CURRICULUM VITAE

Somnath Dasgupta

Ford Foundation Chair Professor
(2016 - 2017)
Department of Geography
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Personal data:

Date of birth: 13 October, 1951

Professional experience:

A. Geologist, Geological Survey of India, 1978 - 1981

B. 35 Years Undergraduate and Postgraduate teaching experience as:

1. **Lecturer in Geology, Jadavpur University, 1981 - 1986**
2. **Senior Lecturer in Geology, Jadavpur University, 1986 - 1990**
3. **Reader in Geology, Jadavpur University, 1990 - 1997**
4. **Professor in Geology, Jadavpur University, 1997 - 2007**
5. **Professor, Indian Institute of Science Education & Research, Kolkata, 2007 - 2015 (including Deputation period)**
6. **Director, National Centre of Experimental Mineralogy & Petrology, University of Allahabad, August 2010 - July, 2011**
7. **Director-in-charge, Indian Institute of Science Education & Research, Kolkata September 2011 - January, 2012**

8. **Dean, Research & Development, Indian Institute of Science Education & Research, Kolkata, April 2012 - June, 2012**
9. **Vice Chancellor, Assam University, Silchar, June 2012 - November 2015**
10. **Distinguished Visiting Professor, Indian Institute of Technology, Bombay (2014 - 16)**
11. **Adjunct Professor, Indian School of Mines, Dhanbad (2016-17)**

Academic Qualification:

B.Sc. (Honours in Geological Sciences), Jadavpur University, 1971

M.Sc. (Applied Geology), Jadavpur University, 1974

Ph. D. (Science), Jadavpur University, 1979.

Title of Ph.D. thesis: A study of the geology and ore mineralisation along the Madan Kudan - Kolihan section, Khetri Copper Belt, Rajasthan, India.

Research Specialization: Geochemistry, Metamorphic Petrology, Ore Geology, Precambrian Geology

Ph.D Guidance: 20 (Completed)

Research Projects:
Council of Scientific & Industrial Research : 3 (Completed)
Department of Science & Technology :7 (Completed), 1 (Ongoing)
National Science Foundation, USA – DST Collaborative Project: 1 (Completed)
Deutsche Forschungsgemeinschaft : 1 (Completed)
Indo-Australia Strategic Research Fund: 1 (Completed)
DFG (Germany) funded Research Project : 1 (Ongoing)

Awards:

(National)

1. **Recipient of University Gold Medal, 1974**
2. **Recipient of P.N. Bose Medal from Jadavpur University, 1974**
3. **Recipient of N.N. Chatterjee Medal from the Asiatic Society, Calcutta, 1979**
4. **Recipient of Career Award by the University Grants Commission, 1988**
5. **Recipient of Krishnan Medal from the Indian Geophysical Union, 1989.**
6. **Recipient of National Mineral Award from the Government of India, 1996.**
7. **J.C. Bose Fellowship from the Department of Science & Technology, Government of India, 2007-2017.**
8. **Teachers Award, Indian National Science Academy, 2014**

9. **Distinguished Visiting Professor, Indian Institute of Technology, Bombay (2014-16)**
10. **Adjunct Professor, Indian School of Mines, Dhanbad (2016-17)**
11. **D.N. Wadia Medal, Indian National Science Academy, 2018**

(International)

1. **Recipient of Post Doctoral Fellowship from the Government of Japan 1984-85.**
2. **Recipient of Fellowship from the Alexander von Humboldt Foundation 1991-92, 1997, 2006, 2008, 2011, 2017.**
3. **Awarded Mercator Guest Professorship by the German Research Foundation, 2002-03.**
4. **Awarded Visiting Professorship by Hokkaido University, 2007**

Academic Assignments abroad:

1. Post-Doctoral Fellow at Hokkaido University, 1984-85
2. Visiting Scientist to the USSR, 1989
3. Alexander von Humboldt Foundation sponsored Post-Doctoral Fellow at the University of Bonn, Germany in 1991-92, 1997, and at Ruhr University, Bochum in 2006, 2008, 2011, 2017
4. Visiting Scientist at the University of Bonn, Germany, 1996
5. Visiting Scientist at Hokkaido University, Japan, 1998, 1999, 2006
6. Visiting Scientist at University of Arizona, USA, 2001-2002
7. Mercator Guest Professor at Rühr University, Bochum, Germany, 2002-2003
8. Visiting Professor, Hokkaido University, Japan, 2007
9. Visiting Scientist, LEMIT, La Plata, Argentina, 2010

Membership of Science Academies:

1. Fellow of the Indian Academy of Sciences
2. Fellow of Indian National Science Academy
3. Fellow of the National Academy of Sciences
4. Fellow of West Bengal Academy of Science & Technology
5. Fellow of the Academy of Sciences for the Developing World (TWAS), Trieste, Italy
6. Member, American Chemical Society

Other Important Assignments:

1. Keynote Speaker on Manganese Deposits at the 8th IAGOD Conference, Ottawa, 1990
2. International Co-Leader of UNESCO-IGCP Project 318 (Polymetallic nodules), 1992-1995.
3. Co-Convenor of Session 9-7 (Proterozoic events in East Gondwana) in the 31st IGC, Rio de Janeiro, 2000
4. Leader of the Indian Delegation to the 31st IGC, Rio de Janeiro, Brazil, 2000
5. Chairman, Indian National Committee of the International Union of Geological Sciences, 2000-2003
6. Member, Programme Advisory Committee in Earth Sciences, Department of Science & Technology, Government of India, 1998-2000.
7. Member, Earth and Environmental Sciences Research Committee, Council of Scientific & Industrial Research, Government of India, 2001-2003, 2008-2011.
8. Council Member, Geological Society of India 2001-2003, 2010-2012
9. Member of the Editorial Board of the International Journal Gondwana Research 2000-2005.
10. Associate Editor, Precambrian Research (Elsevier, Amsterdam) 2005-2013.
11. Member, Programme Advisory and Monitoring Committee, Deep Continental Studies, Department of Science & Technology, Government of India, 2005-2007.
12. Honorary Adviser, DAAD New Delhi 2006-09.
13. Member, Editorial Board, Journal of the Geological Society of India, 2008-2015
14. Associate Editor, Journal of Earth System Science (Springer) 2008-2012
15. Member of the Editorial Board of Geological Journal (Wiley-Interscience) 2010-2013
16. Member of the Working Group on 12th Plan proposals for the Ministry of Earth Sciences, Government of India, 2011.
17. Member, Research Council, National Institute of Oceanography, Goa, 2010-2016.
18. Member, Programme Advisory and Monitoring Committee, Ministry of Earth Sciences, 2012-2016.
19. Member of the Governing Body of NCESS, Trivandrum (Ministry of Earth Sciences, Government of India) 2014-16.
20. Chairperson, Research Advisory Council, NCESS, Trivandrum (Ministry of Earth Sciences, Government of India) 2014-16
21. Member of Editorial Board of Precambrian Research (Elsevier): 2013-15
22. Associate Editor, Current Science 2014-2017
23. Member, Programme Advisory and Monitoring Committee, Ministry of Earth Sciences, 2016-2019.
24. Chair, Field Programme Committee for IGC 2020
25. Member, Steering Committee for Climate Change, Ministry of Earth Sciences, 2017-2020

Existing Research Collaborations:

1. **University of Bonn, Germany,**
2. **Hokkaido University, Japan,**

3. **University of Arizona, U.S.A.**
4. **RuhrUniversity, Bochum, Germany**
5. **Carleton University, Ottawa, Canada**
6. **Polish Academy of Sciences, Krakow**
7. **University of Canberra, Australia**

LIST OF PUBLICATIONS OF SOMNATH DASGUPTA

(Excluding Abstracts)

As of 06 March 2020

Total citation: 4251
H-index-39
I-10 index-84
Source: Google Scholar

1. **Dasgupta, S**. (1978). Sedimentary structures in the Precambrian Delhi Supergroup rocks and their significance. **Indian Journal of Earth Sciences, 5, 177-182.**
2. **Sarkar, S.C. and Dasgupta, S.** (1980). A study of the preexistent ores at the intrusive contact and the origin of the late hydrothermal veins at the Madan Kudan and Kolihan mines, Khetri copper belt, Rajasthan, India. **Neues Jahrbuch fur Mineralogie abh, 143, 102-112.**
3. **Sarkar, S.C. and Dasgupta, S.** (1980). Geologic setting, genesis, and transformation of sulfide deposits in the northern part of the Khetri copper belt, Rajasthan, India. **Mineralium Deposita, 15, 117-137**.
4. **Bhattacharya, P.K. and Dasgupta, S.** (1981). Evolution of massive granites in the Khetri copper belt, Rajasthan : implications in regional correlation. **Indian Journal of Earth Sciences, 8, 44-53**.
5. **Banerjee, H., Dasgupta, S., Sarkar, S.C. and Bhattacharya, P.K.** (1983). Evolution of the lesser Himalayan Matapelites of the Sikkim-Darjeeling region, India and some related problems. **Neues Jahrbuch fur Mineralogie Abh, 145, 197-209**.
6. **Bhattacharya, P.K., Dasgupta, S., Fukuoka, M., Hirowatari, F. and Roy, S.** (1984). Mineralogy and mineral chemistry of metamorphosed manganese oxide ores and manganese silicate-oxide rocks : the example from the Precambrian Sausar Group, India. **Proceedings 27th. International Geological Congress, Moscow, Volume 12, VNU Press, 293-310.**.
7. **Dasgupta, S., Fukuoka, M. and Roy, S.** (1984). Hematite-pyrophanite intergrowth in gondites, Chilka area, Sausar Group, India. **Mineralogical Magazine, 48, 558-560**.

8. **Dasgupta, S., Banerjee, H. and Majumdar, N.** (1984). Contrasting trends of mineral reactions during progressive metamorphism in interbanded pelite-manganese oxide sequence - example from Precambrian Sausar Group, India. **Neues Jahrbuch fur Mineralogie Abh, 150, 95-102**.
9. **Bhattacharya, P.K., Dasgupta, S., Fukuoka, M. and Roy, S.** (1984). Geochemistry of braunite and associated Phases in metamorphosed non-calcareous manganese ores of India. **Contributions to Mineralogy and Petrology, 87, 65-71**.
10. **Dasgupta, S., Banerjee, H. and Fukuoka, M**. (1985). Oxidation gradients in metamorphosed non-calcareous manganese ores. **Contributions to Mineralogy and Petrology, 90, 258-261.**
11. **Dasgupta, S., Miura, H. and Hariya, Y.** (1985). Stability of Mn-cummingtonite - an experimental study. **Mineralogical Journal, 12, 251-259.**
12. **Roy, S., Dasgupta, S., Bhattacharya, P.K., Fukuoka, M., Banerjee, H. and Majumdar, N. (1986).** Petrology of Mn silicate-carbonate-oxide rock of Sausar Group, India. **Neues Jahrbuch fur Mineralogie Abh, 12, 561-568.**
13. **Dasgupta, S., Banejee, H., Miura, H. and Hariya, Y.** (1986). Stability of braunite and associated phases in parts of the system Mn-Fe-Si-O. **Mining Geology, 36, 351-360**.
14. **Dasgupta, S., Bhattacharya, P.K., Majumdar, N., Fukuoka, M., Banerjee, H. and Roy, S.** (1987). Calderite-rich garnets from metamorphosed manganese silicate rocks of Sausar Group, India, and their derivation. **Mineralogical Magazine, 51, 577-583**.
15. **Dasgupta, S., Bhattacharya, P.K., Chattopadhyay, G., Fukuoka, M., Banerjee, H. and Roy, S. (1987).** Genetic reinterpretation of crystallographic intergrowth of jacobsite and hausmannite from natural assemblages. **Mineralogy and Petrology, 37, 109-116.**
16. **Banerjee, H., Miura, H., Dasgupta, S., Hariya, Y. and Roy, S.** (1987). Hollandite and cryptomelane in the manganese oxide deposits of the Sausar Group, India. **Mineralogical Journal, 13, 424-433**.
17. **Dasgupta, S., Chattopadhyay, G., Bhattacharya, P.K., Fukuoka, M., Banerjee, H., Majumdar, N. and Roy, S.** (1988). Petrology of Mg-Mn amphibole bearing assemblages in manganese silicate rocks of the Sausar Group, India. **Mineralogical Magazine, 52, 105-111.**
18. **Bhattacharya, P.K., Dasgupta, S., Chattopadhyay, G., Banerjee, H., Fukuoka, M. and Roy, S. (1988).** Petrology of jacobsite bearing assemblages from Sausar Group, India.**Neues Jahrbuch fur Mineralogie Abh, 159, 101-111.**
19. **Mukhopadhyay, S., Dasgupta, S. and Roy, S.** (1988). Distribution and character of micronodules in pelagic sediments from CentralIndianBasin, Indian ocean and their implications. **Marine Mining, 7, 351-358**.
20. **Dasgupta, S., Chakraborti, S ., Sengupta, P., Bhattacharya, P.K., Banerjee, H., Fukuoka , M . and Roy, S .** (1989) . Compositional

characteristics of kinoshitalite from the Sausar Group , India . **American Mineralogist , 74 , 200 -202 .**

21. **Dasgupta, S., Sengupta, P., Bhattacharya, P.K., Fukuoka, M ., Banerjee, H., Mukherjee, M. and Roy, S .** (1989) . Mineral reactions in manganese oxide rocks : P - T - X phase relations . **Economic Geology , 84 , 434-443 .**
22. **Chaudhuri, A.K., Dasgupta, S., Bandyopadhyay, G., Sarkar, S., Bandyopadhyay, P.C. and Gopalan, K**. (1989). Stratigraphy of the Penganga Group around Adilabad, Andhra Pradesh. **Journal of the Geological Society of India, 34, 291-302.**
23. **Sengupta, P., Dasgupta, S., Bhattacharya, P.K. and Hariya, Y.** (1989) . Mixing behavior in quaternary garnet solid solution and an extended Ellis and Green garnet - clinopyroxene geothermometer.**Contributions to Mineralogy and Petrology,103 ,223-227.**
24. **Dasgupta, S., Banerjee, H., Bhattacharya, P.K., Fukuoka, M. and Roy, S.** (1990). Petrogenesis of metamorphosed manganese deposits and the nature of their precursor sediments. **Ore Geology Reviews, 5, 359-384**.
25. **Dasgupta, S., Chakraborti, S., Sengupta, P. ,Fukuoka, M. and Roy, S.** (1990). Ca -Ba -Sr carbonates from metamorphosed manganese deposits of the Sausar Group , India and their petrologic significance . **Mineralogical Magazine , 54, 511-513** .
26. **Dasgupta, S., Chaudhuri, A.K. and Fukuoka, M.** (1990). Compositional characteristics of glauconitic alterations of K-feldspar from India and their implications. **Journal of Sedimentary Petrology, 60, 277-281**.
27. **Sengupta, P., Dasgupta, S., Bhattacharya, P.K. and Mukherjee, M.** (1990). An orthopyroxene-biotite geothermometer and its applications in crustal granulites and mantle- derived rocks. **Journal of Metamorphic Geology, 8 ,191-197.**
28. **Roy, S., Dasgupta, S., Fukuoka, M., Mukhopadhyay, S.** (1990). Atypical ferromanganese nodules from pelagic areas of CentralIndianBasin, equatorial Indian Ocean. **Marine Geology, 92, 269-283**.
29. **Sengupta, P., Dasgupta, S., Bhattacharya, P.K., Fukuoka, M., Chakraborti, S., and Bhowmick, S.** (1990). Petrotectonic imprintsin the sapphirine granulites from Anantagiri, Eastern Ghats mobile belt , India . **Journal of Petrology**, 31, 971-996.
30. **Dasgupta , S ., Sengupta , P., Fukuoka , M. and Bhattacharya, P.K.** (1991) . Mafic granulites from the Eastern Ghats, India - further evidence for extremely high temperature crustal metamorphism .**Journal of Geology, 99, 124-133**.
31. **Dasgupta, S., Chakraborti, S., Sengupta, P., Fukuoka, M., Bhattacharya, P.K., Banerjee, H. and Roy, S.** (1991). Manganese rich minerals of the pumpellyite group from the Precambrian Sausar Group , India**. American Mineralogist, 76, 241-245.**

32. **Sengupta, P., Karmakar, S., Dasgupta, S., and Fukuoka, M.** (1991). Petrology of spinel granulites from Araku , Eastern Ghats ,India , and a petrogenetic grid for sapphirine-free rocks in the system FMAS. **Journal of Metamorphic Geology, 9,451-459**.

33. **Dasgupta, S., Sengupta, P., Guha, D., and Fukuoka, M.** (1991). A refined garnet-biotite Fe-Mg exchange geothermometer and its application in granulites and amphibolites. **Contributions to Mineralogy and Petrology, 109 , 130- 137**.

34. **Delian, F., Dasgupta, S., Bolton, B.R., Hariya, Y., Momoi, H., Miura, H., Jiaju, L. and Roy, S**. (1992). Mineralogy and geochemistry of the Protorozoic Wafangzi deposits , China . **Economic Geology , 87 , 1430-1440 .**

35. **Dasgupta, S., Roy, S. and Fukuoka, M.** (1992). Depositional models for manganese oxide and carbonate deposits of the Precambrian Sausar Group , India . **Economic Geology, 87, 1412-1418.**

36. **Dasgupta, S., Banerjee, H. and Bandyopadhyay, G.** (1992). Manganese deposition in the Proterozoic - the global perspective and the Indian scenario. In : SarkarS.C.(ed) Metallogeny related to the tectonics of the Proterozoic mobile belts. **Oxford - IBH Publishing Co. New Delhi. 163-176**.

37. **Dasgupta, S., Sengupta, P., Fukuoka, M., and Chakraborti, S.** (1992). Dehydration melting , fluid buffering and decompressional P - T path in a granulite complex from the Eastern Ghats , India .**Journal of Metamorphic Geology, 10, 777-788**.

38. **Dasgupta, S., Sengupta, P., Mondal, A. and Fukuoka, M.**(1993). Mineral chemistry and reaction textures in metabasites from the Eastern Ghats belt , India , and their implications. **Mineralogical Magazine, 57, 113-120**.

39. **Dasgupta, S.** (1993). Contrasting parageneses in high temperature calc-silicate granulites :example from the Eastern Ghats , India . (1993). **Journal of Metamorphic Geology, 11, 193-202**.

40. **Dasgupta, S. and Ehl, J.** (1993). Reaction texture in a spinel-sapphirine granulite from the Eastern Ghats, India and their implications. **European Journal of Mineralogy, 5, 537-543**.

41. **Dasgupta, S., Sengupta, P., Fukuoka, M. and Roy, S.**(1993) Contrasting parageneses in the manganese silicate-carbonate rocks from Parseoni, Sausar Group, India and their interpretation. **Contributions to Mineralogy and Petrology, 114, 533-538.**

42. **Dasgupta, S., Hariya, Y. and Miura, H.** (1993) Compositional limits of manganese carbonates and silicates in granulite facies metamorphosed deposits of Garbham, Eastern Ghats, India. **Journal of Resource Geology (Japan), 17, 43-49.**

43. **Dasgupta, S., Sanyal, S., Sengupta, P. and Fukuoka, M.** (1994) Petrology of granulites from Anakapalle - evidence for Proterozoic decompression in the Eastern Ghats, India. **Journal of Petrology, 35, 433-459.**

44. **Chaudhuri, A., Chanda,S.K. and Dasgupta, S.(1994)** Proterozoic glauconitic peloids from South India : A study of their origin and significance. **Journal of Sedimentary Research, A64, 765-770.**

45. **Dasgupta, S**.(1995) Pressure-temperature evolutionary history of the Eastern Ghats granulite province : Recent advances and some thoughts. **Memoir of the Geological Society of India No.34, 101-110.**

46**. Dasgupta, S., Sengupta, P., Ehl, J., Raith, M. and Bardhan, S**. (1995) Reaction textures in a suite of spinel granulites from the Eastern Ghats Belt, India : Evidence for polymetamorphism, a partial petrogenetic grid in the system KFMASH and the roles of ZnO and Fe_2O_3, **Journal of Petrology 36, 435-462**.

47. **Bhowmik,S., Dasgupta,S., Hoernes,S. and Bhattacharya, P.K.** (1995) Extremely high temperature calc silicate granulites from the Eastern Ghats Belt, India : Evidence for isobaric cooling, fluid buffering and terminal channelized fluid flow. **European Journal of Mineralogy,7, 689-703.**

48. **Dasgupta,S. and Sengupta,P.** (1995) Ultrametamorphism in Precambrian granulite terrains-evidence from Mg-Al granulites and calc-silicate granulites of the Eastern Ghats, India. **Geological Journal , 30, 307-318.**

49. **Sengupta,P., Dasgupta, S., Bhui,U.K., Ehl,J and Fukuoka, M.** (1996)Magmatic evolution of mafic granulites from Anakapalle, Eastern Ghats, India : Implications for tectonic setting of a Precambrian high grade terrain. **Journal of Southeast Asian Earth Sciences (Pergamon, U.K.), Special Issue on Precambrian India within East Gondwana, M. Yoshida, M. Santosh & M. Arima (Eds), 14, 185-198.**

50.**Dasgupta, S.** (1997) P-T-X relationships during metamorphism of manganese-rich sediments: Present status and future studies. **Geological Society of London Special Publications, K. Nicholson, J.R. Hein, B. Buhn & S. Dasgupta (Eds)**. **119, 327-337.**

51. **Sengupta,P., Sanyal,S., Dasgupta,S., Ehl,J, Fukuoka,M & Pal,S.** (1997)Controls of metamorphic reactions in calc-silicate granulites : evidence from Anakapalle, Eastern Ghats, India. **Journal of Metamorphic Geology, 15, 551-564.**

52. **Dasgupta,S., Guha, D., Sengupta,P & Ehl, J.** (1997)**.** Pressure-temperature-fluid evolutionary history of the Sand Mata granulite complex, Rajasthan, India. **Precambrian Research, 83, 267-290.**

53. **Dasgupta, S., Ehl, J., Raith, M.M., Sengupta, P. and Sengupta, P.** (1997). Deep crustal contact metamorphism around the Chimakurthy mafic-ultramafic Complex, Eastern Ghats Belt, India. **Contributions to Mineralogy and Petrology, 129,** 182-197.

54.**Neogi, S., Dasgupta, S. and Fukuoka, M.** (1998). High P-T polymetamorphism, dehydration melting, generation of migmatites and granites in the Higher Himalayan Crystalline Sequence, Sikkim, India. **Journal of Petrology, 39,** 61-99.

55. **Dasgupta, S. and Sengupta, P.** (1998). Reworking of an isobarically cooled deep continental crust : evidence of decompressive P-T trajectory from the Eastern Ghats belt, India. **Indian Journal of Geology, 70,** 133-144.

56. **Dasgupta, S., Sengupta, P., Pal, S. and Fukuoka, M. (1999)** Evdence of superposed metamorphism from the Gokavaram area, Eastern Ghats belt,, and its relation with the KempLandCoast, East Antarctica. **Gondwana Research, 2, 227-236.**

57. **Banerjee, R, Roy, S, Dasgupta, S, Mukhopadhyay, S and Miura, H** (1999). Petrogenesis of ferromanganese nodules from east of the Chagos Archipelago, CentralIndianBasin, Indian Ocean. **Marine Geology, 157, 145-158.**

58. **Sengupta, P., Sen, J., Dasgupta, S., Raith, M.M., Bhui, U.K. and Ehl, J. (1999).** Ultra-high temperature metamorphism of meta-pelitic granulites from Kondapalle, Eastern Ghats Belt: Implications for the Indo-Antarctic correlation. **Journal of Petrology, 40, 1065-1087**

59. **Dasgupta, S., Sengupta, P., Sengupta, P., Ehl, J. and Raith, M. (1999).** Petrology of gedrite-bearing rocks from the Eastern Ghats belt, India : Evidence for reworking along mid-crustal ductile shear zones.**, Journal of Metamorphic Geology, 17, 765-778.**

60. **Neogi, S., Dasgupta, S., Sengupta, P and Das, N(1999).** Ultrahigh temperature decompression in a suite of granulites from the Eastern Ghats Belt - Bastar Craton contact, and its significance. **Memoir Gondwana Research Group, eds. D. Rao & A.T. Rao, No. 5, 115-138.**

61. **Bose, S, Fukuoka, M., Sengupta, P and Dasgupta, S. (2000).** Evolution of high Mg-Al granulites from Sunkarametta, Eastern Ghats: evidence for lower crustal heating-cooling trajectory **. Journal of Metamorphic Geology, 18, 223-240.**

62. **Ganguly, J, Dasgupta, S, Cheng, W and Neogi, S. (2000).** Exhumation history of a section of the Sikkim Himalayas, India : records in the metamorphic mineral equilibria and compositional zoning of garnet. **Earth and Planetary Science Letters, 183, 471-486.**

63. **Dasgupta, S and Sengupta, P. (2000).** Tectonothermal evolution of the Eastern Ghats granulite Belt, India: A metamorphic perspective. **Geological Survey of India Special Publication No. 55, 259-274.**

64. **Dasgupta, S, Sengupta, S, Bose, S, Fukuoka, M and Dasgupta, S.(2001).** Polymetamorphism in the schirmacher hills granulites, east Antarctica : implications for tectonothermal reworking of an isobarically cooled deep continental crust. **Gondwana Research, 4, 337-357.**

65. **Rickers,K., Raith, M. and Dasgupta, S (2001).** Multistage reaction textures in xenolithic high-MgAl granulites at Anakapalle, Eastern Ghats belt, india : examples of contact polymetamorphism and infiltration-driven metasomatism. **Journal of Metamorphic Geology, 19, 563-582.**

66. **Das, K., Dasgupta, S and Miura, H**. **(2001)** Stability of osumilite coexisting with spinel solid solution in metapelitic granulites at high oxygen fugacity. **American Mineralogist , 86, 1423-1434.**

67. **Mukhopadhyay, S., Roy, S., Fukuoka, M, and Dasgupta, S. (2002)** Controls of evolution of mineral assemblages in ultrahigh temperature metamorphosed Mn carbonate-silicate rocks from the Eastern Ghats belt, Idia. **European Journal of Mineralogy , 14, 73-83.**

68. **Dasgupta, S and Sengupta, P. (2002)** Ultrahigh temperature metamorphism in the Eastern Ghats Belt, India: evidence from high Mg-Al granulites.**ProceedingsIndianNationalScienceAcademy, 68 A, 21-34.**

69. **Sarkar, S., Santosh, M, Dasgupta, S & Fukuoka, M (2003).** Very high density CO_2 associated with ultrahigh temperature granulites from the Eastern Ghats Belt, India. **GEOLOGY, 31, 1, 51-54.**

70. **Dasgupta, S & Sengupta, P (2003).** Indo-Antarctic correlation: A metamorphic perspective from the Eastern Ghats Belt, India. **Geological Society of London Special Publication, No. 206, 131-142.**

71. **Das, K., Dasgupta, S & Miura, H (2003).**An experimentally constrained petrogenetic grid in the silica-saturated portion of the system KFMASH at high temperatures and pressures. **Journal of Petrology, 44, 1055-1075.**

72. **Sarkar, S., Dasgupta, S & Fukuoka, M (2003).** Petrological Evolution of a Suite of

    Spinel Granulites from Vizianagram, Eastern Ghats Belt, India, and Genesis of Sapphirine – bearing Assemblages.**Journal of Metamorphic Geology, 21, 899-914.**

73. **Dasgupta, S., Ganguly, J. & Neogi, S (2004)**. Inverted metamorphic sequence in the Sikkim Himalayas: Crystallization history, *P-T* gradient, and implications. **Journal of Metamorphic Geology, 22, 395-412.**

74. **Bhowmik, S.K. & Dasgupta, S (2004).**Tectonometamorphic Evolution of

    Boudin-type Granulites in the Central Indian Tectonic Zone and Northwestern

    India: A Synthesis and Future Perspectives. **Geological Survey of India, Special Publications, 84, 227-246.**

75. **Dasgupta,S. & Pal, S (2005).** Origin of Grandite Garnet in Calc - Silicate Granulites: Mineral-Fluid Equilibria and Petrogenetic Grids. **Journal of Petrology, 46, 1045-1076.**

76. **Chakraborty, S., Dasgupta, S. & Neogi, S (2005).** Generation of migmatites and the nature of partial melting in a continental collision zone setting: An

    example from the Sikkim Himalaya. **Indian Journal of Geology, 75, 38-53.**

77. **Das, K, Bose, S., Ohnishi, I., & Dasgupta, S(2006).** Garnet-spinel intergrowth in ultrahigh-temperature granulite, Eastern Ghats, India: Possible evidence of an early Tschermak-rich orthopyroxene during prograde metamorphism.**American Mineralogist, 91, 375-384.**.

78. **Bose, S., Das, K., Dasgupta, S, Miura, H. & Fukuoka**, **M**. **(2006).**Exsolution textures in orthopyroxene in aluminous granulites as indicators of UHT metamorphism: new evidence from the Eastern Ghats belt, India. **Lithos, 92,506-523**

79. **Chakraborty, S., Dasgupta, S. & Neogi, S(2007)**. Nucleation kinetics controlled by chemical overstepping and its tectonic implication: An example from the Sikkim Himalaya. **European Journal of Mineralogy,.19, 791-803.**

80. **Sengupta,P., Dasgupta, S., Raith,M & Datta,N.R (2008).** Petrology across a calcareous rock-anorthosite interface from the Chilka Lake Complex, Orissa: Implications for Neo-Proterozoic crustal evolution of the northern Eastern Ghats Belt, India. **Precambrian Research, 162, 40-58**.

81. **Saha,L., Bhowmik,S.K., Fukuoka, M & Dasgupta, S.(2008)**Contrasting episodes of regional granulite facies metamorphism in enclaves and host gneisses from the Aravalli-Delhi Mobile Belt, NW India. **Journal of Petrology, 49, 107-128**.

82. **Dasgupta,S., Chakraborty, S., & Neogi, S (2009).** Petrology of an inverted Barrovian sequence of metapelites in Sikkim Himalaya: Constraints on the tectonics of inversion. **American Journal of Science, 309, 43-84..**

83. **Sengupta, P & Dasgupta, S (2009).** Modeling of metamorphic textures with c space: evidence of Pan-African high grade reworking in the Eastern Ghats belt, India*. In* **Physics & Chemistry of the Earth's Interior,29-40, Indian National Science Academy-Springer Verlag.**

84. **Bhowmik, S.K., Saha, L., Dasgupta, S & Fukuoka, M(2009)**. Metamorphic phase relations in orthopyroxene-bearing granitoids: Implication for high-pressure metamorphism and prograde melting in the continental crust. **Journal of Metamorphic Geology, 27, 695-715.**

85. **Bose,S, Das,K, Ohnishi,I., Torimoto,J., Karmakar,S, Shinoda, K & Dasgupta,S (2009).** Characterization of oxide assemblages of a suite of granulites from the Eastern Ghata Belt, India: implication to the evolution of C-O-H-F fluid during retrogression. **Lithos, 113, 483-497.**

86. **Goswami, S., Bhowmik, S.K. & Dasgupta, S (2009).** Petrology of a non-classical Barrovian inverted metamorphic sequence from the western Arunachal Himalaya, india. **Journal of Asian Earth Sciences, 36, 390-406.**

87. **Karmakar, S., Bose, S., Das, K. and Dasgupta, S. (2009)**. Proterozoic Eastern Ghats Belt, India – a witness of multiple orogenies and its lineage with ancient supercontinents. In: (Eds.) Talat Ahmad, Francis Hirsch, and Punya Charusiri, *Geological Anatomy of India and the Middle East*, **Journal of the Virtual Explorer**, Electronic Edition, ISSN 1441-8142, **volume 32, paper 3**.

88. **Bhowmik,S.K., Bernhardt,H-J. & Dasgupta,S (2010).** Grenvillian age high pressure upper amphibolite-granulite metamorphism in the Aravalii-Delhi mobile belt, northwestern India: New evidence from monazite chemical age and its implication. **Precambrian Research, 178, 168-184.**

89. Das,K., Bose,S., Karmakar,S.K., Dunkley,D.J. & Dasgupta, S (2011).Multiple tectonometamorphic imprints in the lower crust: first evidence of *ca*. 950 Ma (zircon U-Pb SHRIMP) compressional reworking of UHT aluminous granulites from the Eastern Ghats Belt, India. Geological Journal, 46, 217-239.DOI: 10.1002/gj.1246.

90. **Bose,S,. Dunkley,D.J., Dasgupta,S., Das,K. & Arima, M (2011).** India-Antarctica-Australia-Laurentia connection in the Paleo-Mesoproterozoic revisited: Evidence from new zircon U-Pb and monazite chemical age data from the Eastern Ghats Belt, India. **Bulletin Geological Society of America.,123, 2031-2049. doi: 10.1130/B30336.1**

91. **Jayananda,M., Banerjee, M., Pant,N.C., Dasgupta, S., Kano, T., Mahesha,N & Mahabaleswar,B (2012).** 2.62 Ga high-temperature metamorphism in the central part of the Eastern Dharwar Craton: implications for late Archaean tectonothermal history. **Geological Journal. DOI:10.1002/gj.1308, 47,213-236.**

92. **Bhowmik,S.K. & Dasgupta, S. (2012).** Tectonothermal Evolution of the Banded Gneissic Complex in Central Rajasthan, NW India: Present Status and Correlation. **Journal of Asian Earth Sciences (Elsevier),49, 339-348. doi: 10.1016/j.jseaes.2011.07.025.**

93. **Banerjee,S., Chattoraj,S.L., Saraswati,P.K., Dasgupta,S., Sarkar,U & Bumby,A. (2012).** The origin and maturation of lagoonal glauconites: a case study from the Oligocene Maniyara Fort Formation, western Kutch, India. **Geological Journal (Wiley Interscience).,47,357-371.**

94. **Banerjee,S., Chattoraj,S.L.,Saraswaty,P.K.,Dasgupta,S. & Sarkar,U. (2012).** Substrate control on origin and maturation of glauconites: Middle Eocene, Harudi Formation, Western Kutch, India. **Marine & Petroleum Geology (Elsevier), 30, 144-160.** doi:10.1016/j.marpetgeo.2011.10.008

95. **Faak,K., Chakraborty,S. & Dasgupta,S. (2012).** Petrology and tectonic significance of metabasite slivers in the Lesser and Higher Himalayan domains of Sikkim, India. **Journal of Metamorphic Geology.,30,599-622.**doi:10.1111/j.1525-1314.2012.00987.

96. **Dasgupta,S, Bose, S & Das, K (2013).** Tectonic evolution of the Eastern Ghats Belt, India. **Precambrian Research. 227, 247-258.**

97. **Rubatto, D., Chakraborty,S. & Dasgupta ,S (2013).** Timescales of crustal melting in the Higher Himalayan Crystallines (Sikkim, EasternHimalaya) inferred from trace element constrained monazite and zircon chronology.**Contributions to Mineralogy & Petrology,165,349-372.**DOI 10.1007/s00410-012-0812-y.

98. **Sorcar, N, Hoffe,U., Dasgupta,S & Chakraborty,S (2014)**. High temperature cooling histories of migmatites from the High Himalayan Crystallines in Sikkim,India – rapid cooling unrelated to exhumation. **Contributions to Mineralogy & Petrology ,167(2), 1-34.**doi:10.1007/s00410-013-0957-3

99. **Goswami-Banerjee,S., Bhowmik,S., Dasgupta, S. & Pant,N.C. (2014).** Burial of thermally perturbed Lesser Himalayan mid-crust:evidence from a detailed

petrochemistry and P-T estimation ofthe western Arunachal Himalaya, India. **Lithos (Elsevier), 208-209, 298-311.**

100. **Anczkiewicz, R., Chakraborty, S., Dasgupta, S., Mukhopadhyay, D.K., & Kołtonik, K.(2014)**Timing, duration and inversion of progradeBarrovian metamorphism constrained by highresolution Lu-Hf garnet dating: A case study fromthe Sikkim Himalaya, NE India.**Earth & Planetary Science Letters (Elsevier), 407, 70-81.http://dx.doi.org/10.1016/j.epsl.2014.09.035.**
101. **Gaides, F., Arianne,P-R., Chakraborty,S., Dasgupta, S & Jones,P. (2015)**Constraining the conditions of Barrovian metamorphism in Sikkim, India: P-T-t paths of garnet crystallization in the Lesser Himalaya. **Journal of Metamorphic Geology, 33, 23-44.**
102. **Chakraborty,S., Anczkiewicz,R., Gaidies,F., Rubatto,D., Sorcar,N., Faak, K., Mukhopadhyay,D. & Dasgupta, S (2016).** A review of thermal history and timescales of tectonometamorphic processes in Sikkim Himalaya (NE India) and implications for rates of metamorphic processes. **Journal of Metamorphic Geology, 34,785-803.**
103. **Dasgupta, S., Bose, S., Bhowmik, S.K. & Sengupta, P. (2017).** Eastern Ghats Belt, India in the context of supercontinent assembly. **Geological Society of London, Special Publications. 457, 87-104.**
104. **Mukhopadhyay,D.K., Chakraborty,S., Trepmann,C., Rubatto,D., Anczkiewicz,R., Gaidies,F., Dasgupta,S & Chowdhury,P (2017).** The nature and evolution of the Main Central Thrust: Structural and geochronological constraints from the Sikkim Himalya, NE India. **Lithos (Elsevier), 282-283, 447-463.** http://dx.doi.org/10.1016/j.lithos.2017.01.015
105. **Chakraborty, S., Mukhopadhyay, D.K., Chowdhury,P., Rubatto,D., Anczkiewicz,R., Trepmann,C., Gaidies, F., Sorcar,N. & Dasgupta, S (2017).** Channel Flow and localized fault bounded slice tectonics (LFBST): Insights from petrological, structural, geochronological and geospeedometric studies in the Sikkim Himalaya, NE India. **Lithos (Elsevier), 282-283, 464-482.** http://dx.doi.org/10.1016/j.lithos.2017.01.024
106. **Bhowmik,S.K., Dasgupta, S, Baruah, S & Kalita, D (2018)** Thermal History of a Late Mesoproterozoic Paired Metamorphic Belt (?): Constraint from Medium-Pressure granulites from the Aravalli-Delhi Mobile Belt, India. **Geoscience Frontiers (Elsevier)**http://dx.doi.org/10.1016/j.gsf.2017.07.002, **9, 225-354**
107. **Bose,S & Dasgupta, S (2018)** Eastern Ghats Belt, Grenvillian-age tectonics and the evolution of the Greater Indian Landmass- A critical perspective. Journal of the Indian Institute of Science (Springer). DOI 10.1007/s41745-018-0068-2, **98, 345-363.**
108. **Dasgupta, A., Bhowmik,S.K., Dasgupta, S, Avilla,J. & Ireland, T.R. (2019).** Mesoarchaean clockwise metamorphic P-T path from the Western Dharwar Craton. **Lithos (Elsevier) 342-343, 370-390.**
109. **Dasgupta, S (In Press).** Petrological evolution of the Eastern Ghats Belt-Current status and future directions. **Episodes**.

BOOK Editing:

1. Co-Editor of Geological Society of London Special Publication No. 119 (1997).ISBN 1-897799-74-8
2. Co-Editor of Geological Society of London Special Publication No. 206 (2003)ISBN 1-86239-125--4
3. Co-Editor of "Physics & Chemistry of the Earth's Interior", published by the Indian National Science Academy & Springer-Verlag (2009)ISBN: 978-1-4419-0344-0 (Print) 978-1-4419-0346-4 (Online)
4. Co-Editor of Geological Society of London Special Publication Number 457 on "Crustal Evolution in India and Antarctica: The supercontinent connection", published in 2017.

Editing Special Issues of Journals:

1. Co-Editor of a Special Issue of Gondwana Research in 2001.
2. Co-Editor of a Special issue of the Journal of Asian Earth Sciences (Elsevier) Vol.22, No. 2, 2003.
3. Co-Editor of a Special Issue of Precambrian Research (Elsevier) on Indian Precambrians, Vol. 162, Nos. 1-2, 2008.
4. Co-Editor of a Special Issue of Geological Journal (Wiley-Interscience) on Indian Precambrians, 2012

Development of Teaching Tool:

Developed a software "Exploring Thermodynamics using Excel Spreadsheet" (jointly with Sumit Chakraborty), for the program "Teaching Petrology" of the American Geophysical Union.
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