CSIR Centre for Mathematical Modelling and Computer Simulation

C-MMACS' RESEARCH PERFORMANCE 1992-2002

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C-MMACS’ Research Performance 1992–2002

Imtiyaz Ahmed Parvez and Gangan Prathap

Two of the measures frequently used to assess research performance are to estimate the number of publications appearing in Science Citation Index (SCI) Journals, as these are considered to be the best journals, and to estimate the total citations received by papers published.

This report is presented in two parts.

In Part I, the list of publications appearing in SCI journals during 1992–2002 is presented. In the last 11 years (1992-2002), 78 SCI publications were registered (according to the Web of Science). The scientific productivity works out to an average of 0.58 SCI publications/scientist/year in the eleven year period from 1992-2002. This is better than the CSIR average for 2001 (= 0.34). This figure of 0.58 for C-MMACS indicates that C-MMACS is one of the top ten labs of the CSIR if this index is used. Also, in recent years, C-MMACS is able to average about 9 SCI items a year.

In Part II, the citations received by papers published by C-MMACS since 1992 is used as an indicator of the quality of C-MMACS’ scientific output. A search using the Web of Science was able to bring out the list of papers from C-MMACS which have been listed in ISI’s Web of Science. This search records only 75 items during this period. The citation record has not been very good. 39 papers have not received any citation; i.e. half of our SCI papers remain uncited. The 4 papers which have been most highly cited have a foreign co-author and/or an NO connection and this could explain its higher impact. A total of 166 citations for 75 papers over the last 11 years is only reasonably good going. This again would probably be the performance of an average lab in the CSIR.
C-MMACS’ SCI publications 1992-2002
Imtiyaz Ahmed Parvez and Gangan Prathap

The recent assignment of one of us abroad (IAP) enabled a systematic search using the latest scientometric databases to bring up to date, the list of Science Citation Index (SCI) publications of C-MMACS registered in SCI databases. This was done for the last decade (1992-2002). CSIR frequently requests for this information when the Annual Plans are being proposed.

An assessment we have done of our scientific contributions as indicated by the number of SCI publications shows that in the last 11 years (1992-2002), 78 SCI publications were registered (according to the Web of Science). During this period, the total scientific strength can be computed as 134 scientist-years (11 group IV scientists in 1992 growing to 16 in 2002). Thus the scientific productivity works out to an average of 0.58 SCI publications/scientist/year in the eleven year period from 1992-2002. A word of caution here is that this list will include all items like scientific correspondence, book reviews, etc. and is not restricted only to scientific papers. This is better than the CSIR average for 2001 (= 0.34). If this figure of 0.58 for C-MMACS is actually interpolated into Table-2 of the CSIR Report that was mailed to us by the DG, on 6th June 2002, C-MMACS will rank as the 8th most productive lab of CSIR, just ahead of IICB (0.57) and CLRI (0.49), using this index.

The year-wise summary is as follows:

<table>
<thead>
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<th>Year</th>
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<tr>
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<td>1992</td>
<td>5</td>
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<tr>
<td>TOTAL</td>
<td>78</td>
</tr>
</tbody>
</table>

It would seem that in recent years, we are able to average about 9 SCI items a year.

The full list is carried in the following pages.
Realistic modeling of seismic input for megacities and large urban areas (the UNESCO/IUGS/IGCP project 414)  
EPISODES 25 (3): 160-184 SEP 2002

2. Radhakrishnan K, Ramamohan TR, Thangavelu RP  
Simulation of semi dilute suspensions of slender rods: A test case  
J CHEM ENG JPN 35 (8): 744-752 AUG 2002

Influence of one and two dimensional piezoelectric actuation on active vibration control of smart panels  
AEROSP SCI TECHNOL 6 (3): 209-216 MAY 2002

4. Goswami P  
Experimental forecasts of all-India summer monsoon rainfall for 2002 and 2003 using neural network  
CURR SCI INDIA 82 (10): 1207-1208 MAY 25 2002

Estimates of coseismic displacement and post-seismic deformation using Global Positioning System geodesy for the Bhuj earthquake of 26 January 2001  
CURR SCI INDIA 82 (6): 748-752 MAR 25 2002

6. Raja S, Prathap G, Sinha PK  
Active vibration control of composite sandwich beams with piezoelectric extension-bending and shear actuators  
SMART MATER STRUCT 11 (1): 63-71 FEB 2002

7. Balakrishnan J  
Symmetry scheme for amino acid codons  
PHYS REV E 65 (2): art. no. 021912 Part 1 FEB 2002

Strong-motion amplitudes in Himalayas and a pilot study for the deterministic first-order microzonation in a part of Delhi city  
CURR SCI INDIA 82 (2): 158-166 JAN 25 2002

9. Kumar A  
A discretization of the n-dimensional Laplacian for a dimension-independent stability limit  

10. Goswami P, Raghavan S  
A gradient measure to characterize the interface between non-coding and coding regions in genomic DNA sequences  
CURR SCI INDIA 81 (8): 1090-1099 OCT 25 2001

11. Goswami P, Devasena CK, Sadourny R  
Indo-French workshop on climate and environment  

12. Himesh S  
Invisible pollution  
CURR SCI INDIA 80 (11): 1363-1363 JUN 10 2001
13. Mukherjee S, Prathap G
Analysis of shear locking in Timoshenko beam elements using the function space approach
COMMUN NUMER METH EN 17 (6): 385-393 JUN 2001

14. Himesh S
Dilemma of development and environment: A perspective
CURR SCI INDIA 80 (9): 1101-1102 MAY 10 2001

15. Sitharam TG, Sridevi J, Shimizu N
Practical equivalent continuum characterization of jointed rock masses
INT J ROCK MECH MIN 38 (3) 437-448 APR 2001

Preliminary determination of the interdependence among strong-motion amplitude, earthquake magnitude and hypocentral distance for the Himalayan region
GEOPHYS J INT 144 (3): 577-596 MAR 2001

The motion and active deformation of India

18. Swathi PS, Sharada MK, Yajnik KS
A coupled physical-biological-chemical model for the Indian Ocean

19. Mukul M
The geometry and kinematics of the Main Boundary Thrust and related neotectonics in the Darjiling Himalayan fold-and-thrust belt, West Bengal, India
J STRUC GEOL 22 (9): 1261-1283 SEP 2000

20. Goswami P, Rameshan K
Convective coupling and interannual and intraseasonal coupled variabilities in the tropics
J ATMOS SCI 57 (15): 2445-2462 AUG 1 2000

21. Joseph B, Moustaoui M
Transport, moisture, and rain in a simple monsoonlike flow
J ATMOS SCI 57 (11): 1817-1838 JUN 1 2000

22. Singh RN, Manglik A
Identification of radiogenic heat source distribution in the crust: A variational approach

23. Mukul M
Researching a Ph D in USA

24. Raghavan S, Hariharan R, Brahmachari SK
Polypurine-polypyrimidine sequences in complete bacterial genomes: preference for polypurines in protein-coding regions
25. Mukul M  
Strain variation in fold-and-thrust belts: Implications for construction of retrodeformable models  
P INDIAN AS-EARTH 108 (3): 207-221 SEP 1999

26. Srivastava K, Singh RN  
A stochastic model to quantify the steady-state crustal geotherms subject to uncertainties in thermal conductivity  
GEOPHYS J INT 138 (3): 895-899 SEP 1999

Experimental forecasts of all-India monthly and summer monsoon rainfall using neural network  
CURR SCI INDIA 76 (11): 1481-1483 JUN 10 1999

28. Sharada MK, Yajnik KS  
Effect of nonlinear mortality and self-grazing on the dynamics of a marine ecosystem  

29. Mohan TRK  
Bioremediation of contaminated soil beds and groundwater - A simulation study  

30. Vaidya PG  
The geometry and nonlinear dynamics of pathogenesis  

31. Joseph B, Swathi PS  
Lagrangian particle transport in the Indian Ocean: A model study  
J GEOPHYS RES-OCEANS 104 (C3): 5211-5224 MAR 15 1999

32. Kumar A  
Role of flow-consistent grid in CFD  
COMPUT FLUIDS 28 (3): 265-280 MAR 1999

33. Rameshan K, Goswami P  
Mechanism of broad spectrum of variabilities in the Tropics  
GEOPHYS RES LETT 26 (3): 323-326 FEB 1 1999

34. Mukul M  
Active tectonics and paleoseismology  
CURR SCI INDIA 76 (2): 131-132 JAN 25 1999

35. Kumar SP, Prasad TG  
Formation and spreading of Arabian Sea high-salinity water mass  
J GEOPHYS RES-OCEANS 104 (CI): 1455-1464 JAN 15 1999

36. Srivastava K, Singh RN  
A model for temperature variations in sedimentary basins due to random radiogenic heat sources  
GEOPHYS J INT 135 (3): 727-730 DEC 1998

37. Joseph B, Goswami P  
Effect of land-ocean contrast on the structure of anomaly tropical circulation
38. Mukul M
A spatial statistics approach to the quantification of finite strain
variation in penetratively deformed thrust sheets: an example from the
Sheeprock thrust sheet, Sevier fold-and-thrust belt, Utah

39. Mukul M, Mitra G
Finite strain and strain variation analysis in the Sheeprock thrust sheet: an
internal thrust sheet in the Provo salient of the Sevier fold-and-thrust
belt, central Utah

40. Parthasarathy S, Guemez J
Synchronisation of chaotic metapopulations in a cascade of coupled logistic
map models

41. Mohan TRK
Bifurcations and chaos in a model biochemical reaction pathway

42. Kumar A
On the structure of vortex breakdown on a delta wing
P ROY SOC LOND A MAT 454 (1968): 89-110 JAN 8 1998

43. Joseph B
Are chaotic particle trajectories fractals?

44. Gaur VK, Priestley KF
Shear wave velocity structure beneath the Archaean granites around Hyderabad,
inferred from receiver function analysis

45. Sharada MK, Yajnik KS
Seasonal variation of chlorophyll and primary productivity in central Arabian
Sea: A macrocalibrated upper ocean ecosystem model

46. Swathi PS, Yajnik KS
Sea Surface Heights obtained from Modular Ocean Model simulation and
comparison with Topex/Poseidon data for the Indian Ocean

47. Goswami P, Kumar P
Experimental annual forecast of all-India mean summer monsoon rainfall for
1997 using a neural network model
CURR SCI INDIA 72 (11): 781-782 JUN 10 1997

48. Kumar A
Shock-induced secondary vortices on a delta wing - An Euler simulation
CURR SCI INDIA 72 (11): 874-876 JUN 10 1997

49. Gupta PK, Niwas S, Gaur VK
Straightforward inversion of vertical electrical sounding data
50. Parthasarathy S, Dixon JM  
Analytic structure and chaotic dynamics of the damped driven Toda oscillator  

51. Gupta PK, Niwas SRI, Gaur VK  
Straightforward inversion scheme (SIS) for one-dimensional magnetotelluric data  
P INDIAN AS-EARTH 105 (4): 413-429 DEC 1996

Global positioning system measurements of Indian plate motion and convergence across the lesser Himalaya  
GEOPHYS RES LETT 23 (22): 3107-3110 NOV 1 1996

53. Mohan TRK  
Chaos - A new paradigm for comprehending nature  
CURR SCI INDIA 71 (5): 349-352 SEP 10 1996

54. Jagannadh B, Kunwar AC, Thangavelu RP  
New technique for conformational sampling of cyclic molecules using the AMBER force field: Application to 18-crown-6  
J PHYS CHEM-US 100 (34): 14339-14342 AUG 22 1996

55. Goswami P  
An experimental annual forecast of all-India mean summer monsoon rainfall using neural network  
CURR SCI INDIA 70 (12): 1039-1039 JUN 25 1996

Dynamics of the east India Coastal Current .1. Analytic solutions forced by interior Ekman pumping and local alongshore winds  
J GEOPHYS RES-OCEANS 101 (C6): 13975-13991 JUN 15 1996

Dynamics of the east India coastal current .2. Numerical solutions  
J GEOPHYS RES-OCEANS 101 (C6): 13993-14010 JUN 15 1996

Hydrography and circulation in the western Bay of Bengal during the northeast monsoon  

59. Joseph B, Goswami P  
Modelling of soil temperature profiles using data from the pilot experiment at Anand  

60. Indira NK, Singh RN, Yajnik KS  
Fractal analysis of sea level variations in coastal regions of India  
CURR SCI INDIA 70 (8): 719-723 APR 25 1996

61. Goswami P, Srividya  
A novel neural network design for long range prediction of rainfall pattern  
CURR SCI INDIA 70 (6): 447-457 MAR 25 1996
62. Bhaskarwar AN, Phanikumar MS
On heat transfer augmentation using dilute gas-solid suspensions

63. Swathi PS
Intensive course on applications of remotely sensed data on ocean color

64. Paul J, Blume F, Jade S, et al.
Microstrain stability of peninsular India 1864-1994
P INDIAN AS-EARTH 104 (1): 131-146 MAR 1995

65. Jade S, Shanker KD
Modeling of slope failure using a global optimization technique
ENG OPTIMIZ 23 (4): 255-266 1995

66. Rao RK, Goswami P
Incipient vortex size-dependent evolution of tropical disturbances .2. Some governing processes

67. Goswami P, Rao RK
A dynamical mechanism for selective excitation of the Kelvin mode at timescales of 30-50 days
J ATMOS SCI 51 (19): 2769-2779 OCT 1 1994

68. Gaur VK
Managing disasters precipitated by natural hazards

69. Phanikumar MS
Thermosolutal convection in a rectangular enclosure with strong side walls and bottom heating

70. Jade S, Sarkar S
Statistical models for slope instability classification
ENG GEOL 36 (1-2): 91-98 NOV 1993

71. Goswami P, Rao RK
Incipient vortex size-dependent evolution of tropical disturbances .1. Results from a numerical experiment
P INDIAN AS-EARTH 102 (3): 439-463 SEP 1993

72. Swathi PS
Intensive course on inverse problems in science and engineering
CURR SCI INDIA 65 (5): 370-370 SEP 10 1993

73. Phanikumar MS, Bhaskarwar AN
On the enhancement in heat-transfer through the use of slurries
INT J HEAT MASS TRAN 36 (3): 735-741 FEB 1993

74. Sundaram S, Yajnik KS
Experimental study on the evolution of a wall layer from a wake
AIAA J 30 (12): 2845-2851 DEC 1992
75. Gaur VK  
Earth-sciences in India - the concerns ahead  
CURR SCI INDIA 63 (9-10): 514-516 NOV 10 1992

76. Cunnington GR, Tong TW, Swathi PS  
Angular scattering of radiation from coated cylindrical fibers  

77. Somashekara N, Mohan TRK, Rajaram K, et al.  
Modeling the transport sector in India  
J SCI IND RES INDIA 51 (8-9): 696-708 AUG-SEP 1992

78. James MI, Mittal ML, Gupta GP, et al.  
Interelectrode current leakage in Faraday generators  
ENERG CONVERS MANAGE 33 (2): 105-108 FEB 1992
C-MMACS’ SCI citations 1992-2002: An indicator of quality of C-MMACS’ scientific output

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In a parallel report (C-MMACS SCI publications 1992-2002, IAP and GP), we showed that 78 SCI publications were registered (according to the Web of Science). Thus the scientific productivity works out to an average of 0.58 SCI publications/scientist/year in the eleven year period from 1992-2002. A better indicator of quality is to examine the number of citations C-MMACS publications have been receiving during this period.

A search using the Web of Science was able to bring out the list of papers from C-MMACS which have been listed in ISI’s Web of Science. The following features are seen.

This list, unlike the earlier list which showed that C-MMACS had published 78 items over 11 years, now records only 75 items during this period. The citation record has not been very good. 39 papers have not received any citation; i.e. half of our SCI papers remain uncited. 4 papers which have been most highly cited have a foreign co-author and/or an NIO connection and this could explain its higher impact.

<table>
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<td>166</td>
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A total of 166 citations for 75 papers over the last 11 years is only reasonably good going. This again would probably be the performance of an average lab in the CSIR.
AUTHOR(S)

J. Geophys. Res.-Oceans;PY 1996;PD JUN 15;VL 101
AU McCreary, JP; Han, W; Shankar, D; Shetye, SR
TI Dynamics of the east India coastal current .2. Numerical solutions

J. Geophys. Res.-Oceans;PY 1996;PD JUN 15;VL 101
AU Shetye, SR; Gouveia, AD; Shankar, D; Shenoi, SSC; Vinayachandran, PN; Sundar, D; Michael, GS; Nampoothiri, G
TI Hydrography and circulation in the western Bay of Bengal during the northeast monsoon

J. Geophys. Res.-Oceans;PY 1996;PD JUN 15;VL 101
AU Shankar, D; McCreary, JP; Han, W; Shetye, SR
TI Dynamics of the east India Coastal Current .1. Analytic solutions forced by interior Ekman pumping and local alongshore winds

J. Geophys. Res.-Oceans;PY 1996;PD JUN 15;VL 101
AU Freymueller, J; Bilham, R; Burgmann, R; Larson, KM; Paul, J; Jade, S; Gaur, V
TI Global positioning system measurements of Indian plate motion and convergence across the lesser Himalayas

J. Geophys. Res.-Letters;PY 1996;PD NOV 1;VL 23 (missed in the original search)
AU Goswami, P; Srividya
TI A novel neural network design for long range prediction of rainfall pattern

Curr. Sci.;PY 1996;PD MAR 25;VL 70
AU Kumar, SP; Prasad, TG
TI Formation and spreading of Arabian Sea high-salinity water mass

J. Geophys. Res.-Oceans;PY 1999;PD JAN 15;VL 104
AU Paul, J; Blume, F; Jade, S; Kumar, V; Swathi, PS; Ananda, MB; Guarr, VK; Burgmann, R; Bilham, R; Namboodri, R; Mencin, D
TI Microstrain stability of peninsular India 1864-1994

Proc. Indian Acad. Sci.-Earth Planet. Sci;PY 1995;PD MAR;VL 104
AU Paul, J; Burgmann, R; Gaur, V; Bilham, R; Larson, KM; Ananda, MB; Jade, S; Mukul, M; Anupama, TS; Satyal, G; Kumar, D
TI The motion and active deformation of India

J. Geophys. Res.-Letters;PY 2001;PD FEB 15;VL 28 (missed in the original search)
AU Goswami, P; Rao, RK
TI A Dynamical mechanism for selective excitation of the Kelvin mode at timescale of 30-50 days

J. Atmos. Sci.;PY 1994;PD OCT 1;VL 51
AU Gaur, VK; Priestley, KF
TI Shear wave velocity structure beneath the Archaean granites around Hyderabad, inferred from receiver function analysis

Proc. Indian Acad. Sci.-Earth Planet. Sci;PY 1997;PD JUN;VL 106
AU Mukul, M
TI A spatial statistics approach to the quantification of finite strain variation in penetratively deformed thrust sheets: an example from the Sheeprock thrust sheet, Sevier fold-and-thrust belt, Utah

J. Struct. Geol.;PY 1998;PD APR;VL 20
AU Mukul, M; Mitra, G
TI Finite strain and strain variation analysis in the Sheeprock thrust sheet: an internal thrust sheet in the Provo salient of
the Sevier fold-and-thrust belt, central Utah

TC 4
JI J. Struct. Geol.;PY 1998;PD APR;VL 20

AU Parthasarathy, S; Guemez, J
TI Synchronisation of chaotic metapopulations in a cascade of coupled logistic map models

TC 3
JI Ecol. Model.;PY 1998;PD FEB 16;VL 106

AU Goswami, P; Kumar, P
TI Experimental annual forecast of all-India mean summer monsoon rainfall for 1997 using a neural network model

TC 3
JI Curr. Sci.;PY 1997;PD JUN 10;VL 72

AU Gupta, PK; Niwas, S; Gaur, VK
TI Straightforward inversion of vertical electrical sounding data

TC 3
JI Geophysics;PY 1997;PD MAY-JUN;VL 62

AU Somashekara, N; Mohan, TRK; Rajaram, K; Yajnik, KS
TI Modeling the transport sector in India

TC 3

AU Joseph, B; Swathi, PS
TI Lagrangian particle transport in the Indian Ocean: A model study

TC 2
JI J. Geophys. Res.-Oceans;PY 1999;PD MAR 15;VL 104

AU Sharada, MK; Yajnik, KS
TI Seasonal variation of chlorophyll and primary productivity in central Arabian Sea: A macrocalibrated upper ocean ecosystem model

TC 2
JI Proc. Indian Acad. Sci.-Earth Planet. Sci.;PY 1997;PD JUN;VL 106

AU Indira, NK; Singh, RN; Yajnik, KS
TI Fractal analysis of sea level variations in coastal regions of India

TC 2
JI Curr. Sci.;PY 1996;PD APR 25;VL 70

AU Phanikumar, MS
TI Thermosolutal convection in a rectangular enclosure with strong side-walls and bottom heating

TC 2
JI Int. J. Heat Fluid Flow;PY 1994;PD AUG;VL 15

AU Goswami, P
TI Experimental forecasts of all-India summer monsoon rainfall for 2002 and 2003 using neural network

TC 1
JI Curr. Sci.;PY 2002;PD MAY 25;VL 82

AU Swathi, PS; Sharada, MK; Yajnik, KS
TI A coupled physical-biological-chemical model for the Indian Ocean

TC 1

AU Parvez, IA; Gusev, AA; Panza, GF; Petukhin, AG
TI Preliminary determination of the interdependence among strong-motion amplitude, earthquake magnitude and hypocentral distance for the Himalayan region

TC 1
JI Geophys. J. Int.;PY 2001;PD MAR;VL 144

AU Sitharam, TG; Sridevi, J; Shimuzu, N
TI Practical equivalent continuum characterization of jointed rock masses

TC 1
JI Int. J. Rock Mechanics and Mining Sc;PY 2001;PD APR;VL 38

AU Raghavan, S; Hariharan, R; Brahmachari, SK
TI Polypurine.polypyrimidine sequences in complete bacterial genomes: preference for polypurines in protein-coding regions
TC 1
JI Gene;PY 2000;PD JAN 25;VL 242
AU Goswami, P; Crasta, G; Sreekanth, V; Shobha, KV; Naik, MK

TI Experimental forecasts of all-India monthly and summer monsoon rainfall using neural network
TC 1
JI Curr. Sci.;PY 1999;PD JUN 10;VL 76
AU Sharada, MK; Yajnik, KS

TI Effect of nonlinear mortality and self-grazing on the dynamics of a marine ecosystem
TC 1
AU Rameshan, K; Goswami, P

TI Mechanism of broad spectrum of variabilities in the Tropics
TC 1
JI Geophys. Res. Lett.;PY 1999;PD FEB 1;VL 26
AU Srivastava, K; Singh, RN

TI A model for temperature variations in sedimentary basins due to random radiogenic heat sources
TC 1
JI Geophysics J. Int.;PY 1998;PD DEC;VL 135
AU Kumar, A

TI On the structure of vortex breakdown on a delta wing
TC 1
JI Proc. Roy. Soc. A-Mat;PY 1998;PD JAN; VL 454
AU Kumar, A

TI On the structure of vortex breakdown on a delta wing - An Euler simulation
TC 1
JI Curr. Sci.;PY 1997;PD JUN 10;VL 72
AU Gupta, PK; Niwas, SRI; Gaur, VK

TI Straightforward inversion scheme (SIS) for one-dimensional magnetotelluric data
TC 1
JI Proc. Indian Acad. Sci.-Earth Planet. Sci;PY 1996;PD DEC;VL 105
AU Mohan, TRK

TI On heat transfer augmentation using dilute gas-solid suspensions
TC 1
JI J. Heat Transf.-Trans. ASME;PY 1995;PD NOV;VL 117
AU Bhaskarwar, AN; Phanikumar, MS

TI Incipient vortex size-dependent evolution of tropical disturbances .1. Results from a numerical experiment
TC 1
JI Proc. Indian Acad. Sci.-Earth Planet. Sci;PY 1993;PD SEP;VL 102
AU Phanikumar, MS; Bhaskarwar, AN

TI On the enhancement in heat-transfer through the use of slurries
TC 1
JI Int. J. Heat Mass Transf.;PY 1993;PD FEB;VL 36
AU Panza, GF; Alvarez, L; Aoudia, A; et al.

TI On the enhancement in heat-transfer through the use of slurries
TC 1
JI Int. J. Heat Mass Transf.;PY 1993;PD FEB;VL 36
AU Panza, GF; Alvarez, L; Aoudia, A; et al.

TI Realistic modeling of seismic input for megacities and large urban areas
TC 0
JI Episodes;PY 2002;PD SEP;VL 25
AU Radhakrishnan, K; Ramamohan, TR; Thangavelu, RP

TI Simulation of semi dilute suspensions of slender rods: A test case
TC 0
AU Raja, S; Sinha, PK; Prathap, G; Bhattacharya, P
TI Influence of one and two dimensional piezoelectric actuation on active vibration control of smart panels
TC 0
JI Aerosp. Sci. Technol.;PY 2002;PD MAY;VL 6

AU Jade, S; Mukul, M; Parvez, IA; Ananda, MB; Kumar, PD; Gaur, VK
TI Estimates of coseismic displacement and post-seismic deformation using Global Positioning System geodesy for the Bhuj earthquake of 26 January 2001
TC 0
JI Curr. Sci.;PY 2002;PD MAR 25;VL 82

AU Raja, S; Prathap, G; Sinha, PK
TI Active vibration control of composite sandwich beams with piezoelectric extension-bending and shear actuators
TC 0
JI Smart mater struct;PY 2002;PD FEB;VL 11

AU Balakrishnan, J
TI Symmetry scheme for amino acid codons
TC 0
JI Phys. Rev. E;PY 2002;PD FEB;VL 65

AU Parvez, IA; Panza, GF; Gusev, AA; Vaccari, F
TI Strong-motion amplitudes in Himalayas and a pilot study for the deterministic first-order microzonation in a part of Delhi city
TC 0
JI Curr. Sci.;PY 2002;PD JAN 25;VL 82

AU Kumar, A
TI A discretization of the n-dimensional Laplacian for a dimension-independent stability limit
TC 0

AU Goswami, P; Raghavan, S
TI A gradient measure to characterize the interface between non-coding and coding regions in genomic DNA sequences
TC 0
JI Curr. Sci.;PY 2001;PD OCT 25;VL 81

AU Goswami, P; Devasena, CK; Sadourny, R
TI Indo-French workshop on climate and environment
TC 0
JI Curr. Sci.;PY 2001;PD SEP 25;VL 81

AU Himesh, S
TI Invisible pollution
TC 0
JI Curr. Sci.;PY 2001;PD JUN 10;VL 80

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