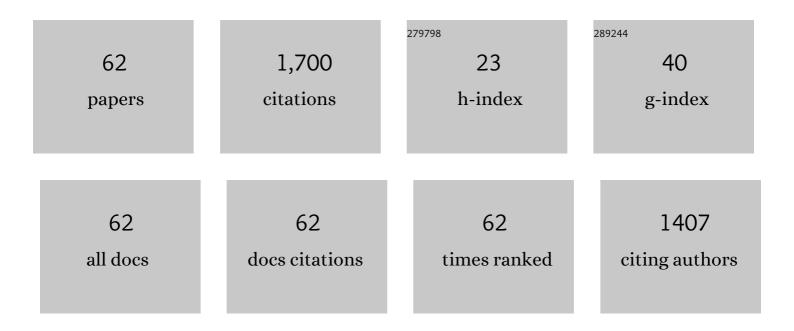
## Steven Bradshaw

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Solvent free microwave extraction of Elletaria cardamomum L.: A multivariate study of a new technique for the extraction of essential oil. Journal of Food Engineering, 2007, 79, 1079-1086.	5.2	185
2	An investigation into the influence of microwave treatment on mineral ore comminution. Powder Technology, 2004, 146, 176-184.	4.2	126
3	Recent developments in microwave-assisted comminution. International Journal of Mineral Processing, 2004, 74, 71-83.	2.6	112
4	Evaluating organic acids as alternative leaching reagents for metal recovery from lithium ion batteries. Minerals Engineering, 2019, 137, 108-117.	4.3	107
5	Bonded-particle modelling of microwave-induced damage in ore particles. Minerals Engineering, 2010, 23, 780-790.	4.3	76
6	Remediation of oil-contaminated drill cuttings using continuous microwave heating. Chemical Engineering Journal, 2009, 152, 458-463.	12.7	72
7	Combustion Synthesis of Aluminum Nitride Particles and Whiskers. Journal of the American Ceramic Society, 1999, 82, 2293-2300.	3.8	66
8	Scale-up and design of a continuous microwave treatment system for the processing of oil-contaminated drill cuttings. Chemical Engineering Research and Design, 2010, 88, 146-154.	5.6	66
9	Discrete element simulation of tribological interactions in rock cutting. International Journal of Rock Mechanics and Minings Sciences, 2014, 65, 8-19.	5.8	63
10	Quantifying damage around grain boundaries in microwave treated ores. Chemical Engineering and Processing: Process Intensification, 2009, 48, 1566-1573.	3.6	61
11	Confined particle bed breakage of microwave treated and untreated ores. Minerals Engineering, 2011, 24, 1625-1630.	4.3	51
12	A numerical modelling investigation into design variables influencing mixing efficiency in full scale gas stirred ladles. Minerals Engineering, 2013, 46-47, 16-24.	4.3	47
13	The effect of microwave pretreatment on the liberation of a copper carbonatite ore after milling. International Journal of Mineral Processing, 2008, 85, 121-128.	2.6	45
14	A mathematical modelling study of fluid flow and mixing in full-scale gas-stirred ladles. Progress in Computational Fluid Dynamics, 2009, 9, 345.	0.2	42
15	A computational fluid dynamics model for the flotation rate constant, Part I: Model development. Minerals Engineering, 2014, 69, 214-222.	4.3	40
16	The extraction of Pt, Pd and Au from an alkaline cyanide simulated heap leachate by granular activated carbon. Minerals Engineering, 2014, 55, 11-17.	4.3	38
17	Computational fluid dynamic modelling of an electric furnace used in the smelting of PGM containing concentrates. Minerals Engineering, 2009, 22, 995-1006.	4.3	33
18	Evaluation of the Merrill–Crowe process for the simultaneous removal of platinum, palladium and gold from cyanide leach solutions. Hydrometallurgy, 2014, 142, 36-46.	4.3	32

Steven Bradshaw

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19	Quantification of numerical uncertainty in computational fluid dynamics modelling of hydrocyclones. Computers and Chemical Engineering, 2012, 43, 45-54.	3.8	31
20	The effect of temperature, cyanide and base metals on the adsorption of Pt, Pd and Au onto activated carbon. Hydrometallurgy, 2014, 149, 132-142.	4.3	30
21	Comparing iron phosphate and hematite precipitation processes for iron removal from chloride leach solutions. Minerals Engineering, 2016, 98, 14-21.	4.3	27
22	Spontaneous combustion of coal stockpiles - an unusual chemical reaction engineering problem. Chemical Engineering Science, 1988, 43, 2139-2145.	3.8	24
23	The extraction of platinum and palladium from a synthetic cyanide heap leach solution with strong base anion exchange resins. International Journal of Mineral Processing, 2017, 162, 27-35.	2.6	24
24	SELF-IGNITION AND CONVECTION PATTERNS IN AN INFINITE COAL LAYER. Chemical Engineering Communications, 1991, 105, 255-278.	2.6	21
25	Factors affecting the elution of Pt, Pd and Au cyanide from activated carbon. Minerals Engineering, 2015, 80, 14-24.	4.3	21
26	A CFD-kinetic model for the flotation rate constant, Part II: Model validation. Minerals Engineering, 2014, 69, 205-213.	4.3	20
27	Development of a novel solvent extraction process using citric acid for lithium-ion battery recycling. Minerals Engineering, 2021, 173, 107204.	4.3	18
28	Determination of the relative leaching kinetics of Cu, Rh, Ru and Ir during the sulphuric acid pressure leaching of leach residue derived from Ni–Cu converter matte enriched in platinum group metals. Minerals Engineering, 2011, 24, 583-589.	4.3	17
29	The Dependence of Microwave Regeneration of Activated Carbon on Time and Temperature. Journal of Microwave Power and Electromagnetic Energy, 1998, 33, 151-157.	0.8	16
30	Microwave Initiated Self-Propagating High-Temperature Synthesis of SiC. Journal of Materials Synthesis and Processing, 2001, 9, 363-368.	0.3	14
31	Long-term evaluation of a UF pilot plant for potable water production. Desalination, 1998, 115, 229-238.	8.2	13
32	An experimental study of the effect of microwave treatment on long term bioleaching of coarse, massive zinc sulphide ore particles. Hydrometallurgy, 2017, 173, 106-114.	4.3	13
33	The development of a caustic pre-leaching step for the recovery of Au from a refractory ore tailings heap. Minerals Engineering, 2018, 121, 23-30.	4.3	13
34	Physical and numerical modelling of a four-strand steelmaking tundish using flow analysis of different configurations. Journal of the South African Institute of Mining and Metallurgy, 2015, 115, 355-362.	0.5	13
35	Modelling of an autoclave used for high pressure sulphuric acid/oxygen leaching of first stage leach residue. Part 1: Model development. Minerals Engineering, 2013, 53, 220-227.	4.3	12
36	Techno-Economic Considerations in the Commercial Microwave Processing of Mineral Ores. Journal of Mineral Ores. Journal of Microwave Power and Electromagnetic Energy, 2005, 40, 228-240.	0.8	11

Steven Bradshaw

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37	Reverse-pressure back-flush in pilot scale, dead-end ultrafiltration of surface water. Journal of Membrane Science, 2005, 252, 51-63.	8.2	9
38	Precipitation of Ru, Rh and Ir with iron ions from synthetic nickel sulphate leach solutions. Hydrometallurgy, 2018, 175, 79-92.	4.3	9
39	Pyrometallurgical upgrading of PGM-rich leach residues from the Western Platinum base metals refinery through roasting. Minerals Engineering, 2013, 53, 228-240.	4.3	8
40	Modelling of an autoclave used for high pressure sulphuric acid/oxygen leaching of first stage leach residue, Part 2: Model application. Minerals Engineering, 2013, 53, 213-219.	4.3	7
41	The Efficiency of Black Mass Preparation by Discharge and Alkaline Leaching for LIB Recycling. Minerals (Basel, Switzerland), 2022, 12, 753.	2.0	7
42	Thermochemical stress development in ceramic catalyst supports. Chemical Engineering Science, 1993, 48, 1925-1932.	3.8	6
43	Fault detection for simulated valve faults in a high pressure leaching process. IFAC-PapersOnLine, 2016, 49, 394-399.	0.9	6
44	The elution of platinum and palladium cyanide from strong base anion exchange resins. International Journal of Mineral Processing, 2017, 162, 19-26.	2.6	6
45	Prediction of gas holdup in a column flotation cell using computational fluid dynamics (CFD). Journal of the Southern African Institute of Mining and Metallurgy, 2019, 119, .	0.3	6
46	Performance Quantification of Applicators for Microwave Treatment of Crushed Mineral Ore. Journal of Microwave Power and Electromagnetic Energy, 2011, 45, 30-35.	0.8	5
47	Microwave Treatment of Oil-Contaminated Drill Cuttings at Pilot Scale. SPE Drilling and Completion, 2009, 24, 430-435.	1.6	4
48	CFD modelling of molten matte and slag flows in a circular three-phase smelting furnace. Progress in Computational Fluid Dynamics, 2009, 9, 316.	0.2	4
49	Estimation of Rh, Ru, and Ir leaching kinetics during the sulfuric acid pressure leaching of Ni–Cu matte as a function of temperature, pressure, and acid concentration. Hydrometallurgy, 2013, 138, 21-32.	4.3	4
50	An optimisation methodology for a supply chain operating under any pertinent conditions of uncertainty - an application with two forms of operational uncertainty, multi-objectivity and fuzziness. International Journal of Operational Research, 2015, 23, 200.	0.2	4
51	Determination of the equilibrium and film diffusion constants of the platinum cyanide anions during the elution from activated carbon. Minerals Engineering, 2015, 80, 57-68.	4.3	4
52	Thermal stresses during cooling of prismatic bodies. Chemical Engineering Science, 1994, 49, 1613-1619.	3.8	3
53	Microwave treatment of oil-contaminated drill cuttings at pilot scale. , 2008, , .		3
54	The stability of a compressible fluid with variable transport properties in a horizontal chemical vapour deposition reactor. The Chemical Engineering Journal and the Biochemical Engineering Journal, 1994, 54, 137-145.	0.1	2

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55	Effect of Grain Size and Thermo-Mechanical Properties of Minerals on Strength Reduction of Binary Ores Subjected to Microwave Radiation. , 2008, , .		2
56	Microwave Drying: Process Engineering Aspects. , 2006, , 271-281.		1
57	Reactor design model for the aerosol synthesis of sinterable aluminium nitride powder. Journal of Aerosol Science, 2000, 31, 885-886.	3.8	0
58	Carbinatite Sample Computer Modeling for Use in Electromagnetic Field Simulations. , 2006, , .		0
59	The planning and optimisation of a supply chain network under conditions of uncertainty. International Journal of Operational Research, 2016, 27, 411.	0.2	0
60	Investigating the behaviour of PGEs during first-stage leaching of a Ni-Fe-Cu-S converter matte. Journal of the Southern African Institute of Mining and Metallurgy, 2018, 118, 353-360.	0.3	0
61	Investigation of flow regime transition in a column flotation cell using CFD. Journal of the Southern African Institute of Mining and Metallurgy, 2019, 119, .	0.3	0
62	Behaviour of Cu, Fe, Ni, and PGMs during leaching of Ni-Fe-Cu-S converter matte. Journal of the Southern African Institute of Mining and Metallurgy, 2021, 121, 1-8.	0.3	0