

Publications in Refereed Journals and Conference Proceeding

A. In Journals:

1. N.P. Gurao, R. Kapoor and **Satyam Suwas** (2011), Deformation behaviour of CP Titanium at extreme strain rates, accepted for publication in **Acta Materialia**.
2. N.P. Gurao and **Satyam Suwas** (2011), Evolution of crystallographic texture during deformation of submicron grain size titanium. **Journal of Materials Research**, doi:10.1557/jmr.2010.70
3. S. Biswas, **Satyam Suwas**, R. Sikand and A.K. Gupta (2011), Analysis of texture evolution in pure magnesium and the magnesium alloy AM30 during rod and tube extrusion, **Materials Science and Engineering A**, doi:10.1016/j.msea.2011.01.021.
4. N.P. Gurao and **Satyam Suwas** (2011), "Texture evolution and operative mechanisms during large-strain deformation of nanocrystalline nickel", **Philosophical Magazine**, Volume 91, Number 5, pp. 798-817.
5. P. Kumar, N.P. Gurao, A. Haldar and **Satyam Suwas** (2011), "Progressive Changes in the Microstructure and Texture in Pearlitic Steel during Wire Drawing", **ISIJ International**, Vol. 51, No. 4, pp. 679-684.
6. **Satyam Suwas**, B. Beausir, L.S. Tóth, J.-J. Fundenberger, G. Gottstein (2011), "Texture evolution in commercially pure titanium after warm equal channel angular extrusion", **Acta Materialia**, Vol. 59, No. 3, pp. 1121-1133.
7. A. Sarkar, S. Roy, and **Satyam Suwas** (2011), "X-ray diffraction Line Profile Analysis of Deformation Microstructure in Boron modified Ti-6Al-4V Alloy", **Materials Characterization**, Vol. 62, No. 1, pp. 35-42.
8. D. Goran, J.-J. Fundenberger, E. Bouzy, W. Skrotzki, **Satyam Suwas**, T. Grosdidier and L.S. Tóth (2011), "Local texture and microstructure in cube oriented Nickel single crystal deformed by equal channel angular extrusion," **Philosophical Magazine**, Volume 91, Issue 2, First published 2011, pp. 281 - 299.
9. S. Roy, A. Sarkar and **Satyam Suwas** (2010), "On characterization of deformation microstructure in Boron modified Ti-6Al-4V Alloy", **Materials Science and Engineering A**, Volume A 528, pp. 449-458.
10. N.P. Gurao, R. Kapoor and **Satyam Suwas** (2010), "Effect of Strain rate on evolution of deformation microstructure and texture in polycrystalline copper and nickel" **Metallurgical and Materials Transactions A**, Volume 41, pp. 2794 - 2804.

11. R. Garg, S. Ranganathan and **Satyam Suwas** (2010), "Effect of mode of rolling and initial texture on microstructural and textural development in two phase ($\alpha+\beta$) brass", **Materials Science and Engineering A**, Volume A 527, pp. 4582–4592.
12. S. Biswas, S.S. Dhinwal and **Satyam Suwas** (2010), "Room Temperature Equal Channel Angular Extrusion of Magnesium", **Acta Materialia**, Volume 58, Issue 9, pp. 3247-3261
13. S.R. Dey, S. Roy, **Satyam Suwas**, J.-J. Fundenberger and R.K. Ray (2010), "Annealing Response of the Intermetallic alloy Ti-22Al-25Nb", **Intermetallics**, Volume 18, Issue 6, pp. 1122-1131.
14. W. Skrotzki, C. Tränkner, R. Chulist, B. Beausir, **Satyam Suwas** and L.S. Tóth (2010), Texture heterogeneity in ECAP deformed copper, **Solid State Phenomena**, Vol. 160, pp. 47-54.
15. A. Bhaumik, Somjeet Biswas, **Satyam Suwas**, R.K. Ray and D. Bhattacharjee (2009), "Evolution of Grain Boundary Microstructure and Texture in Interstitial-free Steel processed by Equal Channel Angular Extrusion", **Metallurgical and Materials Transactions A**, Vol. 40A, Issue 11 pp. 2729-2742.
16. N.P. Gurao and **Satyam Suwas** (2009), "Texture evolution during cold rolling of nanocrystalline Nickel", **Applied Physics Letters**, Vol. 94 No. 19, Article Number: 191902.
17. A. Sarkar, A. Bhowmik and **Satyam Suwas** (2009) "Microstructural characterization of ultrafine-grain interstitial-free steel by X-ray diffraction line profile analysis", **Applied Physics A: Materials Science and Processing**, Vol. 94, No. 4, pp. 943-948.
18. N.P. Gurao, Ashkar Ali A. and **Satyam Suwas** (2009), "Study of texture evolution in metastable β -Ti alloy as a function of strain path and its effect on a transformation texture", **Materials Science and Engineering A**, Vol. 504, Nos. 1-2, pp. 24-35.
19. B. Beausir, S. Biswas, D.-I. Kim, L.S. Tóth and **Satyam Suwas** (2009), "Analysis of microstructure and texture evolution in pure magnesium during symmetric and asymmetric rolling", **Acta Materialia**, Vol. 57, Issue 17, pp. 5061-5077.
20. B. Beausir, C. Fressengeas, N.P. Gurao, L.S. Tóth, **Satyam Suwas** (2009), "Spatial correlation in grain misorientation distribution" **Acta Materialia**, Vol. 57, Issue 18, pp. 5382-5395.
21. **Satyam Suwas**, R. Arruffat-Massion, L.S. Tóth, J.-J. Fundenberger, B. Beausir (2009), "Evolution of Texture during Equal Channel Angular Extrusion of Commercially Pure Aluminium: Experiments and Simulations", **Materials Science and Engineering A**, Vol. 520, Issues 1-2, pp. 134-146.
22. M.J.N.V. Prasad, **S. Suwas**, A.H. Chokshi (2009): "Microstructural evolution and mechanical characteristics in nanocrystalline nickel with a bimodal grain size

- distribution", **Materials Science and Engineering: A**, Vol. 503, Nos. 1-2, pp. 86-91.
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 25. B. Beausir, **Satyam Suwas**, L.S. Tóth, K.W. Neale and J.-J. Fundenberger (2008), "Analysis of texture evolution in magnesium during equal channel angular extrusion", **Acta Materialia**, Vol. 56, No. 2, pp.200-214.
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 27. **Satyam Suwas**, N.Gurao and Ashkar Ali A (2008), "Evolution of transformation texture in a metastable β Titanium alloy", **Ceramic Transactions**, Vol. 200, pp. 617-628.
 28. S. Roy, N.P. Gurao, **Satyam Suwas**, S. Tamirisakandala, R. Srinivasan and D.B. Miracle (2008): "Texture evolution in Boron Modified Ti-6Al-4V Alloy" , **Ceramic Transactions**, Vol. 200, pp. 585-592.
 29. **Satyam Suwas** and Nilesh P. Gurao (2008), "Crystallographic texture of materials", Journal of Indian Institute of Science, Vol. 88:2, Apr-Jun 2008, pp.151-177. (**Invited Review**)
 30. N. Gurao, **Satyam Suwas** and R. Kapoor (2008): "Texture evolution in FCC materials deformed at high strain rate", **Ceramic Transactions**, Vol. 201, pp.73-82.
 31. V.L. Niranjani, Nilesh P. Gurao, U. Wendt, **Satyam Suwas** and V.S. Sarma (2008): "Studies on Texture and Microstructure of cryo-rolled and annealed Cu-5%Al, Cu-5%Zn alloy", **Ceramic Transactions**, Vol. 201, pp. 529-536.
 32. **Satyam Suwas**, Somjeet Biswas and Satyaveer Singh D. and K. Chattopadhyay (2008): "Texture and grain boundary character distribution during Equal Channel Angular Extrusion of some two phase copper alloy", **Materials Science Forum**, Vol. 584-586, pp. 585-590.
 33. Somjeet Biswas, Satyaveer Singh D. and **Satyam Suwas** (2008): "Study of Textue Evolution of pure magnesium during ECAE using EBSD", **Materials Science Forum**, Vol. 584-586, pp. 343-348.

34. **Satyam Suwas**, G. Gottstein and R. Kumar (2007), "Evolution of crystallographic texture during Equal Channel Angular Extrusion (ECAE) and its effect on secondary processing of Magnesium", *Materials Science and Engineering A*, Vol. 471, No. 1-2, pp. 1-14.
35. W. Skrotzki, N. Scheerbaum, C.-G. Oertel, H.-G. Brokmeier, **Satyam Suwas**, L.S. Tóth (2007): "Recrystallization of high purity aluminium during equal channel angular pressing" *Acta Materialia*, Vol. 55, No. 7, pp. 2211-2218.
36. W. Skrotzki, N. Scheerbaum, C.-G. Oertel, R. Arruffat-Massion, **Satyam Suwas**, L.S. Tóth (2007): "Microstructure and texture gradient in copper deformed by equal channel angular pressing" *Acta Materialia*, Vol. 55, No. 6, pp. 2013-2024.
37. I. Beyerlein, L.S. Tóth, C.N. Tomé and **Satyam Suwas** (2007): "Role of deformation twinning on texture evolution of silver during equal channel angular extrusion", *Philosophical Magazine*, Vol. 87, No. 6, pp-885-906.
38. **Satyam Suwas** and D.-I. Kim (2007): "Annealing texture of ECAE processed Copper", *Materials Science Forum*, Vols. 558-559 pp. 1353-1358.
39. W. Skrotzki, B. Klöden, I. Hünsche, R. Chulist, **Satyam Suwas**, L.S. Tóth (2007): "Influence of dynamic recrystallization on texture formation in ECAP deformed nickel", *Materials Science Forum*, Vols. 558-559 pp. 575-580.
40. **Satyam Suwas**, R. Arruffat Massion, L.S. Tóth, J.J. Funderburger A. Eberhardt and W. Skrotzki (2006): "Evolution of texture in copper during equal channel angular extrusion – The role of initial microstructure and texture", *Metallurgical and Materials Transactions A*, Vol.37A, Issue 3, pp. 739-753.
41. J.-P. Mathieu, **S. Suwas**, A. Eberhardt, L.S. Tóth and P. Moll (2006), "A new design for equal channel angular extrusion", *Journal of Materials Processing Technology*, Vol. 173, Issue 1, pp. 29-33.
42. W. Skrotzki, N. Scheerbaum, C.-G. Oertel, H.-G. Brokmeier, **Satyam Suwas**, L.S. Tóth (2006): "Texture Formation during ECAP of Aluminum Alloy AA 5109", *Materials Science Forum*, Vols. 503-504, pp. 99-106.
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44. S. R. Dey, L. Germain, M. Humbert, **Satyam Suwas** and E. Bouzy (2005): "Calculation of parent β phase orientation from inherited Orthorhombic phase in $\beta \rightarrow O+B2$ phase transformation of Ti-22Al-25Nb alloy", *Philosophical Magazine Letters*, Vol. 85, No. 9, pp. 463 – 471.
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49. W. Skrotzki, N. Scheerbaum, H.-G. Brokmeier, **S. Suwas**, L.S. Toth (2005): "Oblique cube texture formation in high purity aluminum during ECAP", ***Solid State Phenomena***, Vol. 105, pp. 351-356.
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55. L.S. Tóth, R. Arruffat Massion, L. Germain, S.C. Baik and **Satyam Suwas** (2004): "Analysis of texture evolution in equal channel angular extrusion of copper using a new flow field", ***Acta Materialia***, Vol. 52, Issue 7, pp. 1885-1898.
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B. In conference proceedings:

86. S. Roy, **Satyam Suwas**, S. Tamirisakandala, R.Srinivasan, D.B. Miracle (2009) , Processing Response of Boron Modified Ti-6Al-4V Alloy In (alpha plus beta) Working Regime", published in **TMS 2009: 138th Annual Meeting & Exhibition - Supplemental Proceedings**, Vol. 3, pp. 63-70.
87. **Satyam Suwas**, S. Biswas and A. Bhowmick (2009), Ultra-fine Grain Materials by Severe Plastic Deformation: Application to Steels (*invited paper*) in **"Texture and Microstructure of Steels and Some Other Materials"** eds. A. Haldar, S. Suwas and D. Bhattacharjee, Springer-Verlag, London.
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91. H.S. Vijaya, N.P. Gurao, Y. Srinivasa Reddy, **Satyam Suwas** and S.Mohan (2008): "Structure and Crystallographic Texture evolution in NiTi films and their effect on mechanical properties" in **Proceedings of the International Conference on Smart Materials Structures and Systems**.
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95. **Satyam Suwas**, R.K. Ray, A.K. Singh and S. Bhargava (1999): "Evolution of Basal Textures on Hot Rolling of a Two Phase Titanium Aluminide Alloy", in **Textures in Materials Research**", Eds. R.K. Ray and A.K. Singh, Oxford & IBH publishing Co. Pvt. Ltd., New Delhi, pp. 415-437.
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Patents filed

1. "Method to produce bulk sub-micron Magnesium" (with Somjeet Biswas and Satyaveer Singh D.), Indian Institute of Science Bangalore, India. 1457/CHE/2008, Indian patent.
2. "Production of ultrafine grains in Interstitial Free Steels by equal channel angular extrusion (ECAE)", (with D. Bhattacharjee, R.K. Ray, and Ayan Bhowmik), TATA Steel and Indian Institute of Science, Bangalore, India, Pub. No.: WO/2010/049950 International Application No.: PCT/IN2009/000608.
3. "Production of ultrafine grains in Interstitial Free Steels by Multi-axial forging (MAF)" (with D. Bhattacharjee, R.K. Ray, Somjeet Biswas, Ayan Bhowmik and Satyaveer Singh D.) TATA Steel and Indian Institute of Science, Bangalore, India, Pub. No.: WO/2010/049949 International Application No.: PCT/IN2009/000607.
4. "Thermo-mechanical treatment to enhance the ductility of Cu-containing austenitic stainless steel", (with Dong -Ik Kim, Subhasis Sinha, Eric Fleury), Application No.: K05345, Korean patent.