

# Krystyna Prochaska

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

80  
papers

1,187  
citations

21  
h-index

29  
g-index

81  
ext. papers

1,317  
ext. citations

6  
avg, IF

4.78  
L-index

#	Paper	IF	Citations
80	Dextrins as Green and Biodegradable Modifiers of Physicochemical Properties of Cement Composites. <i>Energies</i> , <b>2022</b> , 15, 4115	3.1	0
79	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> , <b>2021</b> , 166, 107883	4.2	2
78	Langmuir Monolayer Techniques for the Investigation of Model Bacterial Membranes and Antibiotic Biodegradation Mechanisms. <i>Membranes</i> , <b>2021</b> , 11,	3.8	4
77	Immobilization of lipase in Langmuir Blodgett film of cubic silsesquioxane on the surface of zirconium dioxide. <i>Applied Surface Science</i> , <b>2021</b> , 573, 151184	6.7	
76	Implementation of forward osmosis to concentrate alpha-ketoglutaric acid from fermentation broth: Performance and fouling analysis. <i>Journal of Membrane Science</i> , <b>2021</b> , 637, 119593	9.6	1
75	Downstream separation and purification of bio-based alpha-ketoglutaric acid from post-fermentation broth using a multi-stage membrane process. <i>Process Biochemistry</i> , <b>2020</b> , 96, 38-48	4.8	2
74	Combined Effect of Nitrofurantoin and Plant Surfactant on Bacteria Phospholipid Membrane. <i>Molecules</i> , <b>2020</b> , 25,	4.8	5
73	Thermodynamic, viscoelastic and electrical properties of lipid membranes in the presence of astaxanthin. <i>Biophysical Chemistry</i> , <b>2020</b> , 258, 106318	3.5	7
72	Lipid-Protein Interactions in Langmuir Monolayers under Dynamically Varied Conditions. <i>Journal of Physical Chemistry B</i> , <b>2020</b> , 124, 302-311	3.4	8
71	Recovery of alpha-ketoglutaric acid from model fermentation broth using electrodialysis with bipolar membrane. <i>Separation Science and Technology</i> , <b>2020</b> , 55, 165-175	2.5	3
70	Temperature, pH, and Molecular Packing Effects on the Penetration of Oleic Acid Monolayer by $\beta$ -Lactalbumin. <i>Langmuir</i> , <b>2019</b> , 35, 3183-3193	4	5
69	Nanofiltration separation of succinic acid from post-fermentation broth: Impact of process conditions and fouling analysis. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2019</b> , 77, 253-261	6.3	14
68	Impact of storage at room temperature on the properties of CiP solutions. <i>Journal of the Institute of Brewing</i> , <b>2019</b> , 125, 374-382	2	0
67	Langmuir-Blodgett films of membrane lipid in the presence of hybrid silsesquioxane, a promising component of biomaterials. <i>Materials Science and Engineering C</i> , <b>2019</b> , 105, 110090	8.3	3
66	Wettability of Ultrafiltration Membranes <b>2019</b> , 57-72		1
65	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> , <b>2019</b> , 7, 559	2.9	3
64	Hydrophobic ultrathin films formed by fluorofunctional cage silsesquioxanes. <i>Applied Surface Science</i> , <b>2018</b> , 443, 280-290	6.7	7

63	Preparation and characterisation of monolayers and Langmuir-Blodgett films of liquid crystal mixed with cubic silsesquioxanes. <i>Liquid Crystals</i> , <b>2018</b> , 45, 351-361	2.3	5
62	Detailed characterization of POSS-poly(ethylene glycol) interaction with model phospholipid membrane at the air/water interface. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2018</b> , 171, 167-175	6	2
61	Application Tests of New Wetting Compositions for Wildland Firefighting. <i>Fire Technology</i> , <b>2017</b> , 53, 1379-1398	3	13
60	Alpha-ketoglutaric acid production using electro dialysis with bipolar membrane. <i>Journal of Membrane Science</i> , <b>2017</b> , 536, 37-43	9.6	39
59	Separation and concentration of succinic acid from post-fermentation broth by bipolar membrane electro dialysis (EDBM). <i>Separation and Purification Technology</i> , <b>2017</b> , 181, 53-59	8.3	41
58	Experimental study on surface activity of surfactants on their ability to cleaning oil contaminations. <i>Journal of Cleaner Production</i> , <b>2017</b> , 144, 437-447	10.3	7
57	Surface properties and morphology of mixed POSS-DPPC monolayers at the air/water interface. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2017</b> , 150, 334-343	6	17
56	Interaction of polyhedral oligomeric silsesquioxane containing epoxycyclohexyl groups with cholesterol at the air/water interface. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2016</b> , 140, 135-141	6	7
55	Synthesis of an Open-Cage Structure POSS Containing Various Functional Groups and Their Effect on the Formation and Properties of Langmuir Monolayers. <i>Chemistry - A European Journal</i> , <b>2016</b> , 22, 13275-86	4.8	20
54	The effect of surface activity of pyrodextrins on their assimilability by selected strains of bacteria from genus <i>Lactobacillus</i> . <i>Starch/Staerke</i> , <b>2015</b> , 67, 267-275	2.3	4
53	Removal of fumaric acid from simulated and real fermentation broth. <i>Journal of Chemical Technology and Biotechnology</i> , <b>2015</b> , 90, 432-440	3.5	5
52	Characterization of Langmuir monolayer, Langmuir-Blodgett and Langmuir-Schaefer films formed by POSS compounds. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2015</b> , 464, 110-120	5.1	21
51	Selection of surfactants as main components of ecological wetting agent for effective extinguishing of forest and peat-bog fires. <i>Chemical Papers</i> , <b>2014</b> , 68,	1.9	8
50	Fumaric acid separation from fermentation broth using nanofiltration (NF) and bipolar electro dialysis (EDBM). <i>Separation and Purification Technology</i> , <b>2014</b> , 125, 179-186	8.3	22
49	Interfacial Properties of Fully Condensed Functional Silsesquioxane: A Langmuir Monolayer Study. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 24548-24555	3.8	19
48	Recovery of fumaric acid from fermentation broth using bipolar electro dialysis. <i>Journal of Membrane Science</i> , <b>2014</b> , 469, 428-435	9.6	35
47	Synthesis and properties of polysiloxanes containing mixed functional groups. <i>Reactive and Functional Polymers</i> , <b>2014</b> , 83, 144-154	4.6	16
46	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> , <b>2014</b> , 119, 154-61	6	5

45	Nanofiltration, bipolar electrodialysis and reactive extraction hybrid system for separation of fumaric acid from fermentation broth. <i>Bioresource Technology</i> , <b>2014</b> , 167, 219-25	11	24
44	Separation and Concentration of Succinic Acid from Multicomponent Aqueous Solutions by Nanofiltration Technique. <i>Polish Journal of Chemical Technology</i> , <b>2014</b> , 16, 1-4	1	5
43	The effect of electrolyte and temperature on adsorption properties of esterquats. <i>Fluid Phase Equilibria</i> , <b>2014</b> , 364, 95-103	2.5	3
42	Adsorption properties and biological activity of cationic mixtures containing derivatives of quaternary lysosomotropic substances. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2014</b> , 441, 890-898	5.1	6
41	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> , <b>2013</b> , 110, 387-94	6	8
40	Alkyl- and fluoroalkyltrialkoxysilanes for wettability modification. <i>Applied Surface Science</i> , <b>2013</b> , 283, 453-459	6.7	12
39	Application of nanofiltration in the process of the separation of model fermentation broths components. <i>Polish Journal of Chemical Technology</i> , <b>2013</b> , 15, 1-4	1	25
38	Biodegradability of Firefighting Foams. <i>Fire Technology</i> , <b>2012</b> , 48, 173-181	3	16
37	Adsorption properties of binary mixtures containing quaternary derivatives of lysosomotropic substances. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2012</b> , 413, 154-161	5.1	5
36	Micellar Enhanced Ultrafiltration as a Method of Removal of Chromium(III) Ions from Aqueous Solutions. <i>Separation Science and Technology</i> , <b>2012</b> , 47, 802-810	2.5	13
35	Physicochemical characterisation of enzymatically hydrolysed derivatives of acetylated starch. <i>Carbohydrate Polymers</i> , <b>2012</b> , 87, 1333-1341	10.3	13
34	Starch modified by high-pressure homogenisation of the pastes – Some structural and physico-chemical aspects. <i>Food Hydrocolloids</i> , <b>2012</b> , 27, 347-354	10.6	18
33	Equilibrium and rate of iron(III) extraction from chloride solutions by individual hydrophobic extractants and their mixtures. <i>Polish Journal of Chemical Technology</i> , <b>2011</b> , 13, 1-5	1	3
32	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> , <b>2011</b> , 198, 257-68	12.8	20
31	Continuous recycle membrane reactor for enzymatic hydrolysis of dual modified potato starch. <i>Desalination and Water Treatment</i> , <b>2010</b> , 14, 89-93		2
30	Removal of metal ions from aqueous solutions by micellar enhanced ultra-filtration (MEUF). <i>Polish Journal of Chemical Technology</i> , <b>2010</b> , 12, 62-65	1	5
29	The influence of types of dual modified starches on the enzymatic hydrolysis in the continuous recycle membrane reactor. <i>Desalination and Water Treatment</i> , <b>2010</b> , 14, 94-100		0
28	Kinetic and equilibrium studies of the removal of cadmium ions from acidic chloride solutions by hydrophobic pyridinecarboxamide extractants. <i>Journal of Hazardous Materials</i> , <b>2010</b> , 179, 828-33	12.8	26

27	Dynamics of adsorption in micellar and non micellar solutions of derivatives of lysosomotropic substances. <i>Advances in Colloid and Interface Science</i> , <b>2010</b> , 156, 62-9	14.3	9
26	Surface properties of the derivatives of lysosomotropic substances against other quaternary ammonium salts. <i>Advances in Colloid and Interface Science</i> , <b>2009</b> , 151, 49-56	14.3	10
25	Dye-surfactant interaction in aqueous solutions. <i>Dyes and Pigments</i> , <b>2009</b> , 80, 201-205	4.6	95
24	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> , <b>2009</b> , 74, 238-43	6	18
23	The effect of molecular structure on the surface properties of selected quaternary ammonium salts. <i>Journal of Colloid and Interface Science</i> , <b>2008</b> , 321, 220-6	9.3	22
22	Investigation of the interaction in binary mixed extraction systems by Fourier Transform Infrared Spectroscopy (FT-IR). <i>Hydrometallurgy</i> , <b>2008</b> , 90, 75-84	4	22
21	Surface activity of commercial food grade modified starches. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2007</b> , 60, 187-94	6	48
20	Dyes separation by means of cross-flow ultrafiltration of micellar solutions. <i>Dyes and Pigments</i> , <b>2007</b> , 74, 410-415	4.6	35
19	Surface properties of enzymatic hydrolysis products of octenylsuccinate starch derivatives. <i>Food Hydrocolloids</i> , <b>2007</b> , 21, 654-659	10.6	23
18	The surface excess and the rate of copper extraction by hydroxyoximes. <i>Journal of Chemical Technology and Biotechnology</i> , <b>2007</b> , 40, 177-193	3.5	23
17	Adsorption at the liquid/liquid interface in mixed systems with hydrophobic extractants and modifiers. 2. Dynamic interfacial tension at the hydrocarbon/water interface in binary mixed systems. <i>Journal of Colloid and Interface Science</i> , <b>2006</b> , 294, 411-7	9.3	14
16	An attempt to application of continuous recycle membrane reactor for hydrolysis of oxidised derivatives of potato starch. <i>Journal of Membrane Science</i> , <b>2006</b> , 282, 14-20	9.6	19
15	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> , <b>2005</b> , 285, 1-8	9.3	27
14	Interfacial activity of copper(II) complexes with chelating ligands and individual hydrophobic extractants in model extraction systems I. Study of equilibrium interfacial tension at the hydrocarbon/water interface for systems with copper(II) complexes with chelating ligands and individual hydrophobic extractants. <i>Journal of Colloid and Interface Science</i> , <b>2004</b> , 288, 184-91	9.3	16
13	Estimation of trioctylphosphine oxide (TOPO) diffusion coefficients by dynamic adsorption measurements in model extraction systems. <i>Journal of Colloid and Interface Science</i> , <b>2002</b> , 248, 143-8	9.3	15
12	Interfacial activity of metal ion extractant. <i>Advances in Colloid and Interface Science</i> , <b>2002</b> , 95, 51-72	14.3	50
11	INTERFACIAL COMPLEXATION OF COPPER(II) FROM CHLORIDE SYSTEMS WITH EXTRACTANT BINARY MIXTURE. <i>Solvent Extraction and Ion Exchange</i> , <b>2002</b> , 20, 735-750	2.5	4
10	Interfacial Activity of Trioctylamine in Hydrocarbon/Water Systems with Nonorganic Electrolytes. <i>Journal of Colloid and Interface Science</i> , <b>2001</b> , 233, 211-218	9.3	23

9	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> , <b>2001</b> , 428, 89-101	6.6	21
8	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> , <b>2000</b> , 18, 479-492	2.5	9
7	ADSORPTION OF EXTRACTANTS AND MODIFIERS IN MIXED BINARY MODEL SYSTEMS. <i>Solvent Extraction and Ion Exchange</i> , <b>1996</b> , 14, 1057-1075	2.5	13
6	STRUCTURE and PROPERTIES of ALKANAL OXIMES as COPPER EZTRACTANTS. <i>Solvent Extraction and Ion Exchange</i> , <b>1994</b> , 12, 701-725	2.5	8
5	Estimation of interfacial concentration of extractants from interfacial tension measurements. <i>Journal of Chemical Technology and Biotechnology</i> , <b>1994</b> , 60, 195-202	3.5	6
4	Adsorption of some oligo-oxyethylene amine derivatives at the toluene/water interface. <i>Colloids and Surfaces</i> , <b>1989</b> , 38, 313-324		6
3	The surface excess isotherms and the mechanism of copper extraction by hydroxyoximes. <i>Journal of Colloid and Interface Science</i> , <b>1988</b> , 125, 649-666	9.3	38
2	Interfacial activity of model 2-hydroxy-5-alkylbenzophenone oximes and their intermediates. <i>Journal of Colloid and Interface Science</i> , <b>1988</b> , 123, 456-465	9.3	38
1	The correlation of copper extraction rate with surface excess, as determined by the gibbs isotherm using spline functions. <i>Journal of Colloid and Interface Science</i> , <b>1987</b> , 117, 293-295	9.3	19