

List of publications of Dr. M. N. Vahia

(Updated to August 2006)

1. Abundance anomalies in cosmic rays
S. Biswas, N. Durgaprasad and **M N Vahia**
in "Nucleosynthesis" ed S. Biswas, S. Ramadurai and **M N Vahia**, Tata Institute of Fundamental Research, Bombay, 126, (1980)
- 2 Study of Homalite and Pershore ADC (CR-39) plastic detector for cosmic ray composition studies
N. Durgaprasad, P. J. Kajarekar, S. Sarkar, **M N Vahia** and S. Biswas
Proceedings of the seventeenth International Cosmic Ray Conference, Paris, France, 8, 79 (1981)
- 3 Elemental abundances of sulphur to iron nuclei emitted in a large solar flare
N. Durgaprasad, S. Biswas and **M N Vahia**
Proceedings of the seventeenth International Cosmic Ray Conference, Paris, France, 3, 129 (1981)
- 4 Energy and charge dependence of the abundance enrichment factors of solar cosmic ray nuclei
N. Durgaprasad, S. Biswas and **M N Vahia**
Proceedings of the seventeenth International Cosmic Ray Conference, 3, 130 (1981)
- 5 Ionisation states of solar and galactic cosmic rays: project report.
S. Biswas, D. Lal, M. K. Padmanabhan, N. Durgaprasad, R. Cowsik, J. N. Goswami, S. Sarkar, **M N Vahia**, V. S. Venkatavardan, H. S. Mazumdar, P. J. Kajarekar, R. Shrivastava, M. V. Kannan, N. Dutt and D.V. Subhedar
Technical Report no TIFR-PRL-ISRO-Technical Report SP-CR-82-12 Tata Institute of Fundamental Research (1982)
- 6 On the origin of low energy anomalous component of galactic cosmic rays
M N Vahia and S. Biswas,
Composition and origin of Cosmic Rays, ed M. M. Shapiro, D Reidel pub Company, 149,(1983)
- 7 Solar energetic particle studies
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- 8 Correlation between X-ray luminosity and the deviation from the Main Sequence colour diagram for stellar X-ray sources
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- 9 Detector module for Indian cosmic ray experiment aboard Space Shuttle Space Lab-3
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- 10 He³ rich solar flares
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Proceedings of the eighteenth International Cosmic Ray Conference, Bangalore, India, 4, 46 (1983)
- 11 Elemental composition of nuclei above silicon emitted in a large flare of August 4, 1972
N. Durgaprasad, **M N Vahia** and S. Biswas
Proceedings of the eighteenth International Cosmic Ray Conference, Bangalore, India, 4, 36 (1983)
- 12 Energy and nuclear charge dependence of abundance enhancements of solar cosmic ray heavy ions in three large solar events
S. Biswas, N. Durgaprasad and **M N Vahia**
Solar Physics, 89, 163 (1983)
- 13 On the study of the energetic particle emission from the sun
M N Vahia
Thesis for the degree of doctor of philosophy, University of Bombay (1983)
- 14 ADC (CR-39) detector module for Space Shuttle Spacelab-3 cosmic ray experiment
S. Biswas, N. Durgaprasad, P. J. Kajarekar, **M N Vahia**, J. S. Yadav, C. Basu, J. N. Goswami, L. M. Kukreja and D. D. Bhavalkar
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- 15 Cutting thin sheets of Allyl Diglycol Carbonate (CR-39) with a CW CO₂ laser: Instrumentation and parametric investigation
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- 16 He³ rich solar flares
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- 17 Correlation between X-ray luminosity and the deviation from the Main Sequence colour diagram for stellar X-ray sources
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- 18 A comment on the authors' ages for the most cited papers
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- 19 Abundances of sub-Fe group of nuclei and their implications
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- 20 Particle emission from Sun
S. Biswas and **M N Vahia**
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- 21 Study of composition and energy spectra of cosmic ray ions of $Z = 6-28$ of $E > 1$ to 100 TeV/N in Space Station
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- 25 Possible origin of the anomalous component of cosmic rays
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- 32 Multiple citations of multiple author publications
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- 33 Weakly interacting massive particles and solar oscillations
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- 39 Fast transient X-rays from flare stars and RS CVn binaries
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- 40 Origin of gamma ray bursts
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