RESEARCH PUBLICATIONS

1. A microstructural characterisation of deformation and precipitation in (W,Ti)C
   S.L. Shinde, V. Jayaram and R. Sinclair
   Plenum, 1983

2. A TEM study of intergranular cracking in WC-Co
   V. Jayaram

3. Intergranular cracking in WC-6% Co: an application of the von Mises criterion
   V. Jayaram, R. Sinclair and D.J. Rowcliffe

4. Detection of thin intergranular cobalt layers in WC-Co by lattice imaging
   V. Jayaram and R. Sinclair

5. Deformation enhanced decarburisation of WC-Co
   V. Jayaram, R. Sinclair and D.J. Rowcliffe
   Scripta Metall. 20, 55 (1986)

6. Plastic deformation of WC-Co at high confining pressure
   V. Jayaram, A. Kronenberg, S.H. Kirby, R. Sinclair and D.J. Rowcliffe
   Scripta Metall. 20, 701 (1986)

7. Microstructural and chemical components of the fracture energy of ceramic-metal interfaces
   R.M. Cannon, V. Jayaram, B.J. Dalgleish and R.M. Fisher

8. Fracture energy of ceramic-metal interfaces
   R.M. Cannon, V. Jayaram, B.J. Dalgleish and R.M. Fisher

9. Plastic incompatibility and crack nucleation during deformation on four independent slip systems in tungsten carbide - cobalt
   V. Jayaram

10. The precipitation of $\alpha$-TiO$_2$ from supersaturated solutions of Ti in alumina:
    precipitate structure and morphology
    V. Jayaram
    Phil. Mag. A 57, 525 (1988)

11. A model for compressive deformation and fracture in WC-Co
    D.J. Rowcliffe, V. Jayaram, M.K. Hibbs and R. Sinclair
12. Some observations of microstructural changes in alumina induced by Ti
inhomogeneities
V.Jayaram, B.J.Dalgleish and A.G.Evans

13. Phase selection in electrohydrodynamically atomised alumina
C.G.Levi, V.Jayaram, J.J.Valencia and R.Mehrabian

14. Rapid solidification of ceramic eutectic and hypoeutectic alloys- alumina, zirconia
T.Whitney, V.Jayaram, C.G.Levi and R.Mehrabian
in D.M.Stefanescu, G.J.Abbaschian and R.J.Bayuzick (eds.), "Solidification Processing

15. Comment on "Number of active slip systems in polycrystalline brass: implications
for ductility in other structures" by R.Fleischer
V.Jayaram

16. The structure of δ-alumina evolved from the melt and the γ-δ transformation
V.Jayaram and C.G.Levi

17. Characterization of alumina-zirconia produced by electrohydrodynamic
atomisation
V.Jayaram, C.G.Levi, T.Whitney and R.Mehrabian

18. Nucleation and growth of Al₂O₃/Al composites by oxidation of aluminium alloys
O.Salas, H.Ni, V.Jayaram, K.C.Vlach, C.G.Levi and R.Mehrabian

19. A thermogravimetric study of the oxidative growth of Al₂O₃-Al alloy composites
K.C.Vlach, O.Salas, H.Ni, V.Jayaram, C.G.Levi and R.Mehrabian

20. Ceramic composites by directed melt oxidation
V.Jayaram
Publishing House, New Delhi (1992)

21. Banded microstructures in Al₂O₃ / Al composites produced by oxidation of molten
Al-Mg alloys
O.Salas, V.Jayaram, K.C.Vlach, C.G.Levi and R.Mehrabian
Symposium on Processing and Manufacturing of Advanced Materials for High
and Materials Society, Warrendale, 143 (1992)

22. Ceramic composites by melt oxidation
V.Jayaram
23. Directed melt oxidation and infiltration  
V.Jayaram  
Metals, Materials and Processes 4, 51 (1992)

24. MMC, CMC and microstructural gradients by nitridation of aluminium alloys  
V.Jayaram, B.S.S.Daniel, N.Nagendra and H.R.Muralidhar  

25. Metastable extension of the fluorite phase field in Y$_2$O$_3$ - ZrO$_2$ and its effect on grain growth  
V.Jayaram, M. de Graef and C.G.Levi  

26. Growth and microstructure of Al$_2$O$_3$-SiC-Si (Al) composites prepared by reactive infiltration of silicon carbide preforms  
S.P.Dhandapani, V.Jayaram and M.K.Surappa  

27. Early stages of composite formation by oxidation of liquid aluminium alloys  
O.Salas, V.Jayaram, K.C.Vlach, C.G.Levi and R.Mehrabian  

28. Development of nano-composite microstructures in Al$_2$O$_3$-ZrO$_2$ via the solution precursor method  
M.L. Balmer, F.F.Lange, V.Jayaram and C.G.Levi  

29. Growth of Al$_2$O$_3$/Al composites from Al-Zn alloys  
M.Hanabe, V.Jayaram and T.A.Bhaskaran  

30. Synthesis and characterization of metastable ceramic oxides  
V.Jayaram  
in "Advances in Physical Metallurgy ", (eds.) S.Banerjee and R.V.Ramanujan,  

31. Microstructural control and wear of Al$_2$O$_3$-SiC-(Al, Si) composites made by melt oxidation  
V.Jayaram, R.Manna, M.G.Kshetrapal, J.Sarkar and S.K.Biswas  

32. The role of volatile solute elements in directed melt oxidation of Al-alloys  
V.Jayaram  

33. Containerless processing of ceramics by aerodynamic levitation  
A.S.Gandhi, A.Saravanan and V.Jayaram  
34. Microstructure and mechanical properties of Al₂O₃ ( Al/AlN ) composites fabricated by pressureless infiltration of Al alloys
N.Nagendra and V.Jayaram

35. Infiltration of Al₂O₃-Al composites into coated silicon carbide
V.Jayaram, S.Kumar, T.V.Mani, M.S.M.Saifullah, J.Sarkar and K.G.K.Warrier

36. Phase evolution and densification in spray-pyrolysed ZrO₂ - Al₂O₃ powders
A.S.Gandhi, V.Jayaram and A.H.Chokshi

37. Sliding wear of Al₂O₃-SiC-Al₅Si composites against steel counterface
A.Ravikiran, V.Jayaram and S.K.Biswas

38. Degradation of Al₂O₃-SiC-Al composites prepared by the oxidative growth of Al alloys into SiC particulate
Sandeep Kumar and V.Jayaram
J Mater. Sci. 32, 4719 ( 1997 )

39. Effect of liquid precursor pyrolysis on phase selection in the MgO-MgAl₂O₄ system
T.Bhatia, K.Chattopadhyay and V.Jayaram

40. Nanostructures and amorphous materials by decomposition of precursors
V.Jayaram

41. Coarsening of an interconnected microstructure in an Al-Al₂O₃ composite
P.Padmapriya, T.A.Abinandanan and V.Jayaram
Scripta Mater. 37, 1883 ( 1997 )

42. Nano-dispersed microstructures on laser mixing of Al-Ni multilayers
D.Srinivasan, V.Jayaram and K.Chattopadhyay

43. Dense nanometric ZrO₂-Al₂O₃ from spray pyrolysed powders
V.Jayaram, R.S.Mishra, B.Majumdar, C.Lesher and A.K.Mukherjee
Colloids and Surfaces A 133, 25 ( 1998 )

44. Analysis of micro-residual stresses in 6H-SiC particles within Al₂O₃-SiC-(Al,Si)
using Raman spectroscopy
Scripta Mater. 38, 617 ( 1998 )

45. A study on the formability of melt-spun Fe-Nd-B magnets
46. The initiation and continuation of infiltration of Al-Mg based alloys into alumina preforms
B.S.Rao and V.Jayaram

47. A study of the deformation behaviour of nano-crystalline Fe-Nd-B magnets
S.Pralash Narayan, K.Basu, Y.V.R.K.Prasad and V.Jayaram

48. Zirconia based nanomaterials: elaboration, characterisation and transport properties
Inzyneria Materialowa (Poland) (1998)

49. Studies on the deformation behavior of nano-crystalline Nd-Fe-B magnets
Prakash-Narayan-S; Basu-K; Jayaram-V; Prasad-YVRK; Das-BN

50. The synthesis of wurtzite based solid solutions of ZnO-CoO by spray pyrolysis
V.Jayaram, J.Rajkumar and B.Sirisha Rani

51. Abrasion of Al$_2$O$_3$-SiC-(Al,Si) composites made by melt oxidation
R.Arvid Singh, V.Jayaram and S.K.Biswas

52. A dislocation pile-up model for the yield stress of a composite
V.Jayaram, N.N.Viswanathan and T.A.Abinandanan

53. Densification studies on amorphous ZrO$_2$ - Al$_2$O$_3$ powders
A.S.Gandhi, V.Jayaram and A.H.Chokshi

54. ZrO$_2$-Al$_2$O$_3$ nanocomposite by high pressure sintering of spray pyrolysed powders
R.S.Mishra, V.Jayaram, B.Majumdar, C.E.Lesher and A.K.Mukherjee

55. Wear of melt oxidised alumina matrix composites
V. Jayaram and S.K. Biswas
Wear 225-229, 1322-1326 (1999)

56. Microstructures and properties of Al₂O₃ / Al-AlN composites by pressureless infiltration of Al-alloys
N.Nagendra, B.S. Rao and V. Jayaram

57. Dense amorphous zirconia-alumina by low temperature consolidation of spray pyrolysed powders
A.S. Gandhi, V. Jayaram and A.H. Chokshi

58. Segregation in the MgO-MgAl₂O₄ system prepared from nitrate precursors
T. Bhatia, K. Chattopadhyay and V. Jayaram

59. Fracture and R-curves in Al₂O₃ / Al-AlN composites
N. Nagendra and V. Jayaram

60. Influence of matrix characteristics on fracture toughness of high volume fraction Al₂O₃/Al-AlN composites
N. Nagendra and V. Jayaram

61. Directed Melt Oxidation
V. Jayaram and D. Brandon

62. Soft chemical routes to the synthesis of extended solid solutions of wurtzite ZnO - MO (M=Mg, Co, Ni)
Vikram Jayaram and B. Sirisha Rani

63. Low temperature densification behaviour of metastable phases in zirconia - alumina powders produced by spray pyrolysis
A. S. Gandhi, V. Jayaram and A. H. Chokshi

64. Non-equilibrium phase synthesis in Al₂O₃ – Y₂O₃ by spray pyrolysis of nitrate precursors
C. K. Ullal, K. R. Balasubramanian, A. S. Gandhi and V. Jayaram
Acta Materialia 49, 2691-2699 (2001)

65. Pressureless infiltration of Al-Mg based alloys into alumina preforms: mechanisms and phenomenology
B. S. Rao and V. Jayaram
Acta Materialia 49, 2373-2385 (2001)

66. Effect of rapid solidification on microstructural evolution in MgO - MgAl₂O₄
67. **A new technique for pressureless infiltration of aluminium alloys into alumina preforms**  
B. S. Rao and V. Jayaram  

68. **Al-SiC electronic packages with controlled thermal expansion coefficient by a new method of pressureless infiltration**  
C. Hemambar, B. S. Rao and V. Jayaram  
*Journal of Materials and Manufacturing Processes* 16 (6), 779-788 (2001)

69. **The production of AlN-rich matrix composites by the reactive infiltration of Al alloys in nitrogen**  
S. Swaminathan, B. S. Rao and V. Jayaram  

70. **The influence of oxygen impurities on the formation of AlN-Al composites by infiltration of molten Al-Mg**  
S. Swaminathan, B. Srinivasa Rao and V. Jayaram  

71. **Pressure consolidation of amorphous ZrO₂ - 40 % Al₂O₃ by plastic deformation**  
A. S. Gandhi and V. Jayaram  

72. **The need to productionise Metal Metrix Composites for Space Microwave Application in India**  
A V Pathak, K J Patel, Ch Hemamber and Vikram Jayaram  

73. **Bulk, Dense, Nanocrystalline Yttrium Aluminum Garnet by Consolidation of Amorphous Powders at Low Temperatures and High Pressures**  
Samrat Choudhury, Ashutosh S. Gandhi, and V. Jayaram  

74. **Non-viscous, Plastic Flow in a Glass of Zirconium Oxide – Aluminium Oxide**  
A.S. Gandhi* and V. Jayaram  

75. **Contact Damage in TiN Coatings on Steel**  
S. Bhowmick, A. N. Kale*, V. Jayaram* and S. K. Biswas†  

76. **Oxide films by combustion pyrolysis of solution precursors**  
R. Kavitha, S. Hegde and V. Jayaram  

77. **The nature of contact deformation of TiN films on steel**
78. **Low temperature reactive hot pressing of TiB\textsubscript{2} - TiN composites**
L. Rangaraj, C. Divakar and Vikram Jayaram

79. **Deconvolution of Fracture Property from Load-Displacement Curves of TiN films on Steels**
S. Bhowmick, V. Jayaram and S. K. Biswas

80. **Mechanical properties of rough TiN coating deposited on steel by cathodic arc evaporation technique**
R. Gunda, S. Bhowmick, V. Jayaram and S. K. Biswas

81. **Fracture mode transitions during indentation of TiN coatings on steel**
Phil. Mag. (A) 85(25), 2927-2945 (2005)

82. **Low temperature pressure consolidation of amorphous Al\textsubscript{2}O\textsubscript{3}-Y\textsubscript{2}O\textsubscript{3}**
N. Thangamani, A.S.Gandhi, V.Jayaram and A.H.Chokshi

83. **Spherical indentation of a film / substrate system: Part 1. Experimental validation of elastic stresses and strains derived using Hankel transform technique**
S. Math, V. Jayaram and S. K. Biswas

84. **Spherical indentation of a film / substrate system: Part 2. A comparative assessment of the influence of film thickness and substrate deformation on crack driving forces in columnar coatings.**
S. Math, V. Jayaram and S. K. Biswas

85. **Contact deformation of TiN coatings on metallic substrates**
V. Jayaram\textsuperscript{a}, S. Bhowmick\textsuperscript{a}, Z.-H Xie\textsuperscript{b}, S Math\textsuperscript{c}, M. Hoffman\textsuperscript{b}, and S. K. Biswas\textsuperscript{c}

86. **Al/SiC carriers for microwave integrated circuits by a new technique of pressureless infiltration**
B. Srinivasa Rao, C. Hemambar, A. V. Pathak, K. J. Patel, J. Rödel and V. Jayaram

87. **Validation of stresses and stress intensity factors in a notched bi-layer system under four point bending as determined by the solution of Navier’s equation**
Sibasish Mukherjee, V. Jayaram and S. K. Biswas
88. **Deposition and characterisation of alumina films produced by combustion flame pyrolysis**  
   R. Kavitha and V. Jayaram  

89. **Indentation of a hard film on a compliant substrate: film fracture mechanisms to accommodate substrate plasticity**  
   S. Math, S. J. Suresha, V. Jayaram and S. K. Biswas  

90. **Processing, microstructure and hardness of (TiN/(Ti,Al)N) multi-layer coatings**  
   S. J. Suresha, R. Bhide, V. Jayaram and S. K. Biswas  

91. **Crack growth resistance (R-curve) behaviour and thermo-physical properties of Al₂O₃ particle reinforced AlN/Al matrix composites**  
   B. S. Rao, J. Roedel and V. Jayaram  

92. **A general contact mechanical formulation of multilayered structures and its application to deconvolute thickness/mechanical properties of glue used in Surface Force Apparatus**  
   Souvik Math, Roger Horn, Vikram Jayaram, Sanjay Kumar Biswas  

93. **Ultra mild wear in lubricated tribology of an aluminium alloy**  
   Sarmistha Das, Varalakshmi K., V. Jayaram and S. K. Biswas  

94. **Toughening through multi-layering in TiN-AlTiN films**  
   S. J. Suresha, Souvik Math, V. Jayaram and S. K. Biswas  
   Phil. Mag. A 87 (17), 2521-2539 (2007)

95. **Flow in porous ceramics: understanding with non-uniform capillary models**  
   D. Patro and V. Jayaram  

96. **Synthesis of Bulk, Dense, Nanocrystalline Yttrium Aluminum Garnet from co-precipitated powders**  
   Pathikumar Sellappan, Vikram Jayaram, Atul H. Chokshi and Canchi Divakar  

97. **Synthesis of titania films by combustion flame spray pyrolysis technique and its characterization for photocatalysis zinc oxide films made by combustion pyrolysis**  
   R. Kavitha, S. Meghani and V. Jayaram  

98. **Band gap engineering in ZnO-MgO films prepared by combustion spray pyrolysis**  
   R. Kavitha and V. Jayaram  
99. **Effect of residual stress on the load-displacement response of columnar TiN films on steel**  
S. J. Suresha, R. Gunda, V. Jayaram and S. K. Biswas  

100. **Kinetics of pressureless infiltration of Al-Mg melts into porous alumina preforms**  
Debduutt Patro and V. Jayaram  

101. **In-situ synthesis and densification of ZrB$_2$-ZrC composites by reactive hot pressing**  
L. Rangaraj, C. Divakar and V. Jayaram  

102. **Synthesis and Characterization of Y$_3$Al$_5$O$_{12}$ and Y$_2$O$_3$-ZrO$_2$ Coatings by Combustion Spray Pyrolysis**  
S. Saravanan, G Hari Srinivas, V Jayaram, M Paulraj and S Asokan  

103. **Implantation induced hardening of nanocrystalline Ti films**  
J Nanoscience & Nanotech. 9, 1-6 (2009)

104. **Low-temperature Densification of Reactively Hot Pressed TiN-TiB$_2$ Composites through excess Ti additions**  
Lingappa Rangaraj$^1$, Canchi Divakar$^1$ and Vikram Jayaram$^{3#}$  

105. **Processing of Refractory metal Borides, Carbides and Nitrides**  
Lingappa Rangaraj, Canchi Divakar and Vikram Jayaram  

106. **Internal nitride formation during gas phase thermal nitridation of titanium**  
Scripta Mater. 61, 403-406 (2009)

107. **Deposition of ZnO Films by Combustion Flame Pyrolysis of Solution Precursors**  
Ranganathan Kavitha, Vikram Jayaram  
DOI: 10.1111/j.1744-7402.2009.02357.x

108. **Nanometer scale indentation plasticity studied in KBr studied by indentation and atomic force microscopy**  
Praveena M., Tobin Filleter, V. Jayaram, S.K.Biswas and R. Bennewitz  
Materials Research Society Symposium Vol. 1185, 2009

109. **Reactive Hot Pressing of Zirconium diboride–based Ultrahigh Temperature Ceramic Composites**  
Lingappa Rangaraj, Canchi Divakar and Vikram Jayaram  
Journal of the European Ceramic Society, v 30, n 1, p 129-38, Jan. 2010
110. **Study of fracture behavior of bond coats on nickel superalloy by three point bending of microbeams.**
Prashant Potnis, Jennifer Holtzinger, Dipak Das, Vikram Jayaram, S K Biswas

111. **Mechanism of failure in a free standing in a Pt-aluminide bond coat during tensile testing at room temperature**
Md. Zafir Alam, B. Srivaths, S.V. Kamat, V. Jayaram, N. Hazari and D.K. Das

R. Krishnan, S. Dash, A.K. Tyagi, V. Jayaram and Baldev Raj
Applied Surface Science, v 256, n 10, p 3077-80, 1 March 2010

113. **Synthesis and Densification of Monolithic Zirconium Carbide by Reactive Hot Pressing**
Chidambaram Nachiappan, Lingappa Rangaraj, Canchi Divakar and Vikram Jayaram

114. **Pressure and thermally induced stages of wear in dry sliding of a steel ball against an Al-Si alloy flat**
Anirban Mahato, Thomas A. Perry, Vikram Jayaram and Sanjay K. Biswas
Wear 268 (2010) 1080–1090

115. **Reactive hot pressing of ZrB_2-ZrC_x ultra-high temperature ceramic composites with the addition of SiC particulate**
Lingappa RangaraJ, Canchi Divakar and Vikram Jayaram

116. **Evaluation of Ductile-Brittle-Transition-Temperature (DBTT) of Aluminide Bond Coats by Micro-tensile Test Method"**
Md. Zafir Alam, B. Srivaths, S.V. Kamat, V. Jayaram, N. Hazari and D.K. Das
Materials Science and Engineering A 527 (2010) 7147–7150

117. **Effect of Phases on the Frictional Properties of Electroless Ni-B Nano-Composite Coating**
Soupitak Pal, Vikram Jayaram, Sanjay Kumar Biswas and Yancy Riddle

118. **Microtensile testing of a free-standing Pt-aluminide bond coat**
Md. Zafir Alam, B. Srivaths, S.V. Kamat, V. Jayaram, D.K. Das

119. **Study of brittle – ductile transition in Pt aluminide bond coat using micro-tensile testing method**
Md. Zafir Alam. B. Srivaths, S.V. Kamat, V. Jayaram and D.K. Das
Trans. IIM, 64 (1-2) 57-61 (2011)
120. Effect of Strain Rate on Ductile-to-Brittle Transition Temperature of a Free-Standing Pt-Aluminide Bond Coat
Alam MZ, Chatterjee D, Muraleedharan K, Nandy TK, Kamat SV, Jayaram V, Das DK

121. Severe Wear of a near-Eutectic Aluminium-Silicon Alloy
Anirban Mahato, Nisha Verma, Vikram Jayaram and S. K. Biswas
Acta Materialia, 59 (2011) 6069-6082

122. Characterization of Phase transformation Behavior and Microstructural Development of Electroless Ni-B Coating
Soupitak Pal, Nisha Verma, Vikram Jayaram, Sanjay Kumar Biswas, Yancy Riddle

123. Reactive Pulsed Laser Deposition and Characterization of Niobium Nitride Thin Films

124. Deformation and structural densification in Al2O3-Y2O3 glass
Paul A, Jayaram V
Acta Materialia 59 (1), 82-92 (2011)

125. Influence of soft metal(Zr) interlayer on fracture modes in a ZrN-Zr multilayer PVD coating
Nisha Verma and Vikram Jayaram

126. Residual Strength of Hot Pressed Zirconium Diboride (ZrB2) after Exposure to High Temperatures
Manish Patel, J. Janardhana Reddy, V. V. Bhanu Prasad and Vikram Jayaram

127. A new method for fracture toughness determination of graded (Pt,Ni)Al bond coats by microbeam bend tests
Nagamani Jaya B, Vikram Jayaram and Sanjay Kumar Biswas

128. Comparative Evaluation of Thermal Conductivity of Zirconia Solid and Honeycomb Structures
B. P. Saha, R. Johnson and V. Jayaram

129. Micromechanisms of damage nucleation during contact deformation of columnar multilayer nitride coatings
Nisha Verma, Sumanth Cadambi, Vikram Jayaram, Sanjay Kumar Biswas

130. Strength of Hot Pressed ZrB2–SiC Composite after Exposure to High Temperatures (1000-1700°C)
131. **Synthesis and characterization of nickel/barium hexa-aluminate composite coatings**
Dinesh Kumar, Sampada Gurav, Vikram Jayaram and Sanjay Biswas

132. **Friction between a steel ball and a steel flat lubricated by MoS₂ particles suspended in hexadecane at 150 °C**
Manimunda Praveena, Vikram Jayaram, Sanjay.K.Biswa
Industrial & Engineering Chemistry Research, ACS publications (in press)

133. **Tensile Behavior of a Free-Standing Pt-aluminide (PtAl) Bond coat**
Md Zafir Alam, S. V. Kamat, V. Jayaram and Dipak K Das
Acta Mater. (in press)

134. **Metastable phase selection and low temperature plasticity in chemically synthesized amorphous Al₂O₃-ZrO₂ and Al₂O₃-Y₂O₃**
Ashutosh S. Gandhi, Arindam Paul, Shailendra Singh Shekhawat, Umesh Waghmare, Vikram Jayaram

135. **Processing of Non-oxide Ultra-high Temperature Ceramics sustainable for Hostile Environments**
Lingappa Rangaraj¹, Canchi Divakar¹ and Vikram Jayaram²

136. **Reactive Hot Pressing of Ti-B-C and Ti-C at 1200°C**
Lingappa Rangaraj, Kanika Barman, Canchi Divakar and Vikram Jayaram
Ceramic Int. (in press)

137. **Reactive Pulsed Laser Deposition titanium nitride thin films: Effect of Reactive Gas Pressure on the Structure, Composition and Properties,**
Krishnan Ramaswamy, C. David, Ajit Kumar PK, R. Nithya, Tripura Sundari S, Sitaram Dash, B.K. Panigrahi, Kamruddin M, Ashok Kumar Tyagi, Vikram Jayaram and Baldev Raj
doi:10.1155/2013/128986

138. **Heat Conduction Mechanisms in Hot Pressed ZrB₂ and ZrB₂-SiC composites**
Patel M, Reddy JJ, Bhanu Prasad VV, Jayaram V

139. **Densification mechanisms during hot pressing of ZrB₂-20 vol.% SiC composite**
Patel, M., Singh, V., Reddy, J.J., Bhanu Prasad, V.V., Jayaram, V
Scripta Materialia<br>volume 69, issue 5, year 2013, pp. 370 - 373

140. **Detailed investigation of contact deformation in ZrN/Zr multilayer-Understanding the role of volume fraction, bilayer spacing and morphology of interfaces**
141. **Micro-Mechanisms of Strengthening and Fracture in Free-Standing Pt-Aluminide Bond Coats under Tensile Loading**
Md. Zafir Alam, S. V. Kamat, V. Jayaram and D. K. Das
Acta Materialia (in press)