

# Fiona M Doyle

## List of Publications by Year in descending order

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57  
papers

3,562  
citations

236925

25  
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175258

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57  
docs citations

57  
times ranked

4065  
citing authors

#	ARTICLE	IF	CITATIONS
1	A critical review on solvent extraction of rare earths from aqueous solutions. <i>Minerals Engineering</i> , 2014, 56, 10-28.	4.3	978
2	In Situ Chemical Oxidation of Contaminated Groundwater by Persulfate: Decomposition by Fe(III)- and Mn(IV)-Containing Oxides and Aquifer Materials. <i>Environmental Science &amp; Technology</i> , 2014, 48, 10330-10336.	10.0	345
3	A Silica-Supported Iron Oxide Catalyst Capable of Activating Hydrogen Peroxide at Neutral pH Values. <i>Environmental Science &amp; Technology</i> , 2009, 43, 8930-8935.	10.0	317
4	Oxidation of Benzene by Persulfate in the Presence of Fe(III)- and Mn(IV)-Containing Oxides: Stoichiometric Efficiency and Transformation Products. <i>Environmental Science &amp; Technology</i> , 2016, 50, 890-898.	10.0	257
5	Kinetics and efficiency of H <sub>2</sub> O <sub>2</sub> activation by iron-containing minerals and aquifer materials. <i>Water Research</i> , 2012, 46, 6454-6462.	11.3	142
6	Electrochemistry of Copper in Aqueous Glycine Solutions. <i>Journal of the Electrochemical Society</i> , 2001, 148, B51.	2.9	121
7	The Role of Glycine in the Chemical Mechanical Planarization of Copper. <i>Journal of the Electrochemical Society</i> , 2002, 149, G352.	2.9	118
8	Ion flotation—its potential for hydrometallurgical operations. <i>International Journal of Mineral Processing</i> , 2003, 72, 387-399.	2.6	97
9	Effect of Hydrogen Peroxide on Oxidation of Copper in CMP Slurries Containing Glycine. <i>Journal of the Electrochemical Society</i> , 2003, 150, G718.	2.9	85
10	EFFECT OF pH ON THE ADSORPTION OF SELECTED HEAVY METAL IONS FROM CONCENTRATED CHLORIDE SOLUTIONS BY THE CHELATING RESIN DOWEX M-4195. <i>Separation Science and Technology</i> , 2002, 37, 3169-3185.	2.5	84
11	The effect of triethylenetetraamine (Trien) on the ion flotation of Cu <sup>2+</sup> and Ni <sup>2+</sup> . <i>Journal of Colloid and Interface Science</i> , 2003, 258, 396-403.	9.4	84
12	Inhibitory Effect of Dissolved Silica on H <sub>2</sub> O <sub>2</sub> Decomposition by Iron(III) and Manganese(IV) Oxides: Implications for H <sub>2</sub> O <sub>2</sub> -Based In Situ Chemical Oxidation. <i>Environmental Science &amp; Technology</i> , 2012, 46, 1055-1062.	10.0	82
13	Dissolution of mesoporous silica supports in aqueous solutions: Implications for mesoporous silica-based water treatment processes. <i>Applied Catalysis B: Environmental</i> , 2012, 126, 258-264.	20.2	75
14	The use of the chelating resin Dowex M-4195 in the adsorption of selected heavy metal ions from manganese solutions. <i>Hydrometallurgy</i> , 2005, 78, 147-155.	4.3	70
15	Synthesis of Mesostructured Copper Sulfide by Cation Exchange and Liquid-Crystal Templating. <i>Advanced Materials</i> , 2006, 18, 781-784.	21.0	58
16	Formation of semi-permeable polyamide skin layers on the surface of supported liquid membranes. <i>Journal of Membrane Science</i> , 1998, 147, 109-116.	8.2	53
17	Electrochemistry of Copper in Aqueous Ethylenediamine Solutions. <i>Journal of the Electrochemical Society</i> , 2002, 149, B340.	2.9	53
18	Exploring the cycle behavior of electrodeposited vanadium oxide electrochemical capacitor electrodes in various aqueous environments. <i>Journal of Power Sources</i> , 2013, 228, 120-131.	7.8	52

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19	Ion Flotation of Co <sup>2+</sup> , Ni <sup>2+</sup> , and Cu <sup>2+</sup> Using Dodecyldiethylenetriamine (Ddien). <i>Langmuir</i> , 2009, 25, 8927-8934.	3.5	38
20	Multi-Temperature Zone, Droplet-based Microreactor for Increased Temperature Control in Nanoparticle Synthesis. <i>Small</i> , 2014, 10, 1076-1080.	10.0	37
21	A kinetic study of the electro-assisted reduction of chalcopyrite. <i>Hydrometallurgy</i> , 2008, 92, 26-33.	4.3	33
22	Copper CMP Modeling: Millisecond Scale Adsorption Kinetics of BTA in Glycine-Containing Solutions at pH 4. <i>Journal of the Electrochemical Society</i> , 2010, 157, H1153.	2.9	29
23	A novel continuous microfluidic reactor design for the controlled production of high-quality semiconductor nanocrystals. <i>Journal of Nanoparticle Research</i> , 2008, 10, 893-905.	1.9	28
24	Solvent extraction of metals with carboxylic acids – Theoretical analysis of extraction behaviour. <i>Hydrometallurgy</i> , 1988, 19, 269-288.	4.3	26
25	Solvent extraction of metals with carboxylic acids – Coextraction of base metals with Fe(III) and characterization of selected carboxylate complexes. <i>Hydrometallurgy</i> , 1988, 19, 289-308.	4.3	26
26	A thermodynamic approach to ion flotation. I. Kinetics of cupric ion flotation with alkylsulfates. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2001, 178, 79-92.	4.7	26
27	Integrating solvent extraction with the processing of advanced ceramic materials. <i>Hydrometallurgy</i> , 1992, 29, 527-545.	4.3	21
28	The physical chemistry of the precipitation stripping process for removing iron (III) from carboxylate solutions with dilute Sulphuric Acid. <i>Hydrometallurgy</i> , 1988, 20, 65-85.	4.3	19
29	A thermodynamic approach to ion flotation. II. Metal ion selectivity in the SDS-Cu-Ca and SDS-Cu-Pb systems. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2001, 178, 93-103.	4.7	19
30	A Review on Recovery of Copper and Cyanide From Waste Cyanide Solutions. <i>Mineral Processing and Extractive Metallurgy Review</i> , 2013, 34, 387-411.	5.0	19
31	Formation of epoxy skin layers on the surface of supported liquid membranes containing polyamines. <i>Journal of Membrane Science</i> , 1999, 159, 167-175.	8.2	15
32	Kinetics and mechanisms of precipitation of nickel ferrite by hydrolytic stripping of iron (III)-nickel carboxylate solutions. <i>Hydrometallurgy</i> , 1994, 35, 251-265.	4.3	14
33	Solubility products of salts of selected metal ions and anionic C12 surfactants. <i>Separation and Purification Technology</i> , 1997, 12, 157-164.	7.9	14
34	Teaching and learning environmental hydrometallurgy. <i>Hydrometallurgy</i> , 2005, 79, 1-14.	4.3	13
35	Aqueous processing of minerals, metals, and materials. <i>Jom</i> , 1993, 45, 46-54.	1.9	12
36	Copper electrodeposition onto extended surface area electrodes and the treatment of copper-containing waste streams. <i>Scandinavian Journal of Metallurgy</i> , 2005, 34, 363-368.	0.3	11

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37	Integrated Tribo-Chemical Modeling of Copper CMP. Materials Research Society Symposia Proceedings, 2009, 1157, 1.	0.1	11
38	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
39	Kinetics of hydrolysis and precipitation in aqueous-organic systems. I. Analysis of homogeneous nucleation and agglomeration. Hydrometallurgy, 1994, 35, 203-222.	4.3	10
40	Mechanisms of Passivation of Copper in CMP Slurries Containing Peroxide and Glycine. Materials Research Society Symposia Proceedings, 2003, 767, 1.	0.1	8
41	Fundamental Mechanisms of Copper CMP – Passivation Kinetics of Copper in CMP Slurry Constituents. Materials Research Society Symposia Proceedings, 2009, 1157, 1.	0.1	8
42	Kinetics of hydrolysis and precipitation in aqueous-organic systems. II. Analysis of heterogeneous growth. Hydrometallurgy, 1994, 35, 223-249.	4.3	7
43	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
44	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
45	Software for computation of aqueous phase species distributions and solvent extraction with liquid cation exchangers. Metallurgical and Materials Transactions B - Process Metallurgy and Materials Processing Science, 1987, 18, 743-746.	0.4	5
46	Iron removal during oxidative, acid pressure leaching of a zinc sulphide concentrate. International Journal of Mineral Processing, 1989, 25, 241-260.	2.6	4
47	ZrO <sub>2</sub> Powders from Zirconium (IV) Carboxylates. Jom, 1987, 39, 34-37.	1.9	3
48	Developments in Hydrometallurgy. Jom, 1988, 40, 32-38.	1.9	2
49	Aqueous processing of minerals and materials. Jom, 1989, 41, 51-58.	1.9	2
50	The aqueous processing of minerals and materials. Jom, 1990, 42, 52-59.	1.9	2
51	Response to Comment on “Inhibitory Effect of Dissolved Silica on H <sub>2</sub> O <sub>2</sub> Decomposition by Iron(III) and Manganese(IV) Oxides: Implications for H <sub>2</sub> O <sub>2</sub> -Based In Situ Chemical Oxidation”. Environmental Science & Technology, 2012, 46, 3593-3594.	10.0	2
52	Characterization of Magnetic and Non-Magnetic Iron Oxide Nanoparticles Synthesized by Different Routes. , 2012, , 99-106.		2
53	Aqueous processing of minerals, metals and materials. Jom, 1991, 43, 43-51.	1.9	1
54	Microdroplet-based synthesis and centrifuge-free retrieval of nanoparticles via a continuous flow micropost array railing system. , 2013, , .		1

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55	Hydrometallurgical Processing Routes in the Synthesis of Advanced Materials. Mineral Processing and Extractive Metallurgy Review, 1998, 19, 481-521.	5.0	0
56	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
57	AQUEOUS PROCESSING FOR ENVIRONMENTAL PROTECTION. , 0, , 279-305.		0