Anna Zdziennicka

List of Publications by Year
in descending order

106	2,483	218677	243625
papers	citations	26 h-index	44 g-index

106	106	106	1822
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Determination of the Components of the Surface Tension of Some Liquids from Interfacial Liquid-Liquid Tension Measurements. Journal of Colloid and Interface Science, 1993, 157, 384-393.	9.4	172
2	Some Remarks on the Components of the Liquid Surface Free Energy. Journal of Colloid and Interface Science, 1999, 211, 96-103.	9.4	160
3	Critical micelle concentration of some surfactants and thermodynamic parameters of their micellization. Fluid Phase Equilibria, 2012, 322-323, 126-134.	2.5	113
4	Correlation between surface free energy of quartz and its wettability by aqueous solutions of nonionic, anionic and cationic surfactants. Journal of Colloid and Interface Science, 2009, 340, 243-248.	9.4	84
5	Activity and thermodynamic parameters of some surfactants adsorption at the waterâ€“air interface. Fluid Phase Equilibria, 2012, 318, 25-33.	2.5	84
6	The wettability of polytetrafluoroethylene and polymethyl methacrylate by aqueous solution of two cationic surfactants mixture. Journal of Colloid and Interface Science, 2006, 293, 172-180.	9.4	83
7	Determination of CTAB CMC in mixed water+short-chain alcohol solvent by surface tension, conductivity, density and viscosity measurements. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2013, 424, 81-88.	4.7	76
8	Some remarks on the solid surface tension determination from contact angle measurements. Applied Surface Science, 2017, 405, 88-101.	6.1	73
9	RELATIONSHIP BETWEEN WETTING OF TEFLON BY CETYLTRIMETHYLAMMONIUM BROMIDE SOLUTION AND ADSORPTION. European Polymer Journal, 1997, 33, 1093-1098.	5.4	68
10	Wettability of polytetrafluoroethylene by aqueous solutions of two anionic surfactant mixtures. Journal of Colloid and Interface Science, 2003, 268, 200-207.	9.4	67
11	Volumetric and Surface Properties of Short Chain Alcohols in Aqueous Solutionâ€“Air Systems at 293ÂK. Journal of Solution Chemistry, 2012, 41, 2226-2245.	1.2	60
12	Thermodynamic properties of rhamnolipid micellization and adsorption. Colloids and Surfaces B: Biointerfaces, 2014, 119, 22-29.	5.0	58
13	Wettability, adhesion, adsorption and interface tension in the polymer/surfactant aqueous solution system. I. Critical surface tension of polymer wetting and its surface tension. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2012, 402, 132-138.	4.7	45
14	The relationship between the adhesion work, the wettability and composition of the surface layer in the systems polymer/aqueous solution of anionic surfactants and alcohol mixtures. Applied Surface Science, 2010, 257, 1034-1042.	6.1	41
15	Components and parameters of liquids and some polymers surface tension at different temperature. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2017, 529, 864-875.	4.7	40
16	Thermodynamic parameters of some biosurfactants and surfactants adsorption at water-air interface. Journal of Molecular Liquids, 2017, 243, 236-244.	4.9	37
17	Surface tension of polytetrafluoroethylene and its wetting by aqueous solution of some surfactants and their mixtures. Applied Surface Science, 2017, 392, 117-125.	6.1	36
18	Adsorption and Aggregation Properties of Some Polysorbates at Different Temperatures. Journal of Solution Chemistry, 2018, 47, 1824-1840.	1.2	36

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19	Wettability, adhesion, adsorption and interface tension in the polymer/surfactant aqueous solution system: II. Work of adhesion and adsorption of surfactant at polymerâ€“solution and solutionâ€“air interfaces. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2012, 402, 139-145.	4.7	35
20	The properties of mixtures of two anionic surfactants in water at the waterâ^£air interface. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2003, 220, 61-68.	4.7	34
21	Modification of adsorption, aggregation and wetting properties of surfactants by short chain alcohols. Advances in Colloid and Interface Science, 2020, 284, 102249.	14.7	34
22	The properties of mixtures of two cationic surfactants in water at water/air interface. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2005, 264, 147-156.	4.7	33
23	Macroscopic and Microscopic Properties of Some Surfactants and Biosurfactants. International Journal of Molecular Sciences, 2018, 19, 1934.	4.1	33
24	Components of the surface free energy of low rank coals in the presence of n-alkanes. Powder Technology, 1996, 86, 229-238.	4.2	32
25	Correlation between wetting, adhesion and adsorption in the polymerâ€“aqueous solutions of ternary surfactant mixturesâ€“air systems. Applied Surface Science, 2014, 288, 488-496.	6.1	30
26	Effect of anionic surfactant and short-chain alcohol mixtures on adsorption at quartz/water and water/air interfaces and the wettability of quartz. Journal of Colloid and Interface Science, 2011, 354, 396-404.	9.4	27
27	Surface Behavior of Triton X-165 and Short Chain Alcohol Mixtures. Langmuir, 2010, 26, 1860-1869.	3.5	26
28	Adsorption and wetting properties of cationic, anionic and nonionic surfactants in the glass-aqueous solution of surfactant-air system. Materials Chemistry and Physics, 2015, 162, 166-176.	4.0	25
29	Wetting and adhesion properties of rhamnolipid and surfactin. International Journal of Adhesion and Adhesives, 2018, 84, 275-282.	2.9	24
30	Behavior of cationic surfactants and short chain alcohols in mixed surface layers at waterâ€“air and polymerâ€“water interfaces with regard to polymer wettability. I. Adsorption at waterâ€“air interface. Journal of Colloid and Interface Science, 2010, 349, 374-383.	9.4	23
31	Behavior of cationic surfactants and short-chain alcohols in mixed surface layers at waterâ€“air and polymerâ€“water interfaces with regard to polymer wettability. Journal of Colloid and Interface Science, 2010, 350, 568-576.	9.4	23
32	Wettability of polymers by aqueous solution of binary surfactants mixture with regard to adhesion in polymerâ€“solution system II. Critical surface tension of polymers wetting and work of adhesion. International Journal of Adhesion and Adhesives, 2013, 45, 106-111.	2.9	23
33	The adsorption of cetyltrimethylammonium bromide and propanol mixtures with regard to wettability of polytetrafluoroethylene. Journal of Colloid and Interface Science, 2008, 318, 15-22.	9.4	21
34	The wettability of polytetrafluoroethylene and polymethylmethacrylate by aqueous solutions of Triton X-100 and propanol mixtures. Applied Surface Science, 2009, 255, 3801-3810.	6.1	21
35	Thermodynamic properties of adsorption and micellization of n-oktyl-Î²-d-glucopiranoside. Colloids and Surfaces B: Biointerfaces, 2014, 114, 170-176.	5.0	21
36	Volumetric properties of rhamnolipid and surfactin at different temperatures. Journal of Molecular Liquids, 2018, 255, 562-571.	4.9	21

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37	The adsorption properties of short chain alcohols and Triton X-100 mixtures at the waterâ€“air interface. Journal of Colloid and Interface Science, 2009, 335, 175-182.	9.4	20
38	Wettability of quartz by aqueous solution of cationic surfactants and short chain alcohols mixtures. Materials Chemistry and Physics, 2010, 124, 569-574.	4.0	20
39	Properties of some nonionic fluorocarbon surfactants and their mixtures with hydrocarbon ones. Advances in Colloid and Interface Science, 2021, 292, 102421.	14.7	20
40	The wettability of polytetrafluoroethylene by aqueous solutions of sodium dodecyl sulfate and propanol mixtures. Journal of Colloid and Interface Science, 2005, 281, 465-472.	9.4	19
41	Adhesion of canola and diesel oils to some parts of diesel engine in the light of surface tension components and parameters of these substrates. International Journal of Adhesion and Adhesives, 2015, 60, 23-30.	2.9	19
42	Synthesis, spectroscopic studies, aggregation and surface behavior of hexamethylene-1,6-bis(N,N-dimethyl-N-dodecylammonium bromide). Journal of Molecular Liquids, 2016, 221, 1086-1096.	4.9	19
43	Effect of Polysorbates on Solids Wettability and Their Adsorption Properties. Colloids and Interfaces, 2018, 2, 26.	2.1	18
44	The wettability of polytetrafluoroethylene and polymethylmethacrylate with regard to interface behaviour of Triton X-165 and short chain alcohol mixtures: I. Critical surface tension of wetting and adhesion work. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2010, 367, 108-114.	4.7	16
45	Adhesion work and wettability of polytetrafluorethylene and poly(methyl methacrylate) by aqueous solutions of cetyltrimethylammonium bromide and Triton X-100 mixture with ethanol. Journal of Colloid and Interface Science, 2013, 404, 201-206.	9.4	16
46	Components and parameters of solid/surfactant layer surface tension. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2017, 522, 461-469.	4.7	16
47	Surface, Volumetric, and Wetting Properties of Oleic, Linoleic, and Linolenic Acids with Regards to Application of Canola Oil in Diesel Engines. Applied Sciences (Switzerland), 2019, 9, 3445.	2.5	16
48	Adsorption of cetyltrimethylammonium bromide and propanol mixtures with regard to wettability of polytetrafluoroethylene. I. Adsorption at aqueous solutionâ€“air interface. Journal of Colloid and Interface Science, 2008, 317, 44-53.	9.4	15
49	Adsorption and volumetric properties of Triton X-100 and propanol mixtures. Journal of Colloid and Interface Science, 2009, 336, 423-430.	9.4	15
50	Behavior of Anionic Surfactants and Short Chain Alcohols Mixtures in the Monolayer at the Waterâ€“Air Interface. Journal of Surfactants and Detergents, 2011, 14, 257-267.	2.1	15
51	Adsorption and Aggregation Activity of Sodium Dodecyl Sulfate and Rhamnolipid Mixture. Journal of Surfactants and Detergents, 2017, 20, 411-423.	2.1	15
52	Determination of the galena surface free energy components from contact angle measurements. Materials Chemistry and Physics, 1992, 31, 235-241.	4.0	14
53	Adsorption of sodium dodecyl sulphate and propanol mixtures at aqueous solutionâ€“air interface. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2004, 244, 1-7.	4.7	14
54	Wettability of quartz in presence of nonionic surfactants and short chain alcohols mixtures. Journal of Colloid and Interface Science, 2010, 343, 594-601.	9.4	14

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55	Mutual influence of cetyltrimethylammonium bromide and Triton X-100 on their adsorption at the waterâ€“air interface. Journal of Chemical Thermodynamics, 2013, 59, 35-42.	2.0	14
56	Adsorption properties of rhamnolipid and ethanol at water/ethanol solution-air interface. Journal of Molecular Liquids, 2020, 308, 113080.	4.9	14
57	Behaviour of cetyltrimethylammonium bromide, Triton X-100 and Triton X-114 in mixed monolayer at the (waterâ€“air) interface. Journal of Chemical Thermodynamics, 2014, 69, 85-92.	2.0	13
58	The wettability of polytetrafluoroethylene and polymethylmethacrylate by aqueous solutions of Triton X-100 and short chain alcohol mixtures. Applied Surface Science, 2009, 255, 7369-7379.	6.1	12
59	Wettability and Adhesion Work Prediction in the Polymerâ€“Aqueous Solution of Surface Active Agent Systems. Colloids and Interfaces, 2018, 2, 21.	2.1	12
60	Wetting properties of Saponaria officinalis saponins. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 584, 123980.	4.7	12
61	Thermodynamic Analysis of the Adsorption and Micellization Activity of the Mixtures of Rhamnolipid and Surfactin with Triton X-165. Molecules, 2022, 27, 3600.	3.8	12
62	Wettability and surface free energy of glass in the presence of cetyltrimethylammonium bromide. Materials Chemistry and Physics, 1999, 58, 166-171.	4.0	11
63	The adsorption tendency of cetylpyridinium bromide at waterâ€“air interface and micelles formation in the presence of propanol. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2008, 325, 93-100.	4.7	11
64	Adsorption of Triton X-100 and cetyltrimethylammonium bromide mixture with ethanol at nylon-6â€“solution interface with regard to nylon-6 wettability: I. The effect of adsorption on critical surface tension of nylon-6 wetting. Adsorption, 2013, 19, 435-444.	3.0	11
65	Wettability of polymers by aqueous solution of binary surfactants mixture with regard to adhesion in polymerâ€“solution system Iâ€”Correlation between the adsorption of surfactants mixture and contact angle. International Journal of Adhesion and Adhesives, 2013, 45, 98-105.	2.9	11
66	Wettability prediction of such polymers as polyethylene and polytetrafluoroethylene by aqueous solutions of classical surfactants and biosurfactants. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2016, 506, 409-415.	4.7	11
67	Combustion Process of Canola Oil and n-Hexane Mixtures in Dynamic Diesel Engine Operating Conditions. Applied Sciences (Switzerland), 2020, 10, 80.	2.5	11
68	Determination of surface-free energy components of synthetic chalcocite from contact angle measurements. Powder Technology, 1993, 76, 233-239.	4.2	9
69	The wettability of polytetrafluoroethylene by aqueous solution of cetylpyridinium bromide and propanol mixtures. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2008, 330, 127-133.	4.7	9
70	Behavior of Cetyltrimethylammonium Bromide, tertâ€Octylphenol (9.5 EO) Ethoxylate and Ethanol Mixtures at the Waterâ€“Air Interface. Journal of Surfactants and Detergents, 2013, 16, 203-212.	2.1	9
71	Behavior of cetyltrimethylammonium bromide and Triton X-100 mixture at solutionâ€“air interface in presence of short-chain alcohols. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2014, 454, 65-73.	4.7	9
72	Volumetric properties of sodium dodecylsulfate and Triton X-100 mixture with short-chain alcohol in aqueous solution. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2015, 480, 270-278.	4.7	9

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73	Wetting and adsorption properties of n-octyl-Î²-d-glucopyranoside and monorhamnolipid in the system polytetrafluoroethyleneâ€“solutionâ€“air. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2015, 486, 114-123.	4.7	9
74	Influence of short chain alcohols on adsorption of sodium dodecylsulfate and Triton X-100 mixture at solutionâ€“air interface. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2015, 464, 57-64.	4.7	9
75	Adsorption of surfactin at water with ethanol mixture-air interface. Journal of Molecular Liquids, 2020, 300, 112240.	4.9	9
76	Critical micelle concentration, composition and thermodynamic properties of n-octyl-Î²-d-glucopyranoside and sodium dodecylsulfate mixed micelles. Journal of Molecular Liquids, 2019, 286, 110748.	4.9	8
77	Mutual influence of ethanol and surfactin on their wetting and adhesion properties. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 627, 127161.	4.7	8
78	Effect of fluorocarbon surfactants on the adsorption of hydrocarbon surfactants mixture at the water-air interface. Journal of Molecular Liquids, 2022, 345, 117832.	4.9	8
79	Aggregation properties of the cetyltrimethylammonium bromide and Triton X-100 mixture with ethanol in aqueous media. Fluid Phase Equilibria, 2013, 356, 168-175.	2.5	7
80	Correlation between adhesion of aqueous solutions of nonionic and anionic surfactant mixture with short-chain alcohols to polymer surface and their adsorption at interfaces. II. Critical surface tension of polymer wetting and work of adhesion. International Journal of Adhesion and Adhesives, 2017, 74, 194-199.	2.9	7
81	Influence of the propanol on the behaviour of binary mixture of nonionic surfactants at the waterâ€“air interface. Journal of Molecular Liquids, 2014, 199, 196-201.	4.9	6
82	The Use of Canola Oil, n-Hexane, and Ethanol Mixtures in a Diesel Engine. SAE International Journal of Fuels and Lubricants, 0, 14, .	0.2	6
83	Adsorption Properties of Hydrocarbon and Fluorocarbon Surfactants Ternary Mixture at the Water-Air Interface. Molecules, 2021, 26, 4313.	3.8	6
84	Adsorption Properties and Composition of Binary Kolliphor Mixtures at the Waterâ€“Air Interface at Different Temperatures. Molecules, 2022, 27, 877.	3.8	6
85	Prediction of Aqueous Solution Surface Tension of Some Surfactant Mixtures and Composition of Their Monolayers at the Solutionâ€”Air Interface. Colloids and Interfaces, 2021, 5, 53.	2.1	6
86	Influence of ethyl xanthate on the wettability and surface free energy of galena. Applied Surface Science, 1997, 120, 35-42.	6.1	5
87	Adsorption of mixtures of sodium dodecyl sulphate and propanol at waterâ€“air and polytetrafluoroethyleneâ€“water interfaces. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2004, 249, 73-77.	4.7	5
88	Importance of surface layers in solid surface free energy determination. Surface Innovations, 2014, 2, 173-183.	2.3	5
89	Behavior of hexadecyltrimethylammonium bromide and Triton X-100 mixture in the bulk phase of aqueous solution in the presence of methanol and propanol. Journal of Molecular Liquids, 2015, 211, 324-331.	4.9	5
90	Surface and volumetric properties of n-octyl-Î²-d-glucopyranoside and rhamnolipid mixture. Journal of Molecular Liquids, 2016, 219, 801-809.	4.9	5

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91	Properties of n-octyl-Î²-d-glucopyranoside and sodium dodecylsulfate mixed monolayer at the water-air interface. Journal of Molecular Liquids, 2019, 280, 259-267.	4.9	5
92	Influence of ethyl xanthate on the wettability and surface free energy of synthetic chalcocite. Powder Technology, 1998, 95, 234-239.	4.2	4
93	The wettability of polytetrafluoroethylene and polymethylmethacrylate with regard to interface behaviour of Triton X-165 and short chain alcohol mixtures:. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2010, 367, 115-120.	4.7	4
94	Sugar-based surfactants as alternative to synthetic ones. Annales Universitatis Mariae Curie-Sklodowska Sectio AA â€“ Chemia, 2015, 70, .	0.2	4
95	Composition of Surface Layer at the Waterâ€“Air Interface and Micelles of Triton X-100Â+ÂRhamnolipid Mixtures. Journal of Solution Chemistry, 2017, 46, 1251-1271.	1.2	4
96	Modification of Canola Oil Physicochemical Properties by Hexane and Ethanol with Regards of Its Application in Diesel Engine. Energies, 2021, 14, 4469.	3.1	4
97	Adsorption of Triton X-100 and cetyltrimethylammonium bromide mixture with ethanol at nylon-6â€“solution interface with regard to nylon-6 wettability: II. Work of adhesion and activity of surfactants at interfaces. Adsorption, 2013, 19, 445-453.	3.0	3
98	Wettability of polytetrafluoroethylene and polymethyl methacrylate by aqueous solutions of TX-100 and TX-165 mixture with propanol. Journal of Adhesion Science and Technology, 2015, 29, 1081-1095.	2.6	3
99	Correlation between adhesion of aqueous solutions of nonionic and anionic surfactant mixture with short-chain alcohols to polymer surface and their adsorption at interfaces. I. Adhesion tension and adsorption. International Journal of Adhesion and Adhesives, 2017, 74, 200-206.	2.9	3
100	Mutual Influence of Some Flavonoids and Classical Nonionic Surfactants on Their Adsorption and Volumetric Properties at Different Temperatures. Molecules, 2022, 27, 2842.	3.8	3
101	Effect of ethanol on wetting and adhesion properties of rhamnolipid. International Journal of Adhesion and Adhesives, 2021, 110, 102955.	2.9	2
102	The surface free energy of low rank coals precovered with diacetone alcohol. Fuel, 1992, 71, 708-711.	6.4	1
103	Mutual influence of two nonionic surfactants mixture and propanol on their volumetric properties in aqueous solution. Journal of Molecular Liquids, 2014, 200, 305-310.	4.9	1
104	Wetting and adsorption properties of cetyltrimethylammonium bromide and Triton X-100 mixture with short-chain alcohol in polymerâ€“solutionâ€“air system. Journal of Adhesion Science and Technology, 2016, 30, 729-746.	2.6	1
105	Comparison of Components and Parameters of Some Sulfide Minerals Surface Tension with Regards to Stability of Mineral-Air Bubble System. Physicochemical Problems of Mineral Processing, 0, , .	0.4	1
106	Ethanol behaviour at the solution-air interface in the presence of Triton X-100 and cetyltrimethylammonium bromide mixture. Annales Universitatis Mariae Curie-Sklodowska Sectio AA â€“ Chemia, 2015, 70, .	0.2	0