P., 2020, "A novel two-phase bioprocess for the production of *Arthrospira* (*Spirulina*) *maxima* LJGR1 at pilot plant scale during different seasons and for phycocyanin induction under controlled conditions", *Bioresource Technology*, Vol. 298, 122548.
- Go, G.H., Lee, J., Shin, H.S., Ryu, B.H., Jin, H.W., and Kim, D.W., 2019, "Evaluation of One-Dimensional Freezing Behavior for Ice-Rich Sandy Soil," *International Journal of Heat and Mass Transfer*, Vol. 130, pp. 960–967.
- Goncalves, B.J., Pereira, C.G., Lago, A.M., Goncalves, C.S., Giarola, M.O., Abreu, L.R., and Resende, J.V., 2017, "Thermal Conductivity as Influenced by the Temperature and Apparent Viscosity of Dairy Products," *Journal of Dairy Science*, Vol. 100, No. 5, pp. 3513–3525.

- Grover, P., Bhatnagar, A., Kumari, N., Bhatt, A.N., Nishad, D.K., and Purkayastha, J., 2021, "C-Phycocyanin a novel protein from *Spirulina platensis*- In vivo toxicity, antioxidant and immunomodulatory studies", *Saudi Journal of Biological Sciences*, Vol. 28, pp.1853–1859.
- Gunasundari, E., and Kumar, S., 2017, "Adsorption isotherm, kinetics and thermodynamic analysis of Cu(II) ions onto the dried algal biomass (*Spirulina platensis*)", *Journal of Industrial and Engineering Chemistry*, Vol. 56, pp. 129–144.
- Guo, X., and Wang, J., 2019, " Comparison of linearization methods for modeling the Langmuir adsorption isotherm", *Journal of Molecular Liquids*, Vol. 296, 111850.
- Hernandez, Y.F.F., Khandual, S., and Lopez, I.G.R., 2017, "Cytotoxic effect of *Spirulina platensis* extracts on human acute leukemia Kasumi-1 and chronic myelogenous leukemia K-562 cell lines", *Asian Pacific Journal of Tropical Biomedicine*, Vol. 7, No. 1, pp. 14–19.
- Ho, S., Liao, J., Chen, C., and Chang, J., 2018, "Combining light strategies with recycled medium to enhance the economic feasibility of phycocyanin production with *Spirulina platensis*", *Bioresource Technology*, Vol. 247, pp. 669–675.
- Hsieh-Lo, M., Castillo, G., Ochoa-Becerra, M.A., and Mojica, L., 2019, "Phycocyanin and phycoerythrin: Strategies to improve production yield and chemical stability", *Algal Research*, Vol. 42, 101600.
- Ilter, I., Akyil, S., Demirel, Z., Koc, M., Conk-Dalay, M., and Kaymak-Ertekin, F., 2018, "Optimization of phycocyanin extraction from *Spirulina platensis* using different techniques", *Journal of Food Composition and Analysis*, Vol. 70, pp. 78–88.
- Jaeschke, D.P., Mercali, G.D., Marczak, L.D.F., Müller, G., Frey, W., and Gusbeth, C., 2019, "Extraction of valuable compounds from *Arthrospira platensis* using pulsed electric field treatment", *Bioresource Technology*, Vol. 283, pp. 207–212.
- Jaeschke, D.P., Teixeira, I.P, Marczak, L.F., and Mercali, G.D., 2021, "Phycocyanin from *Spirulina*: A review of extraction methods and stability", *Food Research International*, Vol. 143, 110314.
- Jamilatun, S., Budiman, A., Budhijanto, and Rochmadi, 2017, "Non-Catalytic Slow Pyrolysis of *Spirulina Platensis* Residue for Production of Liquid Biofuel", *International Journal of Renewable Energy Research*, Vol. 7, No. 4, pp. 1901–1908.
- Karthikeyan, J, S., Desai, K.M., Salvi, D., Bruins, R., and Karwe, M.V., 2015, "Effect of Temperature Abuse on Frozen Army Rations, Part 1 : Developing a Heat Transfer Numerical Model Based on Thermo-Physical Properties of Food", *Food Research International*, Vol. 76, pp. 595–604.
- Kementrian Kesehatan RI, 2019, "Profil Kesehatan Indonesia Tahun 2018", Kementrian Kesehatan Republik Indonesia, hal. 244.
- Kong, L., Yu, A., Liang, K., and Qi, J., 2022, "Influence of bimodal structure on the soil freezing characteristic curve in expansive soils", *Cold Regions Science and Technology*, Vol.194, 103437.

- Lauceri, R., Zittelli, G. C., and G. Torzillo, 2019, "A simple method for rapid purification of phycobiliproteins from *Arthrospira platensis* and *Porphyridium cruentum* biomass", *Algal Research*, Vol. 44, 101685.
- Lee, K.M., and Inaba, A., 2004, "Life Cycle Assessment Best Practices of ISO 14040 Series", Asia-Pacific Economic Cooperation Ministry of Commerce, Industry and Energy Republic of Korea, Committee on Trade and Investment.
- Leu, J., Lin, T., Selvamani, M.J.P., Chen, H., Liang, J., Pan, K., 2013, "Characterization of a novel thermophilic cyanobacterial strain from Taiwan hot springs in Taiwan for high CO₂ mitigation and C-phycoerythrin extraction", *Process Biochemistry*, Vol. 48, pp. 41–48.
- Li, B., Zhang, X., Gao, M., and Chu, X., 2005, "Effects of CD59 on antitumoral activities of phycocyanin from *Spirulina platensis*", *Biomedicine and Pharmacotherapy*, Vol. 59, pp. 551–560.
- Li, W., Lu, L., Liu, B., and Qin, S., 2020, "Effects of phycocyanin on pulmonary and gut microbiota in a radiation-induced pulmonary fibrosis model", *Biomedicine & Pharmacotherapy*, Vol. 132, 110826.
- Liang, Y., Kaczmarek, M.B., Kasprzak, A.K., Tang, J., Shah, M.M.R., Jin, P., Klepacz-Smółka, A., Cheng, J.J., Ledakowicz, S., and Daroch, M., 2018, "Thermosynechococcaceae as a source of thermostable C-phycoerythrin: properties and molecular insights", *Algal Research*, Vol. 35, pp. 223–235.
- Liao, G., Gao, B., Gao, Y., Yang, X., Cheng, X., and Ou, Y., 2016, "Phycocyanin Inhibits Tumorigenic Potential of Pancreatic Cancer Cells: Role of Apoptosis and Autophagy," *Nature*, Vol. 6:34564, pp.1–12.
- Lima, G.M., Teixeira, P.C.N., Teixeira, C.M.L.L., Filócomo, D., and Lage, C.L.S., 2018, "Influence of spectral light quality on the pigment concentrations and biomass productivity of *Arthrospira platensis*", *Algal Research*, Vol. 31, pp. 157–166.
- Markou, G., and Georgakakis, D., 2011, "Cultivation of filamentous cyanobacteria (blue-green algae) in agro-industrial wastes and wastewaters: A review", *Applied Energy*, Vol. 88, pp. 3389–3401.
- Martínez, J.M., Luengo, E., Saldaña, G., Álvarez, I., and Raso, J., 2017, "C-Phycocyanin Extraction Assisted by Pulsed Electric Field from *Arthrospira Platensis*", *Food Research International*, Vol. 99, pp. 1042–1047.
- Moraes, C.C., Mazutti, M.A., Mauger, F., and Kalil, S.J., 2013, "Modeling of Ion Exchange Expanded-Bed Chromatography for the Purification of C-Phycocyanin", *Journal of Chromatography A*, Vol. 1281, pp. 73–78.
- Mulot, V., Benkhelifa, H., Pathier, D., Ndoye, F., and Flick, D., 2019, "Experimental and numerical characterization of food dehydration during freezing", *Journal of Food Engineering*, Vol. 263, pp. 13–24.
- Mutiah, R., Listyana, A., dan Suryadinata, A., 2017, "Aktivitas Antikanker Kombinasi Ekstrak Benalu Belimbing (*Macrosolen cochinchinensis*) dan Bawang Sabrang (*Eleutherine palmifolia* (L) Merr.) pada Sel Kanker Serviks (SEL HeLa)", *Traditional Medicine Journal*, Vol. 22, No. 3, pp. 146-152.
- Nakagawa, K., Ritcharoen, W., Sri-Uam, P., Pavasant, P., and Adachi, S., 2016, "Antioxidant properties of convective-air-dried *Spirulina maxima*: Evaluation of

- Nithya, K., Sathish, A., Pradeep, K., and Baalaji, S.K., 2019, "Algal biomass waste residues of *Spirulina platensis* for chromium adsorption and modeling studies", *Journal of Environmental Chemical Engineering*, Vol. 7, 103273.
- Oliveira, E.G., Rosa, G.S., Moraes, M.A., and Pinto, L.A.A., 2009, "Characterization of thin layer drying of *Spirulina platensis* utilizing perpendicular air flow", *Bioresource Technology*, Vol. 100, 1297–1303.
- Pan, R., Lu, R., Zhang, Y., Zhu, M., Zhu, W., Yang, R., Zhang, E., Ying, J., Xu, T., Yi, H., Li, J., Shi, M., Xu, Z., Li, P., Bao, Q., 2015, " *Spirulina* phycocyanin induces differential protein expression and apoptosis in SKOV-3 cells", *International Journal of Biological Macromolecules*, Vol. 81, pp. 951–959.
- Pan-utai, W., and Iamtham, S., 2019, "Extraction, purification and antioxidant activity of phycobiliprotein from *Arthrospira platensis*", *Process Biochemistry*, Vol. 82, pp. 189–198.
- Papadaki, S., Kyriakopoulou, K., Tzovenis, I., Krokida, M., 2017, "Environmental impact of phycocyanin recovery from *Spirulina platensis* cyanobacterium", *Innovative Food Science and Emerging Technologies*, Vol. 44, pp. 217–223.
- Peres, E.C., Cunha, J.M., Dortzbacher, G.F., Pavan, F.A., Lima, E.C., Edson L, Foletto, E.L., and Dotto, G.L., 2018, "Treatment of leachates containing cobalt by adsorption on *Spirulina* sp, and activated charcoal", *Journal of Environmental Chemical Engineering*, Vol. 6, pp. 677–685.
- Perez-Lopez, P., Gonzalez-Garcia, S., Jeffreys, C., Agathos, S.N., McHugh, E., Walsh, D., Murray, P., Moane, S., Feijoo, G., Moreira, M.T., 2014, "Life cycle assessment of the production of the red antioxidant carotenoid astaxanthin by microalgae: from lab to pilot scale", *Journal of Cleaner Production*, Vol. 64, pp. 332–244.
- Prabakaran, G., Sampathkumar, P., Kavisri, M., and Moovendhan, M., 2020, "Extraction and characterization of phycocyanin from *Spirulina platensis* and evaluation of its anticancer, antidiabetic and antiinflammatory effect", *International Journal of Biological Macromolecules*, Vol. 153, 256–263.
- Ravindran, B., Gupta, S.K., Cho, W., Kim, J.K., Lee, S.R., Jeong, K., Lee, D.J., and Choi, H., 2016, "Microalgae Potential and Multiple Roles—Current Progress and Future Prospects—An Overview", *Sustainability*, Vol. 8, 1215.
- Reliantoro, S., Hanafi, J., Hermana, J., Siregar, K., Chairani, E., Azis, M.M., Iswara, A.P., Adiansyah, J.S., Pramulya, R., Setiawan, A.A.R., Rusdiyanto, F.X.G., Yosephine, D.M.W., Syafrudin, A., Ayu, A.P., and Adiwijaya, D., 2021, "Pedoman Penyusunan Laporan Penilaian Daur Hidup (LCA)", Direktorat Jenderal Pengendalian Pencemaran dan Kerusakan Lingkungan Kementerian Lingkungan Hidup dan Kehutanan, RI, edisi 1, Jakarta.
- Renugadevi, K., Nachiyar, C.V., Sowmiya, P., Sunkar, S., 2018, "Antioxidant activity of phycocyanin pigment extracted from marine filamentous cyanobacteria *Geitlerinema* sp TRV57", *Biocatalysis and Agricultural Biotechnology*, Vol. 16, pp. 237–242.
- Rizwan, M., Mujtaba, G., Memon, S.A., Lee, K., and Rashid, N., 2018, "Exploring the

- potential of microalgae for new biotechnology applications and beyond: A review", *Renewable and Sustainable Energy Reviews*, Vol. 92, pp. 394–404.
- Rodrigues, R.D.P., de Castro, F.C., de Santiago-Aguiar, R.S., and Rocha, M.V.P., 2018, "Ultrasound-assisted extraction of phycobiliproteins from *Spirulina (Arthrospira) platensis* using protic ionic liquids as solvent", *Algal Research*, Vol. 31, pp. 454–462.
- Rodrigues, R.D.P., de Lima, P.F., de Santiago-Aguiar, R.S., and Rocha, M.V.P., 2019, "Evaluation of protic ionic liquids as potential solvents for the heating extraction of phycobiliproteins from *Spirulina (Arthrospira) platensis*", *Algal Research*, Vol. 38, 101391.
- Rodrigues, R.D.P., e Silva, A.S., Carlos, T.A.V., Bastos, A. K. P., de Santiago-Aguiar, R.S. and Rocha, M.V.P., 2020, "Application of protic ionic liquids in the microwave-assisted extraction of phycobiliproteins from *Arthrospira platensis* with antioxidant activity", *Separation and Purification Technology*, Vol. 252, 117448.
- Safi, C., Ursu, A.V., Laroche, C., Zebib, B., Merah, O., Pontalier, P., and Vaca-Garcia, C., 2014, "Aqueous extraction of proteins from microalgae: Effect of different cell disruption methods", *Algal Research*, Vol. 3, No. 1, pp. 61–65.
- Salgado, M.T.S. F., e Silva, E.F., Matsumoto, A.M., Mattozo, F.H., de Amarante, M.C.A., Kalil, S.J., and Votto, A.P.S., 2022, "C-phycocyanin decreases proliferation and migration of melanoma cells: In silico and in vitro evidences", *Bioorganic Chemistry*, Vol. 122, 105757.
- Sayadi, M.H., Salmania, N., Heidari, A., and Rezaei, M.R., 2018, "Bio-synthesis of palladium nanoparticle using *Spirulina platensis* alga extract and its application as adsorbent", *Surfaces and Interfaces*, Vol. 10, pp. 136–143.
- Sayadi, M.H., Rashki, O., and Shahri, E., 2019, "Application of modified *Spirulina platensis* and *Chlorella vulgaris* powder on the adsorption of heavy metals from aqueous solutions", *Journal of Environmental Chemical Engineering*, Vol. 7, 103169.
- Sela, K., Budhijanto, W., and Budiman, A., 2021, "Protein Extraction from *Spirulina platensis* by Using Ultrasound Assisted Extraction: Effect of Solvent Types and Extraction Time", *Key Engineering Materials*, Vol. 872, pp. 33–37.
- Silveira, S.T., Burkert, J.F.M., Costa, J.A.V., Burkert, C.A.V., and Kalil, S.J., 2007, "Optimization of Phycocyanin Extraction from *Spirulina Platensis* Using Factorial Design", *Bioresource Technology*, Vol. 98, No. 8, pp. 1629–1634.
- Soni, R.A., Sudhakar, K., and Rana, R.S., 2017, "Spirulina-From Growth to Nutritional Product: A Review," *Trends in Food Science and Technology*, Vol. 69, pp.157–171.
- Su, C.H., Liu, C.S., Yang, P.C., Syu, K.S., and Chiuh, C.C., 2014, "Solid-Liquid Extraction of Phycocyanin from *Spirulina Platensis*: Kinetic Modeling of Influential Factors", *Separation and Purification Technology*, Vol. 123, pp. 64–68.
- Suganya, T., Varman, M., Masjuki, H.H., and Renganathan, S., 2016, "Macroalgae and microalgae as a potential source for commercial applications along with biofuels production: A biorefinery approach", *Renewable and Sustainable Energy*

- Sun, X., Huang, H., Zhu, Y., Du, Y., Yao, L., and Gao, P., 2019, "Adsorption of Pb^{2+} and Cd^{2+} onto Spirulina platensis harvested by polyacrylamide in single and binary solution systems ", *Colloids and Surfaces A*, Vol. 583, 123926.
- Sung, H., Ferlay, J., Siegel, R.L., Laversanne, M., Soerjomataram, I., Jemal, A., Bray, F., 2021, "Global Cancer Statistics 2020: GLOBOCAN Estimates of Incidence and Mortality Worldwide for 36 Cancers in 185", *CA Cancer Journal for Clinicians*, Vol. 71, pp. 209-249.
- Tavanandi, H.A., Mittal, R., Chandrasekhar, J., and Raghavarao, K.S.M.S., 2018, "Simple and Efficient Method for Extraction of C-Phycocyanin from Dry Biomass of Arthrospira Platensis," *Algal Research*, Vol. 31, pp. 239–251.
- Thangam, R., Suresh, V., Princy, W.A., Rajkumar, M., SenthilKumar, N., Rengasamy, R., Anbazhagan, C., Kaveri, K., Kannan, S., Gunasekaran, P., 2013, "C-Phycocyanin from Oscillatoria tenuis exhibited an antioxidant and in vitro antiproliferative activity through induction of apoptosis and G₀/G₁ cell cycle arrest", *Food Chemistry*, Vol. 140, pp. 262–272.
- Uyar, R., Bedane, T.F., Erdogdu, F., Palazoglu, T.K., Marra, F., Farag, K.W., 2015, "Radio-frequency thawing of food products – A computational study", *Journal of Food Engineering*, Vol. 146, pp. 163–171.
- Vernes, L., Abert-Vian, M., El Maâtaoui, M., Tao, Y., and Chemat, F., 2019, "Application of ultrasound for green extraction of proteins from spirulina, Mechanism, optimization, modeling, and industrial prospects", *Ultrasonics-Sonochemistry*, Vol. 54, pp. 48–60.
- Vonshak, A., 1997, "Spirulina platensis (Arthrospira) : physiology, cell biology and biotechnology", pp. 233, Taylor & Francis Ltd, London.
- Wang, F., Liu, Y.H., Ma, Y., Cui, Z.G., and Shao, L.L., 2017, "Application of TMA-PEG to Promote C-Phycocyanin Extraction from S. Platensis in the PEG ATPS", *Process Biochemistry*, Vol. 52, pp. 283–294.
- Wang, J., Zhang, M., and Fang, Z., 2019, "Recent development in efficient processing technology for edible algae: A review", *Trends in Food Science & Technology* Vol. 88, pp. 251–259.
- Ye, C., Mu, D., Horowitz, N., Xue, Z., Chen, J., Xue, M., Zhou, Y., Klutts, M., and Zhou, W., 2018, "Life cycle assessment of industrial scale production of spirulina tablets", *Algal Research*, Vol. 34, pp. 154–163.
- Yuan, D., Yao, M., Wang, L., Li, Y., Gong, Y., and Hu, Q., 2019, "Effect of recycling the culture medium on biodiversity and population dynamics of bio-contaminants in Spirulina platensis mass culture systems", *Algal Research* Vol. 44, 101718.
- Zheng, J., Yin, H., Shen, C., Zhang, L., Ren, D., and Lu, J., 2020, "Functional and Structural Properties of Spirulina Phycocyanin Modified by Ultra-High-Pressure Composite Glycation", *Food Chemistry*, Vol. 306, 125615.
- Zotte, A.D., Cullere, M., Sartori, A., Szendrő, Z., Kovács, M., Giaccone, V., and Bosco, A.D., 2014, "Dietary Spirulina (Arthrospira platensis) and Thyme (Thymus vulgaris) supplementation to growing rabbits: Effects on raw and cooked meat quality, nutrient true retention and oxidative stability", *Meat Science*, Vol. 98, pp. 94–103.