Publications List

Books, Theses, Book Chapters, Book Reviews

1. **Grano,** S. R., (2010). *Chemical measurements during plant surveys and their interpretation*. Chapter 6, in Flotation Plant Optimisation: *A Metallurgical Guide to Identifying and Solving Problems in Flotation Plants*, (Ed: C J Greet), Spectrum Series No 16 (The Australasian Institute of Mining and Metallurgy: Melbourne). ISBN: 978 1 921522 14 7, pp 107 – 121.
2. Ralston, J., Fornasiero, D., and **Grano**, S.R., (2007). *Pulp and solution chemistry* (M.C. Fuerstenau, G Jameson and R-H Yoon eds.), Froth Flotation: A Century of Innovation, pp 227-258.
3. Smart, R. St. C., Amarantidis, J., Skinner, W., Prestidge, C.A., La Vanier, L. and **Grano**, S.R., (2003). *Surface analytical studies of oxidation and collector adsorption in sulfide mineral flotation*, (K. Wandelt, S. Thurgate eds.), Solid-Liquid Interfaces, Topics Appl. Phys., 85, pp 3-62.
4. **Grano**, S. R., (1997). Doctor of Philosophy in Chemical Technology. *Mechanisms for the action of sulphite and carbonate ions in the flotation of the Hilton ore of Mount Isa Mines Limited*, University of South Australia, Adelaide, Australia.
5. **Grano**, S.R., (1992). Master of Applied Science in Chemical Technology. *Influence of pyrite and pyrrhotite on the selective flotation of Mount Isa Mines Copper and Lead/Zinc ores*, South Australian Institute of Technology, Adelaide, Australia.

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6. Peng, Y., and **Grano**, S.R., (2010). *Dissolution of fine and intermediate sized galena particles and their interactions with iron hydroxide colloids*, Journal of Colloid and Interface Science, In Press, Accepted Manuscript.
7. Peng, Y., and **Grano**, S.R., (2010). *Effect of grinding media on the activation of pyrite flotation,* Minerals Engineering, In Press, Corrected Proof.
8. Zanin, M., Ametov, I., **Grano**, S., Zhou, L., and Skinner, W., (2009). *A study of mechanism affecting molybdenite recovery in a bulk copper/molybdenum flotation circuit*. International Journal of Mineral Processing, Vol 93 pp 256 - 266.
9. Tan, S.N., Jiang, A., Liau, J.J., **Grano**, S.R., and Horn, R.G., (2009). *The surface dilational viscosity of polypropylene glycol solutions and its influence on water flow and foam behaviour*. International Journal of Mineral Processing, Vol 93, pp 194 – 203.
10. Zanin, M., Wightman, E., **Grano**, S.R., and Franzidis, J.P., (2009). *Quantifying contributions to froth stability in porphyry copper plants*. International Journal of Mineral Processing, Vol 91, pp 19 – 27.
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12. Gredelj, S, Zanin, M and **Grano**, S R, (2009). *Selective flotation of carbon in the Pb-Zn carbonaceous sulphide ores of Century Mine, Zinifex*. Minerals Engineering, 22(3): 279-288.
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17. Duarte, A.C.P., and **Grano**, S.R., (2007). *Mechanism for the recovery of silicate gangue minerals in the flotation of ultrafine sphalerite*. Minerals Engineering, Vol 20, 766-775.

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19. Huang, G. and **Grano**, S., (2006). *Galvanic interaction between grinding media and arsenopyrite and its effect on flotation, Part I. Quantifying galvanic interaction during grinding*, International Journal of Mineral Processing Vol 78 pp 182-197.

20. Huang, G. and **Grano**, S., (2006). *Galvanic interaction between grinding media and arsenopyrite and its effect on flotation, Part II: Effect of grinding on flotation*, International Journal of Mineral Processing Vol 78 pp 178-213.

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(Note: Int. Min. Process. Congr. is rank A and Chemeca is rank B in the ERA category Resource Engineering and Extractive Metallurgy 2010).

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78. Newell, R. and **Grano**, S., (2003). *Bubble size distribution in a Rushton turbine flotation cell*, in Chemeca 2003., 31st Annual Australasian Chemical Engineering Conference, (Q.D., Nguyen, P.G., Ashman, K., Quast, and N. Swaine eds.).

79. Peng, Y., **Grano**, S.R., Fornasiero, D., and Ralston, J., (2003). *The effect of grinding conditions on fine galena flotation and its separation from pyrite*, XXII International Mineral Processing Congress., Sth. Afr. Inst. Min. Metall. Publ., L. Lorenzen and D. Bradshaw eds., pp 696-705.

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91. Kristall, Z., **Grano**, S.R., Reynolds, K., Smart, R.St.C. and Ralston, J., (1994). *An investigation of sphalerite flotation in the Murchison Zinc concentrator*, In: Fifth Mill Operators Conference (Aust. Inst. Min. Metall. Publ.), Roxby Downs, pp 171-179.

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94. **Grano**, S.R., Griffen, L.K., Johnson, N.W., Smart, R.St.C. and Ralston, J., (1991). *Treatment of naturally hydrophobic gangue minerals at the copper concentrator of Mt. Isa Mines Limited*, Proc. of the Fourth Mill Operators Conference, North West Tasmania and Westcoast Tasmania Branches, (Aust. Inst. Min. Metall. Publ.), pp 121-128.

Invited Plenary Addresses at Conferences

1. *XXIIth International Mineral Processing Congress*, Cape Town South Africa, September 2003. Invited Chair and Paper Presented.
2. *IIR Conference Mineral Processing 2003*, Kalgoorlie Western Australia, May 2003. Invited Speaker and Paper Presented.
3. *Minerals Engineering Conference Flotation 2003*, Helsinki Finland, March 2003. Invited Chair and Paper Presented.
4. *Flotation and Flocculation from Fundamentals to Applications*, Hawaii USA, July/August 2002. Invited Speaker and Paper Presented.
5. *34th Annual Meeting of the Canadian Mineral Processors,* Ottawa Canada, January 2002. Invited Chair and Paper Presented.
6. *IIR Conference Mineral Processing 2001*, Perth Western Australia, July 2001. Invited Speaker and Paper Presented.
7. *Minerals Engineering Conference Flotation 2000,* Adelaide Australia, March 2000. Invited Chair and Paper Presented.
8. *6th Mill Operators Conference,* Madang Papua New Guinea, October 1997. Invited Chair and Paper Presented.

Submitted

1. Muganda, S., Zanin, M., and **Grano**. S.R., (2009). *Influence of particle size and contact angle on the flotation of chalcopyrite in a laboratory batch flotation cell.* International Journal of Mineral Processing.

2. Muganda, S., Zanin, M., and **Grano**. S.R., (2010). *Inferring an operational advancing contact angle on particles by flotation Part 1 – Single Minerals*. International Journal of Mineral Processing.

3. Muganda, S., Zanin, M., and **Grano**, S.R., (2009). *Inferring contact angle on particles by flotation Part2 – Ores*. Minerals Engineering.

4. Randriamanjatosoa, A.L., Zanin, M., Horn, R.G., and **Grano**, S.R., (2010). *Liquid flow in flowing foams Part 1: experimental study,* submitted to Chemical Engineering Science.

5. Randriamanjatosoa, A.L., Zanin, M., Horn, R.G., and **Grano**, S.R., (2010), *Liquid flow in flowing foams Part 2: model analysis,* submitted to Chemical Engineering Science.

6. Ye, X., Gredelj, S., Skinner, W., and **Grano**, S.R., (2009). *Evidence for surface cleaning of Sulphide minerals by attritioning in stirred mills*. Minerals Engineering.

7. Ye, X., Gredelj, S., Skinner, W., and **Grano**, S.R., (2010). *Regrinding sulphide minerals – distinguishing the effects of particle size, exposure of new mineral surfaces."* International Journal of Mineral Processing.

8. Ye, X., Gredelj, S., Skinner, W., and **Grano**, S.R., (2010). *Regrinding sulphide minerals – breakage mechanisms in milling and their influence on surface properties and flotation behaviour,* Powder Technology.