

## INDEX OF VOLUME 31

**Reviews**

- BERNARDOS A., KOUŘIMSKÁ L.: Applications of mesoporous silica materials in food – a review ..... 99
- MAJEED H., JAMSHAIQ QAZI H., SAFDAR W., FANG Z.: Microencapsulation can be a novel tool in wheat flour with micronutrients fortification: current trends and future applications – a review ..... 527
- SZŰCS V., SZABÓ E., BÁNÁTI D.: Short overview of food consumption databases ..... 541

**Original Scientific Papers**

- ARENA E., BALLISTRERI G., FALLICO B.: Effect of postharvest storage temperatures on the quality parameters of pistachio nuts ..... 467
- BAJČAN D., TOMÁŠ J., UHLÍŘOVÁ G., ÁRVAY J., TREBICHALSKÝ P., STANOVIČ R., ŠIMANSKÝ V.: Antioxidant potential of spinach, peas, and sweet corn in relation to freezing period ..... 613
- BOZ H., KARAOĞLU M.M.: Improving the quality of whole wheat bread by using various plant origin materials ..... 457
- CEJNAR R., MESTEK O., DOSTÁLEK P.: Determination of silicon in Czech beer and its balance during the brewing process ..... 162
- ČELEN S., KAHVECI K.: Microwave drying behaviour of tomato slices ..... 132
- CHENG A., CHEN X., JIN Q., WANG W., SHI J., LIU Y.: Comparison of phenolic content and antioxidant capacity of red and yellow onions ..... 501
- CHENG A., CHEN X., WANG W., GONG Z., LIU L.: Contents of extractable and non-extractable polyphenols in the leaves of blueberry ..... 275
- ČÍŽKOVÁ H., RAJCHL A., ŠNEBERGROVÁ J., VOLDŘÍCH M.: Filbertone as a marker for the assessment of hazelnut spread quality ..... 81
- CODINĂ G.G., MIRONEASA S., VOICA D.V., MIRONEASA C.: Multivariate analysis of wheat flour dough sugars, gas production, and dough development at different fermentation times ..... 222
- CUDEMOS E., IZQUIER A., MEDINA-MARTÍNEZ M.S., GÓMEZ-LÓPEZ V.M.: Effects of shading and growth phase on the microbial inactivation by pulsed light ..... 189
- DOĞAN S., AYYILDIZ Y., DOĞAN M., ALAN Ü., DIKEN M.E.: Characterisation of polyphenol oxidase from *Melissa officinalis* L. subsp. *officinalis* (lemon balm) ..... 156
- DOMAGAŁA J., PLUTA-KUBICA A., PUSTKOWIAK H.: Changes in conjugated linoleic acid content in Emmental-type cheese during manufacturing ..... 432
- DONNO D., BECCARO G.L., MELLANO M.G., DI PRIMA S., CAVICCHIOLI M., CERUTTI A.K., BOUNOUS G.: Setting a protocol for hazelnut roasting using sensory and colorimetric analysis: Influence of the roasting temperature on the hazelnut quality Tonda Gentile delle Langhe cv. .... 390
- DUŠKOVÁ M., KARPÍŠKOVÁ R.: Antimicrobial resistance of lactobacilli isolated from food ..... 27
- ENGMANN N.F., MA Y.-K., YING X., QING Y.: Investigating the effect of high hydrostatic pressure processing on anthocyanins composition of mulberry (*Morus moraceae*) juice ..... 72
- FENG J., ZHAN X.-B., ZHENG Z.-Y., WANG D., ZHANG L.-M., LIN C.-C.: New model for flavour quality evaluation of soy sauce ..... 292
- GARBOWSKA B., RADZYMIŃSKA M., JAKUBOWSKA D.: Influence of the origin on selected determinants of the quality of pork meat products ..... 547
- GIUFFRÈ A.M., LOUADJ L.: Influence of crop season and cultivar on sterol composition of monovarietal olive oils in Reggio Calabria (Italy) ..... 256

GODÁLOVÁ Z., BERGEROVÁ E., SIEKEL P.: Effect of high temperature and pressure on quantification of MON 810 maize .....	376
GRÉGROVÁ A., ČÍŽKOVÁ H., BULANTOVÁ I., RAJCHL A., VOLDŘICH <sup>†</sup> M.: Characteristics of garlic of the Czech origin .....	581
GUARDEÑO L.M., QUILES A., LLORCA E., PERTUSA J., HERNANDO I.: Effect of microwave thawing on microstructure and physicochemical stability of low fat white sauces made with soy protein .....	568
GUARDEÑO L.M., VÁZQUEZ-GUTIÉRREZ J.L., HERNANDO I., QUILES A.: Effect of different rice starches, inulin, and soy protein on microstructural, physical, and sensory properties of low-fat, gluten and lactose free white sauces .....	575
HOLUBOVÁ B., GÖSELOVÁ S., ŠEVČÍKOVÁ L., VLACH M., BLAŽKOVÁ M., LAPČÍK, FUKAL L.: Rapid immunoassays for detection of anabolic nortestosterone in dietary supplements .....	514
HUANG Y.-F., PENG L.-X., LIU Y., ZHANG Z.-F., LV L.-Y., ZHAO G.: Evaluation of essential and toxic elements concentrations in different parts of buckwheat .....	249
JOKIĆ S., SUDAR R., SVILOVIĆ S., VIDOVIĆ S., BILIĆ M., VELIĆ D., JURKOVIĆ V.: Fatty acid composition of oil obtained from soybeans by extraction with supercritical carbon dioxide .....	118
KAMENÍK J., STEINHAUSEROVÁ P., SALÁKOVÁ A., PAVLÍK Z., BOŘILOVÁ G., STEINHAUSER L., RUPRICH J.: Influence of various pork fat types on the ripening and characteristics of dry fermented sausage .....	419
KHEMARIYA P., SINGH S., NATH G., GULATI A.K.: Isolation, identification and antibiotic susceptibility of <i>nis</i> <sup>+</sup> <i>Lactococcus lactis</i> from dairy and non-dairy sources .....	323
KORDIALIK-BOGACKA E., DIOWKSZ A.: Physiological state of reused brewing yeast .....	264
KOWALSKI S., LUKASIEWICZ M., JUSZCZAK L., KUTYŁA-KUPIDURA E.M.: Dynamics of 5-hydroxymethylfurfural formation in shortbreads during thermal processing .....	33
KŠICOVÁ <sup>†</sup> K., DUŠKOVÁ M., KARPÍŠKOVÁ R.: Differentiation of <i>Lactobacillus</i> species by ARDRA .....	180
KUČEROVÁ J., ŠOTNÍKOVÁ V., NEDOMOVÁ Š.: Influence of dietary fibre addition on the rheological and sensory properties of dough and bakery products .....	340
KUČEROVÁ Z., KÝHOS K., AULICKÝ R., STEJSKAL V.: Low-pressure treatment to control food-infesting pests ( <i>Tribolium castaneum</i> , <i>Sitophilus granarius</i> ) using a vacuum packing machine .....	94
LAMPÍŘ L.: Varietal differentiation of white wines on the basis of phenolic compounds profile .....	172
LAMPÍŘ L., PAVLOUŠEK P.: Influence of locality on content of phenolic compounds in white wines .....	619
LEE J.-H., CHOI K.H., PARK S.R., SHIN S.A., KANG S.A., JANG K.-H.: Silicon content in beers from Korean market and estimation of its alimentary uptake .....	382
LISOVÁ I., HORÁČKOVÁ Š., KOVÁČOVÁ R., RADA V., PLOCKOVÁ M.: Emulsion encapsulation of <i>Bifidobacterium animalis</i> subsp. <i>lactis</i> Bb12 with the addition of lecithin .....	270
LJUBOJEVIĆ D., ČIRKOVIĆ M., ĐORĐEVIĆ V., PUVAČA N., TRBOVIĆ D., VUKADINOV J., PLAVŠA N.: Fat quality of marketable fresh water fish species in the Republic of Serbia .....	445
LYNG J.G., ZHANG L., MARRA F., BRUNTON N.P.: Effect of freezing rate and comminution on dielectric properties of pork .....	413
MAHAM M., KIAROSTAMI V., WAQIF-HUSAIN S., KARAMI-OSBOO R., MIRABOLFATHY M.: Analysis of ochratoxin A in malt beverage samples using dispersive liquid-liquid microextraction coupled with liquid chromatography-fluorescence detection .....	520
MANCHÓN N., MATEO-VIVARACHO L., D'ARRIGO M., GARCÍA-LAFUENTE A., GUILLAMÓN E., VILLARES A., ROSTAGNO M.A.: Distribution patterns of polyphenols and alkaloids in instant coffee, soft and energy drinks, and tea .....	483
MARINOVA E., GEORGIEV L., TOTSEVA I., SEIZOVA K., MILKOVA T.: Antioxidant activity and mechanism of action of some synthesised phenolic acid amides of aromatic amines .....	5
MIHULOVÁ M., VEJLUPKOVÁ M., HANUŠOVÁ J., ŠTĚTINA J., PANOVSÁKÁ Z.: Effect of modified whey proteins on texture and sensory quality of processed cheese .....	553

NADEEM M., ABDULLAH M., HUSSAIN I., INAYAT S., JAVID A., ZAHOR Y.: Antioxidant potential of <i>Moringa oleifera</i> leaf extract for the stabilisation of butter at refrigeration temperature .....	332
NAGEL O.G., MOLINA M.P., ALTHAUS R.L.: Use of chemometric techniques to design a microbiological method for sulfonamide detection in milk .....	627
NOGALES-DELGADO S., FERNÁNDEZ-LEÓN A.M., DELGADO-ADÁMEZ J., HERNÁNDEZ-MÉNDEZ M.T., BOHOYO-GIL D.: Effects of several sanitisers for improving quality attributes of minimally processed <i>Fragaria vesca</i> strawberry .....	49
OANCEA S., DRÁGHICI O.: pH and thermal stability of anthocyanin-based optimised extracts of Romanian red onion cultivars .....	283
ORPHANIDES A., GOULAS V., GEKAS V.: Effect of drying method on the phenolic content and antioxidant capacity of spearmint .....	509
ÖZCAN M.M., ROSA A., DESSI M.A. MARONGIU B., PIRAS A., AL JUHAIMI F.: Quality of wheat germ oil obtained by cold pressing and supercritical carbon dioxide extraction .....	236
PANKIEWICZ U., JAMROZ J.: Evaluation of physicochemical and sensory properties of ethanol blended with pear nectar .....	66
PAPETTI P., CARELLI A.: Composition and sensory analysis for quality evaluation of a typical Italian cheese: influence of ripening period .....	438
PAVLOUŠEK P., KUMŠTA M.: Authentication of Riesling wines from the Czech Republic on the basis of the non-flavonoid phenolic compounds .....	474
PROSHLYAKOV A., YANNIOTIS S., BLAHOVEC J.: Pistachio deterioration detected by X-ray absorption .....	126
REN S.-CH., QIAO W.-W., DING X.-L.: Antioxidative activity of five flavones glycosides from corn silk ( <i>Stigma maydis</i> ).....	148
RODRÍGUEZ-GARCÍA J., PUIG A., SALVADOR A., HERNANDO I.: Funcionalidad de varios ingredientes de pastel: un enfoque integral .....	355
ROHLÍK B.-A., PIPEK P., PÁNEK J.: Effect of natural antioxidants on the colour and lipid stability of paprika salami .....	307
ROZENSKÁ L., HEJTMÁNKOVÁ A., KOLIHOVÁ D., MIHOLOVÁ D.: Effects of lactation stage, breed, and lineage on selenium and iodine contents in goat milk .....	318
SAHA S., DHAR T.D., SENGUPTA C., GHOSH P.: Biological activities of essential oils and methanol extracts of five <i>Ocimum</i> species against pathogenic bacteria .....	194
ŠARIĆ G., MARKOVIĆ K., VUKIČEVIĆ D., LEŽ E., HRUŠKAR M., VAHČIĆ N.: Changes of antioxidant activity in honey after heat treatment .....	601
ŠINOMIOVÁ A., ROHLÍK B.A., ŠKORPILOVÁ T., PETROVÁ M., PIPEK P.: Differentiation between fresh and thawed chicken meats .....	108
SKIBNIEWSKA K.A., ZAKRZEWSKI J., KŁOBUKOWSKI J., BIAŁOWIĄS H., MICKOWSKA B., GUZIUR J., WALCZAK Z., SZAREK J.: Nutritional value of the protein of consumer carp <i>Cyprinus carpio</i> L. ....	313
SLAVOV A., KARAGYOZOV V., DENEV P., KRATCHANOVA M., KRATCHANOV C.: Antioxidant activity of red beet juices obtained after microwave and thermal pretreatments .....	139
SMÍTKOVÁ H., MAREK M., DOBIÁŠ J.: Starch tray with addition of different components foamed by baking process .....	230
SONG J.-F., LIU C.-Q., LI D.-J., MENG L.-L.: Effect of cooking methods on total phenolic and carotenoid amounts and DPPH radical scavenging activity of fresh and frozen sweet corn ( <i>Zea mays</i> ) kernels .....	607
STANGIERSKI J., REZLER R., BARANOWSKA H.M., POLISZKO S.: Effect of enzymatic modification on frozen chicken surimi .....	203
STAŇKOVÁ B., KREMMYDA L.S., TVRZICKÁ E., ŽÁK A.: Fatty acid composition of commercially available nutrition supplements .....	241

STASIAK M., MOLEND A., OPALIŃSKI I., BŁASZCZAK W.: Mechanical properties of native maize, wheat, and potato starches .....	347
SUMÍKOVÁ T., GABRIELOVÁ L., KUČERA L., ŽABKA M., CHRPOVÁ J.: Mycotoxin production, chemotypes and diversity of Czech <i>Fusarium graminearum</i> isolates on wheat .....	407
TAFATI A.G., PEIGHAMBARDUST S.H., BEHNAM F., BAHRAMI A., AGHAGHOLIZADEH R., GHAMARI M., RAFAT S.A.: Effects of spray-dried sourdough on flour characteristics and rheological properties of dough .....	361
TOMCZYŃSKA-MLEKO M.: Structure and stability of ion induced whey protein aerated gels .....	211
TOUŠOVÁ R., STÁDNÍK L., DUCHÁČEK J.: Effects of season and time of milking on spontaneous and induced lipolysis in bovine milk fat .....	20
ULBIN-FIGLEWICZ N., ZIMOCH A., JARMOLUK A.: Plant extracts as components of edible antimicrobial protective coatings .....	596
VÁCLAVÍK L., OVESNÁ J., KUČERA L., HODEK J., DEMNEROVÁ K., HAJŠLOVÁ J.: Application of ultra-high performance liquid chromatography-mass spectrometry (UHPLC-MS) metabolomic fingerprinting to characterise GM and conventional maize varieties .....	368
VÁCLAVÍKOVÁ E., KVASNIČKA F.: Isotachophoretic determination of glucosamine and chondroitin sulphate in dietary supplements .....	55
VALKAJ K., KALIT S., KALIT M.T., WENDORFF W.L.: Hygienic indicators and chemical composition of Prigica cheese produced from raw and pasteurised milks .....	217
VESELÁ H., ŠUCMAN E.: Determination of acrylamide in food using adsorption stripping voltammetry .....	401
VOLLMANNOVÁ A., MARGITANOVÁ E., TÓTH T., TIMORACKÁ M., URMINSKÁ D., BOJŇANSKÁ T., ČIČOVÁ I.: Cultivar influence on total polyphenol and rutin contents and total antioxidant capacity in buckwheat, amaranth, and quinoa seeds .....	589
WANG W., LI Z., LIU J.-Z., WANG Y.-J., LIU S.-H., SUN M.: Comparison between thermal hydrolysis and enzymatic proteolysis processes for the preparation of tilapia skin collagen hydrolysates .....	1
WANG W., ZHANG M., FANG J., ZHANG L., ZOU X., WANG X.: Improved detection of Ochratoxin A by marine bioluminescent bacteria <i>V. harveyi</i> BA .....	88
WENJIAO F., YONGKUI Z., PAN D., YUWEN Y.: Effects of chitosan coating containing antioxidant of bamboo leaves on qualitative properties and shelf life of silver carp during chilled storage .....	451
YURDAKUL N.E., ERGINKAYA Z., ÜNAL E.: Antibiotic resistance of enterococci, coagulase negative staphylococci and <i>Staphylococcus aureus</i> isolated from chicken meat .....	14
ZDJELAR G., NIKOLIĆ Z., VASILJEVIĆ I., BAJIĆ B., JOVIČIĆ D., IGŇJATOV M., MILOŠEVIĆ D.: Detection of genetically modified soya, maize, and rice in vegetarian and healthy food products in Serbia .....	43
ZHANG Y., ZHAO X.-H.: Properties of casein hydrolysate as affected by plastein reaction in ethanol-water medium .....	559
<b>Obituary Notice</b>	
Prof. Ing. MICHAL VOLDŘICH, CSc., Member of the Editorial Board of our journal, passed away .....	633

## AUTHORS INDEX

**A**

ABBAS RAFAT S. ... 361  
 ABDULLAH M. ... 332  
 AGHAGHOLIZADEH R. ... 361  
 ALAN Ů. ... 156  
 AL JUHAIMI F.Y.I. ... 236  
 ALTHAUS R.L. ... 627  
 ARENA E. ... 467  
 ÁRVAY J. ... 613  
 AULICKÝ R. ... 94  
 AYYILDIZ Y. ... 156

**B**

BAHRAMI A. ... 361  
 BAJČAN D. ... 613  
 BAJIĆ B. ... 43  
 BALLISTRERI G. ... 467  
 BÁNÁTI D. ... 541  
 BARANOWSKA H.M. ... 203  
 BECCARO G.L. ... 390  
 BEHNAM F. ... 361  
 BERGEROVÁ E. ... 376  
 BERNARDOS A. ... 99  
 BIAŁOWIĄS H. ... 313  
 BILIĆ M. ... 116  
 BLAHOVEC J. ... 126  
 BŁASZCZAK W. ... 347  
 BLAŽKOVÁ M. ... 514  
 BOHOYO GIL D. ... 49  
 BOJŇANSKÁ T. ... 589  
 BOŘILOVÁ G. ... 419  
 BOUNOUS G. ... 390  
 BOZ H. ... 457  
 BRUNTON N.P. ... 413  
 BULANTOVÁ I. ... 581

**C**

CARELLI A. ... 438  
 CAVICCHIOLI M. ... 390  
 CHENG A. ... 275, 501  
 CHEN X. ... 275, 501  
 CHOI K.H. ... 382  
 CHRPOVÁ J. ... 407  
 CEJNAR R. ... 166  
 ÇELEN S. ... 132  
 CERUTTI A.K. ... 390

ČIČOVÁ I. ... 589  
 CIRKOVIĆ M. ... 445  
 ČÍŽKOVÁ H. ... 81, 581  
 CODINĂ G.G. ... 222  
 CUDEMOS E. ... 189

**D**

D'ARRIGO M. ... 483  
 DELGADO-ADÁMEZ J. ... 49  
 DEMNEROVÁ K. ... 368  
 DENEV P. ... 139  
 DESSI M.A. ... 236  
 DHAR T.N. ... 194  
 DIKEN M.E. ... 156  
 DING X.L. ... 148  
 DIOWKSZ A. ... 264  
 DI PRIMA S. ... 390  
 DOBIÁŠ J. ... 230  
 DORDEVIĆ V. ... 445  
 DOĞAN M. ... 156  
 DOĞAN S. ... 156  
 DOMAGAŁA J. ... 432  
 DONNO D. ... 390  
 DOSTÁLEK P. ... 166  
 DRÁGHICI O. ... 283  
 DUCHÁČEK J. ... 20  
 DUŠKOVÁ M. ... 27, 180

**E**

ENGMANN N.F. ... 72  
 ERGINKAYA Z. ... 14

**F**

FALLICO B. ... 467  
 FANG J. ... 88  
 FANG Z. ... 527  
 FENG J. ... 292  
 FERNÁNDEZ-LEÓN A.M. ... 49  
 FUKAL L. ... 514

**G**

GABRIELOVÁ L. ... 407  
 GARBOWSKA B. ... 547  
 GARCÍA-LAFUENTE A. ... 483  
 GEKAS V. ... 509  
 GEORGIEV L. ... 5  
 GHAMARI M. ... 361

GHOSH P.D. ... 194  
 GIUFFRÈ A.M. ... 256  
 GODÁLOVÁ Z. ... 376  
 GOLSHAN TAFTI A. ... 361  
 GÓMEZ-LÓPEZ V.M. ... 189  
 GONG Z. ... 275  
 GÖSELOVÁ S. ... 514  
 GOULAS V. ... 509  
 GRÉGROVÁ A. ... 581  
 GUARDEÑO L.M. ... 568, 575  
 GUILLAMÓN E. ... 483  
 GULATI A.K. ... 323  
 GUZIUR J. ... 313

**H**

HAJŠLOVÁ J. ... 368  
 HANUŠOVÁ J. ... 553  
 HEJTMÁNKOVÁ A. ... 318  
 HERNÁNDEZ-MÉNDEZ M.T. ... 49  
 HERNANDO I. ... 355, 568, 575  
 HODEK J. ... 368  
 HOLUBOVÁ B. ... 514  
 HORÁČKOVÁ Š. ... 270  
 HRUŠKAR M. ... 601  
 HUANG Y. ... 249  
 HUSSAIN I. ... 332

**I**

IGNJATOV M. ... 43  
 INAYAT S. ... 332  
 IZQUIER A. ... 189

**J**

JAKUBOWSKA D. ... 547  
 JAMROZ J. ... 66  
 JAMSHAIQ QAZI H. ... 527  
 JANG K.-H. ... 382  
 JARMOLUK A. ... 596  
 JAVID A. ... 332  
 JIN Q. ... 501  
 JOKIĆ S. ... 116  
 JOVIČIĆ D. ... 43  
 JURKOVIĆ V. ... 116  
 JUSZCZAK L. ... 33

**K**

KAHVECI K. ... 132  
 KALIT M.T. ... 217  
 KALIT S. ... 217  
 KAMENÍK J. ... 419  
 KANG S.A. ... 382

KARAGYOZOV V. ... 139  
 KARAMI-OSBOO R. ... 520  
 KARAOĞLU M.M. ... 457  
 KARPÍŠKOVÁ R. ... 27, 180  
 KHEMARIYA P. ... 323  
 KIAROSTAMI V. ... 520  
 KŁOBUKOWSKI J. ... 313  
 KOLIHOVÁ D. ... 318  
 KORDIALIK-BOGACKA E. ... 264  
 KOUŘIMSKÁ L. ... 99  
 KOVÁČOVÁ R. ... 270  
 KOWALSKI S. ... 33  
 KRATCHANOV C. ... 139  
 KRATCHANOVA M. ... 139  
 KREMMYDA L.S. ... 241  
 KŠICOVÁ K. ... 180  
 KUČERA L. ... 368, 407  
 KUČEROVÁ J. ... 340  
 KUČEROVÁ Z. ... 94  
 KUMŠTA M. ... 474  
 KUTYŁA-KUPIDURA E.M. ... 33  
 KVASNIČKA F. ... 55  
 KÝHOS K. ... 94

**L**

LAMPÍŘ L. ... 172, 619  
 LAPČÍK O. ... 514  
 LEE J.-H. ... 382  
 LEŽ E. ... 601  
 LI D.-J. ... 607  
 LI Z. ... 1  
 LIN C.-C. ... 292  
 LISOVÁ I. ... 270  
 LIU C.-Q. ... 607  
 LIU J.-Z. ... 1  
 LIU L. ... 275  
 LIU S.-H. ... 1  
 LIU Y. ... 249, 501  
 LJUBOJEVIĆ D. ... 445  
 LLORCA E. ... 568  
 LOUADJ L. ... 256  
 LUKASIEWICZ M. ... 33  
 LV L. ... 249  
 LYNG J.G. ... 413

**M**

MA Y.-K. ... 72  
 MAHAM M. ... 520  
 MAJEED H. ... 527  
 MANCHÓN N. ... 483  
 MAREK M. ... 230



MARGITANOVÁ E. ... 589  
 MARINOVA E. ... 5  
 MARKOVIĆ K. ... 601  
 MARONGIU B. ... 236  
 MARRA F. ... 413  
 MATEO-VIVARACHO L. ... 483  
 MEDINA-MARTÍNEZ M.S. ... 189  
 MELLANO M.G. ... 390  
 MENG L.-L. ... 607  
 MESTEK O. ... 166  
 MICKOWSKA B. ... 313  
 MIHOLOVÁ D. ... 318  
 MIHULOVÁ M. ... 553  
 MILKOVA T. ... 5  
 MILOŠEVIĆ D. ... 43  
 MIRABOLFATHY M. ... 520  
 MIRONEASA C. ... 222  
 MIRONEASA S. ... 222  
 MOLENDÁ M. ... 347  
 MOLINA M.P. ... 627

**N**

NADEEM M. ... 332  
 NAGEL O.G. ... 627  
 NATH G. ... 323  
 NEDOMOVÁ Š. ... 340  
 NIKOLIĆ Z. ... 43  
 NOGALES-DELGADO S. ... 49

**O**

OANCEA S. ... 283  
 OPALIŃSKI I. ... 347  
 ORPHANIDES A. ... 509  
 OVESNÁ J. ... 368  
 ÖZCAN M.M. ... 236

**P**

PAN D. ... 451  
 PÁNEK J. ... 307  
 PANKIEWICZ U. ... 66  
 PANOVSÁ Z. ... 553  
 PAPETTI P. ... 438  
 PARK S.R. ... 382  
 PAVLÍK Z. ... 419  
 PAVLOUŠEK P. ... 474, 619  
 PEIGHAMBARDoust S.H. ... 361  
 PENG L. ... 249  
 PERTUSA J. ... 568  
 PETROVÁ M. ... 108  
 PIPEK P. ... 108, 307  
 PIRAS A. ... 236

PLAVŠA N. ... 445  
 PŁOCKOVÁ M. ... 270  
 PLUTA-KUBICA A. ... 432  
 POLISZKO S. ... 203  
 PROSHLYAKOV A. ... 126  
 PUIG A. ... 355  
 PUSTKOWIAK H. ... 432  
 PUVAČA N. ... 445

**Q**

QIAO Q.Q. ... 148  
 QING Y. ... 72  
 QUILES A. ... 568, 575

**R**

RADA V. ... 270  
 RADZYMIŃSKA M. ... 547  
 RAJCHL A. ... 81, 581  
 REN S.C. ... 148  
 REZLER R. ... 203  
 RODRÍGUEZ-GARCÍA J. ... 355  
 ROHLÍK B.-A. ... 108, 307  
 ROSA A. ... 236  
 ROSTAGNO M.A. ... 483  
 ROZENSKÁ L. ... 318  
 RUPRICH J. ... 419

**S**

SAFDAR W. ... 527  
 SAHA S. ... 194  
 SALÁKOVÁ A. ... 419  
 SALVADOR A. ... 355  
 ŠARIĆ G. ... 601  
 SEIZOVA K. ... 5  
 SENGUPTA C. ... 194  
 ŠEVČÍKOVÁ L. ... 514  
 SHI J. ... 501  
 SHIN S.A. ... 382  
 SIEKEL P. ... 376  
 ŠIMANSKÝ V. ... 613  
 ŠIMONIOVÁ A. ... 108  
 ŠKORPILOVÁ T. ... 108  
 SINGH S. ... 323  
 SKIBNIEWSK K.A. ... 313  
 SLAVOV A. ... 139  
 SMÍTKOVÁ H. ... 230  
 ŠNEBERGROVÁ J. ... 81  
 SONG J.-F. ... 607  
 ŠOTTNÍKOVÁ V. ... 340  
 STÁDNÍK L. ... 20  
 STANGIERSKI J. ... 203

STAŇKOVÁ B. ... 241

STANOVIČ R. ... 613

STASIAK M. ... 347

STEINHAUSER L. ... 419

STEINHAUSEROVÁ P. ... 419

STEJSKAL V. ... 94

ŠTĚTINA J. ... 553

ŠUCMAN E. ... 401

SUDAR R. ... 116

SUMÍKOVÁ T. ... 407

SUN M. ... 1

SVILOVIĆ S. ... 116

SZABÓ E. ... 541

SZAREK J. ... 313

SZŰCS V. ... 541

**T**

TIMORACKÁ M. ... 589

TOMÁŠ J. ... 613

TOMCZYŃSKA-MLEKO M. ... 211

TÓTH T. ... 589

TOTSEVA I. ... 5

TOUŠOVÁ R. ... 20

TRBOVIĆ D. ... 445

TREBICHALSKÝ P. ... 613

TVRZICKÁ E. ... 241

**U**

UHLÍŘOVÁ G. ... 613

ULBIN-FIGLEWICZ N. ... 596

ŮNAL E. ... 14

URMINSKÁ D. ... 589

**V**

VÁCLAVÍK L. ... 368

VÁCLAVÍKOVÁ E. ... 55

VAHČIĆ N. ... 601

VALKAJ K. ... 217

VASILJEVIĆ I. ... 43

VÁZQUEZ-GUTIÉRREZ J.L. ... 575

VEJLUPKOVÁ M. ... 553

VELIĆ D. ... 116

VESELÁ H. ... 401

VIDOVIĆ S. ... 116

VILLARES A. ... 483

VLACH M. ... 514

VOICA D.V. ... 222

VOLDŘICH M. ... 81, 581

VOLLMANNOVÁ A. ... 589

VUKADINOV J. ... 445

VUKIČEVIĆ D. ... 601

**W**

WALCZAK Z. ... 313

WANG D. ... 292

WANG W. ... 1, 88, 275, 501

WANG X. ... 88

WANG Y.-J. ... 1

WAQIF-HUSAIN S. ... 520

WENDORFF W.L. ... 217

WENJIAO F. ... 451

**Y**

YANNIOTIS S. ... 126

YING X. ... 72

YONGKUI Z. ... 451

YURDAKUL N.E. ... 14

YUWEN Y. ... 451

**Z**

ZAHOR Y. ... 332

ZAKRZEWSKI J. ... 313

ZDJELAR G. ... 43

ZHANG L. ... 88, 413

ZHANG L.-M. ... 292

ZHANG M. ... 88

ZHANG Y. ... 559

ZHANG Z. ... 249

ZHAN X.-B. ... 292

ZHAO G. ... 249

ZHAO X.-H. ... 559

ZHENG Z.-Y. ... 292

ZIMOCH A. ... 596

ZOU X. ... 88

**Ž**

ŽABKA M. ... 407

ŽÁK A. ... 241



## AUTHOR INSTITUTIONS INDEX

### ARGENTINA

National University of Litoral, Faculty of Veterinary Sciences, Department of Basic Science, Esperanza ..... 627

### BELGIUM

International Life Sciences Institute Europe, Brussels ..... 541

### BULGARIA

Bulgarian Academy of Sciences

Institute of Organic Chemistry with Centre of Phytochemistry, Sofia ..... 5

Laboratory of Biologically Active Substances, Plovdiv ..... 139

South-West University "Neofit Rilski", Blagoevgrad ..... 5

University of Food Technologies, Plovdiv

Department of Canning Technology ..... 139

Department of Organic Chemistry ..... 139

### CANADA

Agriculture and Agri-Food Canada, Guelph Food Research Center, Ontario, Guelph ..... 501

### CROATIA

Agricultural Institute Osijek, Croatia ..... 116

University of J. J. Strossmayer in Osijek, Faculty of Food Technology, Osijek ..... 116

University of Split, Faculty of Chemistry and Technology, Split ..... 116

University of Zagreb, Zagreb

Faculty of Agriculture, Department of Dairy Science ..... 217

Faculty of Food Technology and Biotechnology, Laboratory for Food Quality Control ..... 601

Vocational School, Čakovec ..... 217

### CYPRUS

Cyprus University of Technology, Biotechnology and Food Science, Department of Agricultural Sciences,  
Lemesos ..... 509

### CZECH REPUBLIC

Charles University in Prague, 1<sup>st</sup> Faculty of Medicine, 4<sup>th</sup> Department of Medicine – Department  
of Gastroenterology and Hepatology, Prague ..... 241

Crop Research Institute, Prague

Division of Plant Genetics Breeding and Product Quality, Department of Molecular Biology ..... 368, 407

Division of Plant Health

Department of Mycology ..... 407

Department of Pest Control of Stored Products and Food Safety ..... 94

Czech University of Life Sciences Prague, Prague

Faculty of Agrobiology, Food and Natural Resources

Department of Animal Husbandry ..... 20

Department of Chemistry ..... 318

Department of Horticulture ..... 172, 619

Department of Microbiology, Nutrition and Dietetics ..... 270

Department of Quality of Agricultural Products ..... 99

Faculty of Engineering, Department of Physics .....	126
Dairy Research Institute Ltd., Prague .....	270
Food Research Institute Prague, Prague .....	94
Institute of Chemical Technology Prague, Prague	
Faculty of Chemical Engineering, Department of Analytical Chemistry .....	166
Faculty of Food and Biochemical Technology	
Department of Biochemistry and Microbiology .....	368, 514
Department of Chemistry of Natural Compounds .....	514
Department of Dairy, Fat and Cosmetics .....	270, 553
Department of Food Analysis and Nutrition .....	368, 553
Department of Food Preservation .....	55, 81, 108, 230, 307, 581
Masaryk University, Faculty of Science, Department of Experimental Biology, Brno .....	180
Mendel University in Brno, Brno	
Faculty of Agronomy, Department of Food Technology .....	340
Faculty of Horticulture, Department of Viticulture and Oenology .....	474, 619
National Institute of Public Health, Centre for Health, Nutrition and Food, Brno .....	419
University of Veterinary and Pharmaceutical Sciences Brno, Faculty of Veterinary Hygiene and Ecology, Brno	
Department of Milk Hygiene and Technology .....	27, 180, 419
Department of Biochemistry, Chemistry and Biophysics .....	401
Veterinary Research Institute, Brno .....	27, 180
<b>GREECE</b>	
Agricultural University of Athens, Department of Food Science and Technology, Athene .....	126
<b>HUNGARY</b>	
Central Environmental and Food Science Research Institute, Budapest .....	541
<b>ITALY</b>	
Mediterranean University of Reggio Calabria (Italy), Department of AGRARIA, Contrada Melissari, Reggio Calabria .....	256
University of Cagliari, Cagliari	
Department of Chemical Science .....	236
Department of Experimental Biology .....	236
University of Cassino, Department of Economics, Cassino .....	438
University of Catania, Department of Agri-food and Environmental Systems Management (DiGeSA), Catania .....	467
University of Salerno, Department of Industrial Engineering, Fisciano .....	413
Università degli Studi di Torino, Department of Agricultural, Forest and Food Sciences, Grugliasco (TO) .....	390
<b>INDIA</b>	
Banaras Hindu University, Institute of Medical Sciences, Department of Microbiology, Varanasi (UP) .....	323
Indian Institute of Vegetable Research, Post Harvest Technology Lab, Jakkhini, Shahanshahpur, Varanasi (UP) .....	323
University of Kalyani, Department of Botany, Microbiology Research Unit, Nadia, West Bengal .....	194
<b>IRELAND</b>	
Teagasc Food Research Centre, Ashtown, Dublin .....	413
University College Dublin (UCD), School of Agriculture, Food Science and Veterinary Medicine, Dublin, Belfield .....	413

**IRAN**

Agricultural Research Centre, Department of Agricultural Engineering Research, Kerman .....	361
Iran Cereals Research Institute, Tehran .....	361
Iranian Plant Protection Research Institute, Mycotoxins Research Laboratory, Tehran .....	520
Islamic Azad University	
Department of Chemistry, Tehran .....	52, 520
Young Researchers Club, Hamedan Branch, Hamedan .....	361
Shiraz University of Medical Sciences, Student Research Committee, Shiraz .....	520
University of Tabriz, College of Agriculture, Tabriz	
Department of Food Science .....	361
Department of Animal Science .....	361

**KOREA**

Hoseo University, Graduate School of Venture, Department of Converting Technology, Seoul .....	382
Kangwon National University, Department of Food and Nutrition, Samcheok .....	382
Kongju National University, Department of Food and Nutrition, Yesan, Chungnam .....	382

**NEW ZEALAND**

Fonterra Research Centre, Fonterra Co-operative Group Limited, Palmerston North .....	413
---	-----

**PAKISTAN**

University of Veterinary and Animal Sciences, Institute of Biochemistry and Biotechnology, Lahore	
Department of Dairy Technology .....	332
Department of Wildlife and Ecology .....	332

**POLAND**

Institute of Ichthyobiology and Aquaculture, Gołysz .....	313
Lodz University of Technology, Faculty of Biotechnology and Food Sciences, Institute of Fermentation Technology and Microbiology, Lodz .....	264
Polish Academy of Sciences	
Institute of Agrophysics, Lublin .....	347
Institute of Animal Reproduction and Food Research, Olsztyn .....	347
University of Life Sciences in Lublin, Faculty of Food Science and Biotechnology, Department of Biotechnology, Human Nutrition and Food Commodity Science, Lublin .....	211
University of Life Sciences, Poznan	
Department of Food Quality Management .....	203
Department of Physics .....	203
University of Agriculture in Krakow, Krakow	
Department of Analysis and Evaluation of Food Quality .....	33
Department of Animal Products Technology .....	432
Department of Carbohydrate Technology .....	33
Department of Cattle Breeding .....	432
Małopolska Centre of Food Monitoring .....	313
University of Warmia & Mazury in Olsztyn, Olsztyn	
Chair of Commodity Science and Food Research .....	547
Chair of Foundations of Safety .....	313
Chair of Human Nutrition .....	313

Chair of Pathophysiology, Forensic Veterinary Medicine & Administration .....	313
Rzeszów University of Technology, Department of Chemical and Process Engineering, Rzeszów .....	347
Technical University in Koszalin, Chair of Food Technology and Nutrition, Koszalin .....	313
Wrocław University of Environmental and Life Sciences, Department of Animal Products Technology and Quality Management, Wrocław .....	596

**P.R. CHINA**

Chengdu University, College of Biotechnology Industries, Chengdu .....	249
China Jiliang University, College of Life Science, Hangzhou, Zhejiang .....	88
Henan University of Technology, School of Food Science and Technology, Zhengzhou .....	148
Jiangnan University, Jiangsu	
School of Biotechnology, Key Laboratory of Industrial Biotechnology of Ministry of Education .....	292
School of Food Science and Technology, State Key Laboratory of Food Science and Technology .....	527
Jiangsu Academy of Agricultural Sciences, Nanjing	
Modern Agricultural Technology Demonstration Centers .....	607
Institute of Farm Product Processing .....	607
Jiangsu University	
School of Food and Biological Engineering, Zhenjiang .....	72
School of Food Science and Technology, Wuxi .....	148
Northeast Agricultural University, Harbin	
Key Laboratory of Dairy Science of Ministry of Education .....	559
Department of Food Science .....	559
Shandong Academy of Agricultural Science, Institute of Agri-food Science and Technology, Jinan .....	275, 501
Sichuan Tourism University, Department of Food Science, Chengdu .....	451
Sichuan University, School of Chemical Engineering, Chengdu .....	451
Southwest University for Nationalities, Key Laboratory of Industrial Biotechnology of Ministry of Education, School of Institute of Ethnic Medicine, Chengdu .....	249
Yellow Sea Fisheries Research Institute, Marine Products Resource and Enzyme Engineering Laboratory, Qingdao .....	1

**REPUBLIC OF SERBIA**

A BIO TECH LAB Ltd., Sremska Kamenica .....	43
Institute of Field and Vegetable Crops, Novi Sad .....	43
Institute of Meat Hygiene and Technology, Belgrade .....	445
University of Novi Sad, Novi Sad	
Faculty of Technology .....	116
Faculty of Agriculture, Department of Animal Science .....	445
Faculty of Agriculture, Department of Veterinary Medicine .....	445
Faculty of Medicine, Department of Infectious Diseases .....	445

**ROMANIA**

University Politehnica of Bucharest, Faculty of Biotechnical Systems Engineering, Bucharest, Romania .....	222
Stefan cel Mare University, Suceava	
Faculty of Food Engineering .....	222
Faculty of Mechanical Engineering, Mechatronics and Management .....	222
Lucian Blaga University of Sibiu, Department of Agricultural Sciences, Food Industry and Environmental Protection, Sibiu .....	283

**SAUDI ARABIA**

King Saud University, College of Food and Agricultural Sciences, Department of Food Science & Nutrition,  
Riyadh ..... 236

**SLOVAK REPUBLIC**

Food Research Institute, Department of Microbiology, Molecular Biology and Biotechnology, Bratislava ..... 376

Plant Production Research Center in Piešťany, Gene Bank of the Slovak Republic, Piešťany ..... 589

Slovak University of Agriculture in Nitra, Nitra

Faculty of Agrobiological and Food Resources, Department of Pedology and Geology ..... 613

Faculty of Biotechnology and Food Sciences ..... 589, 613

**SPAIN**

Agri-Food Technological Institute of Extremadura (INTAEX), Badajoz ..... 49

Food Quality Centre, National Institute for Agricultural Research and Experimentation (INIA), Soria ..... 483

Institute of Agrochemistry and Food Technology (CSIC), Department of Food Preservation and Quality,  
Burjassot ..... 355

Polytechnic University of Valencia, Valencia

Department of Animal Science ..... 627

Department of Food Technology, Research Group of Food Microstructure and Chemistry ..... 355, 568, 575

Department of Functional Biology and Physical Anthropology ..... 568

**TURKEY**

Atatürk University, Faculty of Agriculture, Food Engineering Department, Erzurum, ..... 457

Namık Kemal University, Mechanical Engineering Department, Çorlu/Tekirdağ ..... 132

Narman Vocational High School, Food Technology Department, Narman, Erzurum ..... 457

Selcuk University, Faculty of Agriculture, Department of Food Engineering, Konya ..... 236

Trakya University, Mechanical Engineering Department, Edirne ..... 132

University of Balıkesir, Faculty of Science and Literature, Çağış-Balıkesir

Department of Biology ..... 156

Department of Chemistry ..... 156

University of Cukurova, Faculty of Agriculture, Department of Food Engineering, Adana ..... 14

**USA**

University of Wisconsin, Department of Food Science, Madison ..... 217

**VENEZUELA**

Central University of Venezuela, Caracas

Facultad de Ciencias, Instituto de Ciencia y Tecnología de Alimentos ..... 189

Facultad de Farmacia, Cátedra de Microbiología de Alimentos ..... 189

## SUBJECTS INDEX

**A**

absorption coefficient ... 126  
 acrylamide ... 401  
 adsorption stripping voltammetry ... 401  
 aflatoxin ... 126  
 air-drying ... 509  
 ake ingredient ... 355  
 alcohol ... 66  
 alcoholic beverage ... 382  
 alimentary uptake ... 382  
 alkaloids ... 483  
 allergens ... 81  
*Allium cepa* L. ... 283, 501  
 amaranth ... 589  
 amino acid ... 313  
 amplified ribosomal DNA restriction analysis  
 (ARDRA) ... 180  
 anabolic nortestosterone ... 514  
 angiotensin converting enzyme ... 559  
 ANOVA ... 256  
 anthocyanidin ... 275  
 anthocyanin ... 283  
 antibacterial activity ... 194  
 antibiotic ... 14  
 – resistance ... 14  
 – susceptibility ... 323  
 antimicrobial activity ... 596  
 – agent ... 323  
 – resistance ... 27  
 antioxidant ... 72, 148, 451, 483, 607  
 – activity ... 1, 5, 139, 501, 596, 601, 613  
 – capacity ... 501, 509, 589  
 – potential ... 332, 613  
 antioxidative activity ... 148  
 apple fibre ... 340  
 aromatic amine ... 5  
 authentication ... 474  
 authenticity ... 81, 172, 619  
 autoclaving ... 1

**B**

bacteria ... 88  
 bakery test ... 340  
 baking process ... 230  
 bamboo ... 451  
 – fibre ... 340  
 beer ... 166, 382  
 betalains ... 139  
*Beta vulgaris* L. ... 139  
 beverage ... 483

bifidobacteria ... 270  
*Bifidobacterium animalis* subsp. *lactis* Bb12 ... 270  
 bioactive molecules ... 99  
 bioassay ... 627  
 bioavailability ... 527  
 biological activity ... 194  
 bioluminescence ... 88  
 blueberry ... 275  
 bovine milk fat ... 20  
 bread ... 457  
 breed ... 318  
 brewing ... 166  
 – yeast ... 264  
 broth microdilution method ... 27  
 brown short-haired goat ... 318  
*B. subtilis* ... 627  
 buckwheat ... 249, 589  
 buffalo milk cheese ... 438  
 butter stabilisation ... 332

**C**

caffeine phenolic acid ... 483  
 calcium stearate ... 230  
 capillary isotachopheresis ... 55  
 caprine milk ... 318  
 – whey ... 318  
 carbon dioxide ... 236  
 $\beta$ -carotene ... 607  
 carotenoid ... 607  
 casein ... 559  
 cephalaria ... 457  
 cheesemaking ... 553  
 chemical analysis ... 438  
 – composition ... 217, 445  
 chemometric ... 249  
 – analysis ... 172, 368  
 – techniques ... 627  
 chemotaxonomy ... 474  
 chicken meat ... 14  
 chilled storage ... 451  
 Chinese carp ... 445  
 chitosan ... 451  
 cholesterol ... 445  
 chondroitin sulphate ... 55  
 cinnamic acid ... 5  
 citrate synthase ... 108  
 cluster analysis ... 256  
 coagulase ... 14  
 cold pressing ... 236  
 colloidal gold immunoassay ... 514



colorimeter ... 390  
colorimetric analysis ... 390  
colour analysis ... 132  
– changes ... 33  
– stability ... 307  
common carp ... 445  
confocal laser scanning microscopy (CLSM) ... 568  
conjugated linoleic acid ... 432  
consumer carp ... 313  
consumption data ... 541  
– survey ... 541  
conventional maize ... 368  
cookies ... 33  
cooking process ... 607  
corn silk ... 148  
*Corylus avellana* L. ... 81  
crop season ... 256  
cultivar ... 256  
– influence ... 589  
*Cyprinus carpio* L. ... 313  
Czech beer ... 166  
– garlic ... 581

## D

dairy cow ... 20  
– product ... 27  
– source ... 323  
decontamination ... 189  
deoxynivalenol ... 407  
detection ... 108  
dielectric properties ... 413  
dietary fat ... 241  
– fibre ... 340  
– supplement ... 55, 514  
differential scanning calorimetry (DSC) ... 283  
diffusion ... 132  
1,1-diphenyl-2-picrylhydrazyl (DPPH) ... 607  
disk diffusion method ... 27  
dispersive liquid–liquid microextraction ... 520  
DNA degradation ... 376  
dough ... 340, 361  
– sugar ... 222  
dried sausage ... 307  
dry fermented sausage ... 419  
– red pepper ... 217  
drying method ... 509  
– rate ... 132  
duality ... 581

## E

edible coating ... 451, 596  
electroanalysis ... 401, 407  
ELISA ... 514  
Emmental-type cheese ... 432  
emulsifier ... 270

enterococci ... 14  
*Enterococcus* spp. ... 14  
enzymatic modification ... 203  
– proteolysis processes ... 1  
enzyme kinetics ... 156  
essential element ... 249  
– oil ... 194  
ethanol ... 66  
ethanol-water medium ... 559  
experimental design ... 627  
extractable polyphenol ... 275  
extraction ... 236

## F

*Fagopyrum tataricum* (L.) Gaertn ... 249  
fat ... 547  
– quality ... 445  
– replacement ... 355  
fatty acid ... 116, 241, 432, 445  
– – profile ... 236  
fermentable sugar ... 222  
fermentation time ... 222  
*F. esculentum* Moench ... 249  
filbertone ... 81  
fish ... 313  
– flesh ... 445  
– oil ... 241  
– skin gelatin ... 1  
flavan-3-ols ... 483  
flavones ... 483  
– glycoside ... 148  
flavonoid ... 148, 501  
flavonol ... 483  
flavour ... 438, 553  
– compound ... 264  
– quality ... 292  
flour ... 361  
flowability ... 347  
foam ... 211, 230  
folic acid ... 527  
food analysis ... 55  
– consumption database ... 541  
– contaminant ... 401, 407  
– of standard value ... 313  
– powder ... 347  
– protection ... 94  
– raw material ... 613  
– safety ... 94  
fractions ... 116  
*Fragaria vesca* ... 49  
free fatty acid ... 20  
freeze ... 613  
freeze-drying ... 509  
freezing ... 108  
– period ... 613  
fresh cut ... 49

– chicken meat ... 108  
 – sweet corn ... 607  
 – water ... 445  
 frozen chicken surimi ... 203  
 – sweet corn ... 607  
 fruit-vegetable juices ... 139  
*Fusarium graminearum* ... 407

**G**

gas chromatography/mass spectrum (GC/MS) ... 292  
 – production ... 222  
 GC-MS ... 194  
 gel ... 211  
 gene 16S rDNA ... 180  
 genetically modified maize ... 43  
 – – rice ... 43  
 – – soya ... 43  
 globular protein ... 211  
 glucosamine ... 55  
 gluten free white sauce ... 575  
 glycogen ... 264  
 GM maize ... 368  
 GMO ... 43  
 goat milk ... 318  
 granary weevil ... 94  
 grapevine ... 619  
 – variety ... 172  
 growth phase ... 189

**H**

hard cheese manufacture ... 432  
 harvest year ... 256  
 hazelnut ... 81, 390  
 – roasting ... 390  
 headspace solid-phase microextraction  
 (HS-SPME) ... 292  
 health benefits ... 72  
 healthier products ... 99  
 healthy food ... 43  
 heating ... 601  
 heat treatment ... 601  
 high hydrostatic pressure processing ... 72  
 – performance liquid chromatography (HPLC) ... 172,  
 222, 292, 474, 520, 619  
 – – – – electrospray ionisation-mass spectrometry  
 (HPLC-ESI-MS) ... 72  
 – – – – hydrolysate ... 1, 559  
 – temperature ... 376  
 highly processed food ... 376  
 honey ... 601  
 hop ... 166  
 hopped kernel ... 390  
 hydroxycinnamic acid ... 509  
 hydroxyl radical antioxidant capacity (HORAC) ... 139  
 5-hydroxymethyl-2-furfural (HMF) ... 33

hydroxyproline ... 547  
 hydroxypropylmethylcellulose ... 596  
 hygienic quality ... 217  
*Hypophthalmichthys molitrix* ... 451

**I**

ICP-MS ... 166  
 identification ... 14  
 inactivation ... 189  
 inductively coupled plasma optical emission  
 spectrometer (ICP-OES) ... 250  
 industrial conditions ... 432  
 influence of locality ... 619  
 inhibition ... 156  
*in silico* fragmentation ... 180  
 instant coffee ... 483  
 intake ... 382  
 inulin ... 355, 755  
 iodine ... 318  
 iron ... 527  
 Italian cheese ... 438

**K**

kernels ... 607

**L**

lactation period ... 318  
 – stage ... 318  
 lactic acid ... 49, 419  
 – – bacteria ... 419  
 lactobacilli ... 27  
*Lactobacillus* spp. ... 27, 180  
 – *lactis* subsp. *lactis* ... 323  
 lactose free white sauce ... 575  
 lecithin ... 270  
 lemon balm ... 156  
 L-glutamic acid ... 547  
 lineage ... 318  
 lipid stability ... 307  
 lipolysis ... 20  
 liquid chromatography-fluorescence detection ... 520  
 logistic regression model ... 627  
 low-calorie food ... 575  
 low-fat free white sauce ... 575  
 – white sauce ... 568  
 low-pressure treatment ... 94  
 lycopene ... 307

**M**

maize ... 347  
 malt ... 166, 520  
 – flour ... 457  
 marine bioluminescent ... 88  
 marker ... 81  
 meat ... 108

– batter ... 413  
 – products ... 27  
 – properties ... 413  
 mechanical properties ... 347  
*Melissa officinalis* L. subsp. *officinalis* ... 156  
*Mentha viridis* ... 509  
 mesoporous silica ... 99  
 metabolomic fingerprinting ... 368  
 metabolomics ... 368  
 metal chelation ... 559  
 methanol extract ... 194  
 5-methylhept-2-en-4-one ... 81  
 methyl esters of fatty acids ... 419  
 microbial counts ... 49  
 – inactivation ... 189  
 – inhibition method ... 627  
 microbiological method ... 627  
 microencapsulation ... 270, 527  
 microextraction ... 520  
 micronutrients fortification ... 527  
 microstructural properties ... 575  
 microstructure ... 211, 575  
 – stability ... 568  
 microwave drying ... 132, 509  
 – heating ... 413, 568  
 – thawing ... 568  
 milk ... 627  
 milking ... 20  
 mineral ... 382  
 – supplement ... 318  
 minimum inhibitory concentration (MIC) ... 27  
 minor component ... 256  
 model alcohol ... 66  
 moisture content ... 132, 347  
 MON 810 maize ... 376  
 monovarietal olive ... 256  
*Moringa oleifera* ... 332  
 morphology ... 581  
*Morus moraceae* ... 72  
 mulberry fruit ... 72  
 – juice ... 72  
 multivariate analysis ... 222, 474  
 mycotoxin ... 407, 520

## N

natural antioxidant ... 307  
 nectar ... 66  
 nis+ ... 323  
 nisin ... 323  
 nitrate ... 547  
 non chemical control ... 94  
 non-dairy source ... 323  
 non-extractable polyphenol ... 275  
 non-flavonoid phenolic compound ... 474  
 non-thermal method ... 189  
 19-nortestosterone ... 514

Novel tool ... 527  
 nutraceuticals ... 55  
 nutritional value ... 313  
 nutrition supplement ... 241  
 nutritive food ... 575

## O

*Ocimum* spp. ... 194  
 Ochratoxin A (OTA) ... 88, 520  
 olive ... 256  
 ordered solids ... 99  
 overall acceptability ... 332  
 oxidation ... 307  
 oxidative parameter ... 467  
 – stability ... 332  
 oxygen radical antioxidant capacity (ORAC) ... 139

## P

panel test ... 390  
 paprika salami ... 307  
 partical size distribution ... 270  
 pasteurised milk ... 217  
 pathogenic bacteria ... 194  
 PCR ... 43, 376  
 pear nectar ... 66  
 peas ... 613  
 perceived density ... 66  
 – viscosity ... 66  
 pests ... 94  
 pH differential ... 283  
 phenolic ... 283, 589, 607  
 – compound ... 172, 483, 601, 619  
 – content ... 501, 509, 613  
 phenylpropenoyl amide ... 5  
 pH stability ... 283  
 physical properties ... 355, 575  
 physico-chemical characteristics ... 382  
 – properties ... 66  
 – stability ... 568  
 physiological state ... 264  
 phytochemical ... 509  
 – profile ... 483  
 pistachio kernel ... 126  
 – nut ... 467  
 – oil ... 467  
 plant oil ... 241  
 plastein reaction ... 559  
 polyphenol ... 483, 501, 589  
 polyphenol oxidase ... 156  
 polyvinyl alcohol ... 230  
 pork ... 413, 547  
 – adipose tissue ... 419  
 – fat ... 419  
 – meat product ... 547  
 postharvest ... 467

potato fibre ... 340  
 – starch ... 230  
 – starche ... 347  
 pressure ... 376  
 Prgica cheese ... 217  
 principal component analysis (PCA) ... 222, 292  
 proanthocyanidins ... 275  
 processed cheese ... 553  
 processing ... 20  
 proteases ... 1  
 protein ... 156, 313, 547  
 pseudocereals ... 589  
 pungency ... 581

## Q

qualitative assessment ... 390  
 – properties ... 451  
 quality ... 49, 81, 457  
 – evaluation ... 438  
 – indicator ... 581  
 – parameter ... 467  
 quinoa ... 589

## R

radical scavenging activity ... 607  
 – scavenger ... 148  
 radio-frequency heating ... 413  
 rapid immunoassays ... 514  
 raw milk ... 217  
 real time PCR ... 43  
 red beet juice ... 139  
 – flour beetle ... 94  
 – onion ... 283, 501  
 refrigeration temperature ... 332  
 restriction analysis ... 180  
 retail store ... 445  
 rheofermentometer ... 222  
 rheological analysis ... 554  
 – attribute ... 203  
 – properties ... 340  
 rheology ... 361, 553  
 Riesling wine ... 474  
 ripening ... 419  
 – period ... 438  
 roasting temperature ... 390  
 rosemary ... 307  
 rutin ... 589

## S

salt ... 547  
 sanitisers ... 49  
 SDS-PAGE ... 568  
 season ... 20  
 selenium ... 318  
 sensory analysis ... 340, 390, 581

– evaluation ... 292  
 – change ... 527  
 – characteristic ... 419  
 – profile ... 438  
 – property ... 66, 340, 575  
 – quality ... 553  
 serial repitching ... 264  
 shading effect ... 189  
 – phase ... 189  
 shelf life ... 451  
 – extension ... 451  
 shortbreads ... 33  
 silicon ... 166, 382  
 silver carp ... 451  
*Sitophilus granarius* ... 94  
 slip-stick ... 347  
 sodium hypochlorite ... 49  
 sourdough ... 361  
 soybean oil ... 116  
 soy protein ... 568, 575  
 – sauce ... 292  
 spearmint ... 509  
 species identification ... 180  
 spinach ... 613  
 spray-dried ... 361  
 spread quality ... 81  
 stability ... 211, 575  
 staphylococci ... 14  
*Staphylococcus* spp. ... 14  
 starch ... 230, 568, 575  
 sterol composition ... 256  
*Stigma maydis* ... 148  
 storage period ... 438  
 – temperature ... 467  
 strawberry ... 49  
 strip test ... 514  
 structure ... 211  
 sulfonamide ... 627  
 supercritical carbon dioxide ... 116  
 susceptibility test ... 14  
 – to antibiotics ... 27  
 sweet corn ... 613  
 sweeteners ... 33  
 syneresis ... 211  
 synthesised phenolic acid amide ... 5

## T

temperature influence ... 94  
 terroir ... 474, 619  
 textural property ... 457  
 texture ... 203  
 – quality ... 553  
 – profile analysis (TPA) ... 554  
 thawed chicken meats ... 108  
 thermal pretreatment ... 139  
 – processing ... 33

thermal stability ... 283  
tilapia skin collagen hydrolysate ... 1  
time of milking ... 20  
 $\alpha$ -tocopherol ... 236  
tomato ... 132  
toxic element ... 249  
toxicity ... 88  
traditional ham ... 547  
– sausage; ... 547  
transglutaminase (MTG) ... 203  
trehalose ... 264  
triacylglycerol ... 116  
– of sunflower oil ... 5  
– profile ... 467  
*Tribolium castaneum* ... 94  
*Triticum aestivum* L. ... 407  
Turbiscan ... 211

## U

ultra-high performance liquid chromatography-mass spectrometry (UHPLC-MS) ... 368  
utilisation ... 541  
UV-C light ... 189

## V

vacuum packing food ... 94  
– – machine ... 94  
varietal differentiation ... 172  
vegetarian food ... 43  
*V. harveyi* BA ... 88  
video image analysis ... 307  
viscosity ... 575  
vital gluten ... 457  
vitamin A ... 527  
*Vitis vinifera* L. ... 172

volatile component ... 81

## W

waste frass ... 230  
– paper pulp ... 230  
– activity ... 203  
wax ester ... 256  
waxy maize starch ... 569  
wheat ... 347, 407  
– fibre ... 340  
– flour ... 222, 527  
– germ ... 236  
– protein ... 211  
– – hydrolysate ... 553  
white short-haired goat ... 318  
– wine ... 172, 619  
whole wheat bread ... 457  
wine ... 474  
– analysis ... 619  
wort ... 166

## X

X-ray image ... 126

## Y

yeast ... 217, 222, 264  
yellow onion ... 501

## Z

*Zea mays* L. ... 607  
zinc ... 527