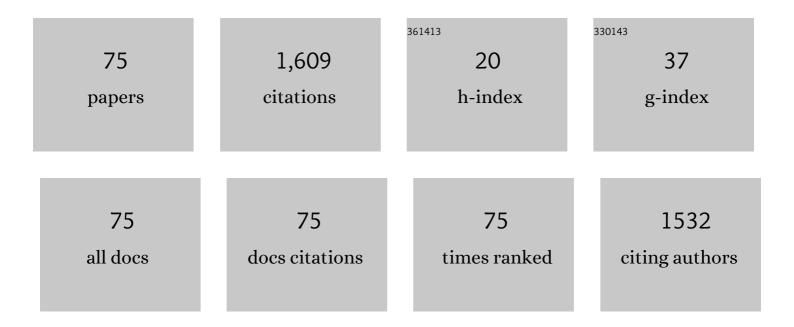
Richard D Ludescher

List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Fluorescence quenching study of resveratrol binding to zein and gliadin: Towards a more rational approach to resveratrol encapsulation using water-insoluble proteins. Food Chemistry, 2015, 185, 261-267. | 8.2 | 262 |
| 2 | Theory and applications of fluorescence spectroscopy in food research. Trends in Food Science and Technology, 1995, 6, 69-75. | 15.1 | 89 |
| 3 | Temperature- and Surfactant-Induced Membrane Modifications That Alter Listeria monocytogenes Nisin Sensitivity by Different Mechanisms. Applied and Environmental Microbiology, 2002, 68, 5904-5910. | 3.1 | 71 |
| 4 | Mean DNA Bend Angle and Distribution of DNA Bend Angles in the CAP-DNA Complex in Solution. Journal of Molecular Biology, 2001, 312, 453-468. | 4.2 | 55 |
| 5 | Complex photophysics of the single tryptophan of porcine pancreatic phospholipase A2, its zymogen, and an enzyme/micelle complex. Biochemistry, 1985, 24, 7240-7249. | 2.5 | 52 |
| 6 | Erythrosin B Phosphorescence Monitors Molecular Mobility and Dynamic Site Heterogeneity in Amorphous Sucrose. Biophysical Journal, 2005, 88, 3551-3561. | 0.5 | 50 |
| 7 | Microsecond rotational dynamics of phosphorescent-labeled muscle cross-bridges. Biochemistry, 1988, 27, 3343-3351. | 2.5 | 47 |
| 8 | Influence of glycerol on the molecular mobility, oxygen permeability and microstructure of amorphous zein films. Food Hydrocolloids, 2015, 44, 94-100. | 10.7 | 47 |
| 9 | Erythrosin B phosphorescence as a probe of oxygen diffusion in amorphous gelatin films. Food Hydrocolloids, 2004, 18, 621-630. | 10.7 | 46 |
| 10 | Molecular mobility in water and glycerol plasticized cold- and hot-cast gelatin films. Food Hydrocolloids, 2006, 20, 96-105. | 10.7 | 43 |
| 11 | Time-resolved rotational dynamics of phosphorescent-labeled myosin heads in contracting muscle fibers. Biochemistry, 1990, 29, 10023-10031. | 2.5 | 40 |
| 12 | Processing Stability of Squalene in Amaranth and Antioxidant Potential of Amaranth Extract. Journal of Agricultural and Food Chemistry, 2008, 56, 10675-10678. | 5.2 | 39 |
| 13 | Rotational dynamics of the single tryptophan of porcine pancreatic phospholipase A2, its zymogen, and an enzyme/micelle complex. A steady-state and time-resolved anisotropy study. Biochemistry, 1988, 27, 6618-6628. | 2.5 | 34 |
| 14 | Molecular mobility and the glass transition in amorphous glucose, maltose, and maltotriose. Carbohydrate Research, 2005, 340, 2654-2660. | 2.3 | 31 |
| 15 | Preparation and characterization of zein thermo-modified starch films. Carbohydrate Polymers, 2017, 157, 1254-1260. | 10.2 | 31 |
| 16 | Effects of glycerol on the molecular mobility and hydrogen bond network in starch matrix. Carbohydrate Polymers, 2015, 115, 401-407. | 10.2 | 30 |
| 17 | Effect of plasticizer on dynamic site heterogeneity in cold-cast gelatin films. Food Hydrocolloids, 2006, 20, 88-95. | 10.7 | 29 |
| 18 | INFLUENCE OF HYDRATION ON THE INTERNAL DYNAMICS OF HEN EGG WHITE LYSOZYME IN THE DRY STATE. Photochemistry and Photobiology, 1993, 58, 169-174. | 2.5 | 26 |

RICHARD D LUDESCHER

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|----|--|------|-----------|
| 19 | Molecular Mobility in Amorphous Maltose and Maltitol from Phosphorescence of Erythrosin B. Journal of Physical Chemistry B, 2005, 109, 16119-16126. | 2.6 | 22 |
| 20 | Assessment of Oral Bioavailability and Biotransformation of Emulsified Nobiletin Using <i>In Vitro</i> and <i>In Vivo</i> Models. Journal of Agricultural and Food Chemistry, 2020, 68, 11412-11420. | 5.2 | 22 |
| 21 | Influence of Tightly Bound Mg2+and Ca2+, Nucleotides, and Phalloidin on the Microsecond Torsional Flexibility of F-Actinâ€. Biochemistry, 1998, 37, 14529-14538. | 2.5 | 21 |
| 22 | Differential Mobility of Skeletal and Cardiac Tropomyosin on the Surface of F-Actinâ€. Biochemistry, 1999, 38, 9286-9294. | 2.5 | 21 |
| 23 | Phosphorescence Probes of the Glassy State in Amorphous Sucrose. Biotechnology Progress, 1995, 11, 540-544. | 2.6 | 20 |
| 24 | Syntheses of optically efficient (La1â´`xâ^'yCexTby)F3 nanocrystals via a hydrothermal method. Journal of Luminescence, 2010, 130, 1076-1084. | 3.1 | 20 |
| 25 | Monitoring Molecular Oxygen Depletion in Wheat Flour Dough Using Erythrosin B Phosphorescence: A Biophysical Approach. Food Biophysics, 2012, 7, 138-144. | 3.0 | 20 |
| 26 | Fluorescence Spectroscopy as a Tool to Unravel the Dynamics of Protein Nanoparticle Formation by Liquid Antisolvent Precipitation. Food Biophysics, 2017, 12, 211-221. | 3.0 | 20 |
| 27 | Room Temperature Phosphorescence from Tryptophan and Halogenated Tryptophan Analogs in Amorphous Sucrose. Photochemistry and Photobiology, 1999, 70, 166-171. | 2.5 | 18 |
| 28 | Native Fluorescence from Juvenile Stages of Common Food Storage Insects. Journal of Agricultural and Food Chemistry, 2003, 51, 544-549. | 5.2 | 18 |
| 29 | Dynamic site heterogeneity in amorphous maltose and maltitol from spectral heterogeneity in erythrosin B phosphorescence. Carbohydrate Research, 2005, 340, 2661-2669. | 2.3 | 17 |
| 30 | The effect of sodium chloride on molecular mobility in amorphous sucrose detected by phosphorescence from the triplet probe erythrosin B. Carbohydrate Research, 2008, 343, 350-363. | 2.3 | 17 |
| 31 | Microsecond Rotational Dynamics of F-Actin in ActoS1 Filaments during ATP Hydrolysis. Biochemistry, 1994, 33, 9098-9104. | 2.5 | 16 |
| 32 | Molecular mobility and oxygen permeability in amorphous β-lactoglobulin films. Food Hydrocolloids, 2008, 22, 403-413. | 10.7 | 16 |
| 33 | Antioxidants Modulate Molecular Mobility, Oxygen Permeability, and Microstructure in Zein Films. Journal of Agricultural and Food Chemistry, 2011, 59, 13173-13180. | 5.2 | 16 |
| 34 | Molecular Mobility and Oxygen Permeability in Amorphous Bovine Serum Albumin Films. Food Biophysics, 2006, 1, 151-162. | 3.0 | 15 |
| 35 | The Effect of Molecular Size on Molecular Mobility in Amorphous Oligosaccharides. Food Biophysics, 2010, 5, 82-93. | 3.0 | 15 |
| 36 | Effect of additives on physicochemical properties in amorphous starch matrices. Food Chemistry, 2015, 171, 298-305. | 8.2 | 14 |

RICHARD D LUDESCHER

| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 37 | Effect of bolus viscosity on carbohydrate digestion and glucose absorption processes: An <i>in vitro</i> study. Physics of Fluids, 2019, 31, . | 4.0 | 14 |
| 38 | Effect of Encapsulation Process on Technological Functionality and Stability of Spirulina Platensis Extract. Food Biophysics, 2020, 15, 50-63. | 3.0 | 14 |
| 39 | Phosphorescence of Erythrosin B as a Robust Probe of Molecular Mobility in Amorphous Solid Sucrose. Applied Spectroscopy, 2006, 60, 813-819. | 2.2 | 13 |
| 40 | CHARACTERIZATION OF SKELETAL MUSCLE ACTIN LABELED WITH THE TRIPLET PROBE ERYTHROSIN-5-IODOACETAMIDE. Photochemistry and Photobiology, 1993, 58, 858-866. | 2.5 | 12 |
| 41 | Molecular mobility and dynamic site heterogeneity in amorphous lactose and lactitol from erythrosin B phosphorescence. Biophysical Chemistry, 2006, 123, 122-133. | 2.8 | 12 |
| 42 | The effect of salts on molecular mobility in amorphous sucrose monitored by erythrosin B phosphorescence. Carbohydrate Research, 2008, 343, 2641-2649. | 2.3 | 11 |
| 43 | Total Phenolics and Antioxidant Capacity of Cocoa Pulp: Processing and Storage Study. Journal of Food Processing and Preservation, 2017, 41, e13029. | 2.0 | 11 |
| 44 | Potential applications of luminescent molecular rotors in food science and engineering. Critical Reviews in Food Science and Nutrition, 2018, 58, 1902-1916. | 10.3 | 11 |
| 45 | The Effect of Glycerol on Molecular Mobility in Amorphous Sucrose Detected by Phosphorescence of Erythrosin B. Food Biophysics, 2007, 2, 133-145. | 3.0 | 10 |
| 46 | Effect of gelatin on molecular mobility in amorphous sucrose detected by erythrosin B phosphorescence. Carbohydrate Research, 2008, 343, 2657-2666. | 2.3 | 10 |
| 47 | Identifying and selecting edible luminescent probes as sensors of food quality. AIMS Biophysics, 2016, 3, 319-339. | 0.6 | 10 |
| 48 | Tryptophan fluorescence quenching in rabbit skeletal myosin rod. Biophysical Chemistry, 1993, 48, 49-59. | 2.8 | 9 |
| 49 | Differential Dynamic Behavior of Actin Filaments Containing Tightly-Bound Ca2+or Mg2+in the Presence of Myosin Heads Actively Hydrolyzing ATPâ€. Biochemistry, 1999, 38, 13288-13295. | 2.5 | 9 |
| 50 | Effect of Xanthan on the Molecular Mobility of Amorphous Sucrose Detected by Erythrosin B Phosphorescence. Journal of Agricultural and Food Chemistry, 2009, 57, 709-716. | 5.2 | 9 |
| 51 | Photophysical Probes of the Amorphous Solid State of Proteins. Food Biophysics, 2010, 5, 337-345. | 3.0 | 9 |
| 52 | Degradation kinetics of C-Phycocyanin under isothermal and dynamic thermal treatments. Food Chemistry, 2022, 382, 132266. | 8.2 | 9 |
| 53 | Tryptophan photophysics in rabbit skeletal myosin rod. Biophysical Chemistry, 1994, 49, 113-126. | 2.8 | 8 |
| 54 | STEADY-STATE OPTICAL POLARIZATION ANISOTROPY OF RODLIKE MOLECULES UNDERGOING TORSIONAL TWISTING MOTIONS. Photochemistry and Photobiology, 1993, 58, 881-883. | 2.5 | 7 |

RICHARD D LUDESCHER

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|----|--|------|-----------|
| 55 | Molecular mobility in a homologous series of amorphous solid glucose oligomers. Food Chemistry, 2012, 132, 1814-1821. | 8.2 | 7 |
| 56 | Making sense of luminescence from GRAS optical probes. Current Opinion in Food Science, 2015, 4, 25-31. | 8.0 | 7 |
| 57 | Standard reference for instrument response function in fluorescence lifetime measurements in visible and near infrared. Measurement Science and Technology, 2016, 27, 027001. | 2.6 | 7 |
| 58 | Vanillin Phosphorescence as a Probe of Molecular Mobility in Amorphous Sucrose. Journal of Fluorescence, 2010, 20, 125-133. | 2.5 | 6 |
| 59 | Effect of Starch on the Molecular Mobility of Amorphous Sucrose. Journal of Agricultural and Food Chemistry, 2011, 59, 3340-3347. | 5.2 | 6 |
| 60 | Tryptophan Fluorescence Yields and Lifetimes as a Probe of Conformational Changes in Human Glucokinase. Journal of Fluorescence, 2017, 27, 1621-1631. | 2.5 | 6 |
| 61 | Influence of glycerol on molecular mobility and hydrogen bond network in amorphous glucose matrix. Carbohydrate Research, 2012, 361, 120-126. | 2.3 | 5 |
| 62 | Revisiting Time-Resolved Protein Phosphorescence. Applied Spectroscopy, 2015, 69, 1074-1081. | 2.2 | 4 |
| 63 | Potential Use of Food Synthetic Colors as Intrinsic Luminescent Probes of the Physical State of Foods. ACS Symposium Series, 2015, , 253-267. | 0.5 | 4 |
| 64 | Molecular dynamics of food proteins: experimental techniques and observations. Trends in Food Science and Technology, 1990, 1, 145-149. | 15.1 | 3 |
| 65 | Effect of temperature on molecular mobility, oxygen permeability, and dynamic site heterogeneity in amorphous α-lactalbumin films. Food Hydrocolloids, 2013, 31, 357-364. | 10.7 | 3 |
| 66 | Influence of antioxidant structure on local molecular mobility in amorphous sucrose. Carbohydrate Research, 2014, 383, 14-20. | 2.3 | 3 |
| 67 | <title>Quenching of tryptophan fluorescence in skeletal myosin rod</title> . , 1992, , . | | 2 |
| 68 | Phosphorescence from tryptophan and tryptophan analogs in the solid state. , 1998, , . | | 2 |
| 69 | Solvent-Slaved Dynamic Processes Observed by Tryptophan Phosphorescence of Human Serum Albumin. Biophysical Journal, 2017, 112, 881-891. | 0.5 | 2 |
| 70 | Luminescence Spectroscopy – a Useful Tool in Real-Time Monitoring of Viscosity during In-Vitro Digestion. Food Biophysics, 2021, 16, 181-190. | 3.0 | 2 |
| 71 | Analysis of the Conformational Stability of the Active Domain of Recombinant Mouse TIMP-1 by Intrinsic Fluorescence. Biochemical and Biophysical Research Communications, 1998, 242, 303-309. | 2.1 | 1 |
| 72 | Molecular Mobility in Amorphous Sucrose Films Monitored by Riboflavin Phosphorescence - Potential Applications in Edible/Biodegradable Films. Biophysical Journal, 2015, 108, 621a. | 0.5 | 1 |

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| 73 | <title>Temperature dependence of tryptophan photophysics in rabbit skeletal myosin rod</title> . , 1994, , . | | 0 |
| 74 | Phosphorescence Spectroscopy as a Probe of the Glassy State in Amorphous Solids. , 2003, , . | | 0 |
| 75 | Temperature-dependence of riboflavin phosphorescence in cryosolvents. Food Chemistry, 2022, 376, 131928. | 8.2 | 0 |