

## PUBLICATIONS 2008

\* Faculty, students and project staff from the Department of Materials Engineering

| Sl.No | Title   | Name of the Author(s)   | Name of the Journal/Conference             | Vol       | Page No   | Year of Publication/ period of Conference |
|-------|---|---|--|-----------|-----------|---|
| 1.    | Effect of aluminum on the hyperfine field and crystallization behaviour of NANOPERM alloy   | Prabhu D*,<br>Narayanasamy A,<br>Chattopadhyay K*   | HYPERFINE INTERACTIONS                     | 183       | 7-15      | APR 2008                                  |
| 2.    | Proximity effect controlled superconducting behavior of novel biphasic Pb-Sn nanoparticles embedded in an Al matrix   | Bose S, Bhattacharya V*<br>Chattopadhyay K*,<br>Pushan Ayyub  | ACTA MATERIALIA                            | 56        | 4522-4528 | SEP 2008                                  |
| 3.    | Phase formation in Ti/Ni dissimilar welds   | Chatterjee S*,<br>Abinandanan TA*,<br>Chattopadhyay K*  | MATERIALS SCIENCE AND ENGINEERING A        | 490       | 7-15      | AUG 2008                                  |
| 4.    | Influence of thermodynamics and local geometry on glass formation in Zr based alloys  | Ray PK, Chattopadhyay K*, Murty BS  | APPLIED PHYSICS LETTERS                    | 93        | 061903    | AUG 2008                                  |
| 5.    | Phase-field simulation of fusion interface events during solidification of dissimilar welds: Effect of composition in homogeneity   | Chatterjee S*,<br>Abinandanan TA*,<br>Chattopadhyay K*  | METALLURGICAL AND MATERIALS TRANSACTIONS A | 39 A      | 1638-1646 | JUL 2008                                  |
| 6.    | Formation of omega-Al <sub>7</sub> Cu <sub>2</sub> Fe phase during laser processing of quasicrystal-forming Al-Cu-Fe alloy  | Biswas K, Chattopadhyay K*  | PHILOSOPHICAL MAGAZINE LETTERS             | 88        | 219-230   | 2008                                      |
| 7.    | Porous Al <sub>2</sub> O <sub>3</sub> -Spinel Based Polycrystals That Resist Free-Sintering   | Shah SR, Chokshi AH*,<br>Raj R  | JOURNAL OF THE AMERICAN CERAMIC SOCIETY    | 91        | 3451-3454 | OCT 2008                                  |
| 8.    | Triple junction limited grain growth in nanomaterials   | Chokshi AH*   | SCRIPTA MATERIALIA                         | 59        | 726-729   | OCT 2008                                  |
| 9.    | Creep in scandia stabilized zirconia  | Kilo M, Argirusis C,<br>Borchardt G, Ghose S*,<br>Chokshi A H*  | SOLID STATE IONICS                         | 179       | 804-806   | SEP 2008                                  |
| 10.   | Diffusion creep in metals and ceramics: Extension to nanocrystals   | Chokshi AH*   | MATERIALS SCIENCE AND ENGINEERING A        | 483 - 484 | 485-491   | JUNE 2008                                 |
| 11.   | Synthesis and characterization of Y <sub>3</sub> Al <sub>5</sub> O <sub>12</sub> and ZrO <sub>2</sub> -Y <sub>2</sub> O <sub>3</sub> thermal barrier coatings by combustion spray pyrolysis | Saravanan S*, Srinivas GH*, Jayaram V*, Paulraj M, Asokan S**<br><br>**Dept. of Instrumentation, IISc | SURFACE & COATINGS TECHNOLOGY              | 202       | 4653-4659 | JUN 2008                                  |
| 12.   | Low-temperature Densification of Reactively Hot Pressed TiN-  | Rangaraj L, Suresha S J**, Divakar C, Jayaram   | J AM. CERAM. SOC.                          | 39        | 1496-1505 | 2008                                      |

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|     | TiB <sub>2</sub> Composites through excess Ti additions   | V*<br>**Materials Research Center, IISc   |  |      |           |           |
| 13. | Kinetics of pressureless infiltration of Al-Mg melts into porous alumina preforms   | Patro D*, Jayaram V*  | METALLURGICAL AND MATERIALS TRANSACTIONS B         | 39   | 108-115   | FEB 2008  |
| 14. | Sliding wear behavior of Al-Li-SiC <sub>p</sub> composites  | Bauri R*, Surappa MK*   | WEAR   | 265  | 1756-1766 | NOV 2008  |
| 15. | Nanoceramic-Metal Matrix Composites by In-Situ Pyrolysis of Organic Precursors in a Liquid Melt                                 | Sudarshan M*, Surappa MK*, Dongjoon AHN, Rishi Raj  | METALLURGICAL AND MATERIALS TRANSACTIONS A         | 39 A | 3291-3297 | DEC 2008  |
| 16. | Synthesis of fly ash particle reinforced A356 Al composites and their characterization  | Sudarshan*, Surappa MK*   | MATERIALS SCIENCE AND ENGINEERING A                | 480  | 117-124   | MAY 2008  |
| 17. | Dry sliding wear of fly ash particle reinforced A356 Al composites  | Sudarshan*, Surappa MK*   | WEAR   | 265  | 349-360   | JUL 2008  |
| 18. | Interfacial and Matrix Modules studies by Dynamic Ultra Micro Hardness(DUH) indentation in Al-Li-SiC <sub>p</sub> composites    | Bauri R*, Surappa MK*   | INTERNAL JOURNAL OF MECHANICAL AND MATERIALS ENGG. | 1    | 1-8       | JUNE 2008 |
| 19. | Characterisation of seasonal local recharge using electrical resistivity tomography and magnetic resonance imaging              | Descloitres M, Ruiz L, Sekhar M**, Legchenko A, Braun JJ, Mohan Kumar**, Subramanian S*<br><br>**Dept. of Civil Engineering, IISc | HYDROLOGICAL PROCESSES                             | 22   | 384-394   | 2008      |
| 20. | Electron microprobe and mineralogical study on cobalt bearing sulphide from the Kalyadi copper mine, Hassan District, Karnataka | Thomas J, Riyazulla MS, Subramanian S*, Vasudev VN, Gundewar CS   | J. GEOL. SOC. INDIA                                | 71   | 257-260   | 2008      |
| 21. | On the glass forming ability of liquid alloys   | Waseda Y, Chen HS<br>Jacob KT*<br>Shibata H   | SCIENCE AND TECHNOLOGY OF ADVANCED MATERIALS       | 9    | 023003    | JUN 2008  |
| 22. | Gibbs energy of formation of MnO: Measurement and assessment  | Jacob KT*, Kumar A*<br>Waseda Y   | JOURNAL OF PHASE EQUILIBRIA AND DIFFUSION          | 29   | 222-230   | JUN 2008  |
| 23. | Phase diagram for the system RuO <sub>2</sub> -TiO <sub>2</sub> in air  | Jacob KT*, Subramanian R*   | JOURNAL OF PHASE EQUILIBRIA AND DIFFUSION          | 29   | 136-140   | APR 2008  |
| 24. | Thermodynamic properties and phase diagram for the system MoO <sub>2</sub> -TiO <sub>2</sub>                                    | Jacob KT*, Shekhar C*,<br>Waseda Y  | JOURNAL OF THE AMERICAN CERAMIC SOCIETY            | 91   | 563-568   | FEB 2008  |
| 25. | Gibbs energy of formation of  | Jacob KT, Shekhar C*,   | ACTA   | 56   | 4798-     | OCT 2008  |

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|     | CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> and phase relations in the system CaO–CuO/Cu <sub>2</sub> O–TiO <sub>2</sub> | Li X, Kale GM  | MATERIALIA   |     | 4803      |          |
| 26. | Role of mineral specific bacterial proteins in selective flocculation and flotation  | Patra P*, Natarajan KA*  | INTERNATIONAL JOURNAL OF MINERAL PROCESSING        | 88  | 53-58     | AUG 2008 |
| 27. | Microbially-induced separation of chalcopyrite and galena  | Patra P*, Natarajan KA*  | MINERALS ENGINEERING                               | 21  | 691-698   | SEP 2008 |
| 28. | Biomineralization of manganese by Bacillus spp isolated from a marine biofilm  | Sarvamangala H*, Gopal J, Muraleedharan P, George RP, Dayal RK, Natarajan KA*                        | MINERALS & METALLURGICAL PROCESSING                | 25  | 149-155   | AUG 2008 |
| 29. | Biomineralisation of manganese on titanium surfaces exposed to seawater  | Gopal J, Muraleedharan P, Sarvamangala H*, George RP, Dayal RK, Tata VR, Khatak HS, Natarajan KA*    | BIOFOULING   | 24  | 275-282   | JUL 2008 |
| 30. | Microbial aspects of acid mine drainage and its bioremediation   | Natarajan KA*  | TRANSACTIONS OF NONFERROUS METALS SOCIETY OF CHINA | 18  | 1352-1360 | 2008     |
| 31. | Glass forming ability: Miedema approach to (Zr, Ti, Hf)-(Cu, Ni) binary and ternary alloys                                     | Basu J, Murty BS, Ranganathan S*   | JOURNAL OF ALLOYS AND COMPOUNDS                    | 465 | 163-172   | OCT 2008 |
| 32. | Parallelohedra and topological transitions in cellular structures  | Ranganathan S*, Lord EA*   | PHILOSOPHICAL MAGAZINE LETTERS                     | 88  | 703-713   | 2008     |
| 33. | On the effect of surface texture on friction and transfer layer formation-A study using Al and steel pair                      | Menezes PL*, Kishore*, Kailas SV**<br><br>**Dept. of Mech Eng, IISc                                  | WEAR   | 265 | 1655-1669 | NOV 2008 |
| 34. | Effect of surface roughness parameters and surface texture on friction and transfer layer formation in tin-steel tribo-system  | Menezes PL*, Kishore*, Kailas SV**<br><br>**Dept. of Mech Eng, IISc                                  | JOURNAL OF MATERIALS PROCESSING TECHNOLOGY         | 208 | 372-382   | NOV 2008 |
| 35. | Mechanical and three-body abrasive wear behavior of SiC filled glass-epoxy composites  | Suresha B**, Chandramohan G, Kishore*, Sampathkumaran P, Seetharamu<br><br>**Dept. of Mech Eng, IISc | POLYMER COMPOSITES                                 | 29  | 1020-1025 | SEP 2008 |
| 36. | Studies on friction in an iron-steel tribo-system under dry and lubricated conditions  | Menezes PL*, Kishore*, Kailas SV**<br><br>**Dept. of Mech Eng, IISc                                  | MATERIALS AND MANUFACTURING PROCESSES              | 23  | 698-707   | 2008     |
| 37. | Role of surface texture and roughness parameters in friction and transfer layer formation under dry and lubricated sliding     | Menezes PL*, Kishore*, Kailas SV**<br><br>**Dept. of Mech Eng,                                       | INTERNATIONAL JOURNAL OF MATERIALS RESEARCH        | 99  | 795-807   | JUL 2008 |

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| 38. | Influence of roughness parameters on coefficient of friction under lubricated conditions  | Menezes PL*, Kishore*, Kailas SV**<br><br>**Dept. of Mech Eng, IISc | SADHANA-ACADEMY PROCEEDINGS IN ENGINEERING SCIENCES | 33   | 181-190   | JUN 2008     |
| 39. | Subsurface deformation and the role of surface texture - A study with Cu pins and steel plates  | Menezes PL*, Kishore*, Kailas SV**<br><br>**Dept. of Mech Eng, IISc | SADHANA-ACADEMY PROCEEDINGS IN ENGINEERING SCIENCES | 33   | 191-201   | JUN 2008     |
| 40. | Processes-induced structural transformations and the impact properties of Cr-Mn iron systems  | Sampathkumaran P, Ranganathaiah C, Seetharamu S, Kishore*           | MATERIALS AND MANUFACTURING PROCESSES               | 23   | 320-325   | MAR-APR 2008 |
| 41. | Cure behavior of epoxy-cyanate ester blend in composite systems: Evaluation studies in neat resin cast by thermal and FTIR techniques | Sekhar KR, Kishore* Sankaran S                                      | JOURNAL OF APPLIED POLYMER SCIENCE                  | 109  | 2023-2028 | AUG 2008     |
| 42. | Influence of roughness parameters of harder surface on coefficient of friction and transfer layer formation                           | Menezes PL*, Kishore*, Kailas SV**<br><br>**Dept. of Mech Eng, IISc | INT. J. SURFACE SCIENCE & ENGINEERING               | 2    | 98-119    | 2008         |
| 43. | Effect of Surface Topography on Friction and Transfer Layer during Sliding  | Menezes PL*, Kishore*, Kailas SV**<br><br>**Dept. of Mech Eng, IISc | JAPANESE SOCIETY OF TRIBOLOGISTS                    | 3    | 25-30     | 2008         |
| 44. | Two-dimensional mathematical modeling of the pack carburizing process   | Sarkar S, Gupta GS*   | METALLURGICAL AND MATERIALS TRANSACTIONS A          | 39 A | 2424-2434 | OCT 2008     |
| 45. | Behavior of granular material in packed bed under influence of gas injected through a nozzle  | Singh V*, Gupta GS*   | PARTICULATE SCIENCE AND TECHNOLOGY                  | 26   | 214-221   | MAY-JUN 2008 |
| 46. | Modeling of gas flow inside and outside the nozzle used in spray deposition   | Jeyakumar M*, Gupta GS*, Kumar S*                                   | JOURNAL OF MATERIALS PROCESSING TECHNOLOGY          | 203  | 471-479   | JUL 2008     |
| 47. | Electrokinetic and Rheological Properties of Nano Zirconia in the Presence of Rhamnolipid Biosurfactant                               | Biswas M*, Raichur AM*  | JOURNAL OF THE AMERICAN CERAMIC SOCIETY             | 91   | 3197-3201 | OCT 2008     |
| 48. | Biosurfactant mediated synthesis of NiO nanorods  | Palanisamy P*, Raichur AM*  | MATERIALS LETTERS                                   | 62   | 743       | JUL 2008     |
| 49. | Abatement of fluoride from water using manganese dioxide-coated activated alumina   | Tripathy SS*, Raichur AM*   | JOURNAL OF HAZARDOUS MATERIALS                      | 153  | 1043-1051 | MAY 2008     |
| 50. | Enhanced adsorption capacity of activated alumina by impregnation. with alum for removal of As(V) from water                          | Tripathy SS*, Raichur AM*   | CHEMICAL ENGINEERING JOURNAL                        | 138  | 179-186   | MAY 2008     |
| 51. | Dispersibility of barium titanate suspension in the presence of   | Tripathy SS*, Raichur AM*   | JOURNAL OF DISPERSION                               | 29   | 230-239   | 2008         |

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|     | polyelectrolytes: A review  |   | SCIENCE AND TECHNOLOGY                     |      |           |          |
| 52. | Effect of Poisson's ratio on crack tip fields and fracture behavior of metallic glasses                             | Tandaiya P**, Ramamurty U*, Ravichandran G, Narasimhan R**<br><br>**Dept. of Mech Eng, IISc                   | ACTA MATERIALIA                            | 56   | 6077-6086 | DEC 2008 |
| 53. | Healing of fatigue damage in NiTi shape memory alloys   | Wagner MFX, Nayan N, Ramamurty U*   | JOURNAL OF PHYSICS D                       | 41   | 185408    | SEP 2008 |
| 54. | Structure and stacking faults in layered Mg-Zn-Y alloys: A first-principles study                                   | Datta A*, Waghmare UV<br>Ramamurty U*   | ACTA MATERIALIA                            | 56   | 2531-2539 | JUN 2008 |
| 55. | Influence of cooling rate on the enthalpy relaxation and fragility of a metallic glass                              | Raghavan R*, Murali P*, Ramamurty U*  | METALLURGICAL AND MATERIALS TRANSACTIONS A | 39 A | 1573-1577 | JUL 2008 |
| 56. | Factors influencing deformation stability of binary glasses   | Murali P*, Ramamurty U*, Shenoy VB<br><br>**Dept. of Physics, IISc  | JOURNAL OF CHEMICAL PHYSICS                | 128  | 104508    | MAR 2008 |
| 57. | Aging response and its effect on the functional properties of Cu-Al-Ni shape memory alloys                          | Suresh N*, Ramamurty U  | JOURNAL OF ALLOYS AND COMPOUNDS            | 449  | 113-118   | JAN 2008 |
| 58. | Mechanical characterization of NiTi SMA wires using a dynamic mechanical analyzer                                   | Roy D*, Buravalla V, Mangalgi PD, Allegavi S*, Ramamurty U*   | MATERIALS SCIENCE AND ENGINEERING A        | 494  | 429-435   | OCT 2008 |
| 59. | Mechanical properties of tricalcium phosphate single crystals grown by molten salt synthesis                        | Viswanath B**, Raghavan R*, Gurao NP*, Ramamurty U*, Ravishankar N**<br><br>**Materials Research Centre, IISc | ACTA BIOMATERIALIA                         | 4    | 1448-1454 | SEP 2008 |
| 60. | Temperature dependence of mechanical properties and pressure sensitivity in metallic glasses below glass transition | Keryvin V, Prasad KE*, Gueguen Y, Ramamurty U*  | PHILOSOPHICAL MAGAZINE                     | 88   | 1773-1790 | 2008     |
| 61. | Tensile properties of Ni-based superalloy 720Li: Temperature and strain rate effects                                | Gopinath K*, Gogia AK, Kamat S, Ramamurty U*  | METALLURGICAL AND MATERIALS TRANSACTIONS A | 39 A | 2340-2350 | OCT 2008 |
| 62. | Nano- and micro-indentation studies on lithium borate-barium bismuth niobate glasses                                | Das K*, Karthik C**, Varma KBR**, Ramamurty U*<br><br>**Materials Research Centre, IISc                       | JOURNAL OF NON-CRYSTALLINE SOLIDS          | 354  | 3793-3798 | AUG 2008 |
| 63. | Effect of shot peening on the fatigue life of a Zr-based bulk metallic glass  | Raghavan R*, Ayer R, Jin HW, Ramamurty U*   | SCRIPTA MATERIALIA                         | 59   | 167-170   | JUL 2008 |
| 64. | Fatigue of a laterally constrained closed cell aluminum foam  | Kolluri M*, Mukherjee M, Garcia-Moreno F, Ramamurty U*  | ACTA MATERIALIA                            | 56   | 1114-1125 | MAR 2008 |
| 65. | Unnotched fatigue behavior of an austenitic Ni-Ti shape   | Nayan, N*, Roy, D*, Buravalla, V, Ramamurty   | MATERIALS SCIENCE AND                      | 497  | 333-340   | DEC 2008 |

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|     | memory alloy   | U.   | ENGINEERING A  |         |           |          |
| 66. | Effect of laser surface treatment on corrosion and wear resistance of ACM720 Mg alloy                        | Mondal AK *, Kumar S*, Blawert C, Dahotre, NB.                                       | SURFACE & COATINGS TECHNOLOGY  | 202     | 3187-3198 | APR 2008 |
| 67. | Impression creep behaviour of magnesium alloy-based hybrid composites in the longitudinal direction          | Mondal AK *, Kumar S*,   | COMPOSITES SCIENCE AND TECHNOLOGY                                    | 68      | 3251-3258 | DEC 2008 |
| 68. | Ion-nitriding of maraging steel (250 Grade) for Aeronautical application                                     | Shetty K*, Kumar S*, Rao PR  | JOURNAL OF PHYSICS   | 100     | 062013    | 2008     |
| 69. | Elucidation of bifurcation of the Kirkendall marker plane in a single phase using physico-chemical approach  | Ghosh C*, Paul A*  | INTERMETALLICS   | 16      | 955-961   | AUG 2008 |
| 70. | Analysis of texture evolution in magnesium during equal channel angular extrusion                            | Beausir B, Suwas S*, Toth LS, Neale K W, Fundenberger JJ                             | ACTA MATERIALIA  | 56      | 200-214   | JAN 2008 |
| 71. | On microstructure and texture heterogeneities in single crystals deformed by equal channel angular extrusion | Grosdidier T, Fundenberger JJ, Goran D Suwas S*                                      | SCRIPTA MATERIALIA   | 59      | 1087-1090 | NOV 2008 |
| 72. | Evolution of hot rolling texture in $\beta$ (B2)-phase of a two-phase (O+B2) titanium–aluminide alloy.       | Dey SR, Suwas S*, Fundenberger JJ, Zou JX, Grosdidier T, Ray RK                      | MATERIALS SCIENCE AND ENGINEERING: A                                 | 483-484 | 551-554.  | 2008     |
| 73. | Temporal evolution of capped cadmium sulfide nanoparticles   | Kalasad MN, Rabinal MK Mulimani BG, Avadhani GS*                                     | SEMICONDUCTOR SCIENCE AND TECHNOLOGY                                 | 23      | .045009   | APR 2008 |
| 74. | Onset of spontaneous electrostrictive strain below 520 K in Pr-doped SrTiO <sub>3</sub>                      | Ranjan R *, Garg R*, Hackl R, Senyshyn A, Schmidbauer E, Trots D, Boysen H           | PHYSICAL REVIEW B  | 78      | 092102    | SEP 2008 |
| 75. | Evidence for polaron conduction in nanostructured manganese ferrite  | Gopalan EV, Malini KA Saravanan S*, Kumar D S, Yoshida Y, Anantharaman M R           | JOURNAL OF PHYSICS D   | 41      | 185005    | SEP 2008 |
| 76. | Effect of meditation on scaling behavior and complexity of human heart rate variability                      | Sarkar A*, Barat P   | FRACTALS-COMPLEX GEOMETRY PATTERNS AND SCALING IN NATURE AND SOCIETY | 16      | 199-208   | SEP 2008 |
| 77. | Grain size and grain boundary character distribution in ultra-fine grained (ECAP) nickel                     | Raju KS, Krishna MG, Padmanabhan KA, Gurao NP*                                       | MATERIALS SCIENCE AND ENGINEERING A                                  | 491     | 1-7       | SEP 2008 |
| 78. | Friction tensor concept for textured surfaces  | Simha KRY**, Pottirayil A, Menezes PL* Kailas SV**<br><br>**Dept. of Mech. Eng, IISc | SADHANA-ACADEMY PROCEEDINGS IN ENGINEERING SCIENCES                  | 33      | 203-206   | JUN 2008 |
| 79. | Study of solid lubrication with  | Shankara A**, Menezes  | SADHANA-   | 33      | 207-      | JUN 2008 |

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|     | MoS2 coating in the presence of additives using reciprocating ball-on-flat scratch tester                      | PL*, Simha KRY**, Kailas SV**<br><br>**Dept. of Mech. Eng, IISc            | ACADEMY PROCEEDINGS IN ENGINEERING SCIENCES |     | 220     |          |
| 80. | Role of Surface Texture on Friction under Boundary Lubricated Conditions                                       | Menezes PL*, Kailas SV**, Pradeepkumar C<br><br>**Dept. of Mech. Eng, IISc | JAPANESE SOCIETY OF TRIBOLOGISTS            | 3   | 12-18   | 2008     |
| 81. | Mechanisms of creep deformation in polycrystalline Ni-base disk superalloys                                    | Unocic RR, Viswanathan GB, Sarosi PM, Karthikeyan S*, Li J, Mills MJ       | MATERIALS SCIENCE AND ENGINEERING A         | 483 | 25-32   | JUN 2008 |
| 82. | Constitutive equation for elevated temperature flow behavior of plain carbon steels using dimensional analysis | Phaniraj MP, Lahiri AK*  | MATERIALS & DESIGN                          | 29  | 734-738 | 2008     |

### Publications in conference proceedings

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| 1  | V. Singh and G.S. Gupta: Modelling of single phase, non-wetting liquid flow in a coarse bed, SCANMET III, Sweden Lulea, 8-11 June, 2008, p561-567.   |
| 2  | S. Mondal and G.S. Gupta: Fluid dynamics study of a new vacuum degassing process, CHEMECA-08, Sept. 27-30, New Castle, Australia, 2008, p786-95.   |
| 3  | N Maruoka, F Lazuardi, T Maeyama, H Nogami, S Kitamura and G S Gupta, Influence of bottom stirring conditions on surface reaction rate, SCANMET III, Sweden Lulea, 8-11 June, 2008, p449-458.  |
| 4  | N.K. Mulley and G.S. Gupta: Study of fluid dynamics in a packed bed in the presence of fines and liquid flow, Int. Conf. on Recent Progress on Mathematical Modelling in Ironmaking-2008, Tokyo, Japan, Oct. 16-17, 2008, p50-55.  |
| 5  | Partha Patra, K.A.Natarajan, 'Synthesis of Mineral-specific Bioproteins for Selective Mineral Flotation', Proceedings of XXIV International Mineral Processing Congress, Beijing (IMPC-2008)   |
| 6  | M N Chandraprabha, K.A.Natarajan, 'Biomodulation of Sulfide Minerals for Environment-friendly Beneficiation', Proceedings of XXIV International Mineral Processing Congress, Beijing (IMPC-2008)   |
| 7  | K.A.Natarajan, S.N.Ambika, 'Biological aspects of ARSENIC Speciation and Remediation', Hydrometallurgy-2008 (SME)  |
| 8  | P. Venkatesulu, M. Joy Thomas and A. M. Raichur, 2008, "Accelerated multistress aging of outdoor polymeric insulators," Proceedings of the IEEE conference on Electrical Insulation Dielectric Phenomena (CEIDP-2008), Quebec City, Canada, pp. 67-70.   |
| 9  | K. S. Raja, M. Misra, A. M. Raichur and A. Kar, "Development of a novel biocompatible hydroxyapatite coated nanotubular titania for implant application," Proceedings of the 32nd International Conference on Advanced Ceramics and Composites, Daytona, January 26 – February 1, 2008 (Invited paper)pp 227-238                           |
| 10 | Chokshi A H, 'Microstructural stability and creep in nanocrystals' 4th International Conference on Nanomaterials by Severe Plastic Deformation, AUG 18-22, 2008 Goslar, GERMANY, pp 876-883  |
| 11 | Suwas S, Biswas S, Singh S, Chattopadhyay K, 'Texture and grain boundary character distribution during Equal Channel Angular Extrusion of some two-phase copper alloys', 4th International Conference on Nanomaterials by Severe Plastic Deformation, AUG 18-22, 2008 Goslar, GERMANY, pp 585-590  |
| 12 | Biswas S, Satyaveer SD, Bhowmik A, Suwas S, 'Study of texture evolution of Pure Magnesium during ECAE using EBSD', 4th International Conference on Nanomaterials by Severe Plastic Deformation, AUG 18-22, 2008 Goslar, GERMANY, pp343-348   |
| 13 | G. Rajesh, S. Subramanian, Anju M. Pillay, A. Rajendra and A.K. Sharma, 'Studies on the effect of surfactants on the dispersion stability of PTFE suspension for Ni-PTFE composite coatings for space applications', Proceedings of the 24th Annual In-House Symposium on Space Science and Technology, January 2008, Bangalore, pp 99-104 |
| 14 | E. Chockalingam, S. Subramanian and J. J. Braun, 'Bioremediation of acid mine water using rice husk and tree bark', Proceedings of the XXIV International Mineral Processing Congress, 2008, Beijing, China, pp 3842-3853  |