

Krystyna Prochaska

List of Publications by Year in descending order

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80
papers

1,462
citations

318942

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445137

33
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81
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docs citations

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times ranked

1498
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Immobilization of lipase in Langmuir-Blodgett film of cubic silsesquioxane on the surface of zirconium dioxide. <i>Applied Surface Science</i> , 2022, 573, 151184. | 3.1 | 3 |
| 2 | Concentration-Dependent Effect of the Steroid Drug Prednisolone on a Lung Surfactant Monolayer. <i>Langmuir</i> , 2022, 38, 4188-4199. | 1.6 | 6 |
| 3 | Dextrins as Green and Biodegradable Modifiers of Physicochemical Properties of Cement Composites. <i>Energies</i> , 2022, 15, 4115. | 1.6 | 4 |
| 4 | Effective separation of bio-based alpha-ketoglutaric acid from post-fermentation broth using bipolar membrane electrodialysis (EDBM) and fouling analysis. <i>Biochemical Engineering Journal</i> , 2021, 166, 107883. | 1.8 | 12 |
| 5 | Langmuir Monolayer Techniques for the Investigation of Model Bacterial Membranes and Antibiotic Biodegradation Mechanisms. <i>Membranes</i> , 2021, 11, 707. | 1.4 | 24 |
| 6 | Implementation of forward osmosis to concentrate alpha-ketoglutaric acid from fermentation broth: Performance and fouling analysis. <i>Journal of Membrane Science</i> , 2021, 637, 119593. | 4.1 | 5 |
| 7 | Recovery of alpha-ketoglutaric acid from model fermentation broth using electrodialysis with bipolar membrane. <i>Separation Science and Technology</i> , 2020, 55, 165-175. | 1.3 | 5 |
| 8 | Thermodynamic, viscoelastic and electrical properties of lipid membranes in the presence of astaxanthin. <i>Biophysical Chemistry</i> , 2020, 258, 106318. | 1.5 | 11 |
| 9 | Lipid-Protein Interactions in Langmuir Monolayers under Dynamically Varied Conditions. <i>Journal of Physical Chemistry B</i> , 2020, 124, 302-311. | 1.2 | 12 |
| 10 | Downstream separation and purification of bio-based alpha-ketoglutaric acid from post-fermentation broth using a multi-stage membrane process. <i>Process Biochemistry</i> , 2020, 96, 38-48. | 1.8 | 8 |
| 11 | Combined Effect of Nitrofurantoin and Plant Surfactant on Bacteria Phospholipid Membrane. <i>Molecules</i> , 2020, 25, 2527. | 1.7 | 8 |
| 12 | Impact of storage at room temperature on the properties of CiP solutions. <i>Journal of the Institute of Brewing</i> , 2019, 125, 374-382. | 0.8 | 1 |
| 13 | Langmuir-Blodgett films of membrane lipid in the presence of hybrid silsesquioxane, a promising component of biomaterials. <i>Materials Science and Engineering C</i> , 2019, 105, 110090. | 3.8 | 6 |
| 14 | Assessment of the Total Volume Membrane Charge Density through Mathematical Modeling for Separation of Succinic Acid Aqueous Solutions on Ceramic Nanofiltration Membrane. <i>Processes</i> , 2019, 7, 559. | 1.3 | 5 |
| 15 | Temperature, pH, and Molecular Packing Effects on the Penetration of Oleic Acid Monolayer by β -Lactalbumin. <i>Langmuir</i> , 2019, 35, 3183-3193. | 1.6 | 7 |
| 16 | Nanofiltration separation of succinic acid from post-fermentation broth: Impact of process conditions and fouling analysis. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 77, 253-261. | 2.9 | 23 |
| 17 | Hydrophobic ultrathin films formed by fluorofunctional cage silsesquioxanes. <i>Applied Surface Science</i> , 2018, 443, 280-290. | 3.1 | 10 |
| 18 | Preparation and characterisation of monolayers and Langmuir-Blodgett films of liquid crystal mixed with cubic silsesquioxanes. <i>Liquid Crystals</i> , 2018, 45, 351-361. | 0.9 | 5 |

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|----|--|-----|-----------|
| 19 | Detailed characterization of POSS-poly(ethylene glycol) interaction with model phospholipid membrane at the air/water interface. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 171, 167-175. | 2.5 | 3 |
| 20 | Application Tests of New Wetting Compositions for Wildland Firefighting. <i>Fire Technology</i> , 2017, 53, 1379-1398. | 1.5 | 18 |
| 21 | Alpha-ketoglutaric acid production using electro dialysis with bipolar membrane. <i>Journal of Membrane Science</i> , 2017, 536, 37-43. | 4.1 | 59 |
| 22 | Separation and concentration of succinic acid from post-fermentation broth by bipolar membrane electro dialysis (EDBM). <i>Separation and Purification Technology</i> , 2017, 181, 53-59. | 3.9 | 60 |
| 23 | Experimental study on surface activity of surfactants on their ability to cleaning oil contaminations. <i>Journal of Cleaner Production</i> , 2017, 144, 437-447. | 4.6 | 16 |
| 24 | Surface properties and morphology of mixed POSS-DPPC monolayers at the air/water interface. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 150, 334-343. | 2.5 | 22 |
| 25 | Synthesis of an Openâ€Cage Structure POSS Containing Various Functional Groups and Their Effect on the Formation and Properties of Langmuir Monolayers. <i>Chemistry - A European Journal</i> , 2016, 22, 13275-13286. | 1.7 | 23 |
| 26 | Interaction of polyhedral oligomeric silsesquioxane containing epoxycyclohexyl groups with cholesterol at the air/water interface. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 140, 135-141. | 2.5 | 11 |
| 27 | Removal of fumaric acid from simulated and real fermentation broth. <i>Journal of Chemical Technology and Biotechnology</i> , 2015, 90, 432-440. | 1.6 | 5 |
| 28 | Characterization of Langmuir monolayer, Langmuirâ€Blodgett and Langmuirâ€Schaefer films formed by POSS compounds. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2015, 464, 110-120. | 2.3 | 24 |
| 29 | The effect of surface activity of pyrodextrins on their assimilability by selected strains of bacteria from genus <i>Lactobacillus</i> . <i>Starch/Staerke</i> , 2015, 67, 267-275. | 1.1 | 4 |
| 30 | Separation and Concentration of Succinic Acid from Multicomponent Aqueous Solutions by Nanofiltration Technique. <i>Polish Journal of Chemical Technology</i> , 2014, 16, 1-4. | 0.3 | 6 |
| 31 | The effect of electrolyte and temperature on adsorption properties of esterquats. <i>Fluid Phase Equilibria</i> , 2014, 364, 95-103. | 1.4 | 3 |
| 32 | Adsorption properties and biological activity of cationic mixtures containing derivatives of quaternary lysosomotropic substances. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014, 441, 890-898. | 2.3 | 6 |
| 33 | Selection of surfactants as main components of ecological wetting agent for effective extinguishing of forest and peat-bog fires. <i>Chemical Papers</i> , 2014, 68, . | 1.0 | 11 |
| 34 | Fumaric acid separation from fermentation broth using nanofiltration (NF) and bipolar electro dialysis (EDBM). <i>Separation and Purification Technology</i> , 2014, 125, 179-186. | 3.9 | 27 |
| 35 | Interfacial Properties of Fully Condensed Functional Silsesquioxane: A Langmuir Monolayer Study. <i>Journal of Physical Chemistry C</i> , 2014, 118, 24548-24555. | 1.5 | 21 |
| 36 | Recovery of fumaric acid from fermentation broth using bipolar electro dialysis. <i>Journal of Membrane Science</i> , 2014, 469, 428-435. | 4.1 | 42 |

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|----|---|-----|-----------|
| 37 | Synthesis and properties of polysiloxanes containing mixed functional groups. <i>Reactive and Functional Polymers</i> , 2014, 83, 144-154. | 2.0 | 18 |
| 38 | Adsorption properties of biologically active derivatives of quaternary ammonium surfactants and their mixtures at aqueous/air interface II. Dynamics of adsorption, micelles dissociation and cytotoxicity of QDLS. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014, 119, 154-161. | 2.5 | 7 |
| 39 | Nanofiltration, bipolar electrodialysis and reactive extraction hybrid system for separation of fumaric acid from fermentation broth. <i>Bioresource Technology</i> , 2014, 167, 219-225. | 4.8 | 29 |
| 40 | Adsorption properties of biologically active derivatives of quaternary ammonium surfactants and their mixtures at aqueous/air interface. I. Equilibrium surface tension, surfactant aggregation and wettability. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013, 110, 387-394. | 2.5 | 8 |
| 41 | Alkyl- and fluoroalkyltrialkoxysilanes for wettability modification. <i>Applied Surface Science</i> , 2013, 283, 453-459. | 3.1 | 13 |
| 42 | Application of nanofiltration in the process of the separation of model fermentation broths components. <i>Polish Journal of Chemical Technology</i> , 2013, 15, 1-4. | 0.3 | 29 |
| 43 | Adsorption properties of binary mixtures containing quaternary derivatives of lysosomotropic substances. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2012, 413, 154-161. | 2.3 | 5 |
| 44 | Micellar Enhanced Ultrafiltration as a Method of Removal of Chromium(III) Ions from Aqueous Solutions. <i>Separation Science and Technology</i> , 2012, 47, 802-810. | 1.3 | 13 |
| 45 | Physicochemical characterisation of enzymatically hydrolysed derivatives of acetylated starch. <i>Carbohydrate Polymers</i> , 2012, 87, 1333-1341. | 5.1 | 16 |
| 46 | Starch modified by high-pressure homogenisation of the pastes – Some structural and physico-chemical aspects. <i>Food Hydrocolloids</i> , 2012, 27, 347-354. | 5.6 | 21 |
| 47 | Biodegradability of Firefighting Foams. <i>Fire Technology</i> , 2012, 48, 173-181. | 1.5 | 21 |
| 48 | Equilibrium and rate of iron(III) extraction from chloride solutions by individual hydrophobic extractants and their mixtures. <i>Polish Journal of Chemical Technology</i> , 2011, 13, 1-5. | 0.3 | 4 |
| 49 | Studies on the kinetics and equilibrium of the solvent extraction of chromium(III) from alkaline aqueous solutions of different composition in the system with Aliquat 336. <i>Journal of Hazardous Materials</i> , 2011, 198, 257-268. | 6.5 | 25 |
| 50 | The influence of types of dual modified starches on the enzymatic hydrolysis in the continuous recycle membrane reactor. <i>Desalination and Water Treatment</i> , 2010, 14, 94-100. | 1.0 | 1 |
| 51 | Kinetic and equilibrium studies of the removal of cadmium ions from acidic chloride solutions by hydrophobic pyridinecarboxamide extractants. <i>Journal of Hazardous Materials</i> , 2010, 179, 828-833. | 6.5 | 33 |
| 52 | Dynamics of adsorption in micellar and non micellar solutions of derivatives of lysosomotropic substances. <i>Advances in Colloid and Interface Science</i> , 2010, 156, 62-69. | 7.0 | 9 |
| 53 | Continuous recycle membrane reactor for enzymatic hydrolysis of dual modified potato starch. <i>Desalination and Water Treatment</i> , 2010, 14, 89-93. | 1.0 | 3 |
| 54 | Removal of metal ions from aqueous solutions by micellar enhanced ultra-filtration (MEUF). <i>Polish Journal of Chemical Technology</i> , 2010, 12, 62-65. | 0.3 | 6 |

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|----|---|-----|-----------|
| 55 | Surface properties of the derivatives of lysosomotropic substances against other quaternary ammonium salts. <i>Advances in Colloid and Interface Science</i> , 2009, 151, 49-56. | 7.0 | 10 |
| 56 | Dye-surfactant interaction in aqueous solutions. <i>Dyes and Pigments</i> , 2009, 80, 201-205. | 2.0 | 112 |
| 57 | Physicochemical properties of cross-linked and acetylated starches and products of their hydrolysis in continuous recycle membrane reactor. <i>Colloids and Surfaces B: Biointerfaces</i> , 2009, 74, 238-243. | 2.5 | 25 |
| 58 | The effect of molecular structure on the surface properties of selected quaternary ammonium salts. <i>Journal of Colloid and Interface Science</i> , 2008, 321, 220-226. | 5.0 | 28 |
| 59 | Investigation of the interaction in binary mixed extraction systems by Fourier Transform Infrared Spectroscopy (FT-IR). <i>Hydrometallurgy</i> , 2008, 90, 75-84. | 1.8 | 22 |
| 60 | Surface activity of commercial food grade modified starches. <i>Colloids and Surfaces B: Biointerfaces</i> , 2007, 60, 187-194. | 2.5 | 57 |
| 61 | Dyes separation by means of cross-flow ultrafiltration of micellar solutions. <i>Dyes and Pigments</i> , 2007, 74, 410-415. | 2.0 | 39 |
| 62 | Surface properties of enzymatic hydrolysis products of octenylsuccinate starch derivatives. <i>Food Hydrocolloids</i> , 2007, 21, 654-659. | 5.6 | 27 |
| 63 | Adsorption at the liquid/liquid interface in mixed systems with hydrophobic extractants and modifiers. <i>Journal of Colloid and Interface Science</i> , 2006, 294, 411-417. | 5.0 | 15 |
| 64 | An attempt to application of continuous recycle membrane reactor for hydrolysis of oxidised derivatives of potato starch. <i>Journal of Membrane Science</i> , 2006, 282, 14-20. | 4.1 | 20 |
| 65 | Adsorption at the liquid/liquid interface in mixed systems with hydrophobic extractants and modifiers 1. Study of equilibrium interfacial tension at the hydrocarbon/water interface in binary mixed systems. <i>Journal of Colloid and Interface Science</i> , 2005, 285, 1-8. | 5.0 | 29 |
| 66 | Interfacial activity of copper(II) complexes with chelating ligands and individual hydrophobic extractants in model extraction systems. <i>Journal of Colloid and Interface Science</i> , 2004, 280, 184-191. | 5.0 | 16 |
| 67 | INTERFACIAL COMPLEXATION OF COPPER(II) FROM CHLORIDE SYSTEMS WITH EXTRACTANT BINARY MIXTURE. <i>Solvent Extraction and Ion Exchange</i> , 2002, 20, 735-750. | 0.8 | 5 |
| 68 | Estimation of Trioctylphosphine Oxide (TOPO) Diffusion Coefficients by Dynamic Adsorption Measurements in Model Extraction Systems. <i>Journal of Colloid and Interface Science</i> , 2002, 248, 143-148. | 5.0 | 16 |
| 69 | Interfacial activity of metal ion extractant. <i>Advances in Colloid and Interface Science</i> , 2002, 95, 51-72. | 7.0 | 52 |
| 70 | Interfacial Activity of Trioctylamine in Hydrocarbon/Water Systems with Nonorganic Electrolytes. <i>Journal of Colloid and Interface Science</i> , 2001, 233, 211-218. | 5.0 | 26 |
| 71 | Properties of 4-(1-n-tridecyl)pyridine N-oxide in the extraction and polymer inclusion membrane transport of Cr(VI). <i>Analytica Chimica Acta</i> , 2001, 428, 89-101. | 2.6 | 22 |
| 72 | CO-ADSORPTION AND RATE OF EXTRACTION IN A COPPER CHLORIDE SYSTEM CONTAINING DECANOL AND HYDROPHOBIC PYRIDINE ACID DERIVATIVES. <i>Solvent Extraction and Ion Exchange</i> , 2000, 18, 479-492. | 0.8 | 9 |

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|----|--|-----|-----------|
| 73 | ADSORPTION OF EXTRACTANTS AND MODIFIERS IN MIXED BINARY MODEL SYSTEMS. Solvent Extraction and Ion Exchange, 1996, 14, 1057-1075. | 0.8 | 14 |
| 74 | STRUCTURE and PROPERTIES of ALKANAL OXIMES as COPPER EXTRACTANTS. Solvent Extraction and Ion Exchange, 1994, 12, 701-725. | 0.8 | 9 |
| 75 | Estimation of interfacial concentration of extractants from interfacial tension measurements. Journal of Chemical Technology and Biotechnology, 1994, 60, 195-202. | 1.6 | 6 |
| 76 | Adsorption of some oligo-oxyethylene amine derivatives at the toluene/water interface. Colloids and Surfaces, 1989, 38, 313-324. | 0.9 | 6 |
| 77 | The surface excess isotherms and the mechanism of copper extraction by hydroxyoximes. Journal of Colloid and Interface Science, 1988, 125, 649-666. | 5.0 | 38 |
| 78 | Interfacial activity of model 2-hydroxy-5-alkylbenzophenone oximes and their intermediates. Journal of Colloid and Interface Science, 1988, 123, 456-465. | 5.0 | 38 |
| 79 | The correlation of copper extraction rate with surface excess, as determined by the gibbs isotherm using spline functions. Journal of Colloid and Interface Science, 1987, 117, 293-295. | 5.0 | 19 |
| 80 | The surface excess and the rate of copper extraction by hydroxyoximes. Journal of Chemical Technology and Biotechnology, 1987, 40, 177-193. | 1.6 | 24 |