

Fiona M Doyle

List of Publications by Year in descending order

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57
papers

3,562
citations

236925

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175258

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57
all docs

57
docs citations

57
times ranked

4065
citing authors

#	ARTICLE	IF	CITATIONS
1	Material Removal Mechanism during Copper Chemical Mechanical Planarization Based on Nano-Scale Material Behavior. ECS Journal of Solid State Science and Technology, 2017, 6, P235-P242.	1.8	11
2	Editors' Choice "Efficiency of a CMP Pad at Removing Protective Material from Copper during CMP. ECS Journal of Solid State Science and Technology, 2017, 6, P187-P196.	1.8	6
3	Oxidation of Benzene by Persulfate in the Presence of Fe(III)- and Mn(IV)-Containing Oxides: Stoichiometric Efficiency and Transformation Products. Environmental Science & Technology, 2016, 50, 890-898.	10.0	257
4	Multi-Temperature Zone, Droplet-Based Microreactor for Increased Temperature Control in Nanoparticle Synthesis. Small, 2014, 10, 1076-1080.	10.0	37
5	A critical review on solvent extraction of rare earths from aqueous solutions. Minerals Engineering, 2014, 56, 10-28.	4.3	978
6	In Situ Chemical Oxidation of Contaminated Groundwater by Persulfate: Decomposition by Fe(III)- and Mn(IV)-Containing Oxides and Aquifer Materials. Environmental Science & Technology, 2014, 48, 10330-10336.	10.0	345
7	A Review on Recovery of Copper and Cyanide From Waste Cyanide Solutions. Mineral Processing and Extractive Metallurgy Review, 2013, 34, 387-411.	5.0	19
8	Exploring the cycle behavior of electrodeposited vanadium oxide electrochemical capacitor electrodes in various aqueous environments. Journal of Power Sources, 2013, 228, 120-131.	7.8	52
9	Microdroplet-based synthesis and centrifuge-free retrieval of nanoparticles via a continuous flow micropost array railing system. , 2013, , .		1
10	Influence of Copper Ion Concentration on the Kinetics of Formation of a Protective Layer on Copper in an Acidic CMP Solution Containing BTA and Glycine. Journal of the Electrochemical Society, 2013, 160, H653-H658.	2.9	6
11	Kinetics and efficiency of H ₂ O ₂ activation by iron-containing minerals and aquifer materials. Water Research, 2012, 46, 6454-6462.	11.3	142
12	Response to Comment on "Inhibitory Effect of Dissolved Silica on H ₂ O ₂ Decomposition by Iron(III) and Manganese(IV) Oxides: Implications for H ₂ O ₂ -Based In Situ Chemical Oxidation". Environmental Science & Technology, 2012, 46, 3593-3594.	10.0	2
13	Dissolution of mesoporous silica supports in aqueous solutions: Implications for mesoporous silica-based water treatment processes. Applied Catalysis B: Environmental, 2012, 126, 258-264.	20.2	75
14	Characterization of Magnetic and Non-Magnetic Iron Oxide Nanoparticles Synthesized by Different Routes. , 2012, , 99-106.		2
15	Inhibitory Effect of Dissolved Silica on H ₂ O ₂ Decomposition by Iron(III) and Manganese(IV) Oxides: Implications for H ₂ O ₂ -Based In Situ Chemical Oxidation. Environmental Science & Technology, 2012, 46, 1055-1062.	10.0	82
16	Copper CMP Modeling: Millisecond Scale Adsorption Kinetics of BTA in Glycine-Containing Solutions at pH 4. Journal of the Electrochemical Society, 2010, 157, H1153.	2.9	29
17	Production of Oxidizing Intermediates during Corrosion of Iron: Implications for Remediation of Contaminants from Mineral and Metal Processing. ECS Transactions, 2010, 28, 117-127.	0.5	0
18	Fundamental Mechanisms of Copper CMP "Passivation Kinetics of Copper in CMP Slurry Constituents. Materials Research Society Symposia Proceedings, 2009, 1157, 1.	0.1	8

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19	Integrated Tribo-Chemical Modeling of Copper CMP. Materials Research Society Symposia Proceedings, 2009, 1157, 1.	0.1	11
20	A Silica-Supported Iron Oxide Catalyst Capable of Activating Hydrogen Peroxide at Neutral pH Values. Environmental Science & Technology, 2009, 43, 8930-8935.	10.0	317
21	Ion Flotation of Co ²⁺ , Ni ²⁺ , and Cu ²⁺ Using Dodecyltriethylenetriamine (Ddien). Langmuir, 2009, 25, 8927-8934.	3.5	38
22	A novel continuous microfluidic reactor design for the controlled production of high-quality semiconductor nanocrystals. Journal of Nanoparticle Research, 2008, 10, 893-905.	1.9	28
23	A kinetic study of the electro-assisted reduction of chalcopyrite. Hydrometallurgy, 2008, 92, 26-33.	4.3	33
24	Synthesis of Mesostructured Copper Sulfide by Cation Exchange and Liquid-Crystal Templating. Advanced Materials, 2006, 18, 781-784.	21.0	58
25	Teaching and learning environmental hydrometallurgy. Hydrometallurgy, 2005, 79, 1-14.	4.3	13
26	The use of the chelating resin Dowex M-4195 in the adsorption of selected heavy metal ions from manganese solutions. Hydrometallurgy, 2005, 78, 147-155.	4.3	70
27	Copper electrodeposition onto extended surface area electrodes and the treatment of copper-containing waste streams. Scandinavian Journal of Metallurgy, 2005, 34, 363-368.	0.3	11
28	The effect of triethylenetetraamine (Trien) on the ion flotation of Cu ²⁺ and Ni ²⁺ . Journal of Colloid and Interface Science, 2003, 258, 396-403.	9.4	84
29	Ion flotation—its potential for hydrometallurgical operations. International Journal of Mineral Processing, 2003, 72, 387-399.	2.6	97
30	Effect of Hydrogen Peroxide on Oxidation of Copper in CMP Slurries Containing Glycine. Journal of the Electrochemical Society, 2003, 150, G718.	2.9	85
31	Mechanisms of Passivation of Copper in CMP Slurries Containing Peroxide and Glycine. Materials Research Society Symposia Proceedings, 2003, 767, 1.	0.1	8
32	EFFECT OF pH ON THE ADSORPTION OF SELECTED HEAVY METAL IONS FROM CONCENTRATED CHLORIDE SOLUTIONS BY THE CHELATING RESIN DOWEX M-4195. Separation Science and Technology, 2002, 37, 3169-3185.	2.5	84
33	The Role of Glycine in the Chemical Mechanical Planarization of Copper. Journal of the Electrochemical Society, 2002, 149, G352.	2.9	118
34	Electrochemistry of Copper in Aqueous Ethylenediamine Solutions. Journal of the Electrochemical Society, 2002, 149, B340.	2.9	53
35	A thermodynamic approach to ion flotation. II. Metal ion selectivity in the SDS—Cu—Ca and SDS—Cu—Pb systems. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2001, 178, 93-103.	4.7	19
36	A thermodynamic approach to ion flotation. I. Kinetics of cupric ion flotation with alkylsulfates. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2001, 178, 79-92.	4.7	26

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37	Electrochemistry of Copper in Aqueous Glycine Solutions. Journal of the Electrochemical Society, 2001, 148, B51.	2.9	121
38	Formation of epoxy skin layers on the surface of supported liquid membranes containing polyamines. Journal of Membrane Science, 1999, 159, 167-175.	8.2	15
39	Formation of semi-permeable polyamide skin layers on the surface of supported liquid membranes. Journal of Membrane Science, 1998, 147, 109-116.	8.2	53
40	Hydrometallurgical Processing Routes in the Synthesis of Advanced Materials. Mineral Processing and Extractive Metallurgy Review, 1998, 19, 481-521.	5.0	0
41	Solubility products of salts of selected metal ions and anionic C12 surfactants. Separation and Purification Technology, 1997, 12, 157-164.	7.9	14
42	Kinetics of hydrolysis and precipitation in aqueous-organic systems. I. Analysis of homogeneous nucleation and agglomeration. Hydrometallurgy, 1994, 35, 203-222.	4.3	10
43	Kinetics of hydrolysis and precipitation in aqueous-organic systems. II. Analysis of heterogeneous growth. Hydrometallurgy, 1994, 35, 223-249.	4.3	7
44	Kinetics and mechanisms of precipitation of nickel ferrite by hydrolytic stripping of iron (III)-nickel carboxylate solutions. Hydrometallurgy, 1994, 35, 251-265.	4.3	14
45	Aqueous processing of minerals, metals, and materials. Jom, 1993, 45, 46-54.	1.9	12
46	Integrating solvent extraction with the processing of advanced ceramic materials. Hydrometallurgy, 1992, 29, 527-545.	4.3	21
47	Aqueous processing of minerals, metals and materials. Jom, 1991, 43, 43-51.	1.9	1
48	The aqueous processing of minerals and materials. Jom, 1990, 42, 52-59.	1.9	2
49	Aqueous processing of minerals and materials. Jom, 1989, 41, 51-58.	1.9	2
50	Iron removal during oxidative, acid pressure leaching of a zinc sulphide concentrate. International Journal of Mineral Processing, 1989, 25, 241-260.	2.6	4
51	The physical chemistry of the precipitation stripping process for removing iron (III) from carboxylate solutions with dilute Sulphuric Acid. Hydrometallurgy, 1988, 20, 65-85.	4.3	19
52	Solvent extraction of metals with carboxylic acids – Theoretical analysis of extraction behaviour. Hydrometallurgy, 1988, 19, 269-288.	4.3	26
53	Solvent extraction of metals with carboxylic acids – Coextraction of base metals with Fe(III) and characterization of selected carboxylate complexes. Hydrometallurgy, 1988, 19, 289-308.	4.3	26
54	Developments in Hydrometallurgy. Jom, 1988, 40, 32-38.	1.9	2

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55	ZrO ₂ Powders from Zirconium (IV) Carboxylates. <i>Jom</i> , 1987, 39, 34-37.	1.9	3
56	Software for computation of aqueous phase species distributions and solvent extraction with liquid cation exchangers. <i>Metallurgical and Materials Transactions B - Process Metallurgy and Materials Processing Science</i> , 1987, 18, 743-746.	0.4	5
57	AQUEOUS PROCESSING FOR ENVIRONMENTAL PROTECTION. , 0, , 279-305.		0