

Jm Bruque

List of Publications by Year in descending order

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236925

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docs citations

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times ranked

2483
citing authors

#	ARTICLE	IF	CITATIONS
1	Studying the Influence of Surface Topography on Bacterial Adhesion using Spatially Organized Microtopographic Surface Patterns. <i>Langmuir</i> , 2014, 30, 4633-4641.	3.5	167
2	On the zeta potential and surface charge density of montmorillonite in aqueous electrolyte solutions. <i>Journal of Colloid and Interface Science</i> , 1986, 113, 203-211.	9.4	155
3	In vitro biocompatibility and bacterial adhesion of physico-chemically modified Ti6Al4V surface by means of UV irradiation. <i>Acta Biomaterialia</i> , 2009, 5, 181-192.	8.3	131
4	On the Consistency of Surface Free Energy Components as Calculated from Contact Angles of Different Liquids: An Application to the Cholesterol Surface. <i>Journal of Colloid and Interface Science</i> , 1993, 159, 421-428.	9.4	113
5	Sensitivity of surface roughness parameters to changes in the density of scanning points in multi-scale AFM studies. Application to a biomaterial surface. <i>Ultramicroscopy</i> , 2007, 107, 617-625.	1.9	71
6	Bactericidal behaviour of Ti6Al4V surfaces after exposure to UV-C light. <i>Biomaterials</i> , 2010, 31, 5159-5168.	11.4	63
7	Wettability and surface free energy of zirconia ceramics and their constituents. <i>Journal of Materials Science</i> , 1999, 34, 5923-5926.	3.7	58
8	Properties of Decylammonium Chloride and Cesium Perfluorooctanoate at Interfaces and Standard Free Energy of Their Adsorption. <i>Journal of Colloid and Interface Science</i> , 1997, 192, 408-414.	9.4	52
9	Thermodynamic Analysis of Growth Temperature Dependence in the Adhesion of <i>Candida parapsilosis</i> to Polystyrene. <i>Applied and Environmental Microbiology</i> , 2002, 68, 2610-2613.	3.1	51
10	On the relationship between common amplitude surface roughness parameters and surface area: Implications for the study of cell-material interactions. <i>International Biodeterioration and Biodegradation</i> , 2007, 59, 245-251.	3.9	51
11	The measurement temperature: an important factor relating physicochemical and adhesive properties of yeast cells to biomaterials. <i>Journal of Colloid and Interface Science</i> , 2004, 271, 351-358.	9.4	42
12	Ionic surfactant adsorption onto activated carbons. <i>Journal of Colloid and Interface Science</i> , 2004, 278, 257-264.	9.4	42
13	The adhesion strength of <i>Candida parapsilosis</i> to glass and silicone as a function of hydrophobicity, roughness and cell morphology. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2004, 249, 99-103.	4.7	36
14	Determination of Components of Cassiterite Surface Free Energy from Contact Angle Measurements. <i>Journal of Colloid and Interface Science</i> , 1993, 161, 209-222.	9.4	35
15	Components of the surface free energy of low rank coals in the presence of n-alkanes. <i>Powder Technology</i> , 1996, 86, 229-238.	4.2	32
16	The Usefulness of the Equation of State for Interfacial Tensions Estimation in Some Liquid-Liquid and Solid-Liquid Systems. <i>Journal of Colloid and Interface Science</i> , 1996, 181, 108-117.	9.4	31
17	The zeta potential of extended dielectrics and conductors in terms of streaming potential and streaming current measurements. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 9758.	2.8	31
18	Comparison of the Use of Washburn's Equation in the Distance-Time and Weight-Time Imbibition Techniques. <i>Journal of Colloid and Interface Science</i> , 2001, 233, 356-360.	9.4	30

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19	Analysis of the adsorption isotherms of a non-ionic surfactant from aqueous solution onto activated carbons. <i>Carbon</i> , 2001, 39, 849-855.	10.3	30
20	On the Use of Washburn's Equation in the Analysis of Weight-Time Measurements Obtained from Imbibition Experiments. <i>Journal of Colloid and Interface Science</i> , 1999, 219, 275-281.	9.4	29
21	Determination of the Free Energy of Adsorption on Carbon Blacks of a Nonionic Surfactant from Aqueous Solutions. <i>Langmuir</i> , 2000, 16, 3950-3956.	3.5	29
22	Arrangement of SDS adsorbed layer on carbonaceous particles by zeta potential determinations. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2004, 249, 57-62.	4.7	29
23	Insights into bacterial contact angles: Difficulties in defining hydrophobicity and surface Gibbs energy. <i>Colloids and Surfaces B: Biointerfaces</i> , 2011, 88, 373-380.	5.0	29
24	The contribution of double layers to the free energy of interactions in the cassiterite-SDS solution system. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 1995, 100, 93-103.	4.7	27
25	Influence of the Regeneration Temperature on the Phenols Adsorption on Activated Carbon. <i>Journal of Colloid and Interface Science</i> , 2001, 242, 31-35.	9.4	27
26	Decylammonium Chloride and Cesium Perfluorooctanoate Surface Free Energy and Their Critical Micelle Concentration. <i>Journal of Colloid and Interface Science</i> , 1996, 184, 607-613.	9.4	25
27	Analysis of the Silica Surface Free Energy by the Imbibition Technique. <i>Journal of Colloid and Interface Science</i> , 2001, 240, 467-472.	9.4	25
28	Adsorption enthalpies of sodium dodecyl sulphate onto carbon blacks in the low concentration range. <i>Carbon</i> , 2005, 43, 567-572.	10.3	25
29	Effect of UV irradiation on the surface Gibbs energy of Ti6Al4V and thermally oxidized Ti6Al4V. <i>Journal of Colloid and Interface Science</i> , 2008, 320, 117-124.	9.4	25
30	The Relationship between the Interfacial Free Energy and the Free Energy of Micellization of Triton X-100 and Sodium Dodecyl Sulfonate. <i>Journal of Colloid and Interface Science</i> , 1995, 176, 352-357.	9.4	22
31	Effect of two hydrocarbon and one fluorocarbon surfactant mixtures on the surface tension and wettability of polymers. <i>Journal of Colloid and Interface Science</i> , 2014, 417, 180-187.	9.4	22
32	Influence of the growth medium, suspending liquid and measurement temperature on the physico-chemical surface properties of two enterococci strains. <i>Journal of Adhesion Science and Technology</i> , 2003, 17, 1877-1887.	2.6	21
33	On the adsorption of sodium alkylsulfonates at the air-aqueous solution interface. <i>Journal of Colloid and Interface Science</i> , 1983, 95, 513-522.	9.4	20
34	Wettability and surface tension of fluorite. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 1993, 75, 163-168.	4.7	20
35	Adsorption behavior of human plasma fibronectin on hydrophobic and hydrophilic Ti6Al4V substrata and its influence on bacterial adhesion and detachment. <i>Journal of Biomedical Materials Research - Part A</i> , 2013, 101A, 1397-1404.	4.0	20
36	REMOVAL OF AN IONIC SURFACTANT FROM WASTEWATER BY CARBON BLACKS ADSORPTION. <i>Separation Science and Technology</i> , 2002, 37, 2823-2837.	2.5	19

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37	The zeta potential of celestite in aqueous electrolyte and surfactant solutions. <i>Journal of Colloid and Interface Science</i> , 1988, 126, 367-370.	9.4	17
38	Influence of the Meniscus at the Bottom of the Solid Plate on Imbibition Experiments. <i>Journal of Colloid and Interface Science</i> , 2001, 234, 79-83.	9.4	17
39	On the evaluation of the surface free energy of porous and powdered solids from imbibition experiments: equivalence between height \times time and weight \times time techniques. <i>Journal of Colloid and Interface Science</i> , 2003, 262, 171-178.	9.4	17
40	The Influence of Sodium Dodecyl Sulfate on the Surface Free Energy of Cassiterite. <i>Journal of Colloid and Interface Science</i> , 1995, 170, 383-391.	9.4	16
41	The properties of mixtures of ionic and nonionic surfactants in water at the water/air interface. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 1995, 104, 157-163.	4.7	16
42	Surface characterisation of two strains of <i>Staphylococcus epidermidis</i> with different slime-production by AFM. <i>Applied Surface Science</i> , 2004, 238, 18-23.	6.1	16
43	Flotation properties of celestite in aqueous solutions of ionic surfactants. <i>International Journal of Mineral Processing</i> , 1989, 26, 51-63.	2.6	15
44	Distance \times Time Measurements in Capillary Penetration: Choice of the Coordinate System. <i>Journal of Colloid and Interface Science</i> , 1999, 211, 175-177.	9.4	15
45	Comparative Study of the Hydrophobicity of <i>Candida parapsilosis</i> through Macroscopic and Microscopic Analysis. <i>Langmuir</i> , 2002, 18, 3639-3644.	3.5	15
46	Irreversible thermodynamics of transport processes through porous media composed of particles of different size. <i>Journal of Colloid and Interface Science</i> , 1981, 82, 45-52.	9.4	14
47	The mechanism of adsorption of sodium dodecylsulfonate on fluorite and its surface free energy. <i>Applied Surface Science</i> , 1996, 103, 395-402.	6.1	13
48	Free Energy of Interaction of Sodium Dodecyl Sulfate in Aqueous Solution with Carbon Black Surfaces. <i>Journal of Colloid and Interface Science</i> , 2002, 248, 13-18.	9.4	13
49	Analysis of the hydrophobic behaviour of different strains of <i>Candida parapsilosis</i> under two growth temperatures. <i>Colloids and Surfaces B: Biointerfaces</i> , 2003, 28, 119-126.	5.0	13
50	On the interactions at interfaces in fluorite flotation. <i>International Journal of Mineral Processing</i> , 1988, 23, 229-240.	2.6	11
51	An experimental study about the imbibition of aqueous solutions of low concentration of a non-adsorbable surfactant in a hydrophilic porous medium. <i>Journal of Colloid and Interface Science</i> , 2006, 301, 323-328.	9.4	11
52	A study of the adsorption of sodium dodecyl sulphonate at the solution-air interface. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 1998, 137, 15-24.	4.7	10
53	Influence of effective porosity in the determination of contact angles in porous solids by imbibition techniques. <i>Journal of Adhesion Science and Technology</i> , 2002, 16, 1515-1528.	2.6	10
54	Surface-Dependent Mechanical Stability of Adsorbed Human Plasma Fibronectin on Ti6Al4V: Domain Unfolding and Stepwise Unraveling of Single Compact Molecules. <i>Langmuir</i> , 2013, 29, 8554-8560.	3.5	10

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55	Flotation of fluorite with n-alkylammonium chlorides. International Journal of Mineral Processing, 1982, 9, 75-86.	2.6	9
56	On the adsorption of n-alkylammonium chlorides at fluorite/solution interface. International Journal of Mineral Processing, 1980, 7, 79-88.	2.6	8
57	On the constancy of the free energy reduction caused by imbibition in porous media. Powder Technology, 2004, 148, 48-52.	4.2	8
58	The adsorption of n-alkylammonium chlorides at the aqueous solution-air interface. Journal of Colloid and Interface Science, 1986, 110, 96-101.	9.4	7
59	Adsorption-desorption in celestite (SrSO ₄) flotation with a cationic-type collector. Colloids and Surfaces, 1989, 35, 65-75.	0.9	7
60	The surface free energy of fluorite in presence of sodium dodecyl sulfate. Powder Technology, 1994, 80, 127-131.	4.2	7
61	Electrical conductivity measurements for the systems decylammonium chloride/water and cesium perfluorooctanoate/water in the isotropic phase. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1996, 117, 143-149.	4.7	7
62	On the electrophoretic mobility and zeta potential of montmorillonite in non-aqueous media. Colloid and Polymer Science, 1986, 264, 435-438.	2.1	6
63	Improvement of data logging for an LKB 8700 calorimeter. Thermochemica Acta, 1992, 197, 407-412.	2.7	6
64	Volumetric properties of the decylammonium chloride and cesium perfluorooctanoate from density measurements. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1999, 148, 213-221.	4.7	6
65	The destruction time of the sediment column structure as a method for studying the dispersion system. Powder Technology, 2000, 113, 1-8.	4.2	6
66	Temperature influence on the physicochemical surface properties and adhesion behaviour of Enterococcus faecalis to glass and silicone. Journal of Adhesion Science and Technology, 2002, 16, 1215-1223.	2.6	6
67	Thermodynamic characterization of a regenerated activated carbon surface. Applied Surface Science, 2002, 191, 166-170.	6.1	6
68	Electroosmotic transport of liquid mixtures of ethanol-water and 2-propanol-water through porous diaphragms. Journal of Colloid and Interface Science, 1980, 76, 591-593.	9.4	5
69	On the Use of Generalized Onsager Coefficients in Nonlinear Electroosmotic Phenomena. Journal of Non-Equilibrium Thermodynamics, 1984, 9, .	4.2	5
70	The adsorption of sodium dodecyl sulphate on fluorite and its surface free energy. Applied Surface Science, 1994, 81, 95-102.	6.1	5
71	Wettability of cassiterite in presence of sodium dodecyl sulphate. Materials Chemistry and Physics, 1994, 38, 225-233.	4.0	5
72	Changes on the physico-chemical surface properties and adhesion behaviour of Enterococcus faecalis by the addition of serum or urine to the growth medium. Physical Chemistry Chemical Physics, 2004, 6, 1512-1517.	2.8	4

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73	Influence of the interfacial adsorptions on the imbibition of aqueous solutions of low concentration of the non-ionic surfactant Triton X-100 into calcium fluoride porous medium. Journal of Colloid and Interface Science, 2006, 295, 578-582.	9.4	4
74	The influence of oleate adsorption at the fluorite/water interface on fluorite surface free energy. Applied Surface Science, 1993, 72, 201-207.	6.1	3
75	Adhesion of air bubbles to a fluorite surface in the presence of oleate species. Journal of Adhesion Science and Technology, 1994, 8, 289-300.	2.6	3
76	Washburn's Equation Facing Galileo's Transformation: Some Remarks. Journal of Colloid and Interface Science, 2002, 253, 472-474.	9.4	3
77	The effects of urine and temperature on the physicochemical surface properties and adhesion behaviour of uropathogenic bacteria. Journal of Adhesion Science and Technology, 2003, 17, 1223-1233.	2.6	3
78	Hydrocarbons imbibition for geometrical characterization of porous media through the effective radius approach. Applied Surface Science, 2006, 253, 1291-1298.	6.1	3
79	Effect of sulphonate content of direct cotton dyes on the non-linear electrokinetic behaviour of cellulose plugs. Colloids and Surfaces, 1985, 14, 143-150.	0.9	2
80	Relationship between heat of immersion and surface Gibbs energy of fluorite and cassiterite. Journal of Thermal Analysis, 1995, 44, 1087-1094.	0.6	2
81	Influence of n-alkylammonium chlorides on the adhesion of air bubbles to the fluorite surface. Journal of Adhesion Science and Technology, 1994, 8, 1017-1025.	2.6	1
82	The influence of mixture anionic and non-ionic surfactants on the surface free energy of cassiterite. Journal of Materials Science, 1994, 29, 3177-3184.	3.7	1
83	Thermodynamic excess quantities in the adsorption of sodium alkylsulfonates at the air-solution interface. Colloid and Polymer Science, 1983, 261, 183-187.	2.1	0
84	Electrokinetic transport of aqueous solutions of electrolytes through fibrous systems. Non-linear phenomenological relations. European Polymer Journal, 1985, 21, 641-644.	5.4	0
85	THE EFFECT OF TEMPERATURE AND ALCOHOL CONCENTRATION ON THE VISCOSITY OF MIXTURES (n-, sec-,) Tj ETQq1 1 0.784314 rg BT Science and Technology, 1987, 8, 199-206.	2.4	0
86	A device for the automatic determination of the surface tension of surfactant solutions. Journal of Physics E: Scientific Instruments, 1987, 20, 924-926.	0.7	0