

# Supplementary File to Accompany “Response Surface Experiments: A Meta-Analysis”

## Bibliography of Meta-Analysis Articles

- Ahmad, A., Derek, C., and Zulkali, M. (2008), “Optimization of thaumatin extraction by aqueous two-phase system (ATPS) using response surface methodology (RSM),” *Separation and Purification Technology*, 62, 702–708.
- Ahmadi, S., Ghassempour, A., Fakhari, A. R., Jalali-Heravi, M., and Aboul-Enein, H. Y. (2010), “Optimization of Tribenuron-methyl determination by differential pulse polarography using experimental design,” *Analytical Methods*, 2, 41–48.
- Ahoor, A. H. and Zandi-Atashbar, N. (2014), “Fuel production based on catalytic pyrolysis of waste tires as an optimized model,” *Energy Conversion and Management*, 87, 653–669.
- Akesolo, U., González, L., Jiménez, R. M., and Alonso, R. M. (2002), “Separation of the high-ceiling diuretic Torasemide and its metabolites by capillary zone electrophoresis with diode-array detection,” *Electrophoresis*, 23, 230–236.
- Amin, N. A. S. et al. (2005), “A hybrid numerical approach for multi-responses optimization of process parameters and catalyst compositions in CO<sub>2</sub> OCM process over CaO-MnO/CeO<sub>2</sub> catalyst,” *Chemical Engineering Journal*, 106, 213–227.
- Antunes, P., Gil, O., and Bernardo-Gil, M. G. (2003), “Supercritical fluid extraction of organochlorines from fish muscle with different sample preparation,” *The Journal of supercritical fluids*, 25, 135–142.
- Baati, R., Kamoun, A., Chaabouni, M., Sergent, M., and Phan-Tan-Luu, R. (2006), “Screening and optimization of the factors of a detergent admixture preparation,” *Chemometrics and intelligent laboratory systems*, 80, 198–208.
- Badhan, A., Chadha, B., Kaur, J., Saini, H., and Bhat, M. (2007), “Production of multiple xylanolytic and cellulolytic enzymes by thermophilic fungus *Myceliophthora* sp. IMI 387099,” *Bioresource Technology*, 98, 504–510.
- Balasubramanian, V., Lakshminarayanan, A., Varahamoorthy, R., and Babu, S. (2008), “Understanding the parameters controlling plasma transferred arc hardfacing using response surface methodology,” *Materials and Manufacturing Processes*, 23, 674–682.
- (2009), “Application of response surface methodology to prediction of dilution in plasma transferred arc hardfacing of stainless steel on carbon steel,” *Journal of Iron and Steel Research, International*, 16, 44–53.
- Barbusiński, K. and Fajkis, S. (2011), “Optimization of the fenton oxidation of wastewater generated by rape oil soapstock splitting,” *Environmental Progress & Sustainable Energy*, 30, 620–631.
- Beigi, L., Karbalaee-Heidari, H. R., and Kharrati-Kopaei, M. (2012), “Optimization of an extracellular zinc-metalloprotease (SVP2) expression in *Escherichia coli* BL21 (DE3) using response surface methodology,” *Protein expression and purification*, 84, 161–166.

- Benitez, J., Rodríguez, A., and Suarez, A. (1994), "Optimization technique for sewage sludge conditioning with polymer and skeleton builders," *Water Research*, 28, 2067–2073.
- Bermejo-Barrera, P., Moreda-Piñeiro, A., Muñiz-Naveiro, O., Gómez-Fernández, A., and Bermejo-Barrera, A. (2000a), "Optimization of a microwave-pseudo-digestion procedure by experimental designs for the determination of trace elements in seafood products by atomic absorption spectrometry," *Spectrochimica Acta Part B: Atomic Spectroscopy*, 55, 1351–1371.
- Bermejo-Barrera, P., Muñiz-Naveiro, O., Moreda-Piñeiro, A., and Bermejo-Barrera, A. (2000b), "Experimental designs in the optimisation of ultrasonic bath–acid-leaching procedures for the determination of trace elements in human hair samples by atomic absorption spectrometry," *Forensic science international*, 107, 105–120.
- Branco, G. F., Rodrigues, M. I., Gioielli, L. A., and Castro, I. A. (2011), "Effect of the simultaneous interaction among ascorbic acid, iron and pH on the oxidative stability of oil-in-water emulsions," *Journal of agricultural and food chemistry*, 59, 12183–12192.
- Casas Lopez, J., Sanchez Perez, J., Fernandez Sevilla, J., Acien Fernandez, F., Molina Grima, E., and Chisti, Y. (2004), "Fermentation optimization for the production of lovastatin by *Aspergillus terreus*: use of response surface methodology," *Journal of Chemical Technology and Biotechnology*, 79, 1119–1126.
- Chang, H.-M., Liao, H.-F., Lee, C.-C., and Shieh, C.-J. (2005), "Optimized synthesis of lipase-catalyzed biodiesel by Novozym 435," *Journal of Chemical Technology and Biotechnology*, 80, 307–312.
- Chang, S.-W., Shaw, J.-F., and Shieh, C.-J. (2003), "Optimization of enzymatically prepared hexyl butyrate by lipozyme IM-77," *Food Technology and Biotechnology*, 41, 237–242.
- Chen, S.-Y., Lu, W.-B., Wei, Y.-H., Chen, W.-M., and Chang, J.-S. (2007), "Improved production of biosurfactant with newly isolated *Pseudomonas aeruginosa* S2," *Biotechnology progress*, 23, 661–666.
- Chiranjeevi, P. V., Pandian, M. R., and Thadikamala, S. (2014), "Enhancement of Laccase Production from *Pleurotus ostreatus* PVC-RSP-7 by altering the Nutritional Conditions using Response Surface Methodology," *BioResources*, 9, 4212–4225.
- Chowdary, G. and Prapulla, S. (2003), "Optimization of synthesis of ethyl isovalerate using *Rhizomucor miehei* lipase," *Applied Biochemistry and Microbiology*, 39, 243–248.
- Contesini, F. J., Ibarra, C., Grosso, C. R. F., de Oliveira Carvalho, P., and Sato, H. H. (2012), "Immobilization of glucosyltransferase from *Erwinia* sp. using two different techniques," *Journal of biotechnology*, 158, 137–143.
- Coutaz, R., Garrote, R., Bertone, R., Silva, E., and Avallé, A. (1998), "Heat and NaOH penetration during chemical peeling of potatoes." *Food science and technology international= Ciencia y tecnología de alimentos internacional*, 4, 23–32.
- Deeng, K. D., Mohamed, A. R., and Bhatia, S. (2004), "Process optimization studies of structured Cu-ZSM-5 zeolite catalyst for the removal of NO using design of experiments (DOE)," *Chemical Engineering Journal*, 103, 147–157.
- Donghui, L., Tabil, L. G., Decheng, W., Guanghui, W., and Zhiqin, W. (2014), "Optimization of binder addition and compression load for pelletization of wheat straw using response surface methodology," *International Journal of Agricultural and Biological Engineering*, 7, 67–78.
- dos Santos, A. C. and Masini, J. C. (2009), "Sequential injection analysis (SIA) and response surface methodology: A versatile small volume approach for optimization of photo-Fenton processes," *Microchemical Journal*, 93, 110–114.
- El Mansouri, N.-E., Farriol, X., and Salvadó, J. (2006), "Structural modification and characterization of lignosulfonate by a reaction in an alkaline medium for its incorporation into phenolic resins," *Journal of applied polymer science*, 102, 3286–3292.

- El-Taweel, T. (2008), "Modelling and analysis of hybrid electrochemical turning-magnetic abrasive finishing of 6061 Al/Al<sub>2</sub>O<sub>3</sub> composite," *The International Journal of Advanced Manufacturing Technology*, 37, 705–714.
- Gannu, R., Yamsani, V. V., Yamsani, S. K., Palem, C. R., and Yamsani, M. R. (2009), "Optimization of hydrogels for transdermal delivery of lisinopril by Box–Behnken statistical design," *AAPS PharmSciTech*, 10, 505–514.
- Gedikli, S., Aytar, P., Buruk, Y., Apohan, E., Çabuk, A., Yeşilada, Ö., and Burnak, N. (2014), "Laccase production and dye decolorization by *Trametes versicolor*: application of Taguchi and Box-Behnken Methodologies." *Turkish Journal of Biochemistry/Turk Biyokimya Dergisi*, 39.
- Gopani, M., Patel, R. B., Patel, M. R., and Solanki, A. B. (2014), "Development of a New High-Performance Thin Layer Chromatographic Method for Quantitative Estimation of Lamivudine and Zidovudine in Combined Tablet Dosage Form Using Quality by Design Approach," *Journal of Liquid Chromatography & Related Technologies*, 37, 2420–2432.
- Guo, Z., Shen, L., Ji, Z., and Wu, W. (2012), "Enhanced production of a novel cyclic hexapeptide antibiotic (NW-G01) by *Streptomyces alboflavus* 313 using response surface methodology," *International journal of molecular sciences*, 13, 5230–5241.
- Gupta, N., Kumar Gundampati, R., and Debnath, M. (2012), "Optimization of media composition for D-amino acid oxidase production by *Trigonopsis variabilis* using biostatistical analysis," *Indian Journal of Biochemistry and Biophysics*, 49, 272.
- Han, X., Yan, W., Chen, K., Hung, C.-T., Liu, L.-L., Wu, P.-H., Huang, S.-J., and Liu, S.-B. (2014), "Heteropolyacid-based ionic liquids as effective catalysts for the synthesis of benzaldehyde glycol acetal," *Applied Catalysis A: General*, 485, 149–156.
- Hariprasad, D., Mohapatra, M., Rao, K. S., Anand, S., et al. (2014), "Self sustained autogenous dissolution of medium grade manganese ore of Gujarat in NH<sub>3</sub>OHCl-H<sub>2</sub>SO<sub>4</sub>-H<sub>2</sub>O medium," *Indian Journal of Chemical Technology*, 21, 63–69.
- Hosseinpour, V., Kazemeini, M., and Mohammadrezaee, A. (2011), "A study of the water–gas shift reaction in Ru-promoted Ir-catalysed methanol carbonylation utilising experimental design methodology," *Chemical engineering science*, 66, 4798–4806.
- Jabasingh, S. (2011), "Optimization and kinetics of cellulase immobilization on modified chitin using Response Surface Methodology," *Adsorption Science & Technology*, 29, 897–916.
- Jeong, T.-S., Um, B.-H., Kim, J.-S., and Oh, K.-K. (2010), "Optimizing dilute-acid pretreatment of rapeseed straw for extraction of hemicellulose," *Applied biochemistry and biotechnology*, 161, 22–33.
- Jiménez, L., Angulo, V., Caparrós, S., and Ariza, J. (2007), "Comparison of polynomial and neural fuzzy models as applied to the ethanalamine pulping of vine shoots," *Bioresource technology*, 98, 3440–3448.
- Ju, H.-Y., Too, J.-R., Chang, C., and Shieh, C.-J. (2008), "Optimal  $\alpha$ -chymotrypsin-catalyzed synthesis of N-Ac-Phe-Gly-NH<sub>2</sub>," *Journal of agricultural and food chemistry*, 57, 403–408.
- Junqua, M., Duran, R., Gancet, C., and Goulas, P. (1997), "Optimization of microbial transglutaminase production using experimental designs," *Applied Microbiology and Biotechnology*, 48, 730–734.
- Kar, S. and Ray, R. C. (2008), "Statistical optimization of  $\alpha$ -amylase production by *Streptomyces erumpens* MTCC 7317 cells in calcium alginate beads using response surface methodology," *Pol J Microbiol*, 57, 49–57.
- Karunanithy, C. and Muthukumarappan, K. (2011), "Optimization of alkali, switchgrass, and extruder parameters for maximum sugar recovery," *Chemical Engineering & Technology*, 34, 1413–1426.

- Knežević-Jugović, Z., Bezbradica, D., Jakovljević, Ž., Branković-Dimitrijević, S., and Mijin, D. (2008), “Lipase catalyzed synthesis of flavor esters in non-aqueous media: Optimization of the yield of pentyl 2-methylpropanoate by statistical analysis,” *Journal of the Serbian Chemical Society*, 73, 1139–1151.
- Kristensen, J. B., Xu, X., and Mu, H. (2005), “Process optimization using response surface design and pilot plant production of dietary diacylglycerols by lipase-catalyzed glycerolysis,” *Journal of agricultural and food chemistry*, 53, 7059–7066.
- Kumar, D. P., Singh, R. K., Anupama, P., Solanki, M. K., Kumar, S., Srivastava, A. K., Singhal, P. K., and Arora, D. K. (2012), “Studies on exo-chitinase production from *Trichoderma asperellum* UTP-16 and its characterization,” *Indian journal of microbiology*, 52, 388–395.
- Kumar, R., Nagarajan, R., Fun, F. C., and Seng, P. L. (2000), “Effect of process variables on the exothermicity during the production of phenol–formaldehyde resins—modeling by response surface methodology,” *European polymer journal*, 36, 2491–2497.
- Kumar, S. and Balasubramanian, V. (2010), “Effect of reinforcement size and volume fraction on the abrasive wear behaviour of AA7075 Al/SiC p P/M composites A statistical analysis,” *Tribology International*, 43, 414–422.
- Lai, J., Wang, H., Wang, D., Fang, F., Wang, F., and Wu, T. (2014), “Ultrasonic extraction of antioxidants from Chinese sumac (*Rhus typhina* L.) fruit using response surface methodology and their characterization,” *Molecules*, 19, 9019–9032.
- Lee, K. M., Ngoh, G. C., and Chua, A. S. M. (2013), “Process optimization and performance evaluation on sequential ionic liquid dissolution–solid acid saccharification of sago waste,” *Bioresource technology*, 130, 1–7.
- Li, C., Bai, J., Cai, Z., and Ouyang, F. (2002), “Optimization of a cultural medium for bacteriocin production by *Lactococcus lactis* using response surface methodology,” *Journal of Biotechnology*, 93, 27–34.
- Li, Y., Skouroumounis, G. K., Elsey, G. M., and Taylor, D. K. (2011), “Microwave-assistance provides very rapid and efficient extraction of grape seed polyphenols,” *Food Chemistry*, 129, 570–576.
- Lin, Y., Wang, J., Wang, X., and Sun, X. (2011), “Optimization of butanol production from corn straw hydrolysate by *Clostridium acetobutylicum* using response surface method,” *Chinese Science Bulletin*, 56, 1422–1428.
- Liu, C.-H., Huang, C.-C., Wang, Y.-W., and Chang, J.-S. (2012a), “Optimizing lipase production from isolated *Burkholderia* sp.” *Journal of the Taiwan Institute of Chemical Engineers*, 43, 511–516.
- Liu, C.-H., Lu, W.-B., and Chang, J.-S. (2006), “Optimizing lipase production of *Burkholderia* sp. by response surface methodology,” *Process Biochemistry*, 41, 1940–1944.
- Liu, P.-Y., Lin, Y.-H., Feng, C. H., and Chen, Y.-L. (2012b), “Determination of hydroxy acids in cosmetics by chemometric experimental design and cyclodextrin-modified capillary electrophoresis,” *Electrophoresis*, 33, 3079–3086.
- Liu, S., Zhang, C., Hong, P., and Ji, H. (2007), “Lipase-catalysed acylglycerol synthesis of glycerol and n-3 PUFA from tuna oil: Optimisation of process parameters,” *Food chemistry*, 103, 1009–1015.
- Lo, S.-K., Arifin, N., Cheong, L.-Z., Tan, C.-P., Long, K., Yusoff, M. S. A., and Lai, O.-M. (2009), “Response surface modeling of 1-stearoyl-3 (2)-oleoyl glycerol production in a pilot packed-bed immobilized *Rhizomucor miehei* lipase reactor,” *Journal of Molecular Catalysis B: Enzymatic*, 57, 136–144.
- Low, C. T., Mohamad, R., Tan, C. P., Long, K., Ismail, R., Lo, S. K., and Lai, O. M. (2007), “Lipase-catalyzed production of medium-chain triacylglycerols from palm kernel oil distillate: Optimization using response surface methodology,” *European Journal of Lipid Science and Technology*, 109, 107–119.

- Low, L. W., Teng, T. T., Alkarkhi, A. F., Ahmad, A., and Morad, N. (2011), "Optimization of the adsorption conditions for the decolorization and COD reduction of methylene blue aqueous solution using low-cost adsorbent," *Water, Air, & Soil Pollution*, 214, 185–195.
- Ma, Y., Xing, Y., Mi, H., Guo, Z., Lu, Y., and Xi, T. (2014), "Extraction, preliminary characterization and immunostimulatory activity in vitro of a polysaccharide isolated from *Strongylocentrotus nudus* eggs," *Carbohydrate polymers*, 111, 576–583.
- Macmil, S., Vaidya, R., Vyas, P., and Chhatpar, H. (2005), "Production of *Alcaligenes xylosoxydans* EMS33 in a Bench-scale Fermenter," *World Journal of Microbiology and Biotechnology*, 21, 1215–1221.
- Mao, J., Lee, S. Y., Won, S. W., and Yun, Y.-S. (2010), "Surface modified bacterial biosorbent with poly (allylamine hydrochloride): Development using response surface methodology and use for recovery of hexachloroplatinate (IV) from aqueous solution," *Water research*, 44, 5919–5928.
- Maran, J. P., Sivakumar, V., Thirugnanasambandham, K., and Sridhar, R. (2014), "Degradation behavior of biocomposites based on cassava starch buried under indoor soil conditions," *Carbohydrate polymers*, 101, 20–28.
- Marandi, R., Khosravi, M., Olya, M., Vahid, B., and Hatami, M. (2011), "Photocatalytic degradation of an azo dye using immobilised TiO<sub>2</sub> nanoparticles on polyester support: central composite design approach," *Micro & Nano Letters, IET*, 6, 958–963.
- Marimuthu, K. and Murugan, N. (2005), "Sensitivity analysis of process parameters in PTA hardfacing of valve seats using response surface methodology," *Materials science and technology*, 21, 941–947.
- Mishra, A., Kumar, S., and Kumar, S. (2008), "Application of Box-Benkhken experimental design for optimization of laccase production by *Coriolus versicolor* MTCC138 in solid-state fermentation," *J Sci Ind Res*, 67, 1098–1107.
- Mishra, P. and Das, D. (2014), "Biohydrogen production from *Enterobacter cloacae* IIT-BT 08 using distillery effluent," *international journal of hydrogen energy*, 39, 7496–7507.
- Mousavi, M., Noroozian, E., Jalali-Heravi, M., and Mollahosseini, A. (2007), "Optimization of solid-phase microextraction of volatile phenols in water by a polyaniline-coated Pt-fiber using experimental design," *Analytica chimica acta*, 581, 71–77.
- ÖNGEN, G., Sargin, S., ÜSTÜN, Ö., Kutlu, C., and YÜCEL, M. (2012), "Dipeptidyl peptidase IV production by solid state fermentation using alternative fungal sources," *Turkish Journal of Biology*, 36, 665–671.
- Peng, L., Xu, X., Mu, H., Høy, C.-E., and Adler-Nissen, J. (2002), "Production of structured phospholipids by lipase-catalyzed acidolysis: optimization using response surface methodology," *Enzyme and microbial technology*, 31, 523–532.
- Pournejati, R., Karbalaeei-Heidari, H. R., and Budisa, N. (2014), "Secretion of recombinant archeal lipase mediated by SVP2 signal peptide in *Escherichia coli* and its optimization by response surface methodology," *Protein expression and purification*, 101, 84–90.
- Qian, L., Ping, Y., and Yunbai, L. (2013), "Response surface modeling and optimization of a new impact-toughened mould material used in the shaping of sanitary ware," *Materials & Design*, 50, 191–197.
- Rahimpour, F., Mamo, G., Feyzi, F., Maghsoudi, S., and Hatti-Kaul, R. (2007), "Optimizing refolding and recovery of active recombinant *Bacillus halodurans* xylanase in polymer–salt aqueous two-phase system using surface response analysis," *Journal of Chromatography A*, 1141, 32–40.
- Rajakumar, S. and Balasubramanian, V. (2012), "Predicting grain size and tensile strength of friction stir welded joints of AA7075-T6 aluminium alloy," *Materials and Manufacturing Processes*, 27, 78–83.

- Rajakumar, S., Muralidharan, C., and Balasubramanian, V. (2012), “Developing Empirical Relationships to Predict Grain Size and Hardness of the Weld Nugget of Friction Stir Welded AA7075-T6 Aluminium Alloy Joints,” *Experimental Techniques*, 36, 6–17.
- Ramachandran, C., Balasubramanian, V., and Ananthapadmanabhan, P. (2011), “Multiobjective optimization of atmospheric plasma spray process parameters to deposit yttria-stabilized zirconia coatings using response surface methodology,” *Journal of thermal spray technology*, 20, 590–607.
- Rathi, P., Goswami, V., Sahai, V., and Gupta, R. (2002), “Statistical medium optimization and production of a hyperthermostable lipase from *Burkholderia cepacia* in a bioreactor,” *Journal of applied microbiology*, 93, 930–936.
- Roy, D., Daoudi, L., and Azaola, A. (2002), “Optimization of galacto-oligosaccharide production by *Bifidobacterium infantis* RW-8120 using response surface methodology,” *Journal of Industrial Microbiology and Biotechnology*, 29, 281–285.
- Sampaio, P. N., Calado, C. R., Sousa, L., Bressler, D. C., Pais, M. S., and Fonseca, L. P. (2010), “Optimization of the culture medium composition using response surface methodology for new recombinant cyprosin B production in bioreactor for cheese production,” *European Food Research and Technology*, 231, 339–346.
- Sani, J., Kitsubun, P., and Tongta, A. (2013), “Statistical optimization for monacolin K and yellow pigment production and citrinin reduction by *Monascus purpureus* in solid-state fermentation,” *Journal of microbiology and biotechnology*, 23, 364–374.
- Santos, L. M. G. d., Gonçalves, J. M., and Jacob, S. d. C. (2008), “Simultaneous determination of arsenic, cadmium and lead by GF AAS in purified water samples for hemodialysis after multivariate optimization based on factorial design,” *Química Nova*, 31, 975–979.
- Santos-Ebinuma, V. C., Roberto, I. C., Teixeira, M. F. S., and Pessoa Jr, A. (2014), “Improvement of submerged culture conditions to produce colorants by *Penicillium purpurogenum*,” *Brazilian Journal of Microbiology*, 45, 731–742.
- Sasikumar, E. and Viruthagiri, T. (2008), “Optimization of process conditions using response surface methodology (RSM) for ethanol production from pretreated sugarcane bagasse: kinetics and modeling,” *Bioenergy Research*, 1, 239–247.
- Sayan, E., Bayramoglu, M., et al. (2001), “Statistical modelling of sulphuric acid leaching of TiO<sub>2</sub>, Fe<sub>2</sub>O<sub>3</sub> and Al<sub>2</sub>O<sub>3</sub> from red mud,” *Process Safety and Environmental Protection*, 79, 291–296.
- Sen, S. and Roychoudhury, P. K. (2013), “Development of optimal medium for production of commercially important monoclonal antibody 520C9 by hybridoma cell,” *Cytotechnology*, 65, 233–252.
- Sereshti, H., Far, A. R., and Samadi, S. (2012), “Optimized ultrasound-assisted emulsification-microextraction followed by ICP-OES for simultaneous determination of lanthanum and cerium in urine and water samples,” *Analytical Letters*, 45, 1426–1439.
- Sheng, J., Chi, Z., Yan, K., Wang, X., Gong, F., and Li, J. (2009), “Use of response surface methodology for optimizing process parameters for high inulinase production by the marine yeast *Cryptococcus aureus* G7a in solid-state fermentation and hydrolysis of inulin,” *Bioprocess and biosystems engineering*, 32, 333–339.
- Shi, K., Cui, F., Yamamoto, H., and Kawashima, Y. (2008), “Optimized preparation of insulin-lauryl sulfate complex loaded poly (lactide-co-glycolide) nanoparticles using response surface methodology,” *Die Pharmazie-An International Journal of Pharmaceutical Sciences*, 63, 721–725.
- Shieh, C.-J. and Chang, S.-W. (2001), “Optimized synthesis of lipase-catalyzed hexyl acetate in n-hexane by response surface methodology,” *Journal of agricultural and food chemistry*, 49, 1203–1207.
- Shieh, C.-J. and Lou, Y.-H. (2000), “Five-factor response surface optimization of the enzymatic synthesis of citronellyl butyrate by lipase IM77 from *Mucor miehei*,” *Journal of the American Oil Chemists’ Society*, 77, 521–525.

- Singh, K. P., Rai, P., Pandey, P., and Sinha, S. (2012), “Modeling and optimization of trihalomethanes formation potential of surface water (a drinking water source) using Box–Behnken design,” *Environmental Science and Pollution Research*, 19, 113–127.
- Singh, R. S. and Lotey, S. (2010), “Enhanced exoinulinase production from *Kluyveromyces marxianus* YS-1 using response surface methodology,” *Brazilian Archives of Biology and Technology*, 53, 1005–1013.
- Siva, K., Murugan, N., and Logesh, R. (2009), “Optimization of weld bead geometry in plasma transferred arc hardfaced austenitic stainless steel plates using genetic algorithm,” *The International Journal of Advanced Manufacturing Technology*, 41, 24–30.
- Souza, M. d. O., Roberto, I., and Milagres, A. (1999), “Solid-state fermentation for xylanase production by *Thermoascus aurantiacus* using response surface methodology,” *Applied Microbiology and Biotechnology*, 52, 768–772.
- Spier, M. R., Scheidt, G. N., Portella, A. C., Rodríguez-León, J. A., Woiciechowski, A. L., Greiner, R., and Socol, C. R. (2010), “Increase in phytase synthesis during citric pulp fermentation,” *Chemical Engineering Communications*, 198, 286–297.
- Sreekumar, O., Chand, N., and Basappa, S. C. (1999), “Optimization and interaction of media components in ethanol production using *Zymomonas mobilis* by response surface methodology,” *Journal of bioscience and bioengineering*, 88, 334–338.
- Stanojević, M., Krušić, M. K., Filipović, J., Parojčić, J., and Stupar, M. (2006), “An investigation into the influence of hydrogel composition on swelling behavior and drug release from poly (acrylamide-co-itaconic acid) hydrogels in various media,” *Drug delivery*, 13, 1–7.
- Tarim, T. B., Kuntman, H. H., and Ismail, M. (1999), “Robust design of basic low voltage CMOS transconductors,” *Journal of VLSI signal processing systems for signal, image and video technology*, 22, 87–102.
- (2000), “Statistical design of low power square-law CMOS cells for high yield,” *Analog Integrated Circuits and Signal Processing*, 23, 237–248.
- Tiantao, Z., ZHANG, L., Haoquan, C., and Youcai, Z. (2009), “Co-inhibition of methanogens for methane mitigation in biodegradable wastes,” *Journal of Environmental Sciences*, 21, 827–833.
- Tinny, T., Chacko, A., and Jose, S. (2013), “Formulation development and statistical optimization of chronotherapeutic tablets of indometacin,” *Drug development and industrial pharmacy*, 39, 1357–1363.
- Torralvo, F. A. and Fernández-Pereira, C. (2011), “Recovery of germanium from real fly ash leachates by ion-exchange extraction,” *Minerals Engineering*, 24, 35–41.
- Vats, S., Maurya, D. P., Jain, A., Mall, V., and Negi, S. (2013), “Mathematical model-based optimization of physico-enzymatic hydrolysis of *Pinus roxburghii* needles for the production of reducing sugars,” *Indian journal of experimental biology*, 51, 944–953.
- Vichasilp, C., Nakagawa, K., Sookwong, P., Suzuki, Y., Kimura, F., Higuchi, O., and Miyazawa, T. (2009), “Optimization of 1-deoxynojirimycin extraction from mulberry leaves by using response surface methodology,” *Bioscience, biotechnology, and biochemistry*, 73, 2684–2689.
- Vikbjerg, A. F., Mu, H., and Xu, X. (2005), “Parameters affecting incorporation and by-product formation during the production of structured phospholipids by lipase-catalyzed acidolysis in solvent-free system,” *Journal of Molecular Catalysis B: Enzymatic*, 36, 14–21.
- (2006), “Elucidation of acyl migration during lipase-catalyzed production of structured phospholipids,” *Journal of the American Oil Chemists’ Society*, 83, 609–614.
- Wang, X., Huang, L., Kang, Z., Buchenauer, H., and Gao, X. (2010), “Optimization of the fermentation process of actinomycete strain Hhs. 015 T,” *BioMed Research International*, 2010.

- Wu, H., Liu, Y., Zhang, J., and Li, G. (2014), “In situ reactive extraction of cottonseeds with methyl acetate for biodiesel production using magnetic solid acid catalysts,” *Bioresource technology*, 174, 182–189.
- Wu, Y., Baek, H., Gerard, P. D., and Cadwallader, K. (2000), “Development of a meat-like process flavoring from soybean-based enzyme-hydrolyzed vegetable protein (E-HVP),” *JOURNAL OF FOOD SCIENCE-CHICAGO*, 65, 1220–1227.
- Wu, Y.-R. and Nian, D.-L. (2014), “Production optimization and molecular structure characterization of a newly isolated novel laccase from *Fusarium solani* MAS2, an anthracene-degrading fungus,” *International Biodeterioration & Biodegradation*, 86, 382–389.
- Xu, X., Skands, A. R., Adler-Nissen, J., and Høy, C.-E. (1998), “Production of specific structured lipids by enzymatic interesterification: optimization of the reaction by response surface design,” *Lipid/Fett*, 100, 463–471.
- Xu, Z., L, B., Wu, J., Zhou, L., and Lan, Y. (2013), “Reduction of Cr (VI) facilitated by biogenetic jarosite and analysis of its influencing factors with response surface methodology,” *Materials Science and Engineering: C*, 33, 3723–3729.
- Yang, J.-I., Liang, W.-S., Chow, C.-J., and Siebert, K. J. (2009), “Process for the production of tilapia retorted skin gelatin hydrolysates with optimized antioxidative properties,” *Process Biochemistry*, 44, 1152–1157.
- Ye, L., Yang, M., Xu, L., Guo, C., Li, L., and Wang, D. (2014), “Optimization of inductive angle sensor using response surface methodology and finite element method,” *Measurement*, 48, 252–262.
- Yin, P., Chen, L., Wang, Z., Qu, R., Liu, X., and Ren, S. (2012), “Production of biodiesel by esterification of oleic acid with ethanol over organophosphonic acid-functionalized silica,” *Bioresource technology*, 110, 258–263.
- Yin, X., You, Q., and Jiang, Z. (2011), “Optimization of enzyme assisted extraction of polysaccharides from *Tricholoma matsutake* by response surface methodology,” *Carbohydrate Polymers*, 86, 1358–1364.
- YÖNTEN, V. (2013), “DETECTING OPTIMUM AND COST-EFFICIENT OF MICROBIAL GROWTH RATE AND LACTOSE CONSUMPTION OF *KLUYVEROMYCES LACTIS* Y-8279 USING RSM,” *Digest Journal of Nanomaterials & Biostructures (DJNB)*, 8.
- Yu, L., Sun, J., Liu, S., Bi, J., Zhang, C., and Yang, Q. (2012), “Ultrasonic-assisted enzymolysis to improve the antioxidant activities of peanut (*Arachin conarachin* L.) antioxidant hydrolysate,” *International journal of molecular sciences*, 13, 9051–9068.
- Yu, P. and Chen, H. (2014), “Optimization of Conditions for Enzymatic Production of Collagen Hydrolysates from a Low-Value *Acaudina molpadioides* and Their Activities,” *Journal of Food Biochemistry*, 38, 227–235.
- Zhang, H., Zhang, B., Zheng, Y., Shan, A., and Cheng, B. (2014a), “Neutral protease expression and optimized conditions for the degradation of blood cells using recombinant *Pichia pastoris*,” *International Biodeterioration & Biodegradation*, 93, 235–240.
- Zhang, L., Hellgren, L. I., and Xu, X. (2006), “Enzymatic production of ceramide from sphingomyelin,” *Journal of biotechnology*, 123, 93–105.
- Zhang, Y. P., Zhang, Y. J., Gong, W. J., Gopalan, A. I., and Lee, K.-P. (2005), “Rapid separation of Sudan dyes by reverse-phase high performance liquid chromatography through statistically designed experiments,” *Journal of Chromatography A*, 1098, 183–187.
- Zhang, Z., Wang, X., Zhao, M., and Qi, H. (2014b), “O-acetylation of low-molecular-weight polysaccharide from *Enteromorpha linza* with antioxidant activity,” *International journal of biological macromolecules*, 69, 39–45.



- Zheng, Y., Wu, X.-M., Branford-White, C., Quan, J., and Zhu, L.-M. (2009), “Dual response surface-optimized process for feruloylated diacylglycerols by selective lipase-catalyzed transesterification in solvent free system,” *Bioresource technology*, 100, 2896–2901.
- Zhou, T., Li, B., Peng, C., Ji, B.-P., Chen, G., and Ren, Y.-L. (2009), “Assessment of the sequential simulated gastrointestinal tolerance of lactic acid bacteria from kefir grains by response surface methodology,” *Journal of food science*, 74, M328–M334.
- Zhou, X.-J., Guo, W.-Q., Yang, S.-S., and Ren, N.-Q. (2012), “A rapid and low energy consumption method to decolorize the high concentration triphenylmethane dye wastewater: Operational parameters optimization for the ultrasonic-assisted ozone oxidation process,” *Bioresource technology*, 105, 40–47.
- Zhu, Y., Lee, Y., and Elander, R. T. (2007), “Conversion of aqueous ammonia-treated corn stover to lactic acid by simultaneous saccharification and cofermentation,” *Applied biochemistry and biotechnology*, 137, 721–738.