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Edwin N. Frankel Award for Best Paper in Lipid Oxidation and Quality

Recognizes an outstanding paper in the area of lipid oxidation or quality published during the past year in AOCS Press publications. This award is presented by the Lipid Oxidation and Quality Division in recognition of Edwin Frankel's 50 years of lipid oxidation research. Sponsored by Kalsec.

<u>Year</u>	<u>Title, Authors, Journal, Volume, Issue, Page Numbers</u>
2022	“Quantitative Evaluation of Oxidative Stability of Biomembrane Lipids in the Presence of Vitamin E”, Atsushi Takahashi, Ryota Takahashi, Kousuke Hiromori, and Naomi Shibasaki-Kitakawa (<i>JAOCS</i> 98(5):567-579).
2021	“Formation Kinetics of Monomeric Cyclic Fatty Acid Methyl Esters of Alpha-Linolenic Acid: Effects of Mono cis/trans Isomers,” Amélie Desmarais, Jean-Louis Sébédio, Khaled Belkacemi, Joseph Arul, and Paul Angers (<i>JAOCS</i> 97(6):615-624).
2020	“The Furan Fatty Acid 9M5 Acts as a Partial Ligand to Peroxisome Proliferator-Activated Receptor gamma and Enhances Adipogenesis in 3T3-L1 Preadipocytes,” J. Lauvai, A.K. Becker, K. Lehnert, M. Schumacher, B. Hieronimus, W. Vetter and L. Graeve (<i>Lipids</i> 54(5):277-288).
2019	“Iron-Catalyzed Reaction of γ -Tocopherol with Methyl Linoleate Hydroperoxides in Solutions,” R.Yamauchi, T. Kinoshita and S. Iwamoto (<i>JAOCS</i> 95(3): 361–369).
2018	“Application of Differential Pulse Voltammetry to Determine the Efficiency of Stripping Tocopherols from Commercial Fish Oil,” R.A. Lubeckyj, J.K. Winkler-Moser, and M.J. Fhaner (<i>JAOCS</i> 94(4):527-536).
2017	“Kinetic Analysis of Co-oxidation of Biomembrane Lipids Induced by Water-Soluble Radicals,” A. Takahashi, N. Shibasaki-Kitakawa, T. Noda, Y. Sukegawa, Y. Kimura, and T. Yonemoto (<i>JAOCS</i> 93(6): 803–811).
2016	“New Analytical Evidence of Discontinuous Oxidation in Dried Microencapsulated Lipids,” A. Morales, S. Marmesat, M.V. Ruiz-Méndez, G. Márquez-Ruiz, and J. Velasco (<i>JAOCS</i> 92(11-12):1601–1607).
2015	“Impact of Free Fatty Acids and Phospholipids on Reverse Micelles Formation and Lipid Oxidation in Bulk Oil,” K. Kittipongpittaya, A. Panya, D. J. McClements, and E. A. Decker (<i>JAOCS</i> 91(3):453-462).
2014	“Comparison of Antioxidant Capacities of Rosmarinate Alkyl Esters in Riboflavin Photosensitized Oil-in-Water Emulsions,” J.H. Lee, A. Panya, M. Laguerre, C. Bayrasy, J. Lecomte, P. Villeneuve, and E.A. Decker (<i>JAOCS</i> 90(2):225–232).

- 2013 "A Kinetic Model Describing Antioxidation and Prooxidation of β -Carotene in the Presence of α -Tocopherol and Ascorbic Acid," N. Shibasaki-Kitakawa, M. Murakami, M. Kubo, and T. Yonemoto (*JAOCs* 89(5):815–824).
- 2012 "The Efficacy of Compounds with Different Polarities as Antioxidants in Emulsions with Omega-3 Lipids," A.-D. M. Sørensen, N.S. Nielsen, E.A. Decker, M.B. Let, X. Xu, and C. Jacobsen (*JAOCs* 88(4):489–502).
- 2011 "Antioxidant Activity of Potato Peel Extracts in a Fish-Rapeseed Oil Mixture and in Oil-in-Water Emulsions," K.H. Sebeena Farvin, N.S. Nielsen, and C. Jacobsen (*JAOCs* 87(11):1319–1332).
- 2010 "Kinetic Study of the Prooxidant Effect of α -Tocopherol. Hydrogen Abstraction from Lipids by α -Tocopheroxyl Radical," A. Ouchi, M. Ishikura, K. Konishi, S.-I. Nagaoka, and K. Mukai (*Lipids* 44(10):935–943).
- 2009 "Autoxidation of Conjugated Linoleic Acid Methyl Ester in the Presence of α -Tocopherol: The Hydroperoxide Pathway," T. Pajunen, M. Johansson, T. Hase, and A. Hopia (*Lipids* 43(7):599–610).
- 2008 "The Location of Phenolic Antioxidants and Radicals at Interfaces Determines Their Activity," A. Heins, D.B. McPhail, T. Sokolowski, H. Stöckmann, and K. Schwarz (*Lipids* 42(6):573–582).
- 2007 "Antioxidant Activity of Rapeseed Phenolics and Their Interactions with Tocopherols During Lipid Oxidation," U. Thiyam, H. Stöckmann, and K. Schwarz (*JAOCs* 83(6):523–528).
- 2006 "Linalyl Oleate as a Frying Oil Autoxidation Inhibitor," B. Onal-Ulusoy, E. Hammond, and P. White (*JAOCs* 82(6):433–438).
- 2005 "Oxidation Kinetics of β -Carotene in Oleic Acid Solvent with Addition of an Antioxidant, α -Tocopherol," N. Shibasaki-Kitakawa, H. Kato, A. Takahashi, and T. Yonemoto (*JAOCs* 81(4):389–394).
- 2004 "An Experimental Approach to Structure-Activity Relationships of Caffeic and Dihydrocaffeic Acids and Related Monophenols," N. Nenadis, S. Boyle, E. Bakalbassis, and M. Tsimidou (*JAOCs* 80(5):451–458).
- 2003 "Effect of Droplet Size on Lipid Oxidation Rates of Oil-in-Water Emulsions Stabilized by Protein," L. Lethuaut, F. Métro, and C. Genot (*JAOCs* 79(5):425–430).
- 2002 "Formation of Cleavage Products by Autoxidation of Lycopene," S.-J. Kim, E. Nara, H. Kobayashi, J. Terao, and A. Nagao (*Lipids* 39(2):191–199).

- 2001 "The Effects of Roasting Temperature on the Formation of Headspace Volatile Compounds in Perilla Seed Oil," S.J. Kim, H.N. Yoon, and J.S. Rhee (*JAOCS* 77(4):451–456).
- 2000 "Kinetic Model for Autoxidation of β -Carotene in Organic Solutions," T. Yonemoto, A. Takahashi, and N. Shibasaki (*JAOCS* 76(8):897–903).
- 1999 "Effects of α - and γ -Tocopherols on the Autooxidation of Purified Sunflower Triacylglycerols," A-M. Lampi, M.D. Fuster, A. Hopia, and A. Kamal-Eldin (*Lipids* 33(7):715–722).
- 1998 "Photo-Initiated Peroxidation of Lipids in Micelles by Azaaromatics in Lipids," C. Edwards, E. Crowe, and R. Barclay (*Lipids* 32(3):237–245).