

# 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	Flotation of Fine Particles: A Review. <i>Mineral Processing and Extractive Metallurgy Review</i> , 2021, 42, 473-483.	5.0	73
2	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
3	Understanding the effect of sulphate in mining-process water on sulphide flotation. <i>Minerals Engineering</i> , 2021, 165, 106865.	4.3	12
4	Flotation of fine particles in the presence of combined microbubbles and conventional bubbles. <i>Minerals Engineering</i> , 2020, 155, 106439.	4.3	53
5	Pre-concentration of nickel in laterite ores using physical separation methods. <i>Minerals Engineering</i> , 2019, 141, 105892.	4.3	36
6	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
7	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
8	Upgrading nickel in laterite ores by flotation. <i>Minerals Engineering</i> , 2018, 121, 100-106.	4.3	25
9	Flotation of coarse composite particles: Effect of mineral liberation and phase distribution. <i>Advanced Powder Technology</i> , 2017, 28, 1849-1854.	4.1	22
10	Innovations in the flotation of fine and coarse particles. <i>Journal of Physics: Conference Series</i> , 2017, 879, 012002.	0.4	24
11	Flotation of Chalcopyrite and Molybdenite in the Presence of Organics in Water. <i>Minerals (Basel)</i> , 2017, 10, 17.	2.0	17
12	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
13	Preconcentration strategies in the processing of nickel laterite ores part 3: Flotation testing. <i>Minerals Engineering</i> , 2015, 79, 279-286.	4.3	13
14	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
15	Influence of pulp aeration on the flotation of chalcopyrite with xanthate in chalcopyrite/pyrite mixtures. <i>International Journal of Mineral Processing</i> , 2015, 134, 50-57.	2.6	23
16	Boehmite suspension behaviour upon adsorption of methacrylate-phosphonate copolymers. <i>Powder Technology</i> , 2015, 269, 385-391.	4.2	12
17	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
18	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

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19	The analytical model of nanoparticle recovery by microflotation. <i>Advances in Colloid and Interface Science</i> , 2012, 179-182, 114-122.	14.7	11
20	Honorary Note: John Ralston, AO. <i>Advances in Colloid and Interface Science</i> , 2012, 179-182, 1-4.	14.7	0
21	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
22	Electrostatics and Metal Oxide Wettability. <i>Journal of Physical Chemistry C</i> , 2011, 115, 14914-14921.	3.1	26
23	Ultrathin Wetting Films on Hydrophilic Titania Surfaces: Equilibrium and Dynamic Behavior. <i>Journal of Physical Chemistry C</i> , 2011, 115, 11065-11076.	3.1	14
24	Shear-induced coalescence of oil-in-water Pickering emulsions. <i>Journal of Colloid and Interface Science</i> , 2011, 361, 170-177.	9.4	84
25	Rheological studies of nickel oxide and quartz/hematite mixture systems. <i>Advanced Powder Technology</i> , 2011, 22, 471-475.	4.1	21
26	Selective separation of very fine particles at a planar airâ€“water interface. <i>International Journal of Mineral Processing</i> , 2010, 94, 35-42.	2.6	19
27	The limits of fine particle flotation. <i>Minerals Engineering</i> , 2010, 23, 420-437.	4.3	304
28	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
29	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
30	Foamability of aqueous suspensions of fine graphite and quartz particles with a triblock copolymer. <i>Journal of Colloid and Interface Science</i> , 2010, 348, 460-468.	9.4	13
31	Interfacial displacement of nanoparticles by surfactant molecules in emulsions. <i>Journal of Colloid and Interface Science</i> , 2010, 349, 537-543.	9.4	86
32	Stabilisation of titania pigment particles with anionic polymeric dispersants. <i>Powder Technology</i> , 2010, 202, 143-150.	4.2	45
33	Reduction of Surface Hydrophobicity Using a Stimulus-Responsive Polysaccharide. <i>Langmuir</i> , 2010, 26, 15865-15874.	3.5	39
34	Influence of Surface Charge on Wetting Kinetics. <i>Langmuir</i> , 2010, 26, 17218-17224.	3.5	47
35	Electrostatic attraction between a hydrophilic solid and a bubble. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 14527.	2.8	30
36	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

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37	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
38	Brownian diffusion of ultrafine particles to an air-water interface. <i>Advanced Powder Technology</i> , 2009, 20, 262-266.	4.1	4
39	The Influence of Surface Hydrophobicity on Polyacrylamide Adsorption. <i>Langmuir</i> , 2009, 25, 4514-4521.	3.5	41
40	The encapsulation and release of guanosine from PEGylated liposomes. <i>Journal of Liposome Research</i> , 2009, 19, 29-36.	3.3	37
41	The terminal rise velocity of 10-100 $\mu$ m diameter bubbles in water. <i>Journal of Colloid and Interface Science</i> , 2008, 322, 168-172.	9.4	144
42	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
43	Characterisation and stability of lipid-DNA complexes. <i>Colloids and Surfaces B: Biointerfaces</i> , 2008, 67, 85-91.	5.0	7
44	Kinetics of CO <sub>2</sub> nanobubble formation at the solid/water interface. <i>Physical Chemistry Chemical Physics</i> , 2007, 9, 6327.	2.8	44
45	Dynamics of Dewetting at the Nanoscale Using Molecular Dynamics. <i>Langmuir</i> , 2007, 23, 3774-3785.	3.5	34
46	Reducing uncertainty in mineral 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
47	The Limits of Fine and Coarse Particle Flotation. <i>Canadian Journal of Chemical Engineering</i> , 2007, 85, 739-747.	1.7	116
48	The evolution of surface layers formed during chalcopyrite leaching. <i>Geochimica Et Cosmochimica Acta</i> , 2006, 70, 4392-4402.	3.9	238
49	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
50	Influence of very small bubbles on particle/bubble heterocoagulation. <i>Journal of Colloid and Interface Science</i> , 2006, 301, 168-175.	9.4	60
51	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
52	Titania pigment particles dispersion in water-based paint films. <i>Journal of Coatings Technology Research</i> , 2006, 3, 275-283.	2.5	29
53	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
54	The interfacial conformation of polypropylene glycols and their foam properties. <i>Minerals Engineering</i> , 2006, 19, 703-712.	4.3	11

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55	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
56	Pentlandite–lizardite interactions and implications for their separation by flotation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2005, 252, 207-212.	4.7	114
57	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
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	Foaming of polypropylene glycols and glycol/MIBC mixtures. <i>Minerals Engineering</i> , 2005, 18, 179-188.	4.3	65
60	Effect of iron content in sphalerite on flotation. <i>Minerals Engineering</i> , 2005, 18, 1120-1122.	4.3	44
61	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
62	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
63	The selective aggregation and separation of titania from a mixed suspension of silica and titania. <i>International Journal of Mineral Processing</i> , 2005, 78, 1-10.	2.6	14
64	Marangoni effects in aqueous polypropylene glycol foams. <i>Journal of Colloid and Interface Science</i> , 2005, 286, 719-729.	9.4	38
65	The interfacial conformation of polypropylene glycols and foam behaviour. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2004, 250, 307-315.	4.7	23
66	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
67	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
68	Bubble particle heterocoagulation under turbulent conditions. <i>Journal of Colloid and Interface Science</i> , 2003, 265, 141-151.	9.4	162
69	Control of grinding conditions in the flotation of chalcopyrite and its separation from pyrite. <i>International Journal of Mineral Processing</i> , 2003, 69, 87-100.	2.6	123
70	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
71	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
72	Calculation of the flotation rate constant of chalcopyrite particles in an ore. <i>International Journal of Mineral Processing</i> , 2003, 72, 227-237.	2.6	100

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73	Colloid Stability and the Influence of Dissolved Gas. Journal of Physical Chemistry B, 2003, 107, 2986-2994.	2.6	72
74	Very Small Bubble Formation at the Solidâ€”Water Interface. Journal of Physical Chemistry B, 2003, 107, 6139-6147.	2.6	277
75	Influence of Dissolved Gas on van der Waals Forces between Bubbles and Particles. Journal of Physical Chemistry A, 2002, 106, 689-696.	2.5	42
76	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. Minerals Engineering, 2002, 15, 333-340.	4.3	30
77	Towards prediction of oxidation during grinding I. Galena flotation. Minerals Engineering, 2002, 15, 493-498.	4.3	30
78	Polymer depressants at the talcâ€”water interface: adsorption isotherm, microflotation and electrokinetic studies. International Journal of Mineral Processing, 2002, 67, 211-227.	2.6	134
79	Depression of iron sulphide flotation in zinc roughers. Minerals Engineering, 2001, 14, 1067-1079.	4.3	23
80	Selective depression of pyrite with polyacrylamide polymers. International Journal of Mineral Processing, 2001, 61, 13-22.	2.6	75
81	Separation of enargite and tennantite from non-arsenic copper sulfide minerals by selective oxidation or dissolution. International Journal of Mineral Processing, 2001, 61, 109-119.	2.6	56
82	Flotation of sphalerite and pyrite in the presence of sodium sulfite. International Journal of Mineral Processing, 2001, 63, 17-28.	2.6	69
83	The hydrophobic force in flotation-a critique. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2001, 192, 39-51.	4.7	82
84	Particleâ€”bubble collision models â€” a review. Advances in Colloid and Interface Science, 2000, 85, 231-256.	14.7	274
85	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
86	Bubbleâ€”particle attachment and detachment in flotation. International Journal of Mineral Processing, 1999, 56, 133-164.	2.6	231
87	Particleâ€”Bubble Attachment in Mineral Flotation. Journal of Colloid and Interface Science, 1999, 217, 70-76.	9.4	136
88	The influence of dissolved gas on the interactions between surfaces of different hydrophobicity in aqueous media Part II. A spectroscopic study. Physical Chemistry Chemical Physics, 1999, 1, 2799-2803.	2.8	51
89	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
90	Oxidation of Synthetic and Natural Samples of Enargite and Tennantite:Â 2. X-ray Photoelectron Spectroscopic Study. Langmuir, 1999, 15, 4530-4536.	3.5	67

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91	Oxidation of Synthetic and Natural Samples of Enargite and Tennantite:Â 1. Dissolution and Zeta Potential Study. <i>Langmuir</i> , 1999, 15, 4524-4529.	3.5	19
92	The Inertial Hydrodynamic Interaction of Particles and Rising Bubbles with Mobile Surfaces. <i>Journal of Colloid and Interface Science</i> , 1998, 197, 275-292.	9.4	160
93	Influence of dissolved gas on bubbleâ€particle heterocoagulation. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1998, 94, 1983-1987.	1.7	48
94	Formation of a copper-butyl ethoxycarbonyl thiourea complex. <i>Analytica Chimica Acta</i> , 1997, 346, 237-248.	5.4	39
95	Solution properties of thionocarbamate collectors. <i>International Journal of Mineral Processing</i> , 1996, 46, 137-153.	2.6	31
96	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
97	A study of the removal of oxidation products from sulfide mineral surfaces. <i>Minerals Engineering</i> , 1995, 8, 1347-1357.	4.3	54
98	Bubbleâ€particle attachment. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1995, 91, 1997-2001.	1.7	70
99	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
100	Oxidation of Galena Surfaces. <i>Journal of Colloid and Interface Science</i> , 1994, 164, 333-344.	9.4	123
101	Oxidation of Galena. <i>Journal of Colloid and Interface Science</i> , 1994, 164, 345-354.	9.4	65
102	Electrochemistry of the zirconâ€water interface. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 1994, 85, 37-49.	4.7	25
103	Bubble particle attachment efficiency. <i>Minerals Engineering</i> , 1994, 7, 657-665.	4.3	49
104	An NMR Study on the Adsorption of a Metal Chelating Agent at a Micelle/Water Interface. <i>Journal of Colloid and Interface Science</i> , 1993, 157, 180-184.	9.4	19
105	Aqueous film drainage at the quartz/water/air interface. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1993, 89, 817.	1.7	62
106	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
107	An electrokinetic study of pyrite oxidation. <i>Colloids and Surfaces</i> , 1992, 62, 63-73.	0.9	141
108	The relative solution and interfacial hydrophobicity of ethylene oxideâ€propylene oxideâ€ethylene oxide block copolymers. <i>Colloids and Surfaces</i> , 1992, 69, 147-153.	0.9	5

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109	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
110	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
111	Electrochemistry of the boehmite-water interface. <i>Colloids and Surfaces</i> , 1990, 51, 389-403.	0.9	71
112	Study of the absorption spectra of pyrene complexed to paraquat in pentanol-sodium dodecylsulphate micelles. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1990, 86, 2955-2960.	1.7	17
113	NMR study of the location of the anthroyloxy moiety on some n-(9-anthroyloxy)stearic acid probes solubilized in surfactant micelles. <i>The Journal of Physical Chemistry</i> , 1988, 92, 2301-2305.	2.9	20
114	Exciton Spectra of the 9-Aminoacridine Chromophore. <i>Australian Journal of Chemistry</i> , 1988, 41, 1331.	0.9	3
115	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
116	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
117	A linear dichroism study of colloidal silver in stretched polymer films. <i>Chemical Physics Letters</i> , 1987, 139, 103-108.	2.6	19
118	Vibronic exciton bands. Absorption spectra of Eosin Y dimers. <i>Journal of the Chemical Society, Faraday Transactions 2</i> , 1986, 82, 15.	1.1	14
119	The Preparation of <sup>99m</sup> Tc-Tertiarybutylisonitrile ( <sup>99m</sup> 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
120	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
121	Analysis of the visible-near-ultraviolet spectrum of 9-aminoacridine using dichroic spectra in stretched polymer films. <i>Chemical Physics Letters</i> , 1985, 117, 176-180.	2.6	15
122	NMR compartmentalization of free water in the perfused rat heart. <i>Magnetic Resonance in Medicine</i> , 1985, 2, 187-194.	3.0	55
123	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
124	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.	18.7	12
125	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