Jm Bruque

List of Publications by Year
in descending order

86 papers	2,022 citations	270111 25 h-index	312153 41 g-index
86 all docs	86 docs citations	86 times ranked	2752 citing authors

#	Article	IF	Citations
1	Effect of two hydrocarbon and one fluorocarbon surfactant mixtures on the surface tension and wettability of polymers. Journal of Colloid and Interface Science, 2014, 417, 180-187.	5.0	22
2	Studying the Influence of Surface Topography on Bacterial Adhesion using Spatially Organized Microtopographic Surface Patterns. Langmuir, 2014, 30, 4633-4641.	1.6	167
3	Adsorption behavior of human plasma fibronectin on hydrophobic and hydrophilic Ti6Al4V substrata and its influence on bacterial adhesion and detachment. Journal of Biomedical Materials Research - Part A, 2013, 101A, 1397-1404.	2.1	20
4	Surface-Dependent Mechanical Stability of Adsorbed Human Plasma Fibronectin on Ti6Al4V: Domain Unfolding and Stepwise Unraveling of Single Compact Molecules. Langmuir, 2013, 29, 8554-8560.	1.6	10
5	The zeta potential of extended dielectrics and conductors in terms of streaming potential and streaming current measurements. Physical Chemistry Chemical Physics, 2012, 14, 9758.	1.3	31
6	Insights into bacterial contact angles: Difficulties in defining hydrophobicity and surface Gibbs energy. Colloids and Surfaces B: Biointerfaces, 2011, 88, 373-380.	2.5	29
7	Bactericidal behaviour of Ti6Al4V surfaces after exposure to UV-C light. Biomaterials, 2010, 31, 5159-5168.	5.7	63
8	In vitro biocompatibility and bacterial adhesion of physico-chemically modified Ti6Al4V surface by means of UV irradiation. Acta Biomaterialia, 2009, 5, 181-192.	4.1	131
9	Effect of UV irradiation on the surface Gibbs energy of Ti6Al4V and thermally oxidized Ti6Al4V. Journal of Colloid and Interface Science, 2008, 320, 117-124.	5.0	25
10	Sensitivity of surface roughness parameters to changes in the density of scanning points in multi-scale AFM studies. Application to a biomaterial surface. Ultramicroscopy, 2007, 107, 617-625.	0.8	71
11	On the relationship between common amplitude surface roughness parameters and surface area: Implications for the study of cellâ€“material interactions. International Biodeterioration and Biodegradation, 2007, 59, 245-251.	1.9	51
12	Hydrocarbons imbibition for geometrical characterization of porous media through the effective radius approach. Applied Surface Science, 2006, 253, 1291-1298.	3.1	3
13	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.	5.0	4
14	An experimental study about the imbibition of aqueous solutions of low concentration of a non-adsorbable surfactant in a hydrophilic porous medium. Journal of Colloid and Interface Science, 2006, 301, 323-328.	5.0	11
15	Adsorption enthalpies of sodium dodecyl sulphate onto carbon blacks in the low concentration range. Carbon, 2005, 43, 567-572.	5.4	25
16	The measurement temperature: an important factor relating physicochemical and adhesive properties of yeast cells to biomaterials. Journal of Colloid and Interface Science, 2004, 271, 351-358.	5.0	42
17	Ionic surfactant adsorption onto activated carbons. Journal of Colloid and Interface Science, 2004, 278, 257-264.	5.0	42
18	On the constancy of the free energy reduction caused by imbibition in porous media. Powder Technology, 2004, 148, 48-52.	2.1	8

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19	Surface characterisation of two strains of Staphylococcus epidermidis with different slime-production by AFM. Applied Surface Science, 2004, 238, 18-23.	3.1	16
20	Arrangement of SDS adsorbed layer on carbonaceous particles by zeta potential determinations. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2004, 249, 57-62.	2.3	29
21	The adhesion strength of Candida parapsilosis to glass and silicone as a function of hydrophobicity, roughness and cell morphology. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2004, 249, 99-103.	2.3	36
22	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.	1.3	4
23	On the evaluation of the surface free energy of porous and powdered solids from imbibition experiments: equivalence between heightâ€“time and weightâ€“time techniques. Journal of Colloid and Interface Science, 2003, 262, 171-178.	5.0	17
24	Analysis of the hydrophobic behaviour of different strains of Candida parapsilosis under two growth temperatures. Colloids and Surfaces B: Biointerfaces, 2003, 28, 119-126.	2.5	13
25	Influence of the growth medium, suspending liquid and measurement temperature on the physico-chemical surface properties of two enterococci strains. Journal of Adhesion Science and Technology, 2003, 17, 1877-1887.	1.4	21
26	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.	1.4	3
27	Thermodynamic Analysis of Growth Temperature Dependence in the Adhesion of Candida parapsilosis to Polystyrene. Applied and Environmental Microbiology, 2002, 68, 2610-2613.	1.4	51
28	Influence of effective porosity in the determination of contact angles in porous solids by imbibition techniques. Journal of Adhesion Science and Technology, 2002, 16, 1515-1528.	1.4	10
29	REMOVAL OF AN IONIC SURFACTANT FROM WASTEWATER BY CARBON BLACKS ADSORPTION. Separation Science and Technology, 2002, 37, 2823-2837.	1.3	19
30	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.	1.4	6
31	Comparative Study of the Hydrophobicity ofCandidaparapsilosis294 through Macroscopic and Microscopic Analysis. Langmuir, 2002, 18, 3639-3644.	1.6	15
32	Free Energy of Interaction of Sodium Dodecyl Sulfate in Aqueous Solution with Carbon Black Surfaces. Journal of Colloid and Interface Science, 2002, 248, 13-18.	5.0	13
33	Washburn's Equation Facing Galileo's Transformation: Some Remarks. Journal of Colloid and Interface Science, 2002, 253, 472-474.	5.0	3
34	Thermodynamic characterization of a regenerated activated carbon surface. Applied Surface Science, 2002, 191, 166-170.	3.1	6
35	Influence of the Meniscus at the Bottom of the Solid Plate on Imbibition Experiments. Journal of Colloid and Interface Science, 2001, 234, 79-83.	5.0	17
36	Comparison of the Use of Washburn's Equation in the Distanceâ€“Time and Weightâ€“Time Imbibition Techniques. Journal of Colloid and Interface Science, 2001, 233, 356-360.	5.0	30

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37	Analysis of the Silica Surface Free Energy by the Imbibition Technique. Journal of Colloid and Interface Science, 2001, 240, 467-472.	5.0	25
38	Influence of the Regeneration Temperature on the Phenols Adsorption on Activated Carbon. Journal of Colloid and Interface Science, 2001, 242, 31-35.	5.0	27
39	Analysis of the adsorption isotherms of a non-ionic surfactant from aqueous solution onto activated carbons. Carbon, 2001, 39, 849-855.	5.4	30
40	The destruction time of the sediment column structure as a method for studying the dispersion system. Powder Technology, 2000, 113, 1-8.	2.1	6
41	Determination of the Free Energy of Adsorption on Carbon Blacks of a Nonionic Surfactant from Aqueous Solutions. Langmuir, 2000, 16, 3950-3956.	1.6	29
42	Volumetric properties of the decylammonium chloride and cesium perfluorooctanoate from density measurements. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1999, 148, 213-221.	2.3	6
43	Wettability and surface free energy of zirconia ceramics and their constituents. Journal of Materials Science, 1999, 34, 5923-5926.	1.7	58
44	Distanceâ€“Time Measurements in Capillary Penetration: Choice of the Coordinate System. Journal of Colloid and Interface Science, 1999, 211, 175-177.	5.0	15
45	On the Use of Washburn's Equation in the Analysis of Weightâ€“Time Measurements Obtained from Imbibition Experiments. Journal of Colloid and Interface Science, 1999, 219, 275-281.	5.0	29
46	A study of the adsorption of sodium dodecyl sulphonate at the solution-air interface. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1998, 137, 15-24.	2.3	10
47	Properties of Decylammonium Chloride and Cesium Perfluorooctanoate at Interfaces and Standard Free Energy of Their Adsorption. Journal of Colloid and Interface Science, 1997, 192, 408-414.	5.0	52
48	Components of the surface free energy of low rank coals in the presence of n-alkanes. Powder Technology, 1996, 86, 229-238.	2.1	32
49	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.	2.3	7
50	The Usefulness of the Equation of State for Interfacial Tensions Estimation in Some Liquidâ€“Liquid and Solidâ€“Liquid Systems. Journal of Colloid and Interface Science, 1996, 181, 108-117.	5.0	31
51	Decylammonium Chloride and Cesium Perfluorooctanoate Surface Free Energy and Their Critical Micelle Concentration. Journal of Colloid and Interface Science, 1996, 184, 607-613.	5.0	25
52	The mechanism of adsorption of sodium dodecylsulfonate on fluorite and its surface free energy. Applied Surface Science, 1996, 103, 395-402.	3.1	13
53	The Influence of Sodium Dodecyl Sulfate on the Surface Free Energy of Cassiterite. Journal of Colloid and Interface Science, 1995, 170, 383-391.	5.0	16
54	The Relationship between the Interfacial Free Energy and the Free Energy of Micellization of Triton X-100 and Sodium Dodecyl Sulfonate. Journal of Colloid and Interface Science, 1995, 176, 352-357.	5.0	22

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55	Relationship between heat of immersion and surface Gibbs energy of fluorite and cassiterite. Journal of Thermal Analysis, 1995, 44, 1087-1094.	0.7	2
56	The contribution of double layers to the free energy of interactions in the cassiterite-SDS solution system. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1995, 100, 93-103.	2.3	27
57	The properties of mixtures of ionic and nonionic surfactants in water at the water/air interface. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1995, 104, 157-163.	2.3	16
58	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.	1.4	1
59	The influence of mixture anionic and non-ionic surfactants on the surface free energy of cassiterite. Journal of Materials Science, 1994, 29, 3177-3184.	1.7	1
60	The adsorption of sodium dodecyl sulphate on fluorite and its surface free energy. Applied Surface Science, 1994, 81, 95-102.	3.1	5
61	Wettability of cassiterite in presence of sodium dodecyl sulphate. Materials Chemistry and Physics, 1994, 38, 225-233.	2.0	5
62	The surface free energy of fluorite in presence of sodium dodecyl sulfate. Powder Technology, 1994, 80, 127-131.	2.1	7
63	Adhesion of air bubbles to a fluorite surface in the presence of oleate species. Journal of Adhesion Science and Technology, 1994, 8, 289-300.	1.4	3
64	On the Consistency of Surface Free Energy Components as Calculated from Contact Angles of Different Liquids: An Application to the Cholesterol Surface. Journal of Colloid and Interface Science, 1993, 159, 421-428.	5.0	113
65	Determination of Components of Cassiterite Surface Free Energy from Contact Angle Measurements. Journal of Colloid and Interface Science, 1993, 161, 209-222.	5.0	35
66	The influence of oleate adsorption at the fluorite/water interface on fluorite surface free energy. Applied Surface Science, 1993, 72, 201-207.	3.1	3
67	Wettability and surface tension of fluorite. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1993, 75, 163-168.	2.3	20
68	Improvement of data logging for an LKB 8700 calorimeter. Thermochimica Acta, 1992, 197, 407-412.	1.2	6
69	Adsorptionâ€"desorption in celestite (SrSO4) flotation with a cationic-type collector. Colloids and Surfaces, 1989, 35, 65-75.	0.9	7
70	Flotation properties of celestite in aqueous solutions of ionic surfactants. International Journal of Mineral Processing, 1989, 26, 51-63.	2.6	15
71	On the interactions at interfaces in fluorite flotation. International Journal of Mineral Processing, 1988, 23, 229-240.	2.6	11
72	The zeta potential of celestite in aqueous electrolyte and surfactant solutions. Journal of Colloid and Interface Science, 1988, 126, 367-370.	5.0	17

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73	THB EFFECT OF TEMPERATURE AND ALCOHOL COHCEHTRATIOH OH THE VISCOSITY OF MIXTURES (n-, sec-,) Tj ETQq1 1 0.784314 rgBT Science and Technology, 1987, 8, 199-206.	1.3	0
74	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
75	The adsorption of n-alkylammonium chlorides at the aqueous solution-air interface. Journal of Colloid and Interface Science, 1986, 110, 96-101.	5.0	7
76	On the zeta potential and surface charge density of montmorillonite in aqueous electrolyte solutions. Journal of Colloid and Interface Science, 1986, 113, 203-211.	5.0	155
77	On the electrophoretic mobility and zeta potential of montmorillonite in non-aqueous media. Colloid and Polymer Science, 1986, 264, 435-438.	1.0	6
78	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
79	Electrokinetic transport of aqueous solutions of electrolytes through fibrous systems. Non-linear phenomenological relations. European Polymer Journal, 1985, 21, 641-644.	2.6	0
80	On the Use of Generalized Onsager Coefficients in Nonlinear Electroosmotic Phenomena. Journal of Non-Equilibrium Thermodynamics, 1984, 9, .	2.4	5
81	Thermodynamic excess quantities in the adsorption of sodium alkylsulfonates at the air-solution interface. Colloid and Polymer Science, 1983, 261, 183-187.	1.0	0
82	On the adsorption of sodium alkylsulfonates at the air-aqueous solution interface. Journal of Colloid and Interface Science, 1983, 95, 513-522.	5.0	20
83	Flotation of fluorite with n-alkylammonium chlorides. International Journal of Mineral Processing, 1982, 9, 75-86.	2.6	9
84	Irreversible thermodynamics of transport processes through porous media composed of particles of different size. Journal of Colloid and Interface Science, 1981, 82, 45-52.	5.0	14
85	On the adsorption of n-alkylammonium chlorides at fluorite/solution interface. International Journal of Mineral Processing, 1980, 7, 79-88.	2.6	8
86	Electroosmotic transport of liquid mixtures of ethanolâ€"water and 2-propanolâ€"water through porous diaphragms. Journal of Colloid and Interface Science, 1980, 76, 591-593.	5.0	5