

Charlotta Turner
Centrum för analys och syntes
Naturvetenskapliga fakulteten
Adresstyp: Besöksadress.
Naturvetarvägen 22/Sölvegatan 39 A
223 62
Lund
Sverige



Adresstyp: Postadress.

Box 124
221 00
Lund
Sverige

Adresstyp: Besöksadress.

Astronomihuset, Sölvegatan 27A
Rm B152B
223 62
Lund
Sverige

Adresstyp: Postadress.

Box 118
221 00
Lund
Sverige

E-post: charlotta.turner@chem.lu.se

Telefon: +46706222752, +46462224418

Mobil: +46706222752

Forskning

Charlotta Turners forskning handlar om analytisk kemi för en hållbar utveckling. I Turners forskargrupp "the Green Technology Group" undersöks grundläggande egenskaper av gröna lösningsmedel, t.ex. superkritisk koldioxid, subkritiskt vatten och koldioxid-expanderade vätskor, för användning vid extraktions- och separationsmetoder. Forskningsprojekt handlar ofta om utvinning och analys av värdefulla ämnen i restprodukter från livsmedel- skogs-, jordbruks- och havsbruksindustri.

Anställning

Professor

Centrum för analys och syntes
Lunds universitet
Lund, Sverige
2015 sep. 21 → present

Vicedekan

Naturvetenskapliga fakulteten
Lunds universitet
Lund, Sverige
2023 dec. 18 → present

Forskarassistent

Uppsala universitet, Institutionen för kemi, BMC
Sverige
2004 jan. 1 → 2009 jan. 1

Postdoktor

USDA ARS Plant Gene Expression Center
Albany, USA
2001 jan. 1 → 2004 jan. 1

Forskningsoutput

Exploring Lignin Conformation in Organic and Deep Eutectic Solvents Using Small-Angle Neutron Scattering

Sarkar, S., Kroon, M., Papp, D., Martin, N., Turner, C. & Edler, K. J., 2026, I: *Langmuir*. 42, 1

Seasonal analysis and environmental risk assessment of selected emerging pollutants in the Vaal River catchment area of South Africa

Mthiyane, Z. L., García Martínez, J., Khulu, S., Dlamini, M. L., Turner, C. & Chimuka, L., 2025 nov., I: *Environmental Monitoring and Assessment*. 197, 11, 16 s., 1264.

A review of analytical techniques for characterizing phlorotannins in brown seaweeds: Current challenges and future prospects

Najibi, A., Gondo, T. F. & Turner, C., 2025 aug., I: *Algal Research*. 90, 104105.

A sustainable approach to extracting baobab oil: neat supercritical CO₂ optimization

Gashi, F., Turner, C., Mustafa, A. & Nermark, F., 2025 juni 25, I: *RSC Advances*. 15, 27, s. 21803-21810 8 s.

Oxidative depolymerization of lignosulfonates to low-molecular weight aromatics: an interlaboratory study

Norberg, M., Bekirovska, S., Klein, J., Moeller, F., Gustafson, K. P. J., Sandahl, M., Hulteberg, C. P., Turner, C., Abdelaziz, O. Y., Waldvogel, S. R., Spéjel, P. & Bengtsson, O., 2025, I: *RSC Sustainability*. 3, 10, s. 4818-4824

Investigating the quality of extraction and quantification of bioactive compounds in berries through liquid chromatography and multivariate curve resolution

Gondo, T. F., Huang, F., Marungruang, N., Heyman Lindén, L. & Turner, C., 2024 aug. 15, I: *Analytical and Bioanalytical Chemistry*. 416, s. 5387-5400 14 s.

A Complementary Multitechnique Approach to Assess the Bias in Molecular Weight Determination of Lignin by Derivatization-Free Gel Permeation Chromatography

Papp, D., Carlström, G., Nylander, T., Sandahl, M. & Turner, C., 2024 juli 2, I: *Analytical Chemistry*. 96, 26, s. 10612-10619 8 s.

Examining functional group-dependent effects on the ionization of lignin monomers using supercritical fluid chromatography/electrospray ionization mass spectrometry

Prothmann, J., Molins-Delgado, D., Braune, A., Sandahl, M., Turner, C. & Spéjel, P., 2024 juli, I: *Analytical and Bioanalytical Chemistry*. 416, 18, s. 4007-4014 8 s.

Optimization of coal desulfurization method by sub/supercritical fluid extraction with binary mixtures of carbon dioxide and ethyl lactate as a solvent

Nermark, F. M., Lindblad, R., Mapolelo, M. M., Sandahl, M., Wendt, O. F. & Turner, C., 2024 juni, I: *Green Analytical Chemistry*. 9, 100111.

Analysis of vitamin D and its metabolites in biological samples – Part I: Optimization and comparison of UHPSFC-MS/MS and UHPLC-MS/MS methods

Pilařová, V., Socas-Rodríguez, B., Nováková, L., Essén, S., Holm, C., Turner, C. & Sandahl, M., 2024 apr. 15, I: *Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences*. 1237, 124087.

Analysis of vitamin D and its metabolites in biological samples – Part II: Optimization of a sample preparation method for liver tissue

Pilařová, V., Socas-Rodríguez, B., Nováková, L., Holm, C., Sandahl, M. & Turner, C., 2024 apr. 15, I: *Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences*. 1237, 124088.

Extractability, selectivity, and comprehensiveness in supercritical fluid extraction of seaweed using ternary mixtures of carbon dioxide, ethanol, and water

Gondo, T. F., Jönsson, M., Karlsson, E. N., Sandahl, M. & Turner, C., 2023 sep. 13, I: *Journal of chromatography. A*. 1706, s. 464267 13 s.

Native lignin extraction from soft- and hardwood by green and benign sub/supercritical fluid extraction methodologies
Nardella, F., Prothmann, J., Sandahl, M., Spégel, P., Ribechini, E. & Turner, C., 2023 juli, I: RSC Advances. 13, 32, s. 21945-21953 9 s.

Research and education in analytical chemistry — industrial and academic perspectives from a survey conducted in Sweden

Bergquist, J., Emmer, Å., Farbrot, A. & Turner, C., 2023, I: Analytical and Bioanalytical Chemistry. 415, 12, s. 2151-2161 11 s.

Single-Standard Quantification Strategy for Lignin Dimers by Supercritical Fluid Chromatography with Charged Aerosol Detection

Papp, D., Rukkijakan, T., Lebedeva, D., Nylander, T., Sandahl, M., Samec, J. S. M. & Turner, C., 2022 dec., I: Analytical Chemistry. 95, 2, s. 1436-1445

Desulfurization of Morupule Coal with Subcritical Aqueous Ethanol Extraction

Nermark, F. M., Mapolelo, M. M., Darkwa, J., Wendt, O. F. & Turner, C., 2022 nov., I: ChemistryOpen. 11, 11, e202200046.

A review of green solvent extraction techniques and their use in antibiotic residue analysis

Khataei, M. M., Epi, S. B. H., Lood, R., Spégel, P., Yamini, Y. & Turner, C., 2022 feb. 5, I: Journal of Pharmaceutical and Biomedical Analysis. 209, 114487.

Simultaneous Determination of Vitamin D and Its Hydroxylated and Esterified Metabolites by Ultrahigh-Performance Supercritical Fluid Chromatography-Tandem Mass Spectrometry

Socas-Rodríguez, B., Pilařová, V., Sandahl, M., Holm, C. & Turner, C., 2022 feb., I: Analytical Chemistry. 94, 7, s. 3065-3073 9 s.

Biogeographical variation in antimicrobial resistance in rivers is influenced by agriculture and is spread through bacteriophages

Andersson, T., Adell, A. D., Moreno-Switt, A. I., Spégel, P., Turner, C., Overballe-Petersen, S., Fuursted, K. & Lood, R., 2022, I: Environmental Microbiology. 24, 10, s. 4869-4884

Separation of monomeric and dimeric phenolic compounds in lignosulphonate lignin on different stationary phases using ultrahigh-performance supercritical fluid chromatography

Prothmann, J., Palmer, S., Turner, C. & Sandahl, M., 2021 sep., I: Journal of Chromatography A. 1653, 462408.

Investigating lignin-derived monomers and oligomers in low-molecular-weight fractions separated from depolymerized black liquor retentate by membrane filtration

Li, K., Prothmann, J., Sandahl, M., Blomberg, S., Turner, C. & Hultberg, C., 2021 maj, I: Molecules. 26, 10, 2887.

Multivariate optimization of a combined static and dynamic supercritical fluid extraction method for trace analysis of pesticides pollutants in organic honey

Tolcha, T., Gemechu, T., Al-Hamimi, S., Megersa, N. & Turner, C., 2021 apr. 1, I: Journal of Separation Science. 44, 8, s. 1716-1726 11 s.

Identification of Phlorotannins in the Brown Algae, *Saccharina latissima* and *Ascophyllum nodosum* by Ultra-High-Performance Liquid Chromatography Coupled to High-Resolution Tandem Mass Spectrometry

Sardari, R. R. R., Prothmann, J., Gregersen, O., Turner, C. & Nordberg Karlsson, E., 2021 jan., I: Molecules (Basel, Switzerland). 26, 1, 17 s., 43.

Cross-national differences in consumer responses to savoury crackers containing blackcurrant pomace

Reißner, A. M., Struck, S., Alba, K., Proserpio, C., Foschino, R., Turner, C., Hernando, I., Zahn, S. & Rohm, H., 2021, I: International Journal of Food Science and Technology. 56, 10, s. 5007-5016

Measurement of relative static permittivity and solvatochromic parameters of binary and ternary CO₂-expanded green solvents

Cui, J., Norberg, M., Andersson, M., Klintberg, L., Sandahl, M., Cunico, L. P. & Turner, C., 2021, I: Journal of Supercritical Fluids. 171, 105196.

Non-targeted analysis strategy for the identification of phenolic compounds in complex technical lignin samples

Prothmann, J., Li, K., Hulteberg, C., Spégel, P., Sandahl, M. & Turner, C., 2020 sep. 7, I: ChemSusChem. 13, 17, s. 4605-4612 8 s.

A Fast and Green Extraction Method for Berry Seed Lipid Extraction Using CO₂ Expanded Ethanol Combined with Sonication

Al-Hamimi, S. & Turner, C., 2020 apr., I: European Journal of Lipid Science and Technology. 122, 4, 1900283.

Selective pressurized hot water extraction of nutritious macro-nutrients vs. micro-nutrients in Moringa oleifera leaves—a chemometric approach

Nuapia, Y., Al-Hamimi, S., Matshediso, P. G., Cukrowska, E., Tutu, H., Turner, C. & Chimuka, L., 2020 apr., I: Analytical and Bioanalytical Chemistry. 412, 11, s. 2495-2503 9 s.

High density supercritical carbon dioxide for the extraction of pesticide residues in onion with multivariate response surface methodology

Tolcha, T., Gemechu, T., Al-Hamimi, S., Megersa, N. & Turner, C., 2020 feb. 24, I: Molecules. 25, 4, 1012.

Engineering the carotenoid biosynthetic pathway in Rhodothermus marinus for lycopene production

Kristjansdottir, T., Ron, E. Y. C., Molins-Delgado, D., Fridjonsson, O. H., Turner, C., Bjornsdottir, S. H., Gudmundsson, S., van Niel, E. W. J., Karlsson, E. N. & Hreggvidsson, G. O., 2020, I: Metabolic Engineering Communications. 11, e00140.

Enhanced distribution kinetics in liquid-liquid extraction by CO₂-expanded solvents

Cunico, L. P., Sun, M., Rui, Y., Ghirmai, S., Enekvist, M., Lundegard, S., Sandahl, M. & Turner, C., 2020, I: Journal of Supercritical Fluids. 163, 104874.

Recent advances in the analysis of vitamin D and its metabolites in food matrices

Socas-Rodríguez, B., Sandahl, M., Holm, C. & Turner, C., 2020, I: separations. 7, 2, 27 s., 36.

Solubility and Thermal Degradation of Quercetin in CO₂-Expanded Liquids

Cunico, L. P., Cobo, A. M., Al-Hamimi, S. & Turner, C., 2020, I: Molecules (Basel, Switzerland). 25, 23, 5582.

Evaluation of sequential processing for the extraction of lipids, starch and proteins from wheat bran

Sardari, R., Sutiono, S., Azeem, H. A., Galbe, M., Larsson, M., Turner, C. & Nordberg Karlsson, E., 2019 nov. 28, I: Frontiers in Bioengineering and Biotechnology. 7, 413

Membrane filtration of alkali-depolymerised kraft lignin for biological conversion

Abdelaziz, O. Y., Ravi, K., Nöbel, M., Tunã, P., Turner, C. & Hulteberg, C. P., 2019 sep. 1, I: Bioresource Technology Reports. 7, 100250.

Oxidative Depolymerisation of Lignosulphonate Lignin into Low-Molecular-Weight Products with Cu-Mn/ δ -Al₂O₃

Abdelaziz, O. Y., Meier, S., Prothmann, J., Turner, C., Riisager, A. & Hulteberg, C. P., 2019 mars 5, I: Topics in Catalysis. 62, s. 639–648 10 s.

A sustainable approach for the extraction of cholesterol-lowering compounds from an olive by-product based on CO₂-expanded ethyl acetate

Vásquez-Villanueva, R., Plaza, M., García, M. C., Turner, C. & Marina, M. L., 2019, I: Analytical and Bioanalytical Chemistry. 411, 22, s. 5885-5896

Composition and physicochemical properties of dried berry pomace

Reißner, A. M., Al-Hamimi, S., Quiles, A., Schmidt, C., Struck, S., Hernando, I., Turner, C. & Rohm, H., 2019, I: Journal of the Science of Food and Agriculture. 99, 3, s. 1284-1293

Dynamic extraction coupled on-line to liquid chromatography with a parallel sampling interface—a proof of concept for monitoring extraction kinetics

Sun, M., Al-hamimi, S., Sandahl, M. & Turner, C., 2019, I: Analytical and Bioanalytical Chemistry. 411, 16, s. 3675-3683

Preparation and Analysis of Polar Hawthorn Berry Extracts, Industrial Application in Poultry Processing

Kubovics, M., Al-Hamimi, S., Huszár, G., Komka, K., Turner, C. & Székely, E., 2019, I: Periodica Polytechnica Chemical Engineering. 63, 2, s. 348-356 9 s., 1.

Signal enhancement in supercritical fluid chromatography-diode-array detection with multiple injection

Sun, M., Turner, C. & Sandahl, M., 2019, I: Journal of Separation Science. 42, 24, s. 3727-3737

Ultrahigh-pressure supercritical fluid extraction and chromatography of Moringa oleifera and Moringa peregrina seed lipids

Belo, Y. N., Al-Hamimi, S., Chimuka, L. & Turner, C., 2019, I: Analytical and Bioanalytical Chemistry. 411, 16, s. 3685-3693

University game – cheaters edition

Turner, C., 2019, 1 s.

Superamphiphobic coatings based on liquid-core microcapsules with engineered capsule walls and functionality

Nordenström, M., Riazanova, A. V., Järn, M., Paulraj, T., Turner, C., Ström, V., Olsson, R. T. & Svagan, A. J., 2018 dec. 1, I: Scientific Reports. 8, 1, 3647.

Dynamic pH determination at high pressure of aqueous additive mixtures in contact with dense CO₂

Andersson, M., Rodriguez-Meizoso, I., Turner, C., Hjort, K. & Klintberg, L., 2018 juni 1, I: Journal of Supercritical Fluids. 136, s. 95-101 7 s.

Screening of stationary phase selectivities for global lipid profiling by ultrahigh performance supercritical fluid chromatography

Al Hamimi, S., Sandahl, M., Armeni, M., Turner, C. & Spéjel, P., 2018 maj 4, I: Journal of Chromatography A. 1548, s. 76-82 7 s.

Black pepper-based beverage induced appetite-suppressing effects without altering postprandial glycaemia, gut and thyroid hormones or gastrointestinal well-being: A randomized crossover study in healthy subjects

Zanzer, Y. C., Plaza, M., Dougkas, A., Turner, C. & Östman, E., 2018 maj 1, I: Food and Function. 9, 5, s. 2774-2786 13 s.

Probiotic fruit beverages with different polyphenol profiles attenuated early insulin response

Xu, J., Jönsson, T., Plaza, M., Håkansson, Å., Antonsson, M., Ahrén, I. L., Turner, C., Spéjel, P. & Granfeldt, Y., 2018 feb. 27, I: Nutrition Journal. 17, 1, 34.

Structure dependent antioxidant capacity of phlorotannins from Icelandic Fucus vesiculosus by UHPLC-DAD-ECD-QTOFMS

Hermund, D. B., Plaza, M., Turner, C., Jónsdóttir, R., Kristinsson, H. G., Jacobsen, C. & Nielsen, K. F., 2018 feb. 1, I: Food Chemistry. 240, s. 904-909 6 s.

Analytical chemistry for a sustainable society – trends and implications

Bergquist, J. & Turner, C., 2018, I: Analytical and Bioanalytical Chemistry. 410, 14, s. 3235-3237

Characterization of carotenoids in *Rhodothermus marinus*

Ron, E., Plaza, M., Kristjansdottir, T., Sardari, R., Bjornsdottir, S., Gudmundsson, S., Hreggvidsson, G. O., Turner, C., van Niel, E. & Nordberg Karlsson, E., 2018, I: *MicrobiologyOpen*. 7, 1, e00536.

Comprehensive on-line two-dimensional liquid chromatography × supercritical fluid chromatography with trapping column-assisted modulation for depolymerised lignin analysis

Sun, M., Sandahl, M. & Turner, C., 2018, I: *Journal of Chromatography A*. 1541, s. 21-30

Continuous multicomponent quantification during supercritical fluid extraction applied to microalgae using in-line UV/Vis absorption spectroscopy and on-line evaporative light scattering detection

Abrahamsson, V., Jumaah, F. & Turner, C., 2018, I: *Journal of Supercritical Fluids*. 131, s. 157-165 9 s.

Identification of lignin oligomers in Kraft lignin using ultra-high-performance liquid chromatography/high-resolution multiple-stage tandem mass spectrometry (UHPLC/HRMSⁿ)

Prothmann, J., Spégel, P., Sandahl, M. & Turner, C., 2018, I: *Analytical and Bioanalytical Chemistry*. 410, 29, s. 7803-7814 12 s.

Multicomponent inverse modeling of supercritical fluid extraction of carotenoids, chlorophyll A, ergosterol and lipids from microalgae

Abrahamsson, V., Cunico, L. P., Andersson, N., Nilsson, B. & Turner, C., 2018, I: *Journal of Supercritical Fluids*. 139, s. 53-61

Oxidative Depolymerisation of Lignosulphonate Lignin into Low-Molecular-Weight Products: A Catalyst Screening Study

Abdelaziz, O., Meier, S., Turner, C., Riisager, A. & Hultberg, C., 2018.

Ultra-high-performance supercritical fluid chromatography with quadrupole-time-of-flight mass spectrometry (UHPSFC/QTOF-MS) for analysis of lignin-derived monomeric compounds in processed lignin samples

Prothmann, J., Sun, M., Spégel, P., Sandahl, M. & Turner, C., 2017 dec., I: *Analytical and Bioanalytical Chemistry*. 409, 30, s. 7049-7061

Density Measurements of CO₂-Expanded Liquids

Cunico, L. P. & Turner, C., 2017 okt. 12, I: *Journal of Chemical and Engineering Data*. 62, 10, s. 3525-3533 9 s.

Rapid and Green Separation of Mono- and Diesters of Monochloropropanediols by Ultrahigh Performance Supercritical Fluid Chromatography-Mass Spectrometry Using Neat Carbon Dioxide as a Mobile Phase

Jumaah, F., Jeldrkievicz, R., Gromadzka, J., Namieśnik, J., Essén, S., Turner, C. & Sandahl, M., 2017 sep. 20, I: *Journal of Agricultural and Food Chemistry*. 65, 37, s. 8220-8228 9 s.

Polyphenol-rich spice-based beverages modulated postprandial early glycaemia, appetite and PYY after breakfast challenge in healthy subjects: A randomized, single blind, crossover study

Cindya Zanser, Y., Plaza, M., Dougkas, A., Turner, C., Björck, I. & Östman, E., 2017 aug. 1, I: *Journal of Functional Foods*. 35, s. 574-583 10 s.

Green and Efficient Extraction Method to Determine Polyphenols in Cocoa and Cocoa Products

Plaza, M., Oliveira, D., Nilsson, A. & Turner, C., 2017 aug., I: *Food Analytical Methods*. 10, 8, s. 2677-2691

Green solvents: A solution of air pollution and climatic changes

Turner, C. & Wang, J., 2017 juni 1, I: *Current Opinion in Green and Sustainable Chemistry*. 5, s. ii-iii

Alterations in the plasma metabolite profile associated with improved hepatic function and glycemia in mice fed lingonberry supplemented high-fat diets

Alhamimi, S., HEYMAN, L., Plaza, M., Turner, C., Berger, K. & Spégel, P., 2017 mars 1, I: *Molecular Nutrition and Food Research*. 61, 3, 1600442.

Experimental measurements and modeling of curcumin solubility in CO₂-expanded ethanol
Cunico, L. P., Acosta, M. C. & Turner, C., 2017, I: Journal of Supercritical Fluids. s. 381-388

Green Solvents Screening for the Fractionation of LignoBoost Lignin
Abdelaziz, O., Prothmann, J., Turner, C. & Hulteberg, C., 2017.

Pressurized Hot Water Extraction of Bioactives
Plaza, M. & Turner, C., 2017, I: Comprehensive Analytical Chemistry. 76, s. 53-82

Characterization of antioxidant polyphenols from Myrciaria jaboticaba peel and their effects on glucose metabolism and antioxidant status: A pilot clinical study
Plaza, M., Batista, Â. G., Cazarin, C. B. B., Sandahl, M., Turner, C., Östman, E. & Maróstica Júnior, M. R., 2016 nov. 15, I: Food Chemistry. 211, s. 185-197 13 s.

Biological valorization of low molecular weight lignin
Abdelaziz, O. Y., Brink, D. P., Prothmann, J., Ravi, K., Sun, M., Garcia Hidalgo, J., Sandahl, M., Hulteberg, C. P., Turner, C., Lidén, G. & Gorwa-Grauslund, M. F., 2016 okt. 6, I: Biotechnology Advances. 34, 8, s. 1318–1346 29 s.

Ultra-high performance supercritical fluid chromatography of lignin-derived phenols from alkaline cupric oxide oxidation
Sun, M., Lidén, G., Sandahl, M. & Turner, C., 2016 aug. 1, I: Journal of Separation Science. 39, 16, s. 3123-3129 7 s.

A fast and sensitive method for the separation of carotenoids using ultra-high performance supercritical fluid chromatography-mass spectrometry
Jumaah, F., Plaza, M., Abrahamsson, V., Turner, C. & Sandahl, M., 2016 aug., I: Analytical and Bioanalytical Chemistry. 408, 21, s. 5883–5894 12 s.

Berry pomace - A review of processing and chemical analysis of its polyphenols
Struck, S., Plaza, M., Turner, C. & Rohm, H., 2016 juni 1, I: International Journal of Food Science and Technology. 51, 6, s. 1305-1318 14 s.

Carbon Dioxide Expanded Ethanol Extraction: Solubility and Extraction Kinetics of α -Pinene and cis-Verbenol
Alhamimi, S., Abellan Mayoral, A., Cunico, L. & Turner, C., 2016 maj 3, I: Analytical Chemistry. 88, 8, s. 4336-4345

Method development in inverse modeling applied to supercritical fluid extraction of lipids
Abrahamsson, V., Andersson, N., Nilsson, B. & Turner, C., 2016 maj 1, I: Journal of Supercritical Fluids. 111, s. 14-27 14 s.

Lingonberries alter the gut microbiota and prevent low-grade inflammation in high-fat diet fed mice
Heyman Lindén, L., Kotowska, D., Sand, E., Mikael, B., Plaza, M., Turner, C., Holm, C., Fåk, F. & Berger, K., 2016 apr. 27, I: Food & Nutrition Research. 60, 29993.

A rapid method for the separation of vitamin D and its metabolites by ultra-high performance supercritical fluid chromatography-mass spectrometry.
Jumaah, F., Larsson, S., Essén, S., Cunico, L., Holm, C., Turner, C. & Sandahl, M., 2016, I: Journal of chromatography. A. 1440, s. 191-200 10 s.

Pressurized liquid extraction and liquid chromatography-mass spectrometry analysis of phenolic oligomers from lignin samples
Prothmann, J., Abdelaziz, O., Hulteberg, C., Sandahl, M. & Turner, C., 2016.

From supercritical carbon dioxide to gas expanded liquids in extraction and chromatography of lipids
Turner, C., 2015 dec. 1, I: Lipid Technology. 27, 12, s. 275-277 3 s.

Adding Value to Fruit Processing Waste: Innovative Ways to Incorporate Fibers from Berry Pomace in Baked and Extruded Cereal-based Foods-A SUSFOOD Project

Rohm, H., Brennan, C., Turner, C., Guenther, E., Campbell, G., Hernando, I., Struck, S. & Kontogiorgos, V., 2015, I: Foods. 4, 4, s. 690-697

Development of a Semicontinuous Spray Process for the Production of Superhydrophobic Coatings from Supercritical Carbon Dioxide Solutions

Olin, P., Hyll, C., Ovaskainen, L., Ruda, M., Schmidt, O., Turner, C. & Wagberg, L., 2015, I: Industrial & Engineering Chemistry Research. 54, 3, s. 1059-1067

Fast determination of intact glucosinolates in broccoli leaf by pressurized liquid extraction and ultra high performance liquid chromatography coupled to quadrupole time-of-flight mass spectrometry

Ares, A. M., Bernal, J., Nozal, M. J., Turner, C. & Plaza, M., 2015, I: Food Research International. 76, s. 498-505

High catechins/low caffeine powder from green tea leaves by pressurized liquid extraction and supercritical antisolvent precipitation

Villanueva Bermejo, D., Ibanez, E., Reglero, G., Turner, C., Fornari, T. & Rodriguez Meizoso, I., 2015, I: Separation and Purification Technology. 148, s. 49-56

Pressurized hot water extraction of bioactives

Plaza, M. & Turner, C., 2015, I: Trac. Trends in Analytical Chemistry. 71, s. 39-54

Supercritical Fluid Extraction and Chromatography of Lipids in Bilberry.

Jumaah, F., Sandahl, M. & Turner, C., 2015, I: Journal of the American Oil Chemists Society. 92, 8, s. 1103-1111

Supercritical fluid extraction of lipids from linseed with on-line evaporative light scattering detection.

Abrahamsson, V., Rodriguez Meizoso, I. & Turner, C., 2015, I: Analytica Chimica Acta. 853, s. 320-327

Evaluation of Oxidation Stability of Refined Mineral Oil Enriched with Carotenoids from Carrot Using Supercritical Carbon Dioxide Extraction

Mustafa, A., Verendel, J. J., Turner, C. & Wiklund, P., 2014, I: Industrial & Engineering Chemistry Research. 53, 49, s. 19028-19033

Forskarkollega och Aspergare, på gott och ont

Turner, C., 2014, 2 s.

Pressurised hot water extraction in continuous flow mode for thermolabile compounds: extraction of polyphenols in red onions.

Liu, J., Sandahl, M., Sjöberg, P. J. R. & Turner, C., 2014, I: Analytical and Bioanalytical Chemistry. 406, 2, s. 441-445

Substituent Effects on in Vitro Antioxidizing Properties, Stability, and Solubility in Flavonoids

Plaza, M., Pozzo, T., Liu, J., Gulshan Kazi, Z., Turner, C. & Nordberg Karlsson, E., 2014, I: Journal of Agricultural and Food Chemistry. 62, 15, s. 3321-3333

Superhydrophobic polymeric coatings produced by rapid expansion of supercritical solutions combined with electrostatic deposition (RESS-ED)

Ovaskainen, L., Chigome, S., Birkin, N. A., Howdle, S. M., Torto, N., Wagberg, L. & Turner, C., 2014, I: Journal of Supercritical Fluids. 95, s. 610-617

An on-line method for pressurized hot water extraction and enzymatic hydrolysis of quercetin glucosides from onions.

Lindahl, S., Liu, J., Khan, S., Nordberg Karlsson, E. & Turner, C., 2013, I: Analytica Chimica Acta. 785, s. 50-59

A Novel Molecularly Imprinted Polymer for the Selective Removal of Chlorophyll from Heavily Pigmented Green Plant Extracts prior to Instrumental Analysis

Batlokwa, B. S., Mokgadi, J., Majors, R., Turner, C. & Torto, N., 2013, I: Journal of Chemistry. 540240.

Anti-browsing effects of birch bark extract on fallow deer

Bergvall, U. A., Co, M., Bergstrom, R., Sjoberg, P. J. R., Waldeback, M. & Turner, C., 2013, I: European Journal of Forest Research. 132, 5-6, s. 717-725

Bioresource utilisation by sustainable technologies in new value-added biorefinery concepts - two case studies from food and forest industry

Ekman, A., Campos, M., Lindahl, S., Co, M., Börjesson, P., Nordberg Karlsson, E. & Turner, C., 2013, I: Journal of Cleaner Production. 57, s. 46-58

Disputation vid universitetet – en teater i fyra akter

Turner, C., 2013, 2 s.

Extraction and Neoformation of Antioxidant Compounds by Pressurized Hot Water Extraction from Apple Byproducts

Plaza, M., Abrahamsson, V. & Turner, C., 2013, I: Journal of Agricultural and Food Chemistry. 61, 23, s. 5500-5510

Molecular imprinted polymer for solid-phase extraction of flavonol aglycones from Moringa oleifera extracts

Pakade, V., Cukrowska, E., Lindahl, S., Turner, C. & Chimuka, L., 2013, I: Journal of Separation Science. 36, 3, s. 548-555

Professorsinstallation i Lund

Turner, C., 2013, 2 s.

Publication ethics on paper and in reality

Turner, C., 2013, 2 s.

Sustainable analytical chemistry-more than just being green

Turner, C., 2013, I: Pure and Applied Chemistry. 85, 12, s. 2217-2229

Towards superhydrophobic coatings made by non-fluorinated polymers sprayed from a supercritical solution

Ovaskainen, L., Rodriguez Meizoso, I., Birkin, N. A., Howdle, S. M., Gedde, U., Wagberg, L. & Turner, C., 2013, I: Journal of Supercritical Fluids. 77, s. 134-141

Sustainable resource technology (SURETECH)

Karlsson, E. N. & Turner, C., 2012 jan. 1, s. 323-324. 2 s.

Degradation effects in the extraction of antioxidants from birch bark using water at elevated temperature and pressure

Co, M., Zettersten, C., Nyholm, L., Sjoberg, P. J. R. & Turner, C., 2012, I: Analytica Chimica Acta. 716, s. 40-48

Determination of carotenoids in microalgae using supercritical fluid extraction and chromatography.

Abrahamsson, V., Rodriguez Meizoso, I. & Turner, C., 2012, I: Journal of chromatography. A. 1250, s. 63-68

Extraction of Antioxidants from Spruce (Picea abies) Bark using Eco-friendly Solvents

Co, M., Fagerlund, A., Engman, L., Sunnerheim, K., Sjoberg, P. J. R. & Turner, C., 2012, I: Phytochemical Analysis. 23, 1, s. 1-11

Immobilization of thermostable beta-glucosidase variants on acrylic supports for biocatalytic processes in hot water

Khan, S., Lindahl, S., Turner, C. & Nordberg Karlsson, E., 2012, I: Journal of Molecular Catalysis B: Enzymatic. 80, s. 28-38

In situ Raman spectroscopy for the evaluation of solubility in supercritical carbon dioxide mixtures

Rodriguez Meizoso, I., Lazor, P. & Turner, C., 2012, I: Journal of Supercritical Fluids. 65, s. 87-92

Investigation of different particle sizes on superhydrophobic surfaces made by rapid expansion of supercritical solution with in situ laser diffraction (RESS-LD)

Werner, O. & Turner, C., 2012, I: Journal of Supercritical Fluids. 67, s. 53-59

Life cycle assessment of green pilot-scale extraction processes to obtain potent antioxidants from rosemary leaves

Rodriguez Meizoso, I., Castro-Puyana, M., Börjesson, P., Mendiola, J. A., Turner, C. & Ibanez, E., 2012, I: Journal of Supercritical Fluids. 72, s. 205-212

Molecularly imprinted polymers targeting quercetin in high-temperature aqueous solutions

Pakade, V., Lindahl, S., Chimuka, L. & Turner, C., 2012, I: Journal of Chromatography A. 1230, s. 15-23

Phase-behavior of alkyl ketene dimmer (AKD) in supercritical carbon dioxide. The implications of using different solubility measurement methods

Rodriguez Meizoso, I., Werner, O., Quan, C., Knez, Z. & Turner, C., 2012, I: Journal of Supercritical Fluids. 61, s. 25-33

Pressurised hot water extraction with on-line particle formation by supercritical fluid technology

Andersson, J. M., Lindahl, S., Turner, C. & Rodriguez Meizoso, I., 2012, I: Food Chemistry. 134, 4, s. 1724-1731

Pressurized hot ethanol extraction of carotenoids from carrot by-products.

Mustafa, A., Trevino, L. M. & Turner, C., 2012, I: Molecules. 17, 2, s. 1809-1818

Aglycone specificity of Thermotoga neapolitana beta-glucosidase 1A modified by mutagenesis, leading to increased catalytic efficiency in quercetin-3-glucoside hydrolysis

Khan, S., Pozzo, T., Megyeri, M., Lindahl, S., Sundin, A., Turner, C. & Nordberg Karlsson, E., 2011, I: BMC Biochemistry. 12

Electrospun Nanofibers Sorbents for Pre-Concentration of 1,1-dichloro-2,2 bis-(4-chlorophenyl)ethylene with Subsequent Desorption by Pressurized Hot Water Extraction

Adeyemi, D., Mokgadi, J., Darkwa, J., Anyakora, C., Ukpo, G., Turner, C. & Torto, N., 2011, I: Chromatographia. 73, 9-10, s. 1015-1020

Pressurized liquid extraction as a green approach in food and herbal plants extraction: A review.

Mustafa, A. & Turner, C., 2011, I: Analytica Chimica Acta. 703, 1, s. 8-18

Pressurized Hot Water Extraction of anthocyanins from red onion: A study on extraction and degradation rates

Petersson, E. V., Liu, J., Sjöberg, P. J. R., Danielsson, R. & Turner, C., 2010, I: Analytica Chimica Acta. 663, 1, s. 27-32

Lipase-catalyzed reactions in organic and supercritical solvents: Application to fat-soluble vitamin determination in milk powder and infant formula

Turner, C., Persson, M., Mathiasson, L., Adlercreutz, P. & King, J. W., 2001 aug. 7, I: Enzyme and Microbial Technology. 29, 2-3, s. 111-121 11 s.

Determination of Fat-Soluble Vitamins in Foods Based on Supercritical Fluid Extraction

Turner, C., 2000, Charlotta Turner and the Department of Analytical Chemistry, Lund University. 184 s.

Priser och utmärkelser

The Svante Arrhenius Award

Turner, C. (Mottagare), 2017

The Herbert Dutton Award

Turner, C. (Mottagare), 2015

Ingvar Carlsson Award

Turner, C. (Mottagare), 2006

Stiftelsen Konung Carl XVI Gustafs 50-årsfond för vetenskap, teknik och miljö

Turner, C. (Mottagare), 2005 mars 15

Forskningsmedel

Miljövänlig superkritisk process för växtoljor

Turner, C. (PI)

Stiftelsen för Strategisk Forskning, SSF: 2 500 000,00 kr

2024/01/01 → 2027/12/31

Projekt

Addressing the challenges of lignin oligomer analysis by liquid-based separation techniques

Papp, D. (Forskarstuderande), Turner, C. (Handledare), Sandahl, M. (Biträdande handledare) & Nylander, T. (Biträdande handledare)

2019/08/19 → ...

Advancing selectivity in extraction and analysis of bioactive compounds in seaweed and plant-based foods

Gondo, T. F. (Forskare), Turner, C. (Forskare), Sandahl, M. (Forskare) & Nordberg Karlsson, E. (Forskare)

Högupplösande separations- och detektionsmetoder för lignin.

Turner, C. (PI)

Swedish Research Council

CO2 Fluidised Deep Eutectic Systems for Materials Processing

Edler, K. (Forskare), Turner, C. (Forskare) & Kroon, M. (Forskare)

2023/08/21 → 2028/01/03

Miljövänlig superkritisk process för växtoljor

Turner, C. (PI)

Stiftelsen för Strategisk Forskning, SSF

2024/01/01 → 2027/12/31

iENT: Neuroenvironmental toxicity: a new synergistic approach to quantify acute and chronic sublethal effects of commonly-used pesticides on insects

Rigosi, E. (PI), Turner, C. (Col), Rundlöf, M. (Col), Herbertsson, L. (Col), O'carroll, D. (Col), Stensmyr, M. (Col), Spéjel, P. (Col), Palmer, S. (Forskarstuderande), Miegel, E. (Forskarstuderande), Rönnau, S. (Forskarstuderande), Davila, N. (Forskarstuderande) & Fathi, M. (Forskningsassistent)

2022/01/01 → 2027/12/31

ChemFreeGarden: Minskad användning av kemikalier i urbana privata trädgårdar för ökad biodiversitet, bättre hälsa och ekosystemtjänster

Hansson, M. (Forskare), Molbert, N. (Forskare), Turner, C. (Forskare), Spéjel, P. (Forskare), Molins Delgado, D. (Forskningsassistent), Öckinger, E. (Forskare), van Praagh, M. (Forskare) & Alkan Olsson, J. (Forskare)

2020/01/01 → 2026/12/31

Kvantitativa fingeravtryck av kemiska föroreningar hos pollinerande insekter – Grön enad kromatografi och avancerade detektionstekniker med stöd av maskininlärning

Turner, C. (PI), Hansson, M. (Forskare), Rigosi, E. (Forskare), Rundlöf, M. (Forskare), Sandahl, M. (Forskare) & Spéjel, P. (Forskare)

FORMAS, Forskningsrådet för miljö, areella näringar och samhällsbyggande

2023/01/01 → 2025/12/31

Deep Eutectic Solvent/CO2 Mixtures for Lignin Processing

Edlér, K. (Forskare), Turner, C. (Forskare) & Sarkar, S. (Forskare)
2023/08/21 → 2025/08/20

L2BA - Lignin to BioAromatics

Turner, C. (PI)
Research Council of Norway
2021/03/25 → 2024/09/30

Savouring the sea: Production and consumption of future seaweed foods

Jönsson, M. (Forskare), Turner, C. (Biträdande handledare), Nordberg Karlsson, E. (Handledare) & Rayner, M. (Biträdande handledare)
2019/08/01 → 2024/04/19

Marina matresurser på nya marknader

Fredriksson, C. (PI), Säwe, F. (Forskare), Turner, C. (Forskare), Nordberg Karlsson, E. (Forskare), Jönsson, M. (Forskarstuderande), Merkel, A. (Forskarstuderande) & Gondo, T. F. (Forskarstuderande)
FORMAS, Forskningsrådet för miljö, areella näringar och samhällsbyggande
2018/12/01 → 2022/11/30

Application of subcritical and supercritical fluids in coal extraction and analysis

Nermark, F. (Forskare), Turner, C. (Handledare), Wendt, O. (Biträdande handledare) & Mapolelo, M. (Biträdande handledare)
2016/09/01 → 2022/11/04

High value chemicals from lignin using biological processes

Gorwa-Grauslund, M.-F. (PI), Lidén, G. (Col), Turner, C. (Col) & Hultberg, C. (Forskare)
2015/01/01 → 2020/12/31

STEPS: Sustainable Plastics and Transition Pathways

Generosi, J. (Projektkoordinator), Hatti-Kaul, R. (PI), Pyo, S. H. (Forskare), Zhang, B. (PI), Turner, C. (Forskare), Rodriguez Meizoso, I. (Forskare), Wallberg, O. (Forskare), Hultberg, C. (Col), Diegel, O. (Forskare), Ristinmaa, M. (Forskare), Nilsson, L. J. (PI), Palm, E. (Forskarstuderande), Ericsson, K. (Forskare), Hansen, T. (Col), Klintman, M. (Forskare), Stripple, J. (Forskare), Bauer, F. (Forskare), Madsen, S. (PI), Jannasch, P. (Forskare), Egan, N. (Projektkommunikatör), Nielsen, T. (Forskare), Holmberg, K. (Forskningsassistent), Svantesson, A. (Forskningsassistent), Hall, S. (Forskare), Mahmoud, S. (Forskare), Englund Örn, O. (Forskarstuderande), Mankar, S. (Forskarstuderande), Warlin, N. (Forskarstuderande), Valsange, N. (Forskarstuderande), Sanku, M. (Forskarstuderande), Hasselbalch, J. (Forskare), Sjölin, M. (Forskarstuderande), Hansen, T. (Forskare), Chen, L. (Forskarstuderande), Nordin, A. (Forskare), Engqvist, J. (Forskarstuderande), Garcia Gonzalez, N. (Forskare), Newson, W. R. (Forskare), Johansson, E. (Forskare), Kuktaite, R. (Forskare), Muneer, F. (Forskare), Nilsson, E. (Forskare), Guo, Z. (Forskare), Ahlqvist, J. (Administratör) & Peric, S. (Administratör)
MISTRA, Swedish foundation for strategic environmental research
2016/09/01 → 2020/08/31

Gröna lösningsmedel för selektiv extraktion och tvådimensionell kromatografi av organiska föreningar i komplexa prover

Turner, C. (Forskare)
2017/01/01 → 2019/12/31

AFC: ANTIDIABETIC FOOD CENTRE

Adlercreutz, P. (PI), Ahrén, I. L. (PI), Ahrné, S. (Forskare), Alhamimi, S. (Forskarstuderande), Andersson, K. E. (Forskare), Andersson, K. E. (Forskarstuderande), Månberger, A. (Forskare), Axling, U. (Forskare), Axling, U. (Forskarstuderande), Bergenståhl, B. (Forskare), Berger, K. (PI), Björck, I. (PI), Bränning, C. (Forskarstuderande), Bäckhed, F. (PI), Zanzer, Y. C. (Forskarstuderande), Danielsson, A. (PI), Danielsson, B. (Forskningsassistent), Degerman, E. (PI), Dejmek, P. (Forskare), Dey, E. (PI), Dougkas, A. (Forskare), Ekström, L. (Forskarstuderande), Eliasson, A.-C. (PI), Fahlgren, C. (Forskningsingenjör), Falck, P. (PI), Falck, P. (Forskarstuderande), Ghaffarzadegan, T. (Forskarstuderande), Granfeldt, Y. (Forskare), Grey, C. (Forskare), Gunnerud, U. (Forskarstuderande), Håkansson, Å. (Forskare), Håkansson, Å. (Forskarstuderande), Hållenius, F. (Forskare), Hållenius, F. (PI), Haskå, L. (PI), Haskå, L. (Forskarstuderande), Heimann, E. (Forskarstuderande), Hellstrand, P. (Forskare), Heyman, L. (Forskarstuderande), Holm Wallenberg, C. (PI), Holmén-

Pålbrink, A.-K. (Forskningsassistent), Holst, O. (Forskare), Immerstrand, T. (Forskarstuderande), Immerzeel, P. (Forskare), Jakobsdottir, G. (Forskarstuderande), Jeppsson, B. (Forskare), Johansson, E. (Forskarstuderande), Johansson, M. (Projektkoordinator), Johansson, M. (Forskare), Johansson, M. (Forskningsassistent), Johansson, U. (Forskare), Jones, H. (Forskare), Nordberg Karlsson, E. (Forskare), Kovatcheva-Datchary, P. (Forskare), Kulcinskaja, E. (Forskarstuderande), Landin-Olsson, M. (Forskare), Linninge, C. (Forskare), Marefati, A. (Forskarstuderande), Marungruang, N. (Forskarstuderande), Molin, G. (PI), Nilsson, A. (PI), Nilsson, E. (Forskningsingenjör), Nilsson, U. (PI), Nyman, M. (PI), Ohlson, E. (Forskningsassistent), Olsson, C. (Forskare), Öste, R. (PI), Östman, E. (PI), Persson, L. (Forskningsingenjör), Persson, S. (Forskare), Plaza, M. (Forskare), Prykhodko, O. (Forskare), Radeborg, K. (Forskare), Rayner, M. (PI), Rosén, L. (Forskarstuderande), Sandahl, M. (Forskare), Sandberg, J. (Forskarstuderande), Sjöo, M. (PI), Skog, K. (Forskare), Spégel, P. (PI), Stålbrand, H. (Forskare), Sterner, O. (PI), Svensson, J. (Forskarstuderande), Tareke, E. (PI), Tovar, J. (PI), Turner, C. (PI), Weström, B. (Forskare), Xu, J. (Forskarstuderande) & Zhong, Y. (Forskarstuderande)
2007/07/01 → 2018/01/31

Food components for prevention and treatment of obesity and type 2 diabetes - Physiological effects and molecular mechanisms

Berger, K. (PI), Axling, U. (Forskare), Hällenius, F. (PI), Turner, C. (PI), Spégel, P. (PI), Alhamimi, S. (Forskarstuderande), Adlercreutz, P. (PI), Heyman, L. (Forskare) & Holm Wallenberg, C. (PI)
2010/01/01 → 2017/12/31