List of Publications (Amitabha Basu)

1. Investigation on the phenomenon of self-diffusion in mercury : Proc. Nucl. & Solid State Phys., (India) 15C, 1972.
2. Imvestigation on the phenomenon of self-diffusion in gallium : Proc. Nucl.& Solid State Phys., (India) 18C, 1975.
3. Determination of rate constants in liquid metals : Proc. Nucl.& Solid State Phys., (India), 19C, 1976.
4. Transverse electrokinetic phenomena in liquids : Proc. Nucl.& Solid State Phys., (India) 19C, 1976.
5. Application of tracer techniques for the study of diffusion in liquid metals :Proc. Appl. Radio-isotopes in Chem. & Met. Industries., (India), 1978.
6. Investigation on the phenomenon of self-diffusion in liquid metals using radioactive tracer technique : Ind. J. Pure & Appl. Phys., (India), 80, 987-90, 1980.
7. Measurement of self-diffusion in liquid metals : J. Chem. Engg. Data.
8. Measurement of self-diffusion coefficient in Hg and Ga by radioactive tracer technique : Ind. J. Pure & Appl. Phys., (India), 18, 87-90, 1980.
9. Nd^{3+}-in-glass lasers : Proc. Symp. Amorphous Materials, (India), 1983.
10. Laser glasses. : Invited talk delivered in the special symposium on Lasers and their Applications at the 70^{th} session of Indian Science Congress Association, Tirupati, (India), 1983.
11. Absorption spectra of copper(II) in tellurium containing glasses. : J. Mat. Sc. Letters., 3, 47-49, (1984).
12. Neodymium cointaining laser glasses : Trans. Ind. Cer. Soc., 43(2), 1984 .;Reprinted in Glass Udyog, 13(4), 29-41, 1984.
13. Friction dependent movement of lumps inside a rotary breaker : 9^{th} European Symposium on Communication : Paper accepted but could not be presented.
14. A simple theoretical description of movement of lumps inside a rotary Breaker : accepted in Int. J. Min. Processing.

15. Rotary breaker: A multipurpose pollution free dry separator : Asia Pacific Conf. on Env. Stat. for the 21st Century, Singapore : Paper accepted but could not be presented.
16. Rotary breaker: Calculation of critical speed : Bulk Solids Handling, 18(3),385-88, 1998.
17. Effect of friction on the movement of lumps in a rotary breaker : Int. Symp. On Beneficiation and Agglomeration (ISBA), Bhubaneshwar, 1999