

Krystyna Prochaska

List of Publications by Year in descending order

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80
papers

1,462
citations

279798

23
h-index

395702

33
g-index

81
all docs

81
docs citations

81
times ranked

1360
citing authors

#	ARTICLE	IF	CITATIONS
1	Dye-surfactant interaction in aqueous solutions. <i>Dyes and Pigments</i> , 2009, 80, 201-205.	3.7	112
2	Separation and concentration of succinic acid from post-fermentation broth by bipolar membrane electrodialysis (EDBM). <i>Separation and Purification Technology</i> , 2017, 181, 53-59.	7.9	60
3	Alpha-ketoglutaric acid production using electrodialysis with bipolar membrane. <i>Journal of Membrane Science</i> , 2017, 536, 37-43.	8.2	59
4	Surface activity of commercial food grade modified starches. <i>Colloids and Surfaces B: Biointerfaces</i> , 2007, 60, 187-194.	5.0	57
5	Interfacial activity of metal ion extractant. <i>Advances in Colloid and Interface Science</i> , 2002, 95, 51-72.	14.7	52
6	Recovery of fumaric acid from fermentation broth using bipolar electrodialysis. <i>Journal of Membrane Science</i> , 2014, 469, 428-435.	8.2	42
7	Dyes separation by means of cross-flow ultrafiltration of micellar solutions. <i>Dyes and Pigments</i> , 2007, 74, 410-415.	3.7	39
8	The surface excess isotherms and the mechanism of copper extraction by hydroxyoximes. <i>Journal of Colloid and Interface Science</i> , 1988, 125, 649-666.	9.4	38
9	Interfacial activity of model 2-hydroxy-5-alkylbenzophenone oximes and their intermediates. <i>Journal of Colloid and Interface Science</i> , 1988, 123, 456-465.	9.4	38
10	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.	12.4	33
11	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.	9.4	29
12	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.	0.5	29
13	Nanofiltration, bipolar electrodialysis and reactive extraction hybrid system for separation of fumaric acid from fermentation broth. <i>Bioresource Technology</i> , 2014, 167, 219-225.	9.6	29
14	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.	9.4	28
15	Surface properties of enzymatic hydrolysis products of octenylsuccinate starch derivatives. <i>Food Hydrocolloids</i> , 2007, 21, 654-659.	10.7	27
16	Fumaric acid separation from fermentation broth using nanofiltration (NF) and bipolar electrodialysis (EDBM). <i>Separation and Purification Technology</i> , 2014, 125, 179-186.	7.9	27
17	Interfacial Activity of Trioctylamine in Hydrocarbon/Water Systems with Nonorganic Electrolytes. <i>Journal of Colloid and Interface Science</i> , 2001, 233, 211-218.	9.4	26
18	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.	5.0	25

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19	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.	12.4	25
20	The surface excess and the rate of copper extraction by hydroxyoximes. <i>Journal of Chemical Technology and Biotechnology</i> , 1987, 40, 177-193.	3.2	24
21	Characterization of Langmuir monolayer, Langmuir-Blodgett and Langmuir-Schaefer films formed by POSS compounds. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2015, 464, 110-120.	4.7	24
22	Langmuir Monolayer Techniques for the Investigation of Model Bacterial Membranes and Antibiotic Biodegradation Mechanisms. <i>Membranes</i> , 2021, 11, 707.	3.0	24
23	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> , 2016, 22, 13275-13286.	3.3	23
24	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.	5.8	23
25	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.	5.4	22
26	Investigation of the interaction in binary mixed extraction systems by Fourier Transform Infrared Spectroscopy (FT-IR). <i>Hydrometallurgy</i> , 2008, 90, 75-84.	4.3	22
27	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.	5.0	22
28	Starch modified by high-pressure homogenisation of the pastes – Some structural and physico-chemical aspects. <i>Food Hydrocolloids</i> , 2012, 27, 347-354.	10.7	21
29	Biodegradability of Firefighting Foams. <i>Fire Technology</i> , 2012, 48, 173-181.	3.0	21
30	Interfacial Properties of Fully Condensed Functional Silsesquioxane: A Langmuir Monolayer Study. <i>Journal of Physical Chemistry C</i> , 2014, 118, 24548-24555.	3.1	21
31	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.	8.2	20
32	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> , 1987, 117, 293-295.	9.4	19
33	Synthesis and properties of polysiloxanes containing mixed functional groups. <i>Reactive and Functional Polymers</i> , 2014, 83, 144-154.	4.1	18
34	Application Tests of New Wetting Compositions for Wildland Firefighting. <i>Fire Technology</i> , 2017, 53, 1379-1398.	3.0	18
35	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.	9.4	16
36	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.	9.4	16

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37	Physicochemical characterisation of enzymatically hydrolysed derivatives of acetylated starch. <i>Carbohydrate Polymers</i> , 2012, 87, 1333-1341.	10.2	16
38	Experimental study on surface activity of surfactants on their ability to cleaning oil contaminations. <i>Journal of Cleaner Production</i> , 2017, 144, 437-447.	9.3	16
39	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.	9.4	15
40	ADSORPTION OF EXTRACTANTS AND MODIFIERS IN MIXED BINARY MODEL SYSTEMS. <i>Solvent Extraction and Ion Exchange</i> , 1996, 14, 1057-1075.	2.0	14
41	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.	2.5	13
42	Alkyl- and fluoroalkyltrialkoxysilanes for wettability modification. <i>Applied Surface Science</i> , 2013, 283, 453-459.	6.1	13
43	Lipid-Protein Interactions in Langmuir Monolayers under Dynamically Varied Conditions. <i>Journal of Physical Chemistry B</i> , 2020, 124, 302-311.	2.6	12
44	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.	3.6	12
45	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, .	2.2	11
46	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.	5.0	11
47	Thermodynamic, viscoelastic and electrical properties of lipid membranes in the presence of astaxanthin. <i>Biophysical Chemistry</i> , 2020, 258, 106318.	2.8	11
48	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.	14.7	10
49	Hydrophobic ultrathin films formed by fluorofunctional cage silsesquioxanes. <i>Applied Surface Science</i> , 2018, 443, 280-290.	6.1	10
50	STRUCTURE and PROPERTIES of ALKANAL OXIMES as COPPER EXTRACTANTS. <i>Solvent Extraction and Ion Exchange</i> , 1994, 12, 701-725.	2.0	9
51	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.	2.0	9
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.	14.7	9
53	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.	5.0	8
54	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.	3.7	8

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55	Combined Effect of Nitrofurantoin and Plant Surfactant on Bacteria Phospholipid Membrane. <i>Molecules</i> , 2020, 25, 2527.	3.8	8
56	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.	5.0	7
57	Temperature, pH, and Molecular Packing Effects on the Penetration of Oleic Acid Monolayer by $\hat{\pm}$ -Lactalbumin. <i>Langmuir</i> , 2019, 35, 3183-3193.	3.5	7
58	Adsorption of some oligo-oxyethylene amine derivatives at the toluene/water interface. <i>Colloids and Surfaces</i> , 1989, 38, 313-324.	0.9	6
59	Estimation of interfacial concentration of extractants from interfacial tension measurements. <i>Journal of Chemical Technology and Biotechnology</i> , 1994, 60, 195-202.	3.2	6
60	Removal of metal ions from aqueous solutions by micellar enhanced ultra-filtration (MEUF). <i>Polish Journal of Chemical Technology</i> , 2010, 12, 62-65.	0.5	6
61	Separation and Concentration of Succinic Acid from Multicomponent Aqueous Solutions by Nanofiltration Technique. <i>Polish Journal of Chemical Technology</i> , 2014, 16, 1-4.	0.5	6
62	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.	4.7	6
63	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.	7.3	6
64	Concentration-Dependent Effect of the Steroid Drug Prednisolone on a Lung Surfactant Monolayer. <i>Langmuir</i> , 2022, 38, 4188-4199.	3.5	6
65	INTERFACIAL COMPLEXATION OF COPPER(II) FROM CHLORIDE SYSTEMS WITH EXTRACTANT BINARY MIXTURE. <i>Solvent Extraction and Ion Exchange</i> , 2002, 20, 735-750.	2.0	5
66	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.	4.7	5
67	Removal of fumaric acid from simulated and real fermentation broth. <i>Journal of Chemical Technology and Biotechnology</i> , 2015, 90, 432-440.	3.2	5
68	Preparation and characterisation of monolayers and Langmuir-Blodgett films of liquid crystal mixed with cubic silsesquioxanes. <i>Liquid Crystals</i> , 2018, 45, 351-361.	2.2	5
69	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.	2.8	5
70	Recovery of alpha-ketoglutaric acid from model fermentation broth using electrodialysis with bipolar membrane. <i>Separation Science and Technology</i> , 2020, 55, 165-175.	2.5	5
71	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.	8.2	5
72	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.	0.5	4

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73	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.	2.1	4
74	Dextrins as Green and Biodegradable Modifiers of Physicochemical Properties of Cement Composites. <i>Energies</i> , 2022, 15, 4115.	3.1	4
75	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
76	The effect of electrolyte and temperature on adsorption properties of esterquats. <i>Fluid Phase Equilibria</i> , 2014, 364, 95-103.	2.5	3
77	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.	5.0	3
78	Immobilization of lipase in Langmuir-Blodgett film of cubic silsesquioxane on the surface of zirconium dioxide. <i>Applied Surface Science</i> , 2022, 573, 151184.	6.1	3
79	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
80	Impact of storage at room temperature on the properties of CiP solutions. <i>Journal of the Institute of Brewing</i> , 2019, 125, 374-382.	2.3	1