

Daniel Fornasiero

List of Publications by Year in descending order

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125
papers

7,367
citations

38742

50
h-index

60623

81
g-index

125
all docs

125
docs citations

125
times ranked

4367
citing authors

#	ARTICLE	IF	CITATIONS
1	The limits of fine particle flotation. Minerals Engineering, 2010, 23, 420-437.	4.3	304
2	Very Small Bubble Formation at the Solid-Water Interface. Journal of Physical Chemistry B, 2003, 107, 6139-6147.	2.6	277
3	Particle-bubble collision models a review. Advances in Colloid and Interface Science, 2000, 85, 231-256.	14.7	274
4	The evolution of surface layers formed during chalcopyrite leaching. Geochimica Et Cosmochimica Acta, 2006, 70, 4392-4402.	3.9	238
5	Bubble-particle attachment and detachment in flotation. International Journal of Mineral Processing, 1999, 56, 133-164.	2.6	231
6	Bubble particle heterocoagulation under turbulent conditions. Journal of Colloid and Interface Science, 2003, 265, 141-151.	9.4	162
7	The Inertial Hydrodynamic Interaction of Particles and Rising Bubbles with Mobile Surfaces. Journal of Colloid and Interface Science, 1998, 197, 275-292.	9.4	160
8	Zeta potential study of the oxidation of copper sulfide minerals. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1999, 146, 113-121.	4.7	152
9	The terminal rise velocity of 10-100 µm diameter bubbles in water. Journal of Colloid and Interface Science, 2008, 322, 168-172.	9.4	144
10	An electrokinetic study of pyrite oxidation. Colloids and Surfaces, 1992, 62, 63-73.	0.9	141
11	Particle-Bubble Attachment in Mineral Flotation. Journal of Colloid and Interface Science, 1999, 217, 70-76.	9.4	136
12	Polymer depressants at the talc-water interface: adsorption isotherm, microflotation and electrokinetic studies. International Journal of Mineral Processing, 2002, 67, 211-227.	2.6	134
13	Oxidation of Galena Surfaces. Journal of Colloid and Interface Science, 1994, 164, 333-344.	9.4	123
14	Control of grinding conditions in the flotation of chalcopyrite and its separation from pyrite. International Journal of Mineral Processing, 2003, 69, 87-100.	2.6	123
15	The Limits of Fine and Coarse Particle Flotation. Canadian Journal of Chemical Engineering, 2007, 85, 739-747.	1.7	116
16	Pentlandite-lizardite interactions and implications for their separation by flotation. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2005, 252, 207-212.	4.7	114
17	The influence of dissolved gas on the interactions between surfaces of different hydrophobicity in aqueous media Part I. Measurement of interaction forces. Physical Chemistry Chemical Physics, 1999, 1, 2793-2798.	2.8	101
18	Calculation of the flotation rate constant of chalcopyrite particles in an ore. International Journal of Mineral Processing, 2003, 72, 227-237.	2.6	100

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19	The Effect of Surface Modification by an Organosilane on the Electrochemical Properties of Kaolinite. <i>Clays and Clay Minerals</i> , 1994, 42, 123-136.	1.3	95
20	Cu(II) and Ni(II) activation in the flotation of quartz, lizardite and chlorite. <i>International Journal of Mineral Processing</i> , 2005, 76, 75-81.	2.6	92
21	Control of grinding conditions in the flotation of galena and its separation from pyrite. <i>International Journal of Mineral Processing</i> , 2003, 70, 67-82.	2.6	89
22	Effect of adding anionic surfactant on the stability of Pickering emulsions. <i>Journal of Colloid and Interface Science</i> , 2009, 329, 173-181.	9.4	88
23	Effect of polyphosphate and naphthalene sulfonate formaldehyde condensate on the rheological properties of dewatered tailings and cemented paste backfill. <i>Minerals Engineering</i> , 2006, 19, 28-36.	4.3	87
24	Characterisation of sphalerite and pyrite flotation samples by XPS and ToF-SIMS. <i>International Journal of Mineral Processing</i> , 2003, 70, 205-219.	2.6	86
25	Interfacial displacement of nanoparticles by surfactant molecules in emulsions. <i>Journal of Colloid and Interface Science</i> , 2010, 349, 537-543.	9.4	86
26	Effect of surface oxide/hydroxide products on the collectorless flotation of copper-activated sphalerite. <i>International Journal of Mineral Processing</i> , 2006, 78, 231-237.	2.6	85
27	Shear-induced coalescence of oil-in-water Pickering emulsions. <i>Journal of Colloid and Interface Science</i> , 2011, 361, 170-177.	9.4	84
28	The hydrophobic force in flotation-a critique. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2001, 192, 39-51.	4.7	82
29	Effect of calcium minerals reactivity on fatty acids adsorption and flotation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018, 545, 157-166.	4.7	77
30	Selective depression of pyrite with polyacrylamide polymers. <i>International Journal of Mineral Processing</i> , 2001, 61, 13-22.	2.6	75
31	Effect of oil soluble surfactant in emulsions stabilised by clay particles. <i>Journal of Colloid and Interface Science</i> , 2008, 323, 410-419.	9.4	73
32	Flotation of Fine Particles: A Review. <i>Mineral Processing and Extractive Metallurgy Review</i> , 2021, 42, 473-483.	5.0	73
33	Colloid Stability and the Influence of Dissolved Gas. <i>Journal of Physical Chemistry B</i> , 2003, 107, 2986-2994.	2.6	72
34	Electrochemistry of the boehmite-water interface. <i>Colloids and Surfaces</i> , 1990, 51, 389-403.	0.9	71
35	Bubble-particle attachment. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1995, 91, 1997-2001.	1.7	70
36	Flotation of sphalerite and pyrite in the presence of sodium sulfite. <i>International Journal of Mineral Processing</i> , 2001, 63, 17-28.	2.6	69

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37	Effects of chemical functional groups on the polymer adsorption behavior onto titania pigment particles. <i>Journal of Colloid and Interface Science</i> , 2004, 274, 33-40.	9.4	68
38	Oxidation of Synthetic and Natural Samples of Enargite and Tennantite:Â 2. X-ray Photoelectron Spectroscopic Study. <i>Langmuir</i> , 1999, 15, 4530-4536.	3.5	67
39	Oxidation of Galena. <i>Journal of Colloid and Interface Science</i> , 1994, 164, 345-354.	9.4	65
40	Foaming of polypropylene glycols and glycol/MIBC mixtures. <i>Minerals Engineering</i> , 2005, 18, 179-188.	4.3	65
41	Ultraviolet-visible spectroscopic study of the kinetics of adsorption of ethyl xanthate on pyrite. <i>Journal of Colloid and Interface Science</i> , 1991, 143, 440-450.	9.4	64
42	Iron hydroxide complexes and their influence on the interaction between ethyl xanthate and pyrite. <i>Journal of Colloid and Interface Science</i> , 1992, 151, 225-235.	9.4	62
43	Aqueous film drainage at the quartz/water/air interface. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1993, 89, 817.	1.7	62
44	Analysis of the visible absorption and SERS excitation spectra of silver sols. <i>Journal of Chemical Physics</i> , 1987, 87, 3213-3217.	3.0	61
45	Paramagnetic Complexes of Manganese(II), Iron(III), and Gadolinium(III) as Contrast Agents for Magnetic Resonance Imaging. <i>Investigative Radiology</i> , 1987, 22, 322-327.	6.2	61
46	Influence of very small bubbles on particle/bubble heterocoagulation. <i>Journal of Colloid and Interface Science</i> , 2006, 301, 168-175.	9.4	60
47	Separation of enargite and tennantite from non-arsenic copper sulfide minerals by selective oxidation or dissolution. <i>International Journal of Mineral Processing</i> , 2001, 61, 109-119.	2.6	56
48	NMR compartmentalization of free water in the perfused rat heart. <i>Magnetic Resonance in Medicine</i> , 1985, 2, 187-194.	3.0	55
49	A study of the removal of oxidation products from sulfide mineral surfaces. <i>Minerals Engineering</i> , 1995, 8, 1347-1357.	4.3	54
50	Properties of Fatty Amineâ€“Silica Nanoparticle Interfacial Layers at the Hexaneâ€“Water Interface. <i>Journal of Physical Chemistry C</i> , 2012, 116, 3050-3058.	3.1	53
51	Flotation of fine particles in the presence of combined microbubbles and conventional bubbles. <i>Minerals Engineering</i> , 2020, 155, 106439.	4.3	53
52	The influence of dissolved gas on the interactions between surfaces of different hydrophobicity in aqueous media Part II. A spectroscopic study. <i>Physical Chemistry Chemical Physics</i> , 1999, 1, 2799-2803.	2.8	51
53	Reducing uncertainty in mineral flotationâ€“flotation rate constant prediction for particles in an operating plant ore. <i>International Journal of Mineral Processing</i> , 2007, 84, 89-98.	2.6	51
54	Bubble particle attachment efficiency. <i>Minerals Engineering</i> , 1994, 7, 657-665.	4.3	49

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55	Correlation between copper-activated pyrite flotation and surface species: Effect of pulp oxidation potential. <i>Minerals Engineering</i> , 2005, 18, 1208-1213.	4.3	49
56	Adsorption of modified dextrans to a hydrophobic surface: QCM-D studies, AFM imaging, and dynamic contact angle measurements. <i>Journal of Colloid and Interface Science</i> , 2010, 345, 417-426.	9.4	49
57	Influence of dissolved gas on bubble-particle heterocoagulation. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1998, 94, 1983-1987.	1.7	48
58	The role of surfactant structure on foam behaviour. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2005, 263, 233-238.	4.7	47
59	Influence of Surface Charge on Wetting Kinetics. <i>Langmuir</i> , 2010, 26, 17218-17224.	3.5	47
60	Stabilisation of titania pigment particles with anionic polymeric dispersants. <i>Powder Technology</i> , 2010, 202, 143-150.	4.2	45
61	The kinetics of electrolyte induced aggregation of Carey Lea Silver colloids. <i>Journal of Colloid and Interface Science</i> , 1991, 141, 168-179.	9.4	44
62	Effect of iron content in sphalerite on flotation. <i>Minerals Engineering</i> , 2005, 18, 1120-1122.	4.3	44
63	Kinetics of CO ₂ nanobubble formation at the solid/water interface. <i>Physical Chemistry Chemical Physics</i> , 2007, 9, 6327.	2.8	44
64	Influence of Dissolved Gas on van der Waals Forces between Bubbles and Particles. <i>Journal of Physical Chemistry A</i> , 2002, 106, 689-696.	2.5	42
65	Colloid stability of synthetic titania and the influence of surface roughness. <i>Journal of Colloid and Interface Science</i> , 2005, 286, 526-535.	9.4	41
66	Influence of polymer functional group architecture on titania pigment dispersion. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2005, 253, 183-191.	4.7	41
67	The Influence of Surface Hydrophobicity on Polyacrylamide Adsorption. <i>Langmuir</i> , 2009, 25, 4514-4521.	3.5	41
68	Formation of a copper-butyl ethoxycarbonyl thiourea complex. <i>Analytica Chimica Acta</i> , 1997, 346, 237-248.	5.4	39
69	Reduction of Surface Hydrophobicity Using a Stimulus-Responsive Polysaccharide. <i>Langmuir</i> , 2010, 26, 15865-15874.	3.5	39
70	Estimating the electrochemical reactivity of pyrite ores-their impact on pulp chemistry and chalcopyrite flotation behaviour. <i>Advanced Powder Technology</i> , 2013, 24, 801-809.	4.1	39
71	Marangoni effects in aqueous polypropylene glycol foams. <i>Journal of Colloid and Interface Science</i> , 2005, 286, 719-729.	9.4	38
72	The encapsulation and release of guanosine from PEGylated liposomes. <i>Journal of Liposome Research</i> , 2009, 19, 29-36.	3.3	37

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73	Structure of oil-in-water emulsions stabilised by silica and hydrophobised titania particles. <i>Journal of Colloid and Interface Science</i> , 2010, 342, 205-209.	9.4	37
74	The role of a fatty alcohol in improving calcium minerals flotation with oleate. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 560, 410-417.	4.7	37
75	Effect of oxidation potential and zinc sulphate on the separation of chalcopyrite from pyrite. <i>International Journal of Mineral Processing</i> , 2006, 80, 169-176.	2.6	36
76	Pre-concentration of nickel in laterite ores using physical separation methods. <i>Minerals Engineering</i> , 2019, 141, 105892.	4.3	36
77	Interaction force between an air bubble and a hydrophilic spherical particle in water, measured by the colloid probe technique. <i>International Journal of Mineral Processing</i> , 2009, 92, 121-127.	2.6	35
78	Critical copper concentration in sphalerite flotation: Effect of temperature and collector. <i>International Journal of Mineral Processing</i> , 2016, 146, 15-22.	2.6	35
79	Circular dichroism spectra and the interaction between acridine dyes and deoxyribonucleic acid. <i>The Journal of Physical Chemistry</i> , 1981, 85, 613-618.	2.9	34
80	Dynamics of Dewetting at the Nanoscale Using Molecular Dynamics. <i>Langmuir</i> , 2007, 23, 3774-3785.	3.5	34
81	Kinetics of Adsorption of Ethyl Xanthate on Pyrrhotite: In Situ UV and Infrared Spectroscopic Studies. <i>Journal of Colloid and Interface Science</i> , 1995, 172, 467-478.	9.4	33
82	Solution properties of thionocarbamate collectors. <i>International Journal of Mineral Processing</i> , 1996, 46, 137-153.	2.6	31
83	The use of a factorial experimental design to study collector properties of N-allyl-O-alkyl thionocarbamate collector in the flotation of a copper ore. <i>Minerals Engineering</i> , 2002, 15, 333-340.	4.3	30
84	Towards prediction of oxidation during grinding I. Galena flotation. <i>Minerals Engineering</i> , 2002, 15, 493-498.	4.3	30
85	Electrostatic attraction between a hydrophilic solid and a bubble. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 14527.	2.8	30
86	Titania pigment particles dispersion in water-based paint films. <i>Journal of Coatings Technology Research</i> , 2006, 3, 275-283.	2.5	29
87	The binding of 9-aminoacridine to calf thymus DNA in aqueous solution electronic spectral studies. <i>Biophysical Chemistry</i> , 1985, 23, 31-37.	2.8	27
88	Electrostatics and Metal Oxide Wettability. <i>Journal of Physical Chemistry C</i> , 2011, 115, 14914-14921.	3.1	26
89	Electrochemistry of the zirconium-water interface. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 1994, 85, 37-49.	4.7	25
90	Upgrading nickel in laterite ores by flotation. <i>Minerals Engineering</i> , 2018, 121, 100-106.	4.3	25

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91	Innovations in the flotation of fine and coarse particles. Journal of Physics: Conference Series, 2017, 879, 012002.	0.4	24
92	Depression of iron sulphide flotation in zinc roughers. Minerals Engineering, 2001, 14, 1067-1079.	4.3	23
93	The interfacial conformation of polypropylene glycols and foam behaviour. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2004, 250, 307-315.	4.7	23
94	Influence of pulp aeration on the flotation of chalcopyrite with xanthate in chalcopyrite/pyrite mixtures. International Journal of Mineral Processing, 2015, 134, 50-57.	2.6	23
95	Flotation of coarse composite particles: Effect of mineral liberation and phase distribution. Advanced Powder Technology, 2017, 28, 1849-1854.	4.1	22
96	Rheological studies of nickel oxide and quartz/hematite mixture systems. Advanced Powder Technology, 2011, 22, 471-475.	4.1	21
97	NMR study of the location of the anthroyloxy moiety on some n-(9-anthroyloxy)stearic acid probes solubilized in surfactant micelles. The Journal of Physical Chemistry, 1988, 92, 2301-2305.	2.9	20
98	A linear dichroism study of colloidal silver in stretched polymer films. Chemical Physics Letters, 1987, 139, 103-108.	2.6	19
99	An NMR Study on the Adsorption of a Metal Chelating Agent at a Micelle/Water Interface. Journal of Colloid and Interface Science, 1993, 157, 180-184.	9.4	19
100	Oxidation of Synthetic and Natural Samples of Enargite and Tennantite: 1. Dissolution and Zeta Potential Study. Langmuir, 1999, 15, 4524-4529.	3.5	19
101	Selective separation of very fine particles at a planar air-water interface. International Journal of Mineral Processing, 2010, 94, 35-42.	2.6	19
102	Study of the absorption spectra of pyrene complexed to paraquat in pentanol-sodium dodecylsulphate micelles. Journal of the Chemical Society, Faraday Transactions, 1990, 86, 2955-2960.	1.7	17
103	Flotation of Chalcopyrite and Molybdenite in the Presence of Organics in Water. Minerals (Basel,) Tj ETQq1 1 0.784314 rgBT /Overloc 2.0 17	2.0	17
104	Analysis of the visible-near-ultraviolet spectrum of 9-aminoacridine using dichroic spectra in stretched polymer films. Chemical Physics Letters, 1985, 117, 176-180.	2.6	15
105	Vibronic exciton bands. Absorption spectra of Eosin Y dimers. Journal of the Chemical Society, Faraday Transactions 2, 1986, 82, 15.	1.1	14
106	The selective aggregation and separation of titania from a mixed suspension of silica and titania. International Journal of Mineral Processing, 2005, 78, 1-10.	2.6	14
107	Ultrathin Wetting Films on Hydrophilic Titania Surfaces: Equilibrium and Dynamic Behavior. Journal of Physical Chemistry C, 2011, 115, 11065-11076.	3.1	14
108	Foamability of aqueous suspensions of fine graphite and quartz particles with a triblock copolymer. Journal of Colloid and Interface Science, 2010, 348, 460-468.	9.4	13

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109	Preconcentration strategies in the processing of nickel laterite ores part 3: Flotation testing. <i>Minerals Engineering</i> , 2015, 79, 279-286.	4.3	13
110	In-situ study of the kinetics of phosphoric acid interaction with calcite and fluorapatite by Raman spectroscopy and flotation. <i>Minerals Engineering</i> , 2021, 162, 106729.	4.3	13
111	Near-ultraviolet vibronic transitions of adenosine 5'-phosphate, adenosine, and its complexes with cis- and trans-diamminedichloroplatinum(II): spectral study of isotropic absorption, linear dichroism, and circular dichroism. <i>Journal of the American Chemical Society</i> , 1981, 103, 1908-1913.	13.7	12
112	Attenuated total reflectance infrared studies of liposome adsorption at the solid-liquid interface. <i>Colloids and Surfaces B: Biointerfaces</i> , 2004, 36, 147-153.	5.0	12
113	Boehmite suspension behaviour upon adsorption of methacrylate-phosphonate copolymers. <i>Powder Technology</i> , 2015, 269, 385-391.	4.2	12
114	Understanding the effect of sulphate in mining-process water on sulphide flotation. <i>Minerals Engineering</i> , 2021, 165, 106865.	4.3	12
115	The interfacial conformation of polypropylene glycols and their foam properties. <i>Minerals Engineering</i> , 2006, 19, 703-712.	4.3	11
116	The analytical model of nanoparticle recovery by microflotation. <i>Advances in Colloid and Interface Science</i> , 2012, 179-182, 114-122.	14.7	11
117	Effect of regrinding and pulp aeration on the flotation of chalcopyrite in chalcopyrite/pyrite mixtures. <i>Powder Technology</i> , 2014, 267, 61-67.	4.2	11
118	Vibronic exciton interactions. Resolution and interpretation of the temperature-dependent circular dichroism and absorption spectra of ApA and of dApA. <i>FEBS Journal</i> , 1984, 143, 1-7.	0.2	10
119	Characterisation and stability of lipid-DNA complexes. <i>Colloids and Surfaces B: Biointerfaces</i> , 2008, 67, 85-91.	5.0	7
120	Effects of polyethyleneimine-phosphonate-carboxylic copolymers on the dispersion of boehmite particles. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2015, 466, 10-17.	4.7	7
121	The relative solution and interfacial hydrophobicity of ethylene oxide-propylene oxide-ethylene oxide block copolymers. <i>Colloids and Surfaces</i> , 1992, 69, 147-153.	0.9	5
122	Brownian diffusion of ultrafine particles to an air-water interface. <i>Advanced Powder Technology</i> , 2009, 20, 262-266.	4.1	4
123	The Preparation of ^{99m} Tc-Tertiarybutylisonitrile (^{99m} Tc-TBI) by a method suitable for routine clinical use. <i>International Journal of Radiation Applications and Instrumentation Part B, Nuclear Medicine and Biology</i> , 1986, 13, 527-532.	0.3	3
124	Exciton Spectra of the 9-Aminoacridine Chromophore. <i>Australian Journal of Chemistry</i> , 1988, 41, 1331.	0.9	3
125	Honorary Note: John Ralston, AO. <i>Advances in Colloid and Interface Science</i> , 2012, 179-182, 1-4.	14.7	0