Publications:

- Graf W. and Sharma S. (1996): The larva of Himalopsyche tibetana (Insecta: Trichoptera, Rhyacophilidae) wth some ecological notes on the genus Himalopsyche Banks, 1940 from Nepal. *Proceedings of the Ecohydrology Conference on High Mountain Areas*, March 23-26, 1996, Kathmandu, Nepal, pp. 561-571.
- Jaech M. and Sharma S. (1996): Nepalese water beetles (Coleoptera) Dryopidae, Elmidae, Helophoridae, Hydraenidae, Heteroceridae, and Hydroscaphidaetera. Proceedings of the Ecohydrology Conference on High Mountain Areas, March 23-26, 1996, Kathmandu, Nepal, pp. 599-607.
- 3. Moog O. and **Sharma S.** (1996): Biological rapid field assessment of water quality in the Bagmati River and its tributaries, Kathmandu valley, Nepal. *Proceedings of the Ecohydrology Conference on High Mountain Areas*, March 23-26, 1996, Kathmandu, Nepal, **pp. 609-621**.
- **4.** Nesemann H. and **Sharma S.** (1996): Distribution and species composition of leeches (Annelida: Hirudinea) in the aquatic habitats of Nepal. **Proceedings of the Ecohydrology Conference on High Mountain Areas**, March 23-26, 1996, Kathmandu, Nepal, **pp. 623-630**.
- 5. Sharma S. and Moog O. (1996): The applicability of Biotic indices and scores in water quality assessment of Nepalese rivers. *Proceedings of the Ecohydrology Conference on High Mountain Areas*, March 23-26, 1996, Kathmandu, Nepal, pp. 641-657.
- **6. Sharma S.** and Ofenboeck T. (1996): New discoveries of *Epiophlebia laidlawi* Tillyard, 1921 in the Nepal Himalaya (Odonata, Anisozygoptera: Epiophlebiidae). *Opusc. zool. flumin.*, 150, **pp. 1-11**.
- 7. Nesemann H. and **Sharma S.** (1996): Contribution to the knowledge of the leeches of Nepal (Annelida: Hirudinea). *Acta Zoologica Academiae Scientiarum Hungaricae*, 42 (3), **pp. 231-249**.
- **8. Sharma S.** (1998): Water quality assessment of the Western rivers of Nepal-A biological approach. *Environment*, HMG, Ministry of Population and Environment, Kathmandu, Nepal, **pp.17-27a**.
- 9. Sharma S. (1998): Pollution level of Nepalese water resources. Published in the *Nepal-Nature's Paradise*, Majupurias, pp. 504-526.
- 10. Sharma S. (1999): Water quality assessment of the Saptakosi river and its tributaries in Nepal: A Biological approach. *Nepal Journal of Science and Technology* 1 (1999), RONAST pp. 103-114.
- 11. Sharma S. (1999): Nepalese Biotic score and its use in water quality assessment. *Water Resources Journal*, June 1999, United Nations, pp. 51-59.

- 12. Sharma S. and Khanal P. (2000): An Inventory of the Insects fauna of Kavrepalanchok District, Nepal, Part 1.1 Lepidoptera. Proceedings of the Third National Conference on Science and Technology, Kathmandu, Nepal (March 8-11, 1999), organized by Royal Nepal Academy of Science and Technology (RONAST), Vol. II, pp. 1480-1487.
- 13. Pfeiffer M., Sharma S. and Dahal B. M. (2000): Age and population structure of freshwater mussel in the lowland rivers of Nepal. Proceedings of the Third National Conference on Science and Technology, Kathmandu, Nepal (March 8-11, 1999), organized by Royal Nepal Academy of Science and Technology (RONAST), Vol. II, pp. 1371-1377.
- 14. Khanal S., Sharma S. and Nesemann H. (2000): Macrozoobenthic composition and water quality assessment of some streams of Jhapa district, Nepal. Proceedings of the Third National Conference on Science and Technology, Kathmandu, Nepal (March 8-11, 1999), organized by Royal Nepal Academy of Science and Technology (RONAST), Vol. I, pp. 47-56.
- 15. Nesemann H. and **Sharma S.** (2001): Leeches of the suborder Hirudiniformes (Hirudinea: Haemopidae, Hirudinidae, Haemadipsidae) from the Ganga watershed (Nepal, India: Bihar). *Ann. Naturhist. Mus. Wien*, 103 B, pp 1-12.
- 16. Nesemann H., Korniushin A., Khanal S. and Sharma S. (2001): Molluscs of the families Sphaeridae and Corbiculidae (Bivalvia: Veneriodea) of Nepal (Himlayan midmountains and terai) their anatomy and affinities. Acta Conchyliorum, ISSN 0721 1635 Nr. 4. pp. 1-33.
- 17. Sharma S. (2001): Present status and future needs of watershed management education, research and training in Nepal. *Proceeding of the Planning Workshop of Integrated Watershed Development and Management* (August 8-9, 2000), organized by the Asian Institute of Technology, Bangkok, Thailand, pp. 107-113.
- 18. Moog O. and Sharma S. (2001): Nepalese Biotic Score for water quality assessment. In *Environment and Agriculture* as Proceedings of the International Conference on Environment and Agriculture (Nov. 1-3, 1998), published by Ecological Society (ECOS), P.O. Box 6132, Kathmandu, Nepal, pp. 503-506.
- 19. Sharma S. (2002): Use of holistic method in surface water quality assessment in Nepal. Published in the *Proceedings of the seminar organised by the SOPHEN* (Society of Public Health Engineers Nepal) and the Institute of Engineers, Tribhuvan University, Nepal.
- 20. Sharma S., Bajracharya D.R., Dahal B.M., Merz J., Nakarmi G. and Shakya S. (2002): Integrated Water Quality Monitoring of Surface Waters A case study from the Middle Mountains of Nepal. *Proceedings of the International Seminar on Mountains*, (March 6-8, 2002), Organised by RONAST, Nepal, pp. 245-254.

- 21. Juettner I., Sharma S., Dahal B. M., Ormerod S. J., Chimonides P. J. and Cox E. J. (2003). Diatoms as bioindicators of stream quality in the Kathmandu Valley and Middle Hills of Nepal and India. *Freshwater Biology*; 48: pp. 2065-2084, United Kingdom.
- **22.** Merz J., G. Nakarmi, S. K. Shreshta, B. M. Dahal, P. M. Dongol, M. P. Dhakal, B. S. Dongol, **S. Sharma**, P. B. Shah, and R. Weingartner (2003): Water: A scare resource in rural watersheds of Nepal's Middle Mountains. *Mountain Research and Development* Vol 23 No. 1 Feb. 2003: 41-49.
- **23. Sharma S.** and Shakya P. (2003): Socio-cultural and microbiological facets of rainwater quality on ferro cement made storage jar system in the middle mountains of Nepal. **Proceedings of the National Conference on Ecological Sanitation**, Kathmandu, Nov. 3-4, 2003, DWSS/WHO, Nepal.
- **24.** Merz J, Nakarmi G., Shrestha S., Dongol B., **Sharma S.**, Schaffner M., and Weingartner R. (2004): Public water sources in rural watersheds of Nepal's Middle Mountains: Issues and constraints in Environmental Management. **Environ. Manage.**, 34(1): 26-37.
- **25. Sharma S.** and Aryal R. (2004): Managing water resources for sustainable livelihoods in the Galaundu-Pokhare Khola Subwatershed, Dhading district, Nepal. *Annual journal of SOPHEN (Society of public health Engineers)*, Nepal, March 2004, Vol. 1, No. 1, pp. 39-44.
- **26.** Bajracharya R. M., **Sharma S**. and Clemente R. (2004): Discharge and sediment loads of two streams in the mid hills of central Nepal. **Himalayan Journal of Sciences**, Vol.2, Issue 3, pp. 51-58, ICIMOD, Lalitpur.
- 27. Loewen M. and Sharma S., Tomy G., Wania F.W. F. (2004): Long range transport of contamination in the Himalaya. Proceedings, International Conference on the Great Himalayas: Climate, Health, Ecology, Management and Conservation (Jan. 12-15, 2004) KU/AEHMS/HIRI. Publ. Kathmandu University, pp. 11-14.
- 28. Bajracharya R.M., Sharma S., Pokharel P., and Gautam S. (2004): Hydrologic regime for two catchments in the Central Himalaya. Proceedings, International Conference on the Great Himalayas: Climate, Health, Ecology, Management and Conservation (Jan. 12-15, 2004). KU/AEHMS/HIRI. Publ. Kathmandu University, pp. 1-5.
- 29. Brandis D. and Sharma S. (2004): Biodiversity and biogeography of Himalayan freshwater crabs. Proceedings, International Conference on the Great Himalayas: Climate, Health, Ecology, Management and Conservation (Jan. 12-15, 2004). KU/AEHMS/HIRI. Publ. Kathmandu University, pp. 55-65

- 30. Atreya K., Sharma S., Bajracharya R. M. and Rajbhandari N. P. (2004): Conserving soil in agro-ecosystems of Nepalese Central Himalayas. Proceedings, International Conference on the Great Himalayas: Climate, Health, Ecology, Management and Conservation (Jan. 12-15, 2004). KU/AEHMS/HIRI. Publ. Kathmandu University, pp. 137-142.
- 31. Sharma S., Sharma A. and Sharma N. (2004): Surface and Subsurface water quality assessment in the Lowlands of Nepal. Proceedings, International Conference on the Great Himalayas: Climate, Health, Ecology, Management and Conservation (Jan. 12-15, 2004). KU/AEHMS/HIRI. Publ. Kathmandu University, pp. 37-42.
- **32.** Sharma C. M., **Sharma S**., Jha B.R., Bryceson I. and Borgstron R. (2004): Use of benthic macro-invertebrates in impact assessment of dam of the river Tinau, Nepal. **Proceedings, International Conference on the Great Himalayas: Climate, Health, Ecology, Management and Conservation** (Jan. 12-15, 2004). KU/AEHMS/HIRI. Publ. Kathmandu University, pp. 101-111.
- **33. Sharma S.** and Shakya P. (2004): An Integrated drinking water quality assessment of rainwater harvesting jars and the related socio-economic conditions and gender issues of Chappani VDC 1, Palpa district. **Proceedings, International Conference on the Great Himalayas: Climate, Health, Ecology, Management and Conservation** (Jan. 12-15, 2004). KU/AEHMS/HIRI. Publ. Kathmandu University, pp. 33-36.
- 34. Sharma S. and Moog O. (2005): A reference based "Nepalese Biotic Score" and its application in the Midland Hills and Lowland Plains for river water quality assessment and management. Proceedings of the Plants Response to Environmental Stress. Ch.41, pp356-362, IBDC Book, Army Printing Press, Lucknow, India.
- 35. Sharma S., Juttner I. and Dahal B. M. (2005): Water Quality Assessment in the river Bagmati, Kathmandu Valley, Nepal- An Integrated Approach. Proceedings of the Plants Response to Environmental Stress, Ch 50, IBDC Book, Army Printing Press, Lucknow, India.
- **36. Sharma S.** and Gurung B. (2005): Indigenous Water Quality Management Practices in Dhading District, Nepal. Environment **A journal of Environment** 9 (10): 61-67. Ministry of Environment, Science and Technology, HMG/Nepal.
- **37. Sharma S.** (2005): Ecological assessment of surface water in Nepal. **Proceedings of Seminar on Water Science "water for life" a "decade for action"** 19th March 2005, Khwopa College, Bhaktapur, Nepal, pp12-18.
- **38.** Jha, B. R., H. Waidbacher, **S. Sharma** and M. Straif (2005): Length-weight relationship of sucker head, Garra Gotyla Gotyla (Gray, 1830) in different rivers of Nepal and the influence of monsoon. *Int. J. Environ. Sci. Tech.*, Vol. 2, no. 2, pp. 147-153.
- **39.** Sharma C. M., **Sharma S.**, Borgstrom R., and Bryceson I. (2005): Impacts of a small dam on macroinvertebrates: A case study in the Tinau River, Nepal. **Aquatic Ecosystem Health and Management**, 8 (3):267-275.

- **40. Sharma S.**, Bajracharya R. M., Sitaula B. K. and Merz J. (2005): Water quality in the Central Himalaya- A Review. *Current Science*, vol.89, No. 5, pp. 774-786.
- **41.** Nesemann H. and **Sharma S.** (2005): Checklist of the Aquatic Molluscs (Gastropoda, Bivalvia) from Nepal. *Pol. Res.*, 24 (4): 839-842.
- **42.** Smith C. and **Sharma S**. (2005): Extent of endemism of Nepal's Lepidoptera a review. *Eco.Env. & Cons.*, 11 (3-4): pp. (577-583).
- **43.** Nesemann H., and **Sharma S.** (2005): Illustrated Checklist of Pea Clams (Mollusca: Bivalvia: Sphaeriidae) from Nepal. *Himalayan Journal of Sciences*, Vol 3 Issue 5 pp 57-65.
- **44.** Pfeiffer M. & **Sharma S**. (2005): Identification of the larvae of three Freshwater mussels from the oriental region (Nepal) (Bivalvia, Unionoidea, Ambleminae); **Schriften zur Malakozoologie aus dem Haus der Natur**, Heft 22. Cismar; Germany; S.65-70
- **45.** Brandis D. and **Sharma** S. (2005): Taxonomic revision of the freshwater crab fauna of Nepal with description of a new species (Crustacea, Decapoda, Brachyura, Potamoidea and Gecarcinucoidea). **Senckenbergiana biologica**, 85, 1-30.
- **46.** Nesemann H., **Sharma** S, Sharma G., Sinha R.K, (2005): Illustrated Checklist of large Freshwater Bivalves of the Ganga River System (Mollusca: Bivalvia: Solecurtidae, Unionidae, Amblemidae). *Nachrichtenblatt der Ersten Voralberger Malakologischen Gesellschaft*, 13, 1-51.
- **47.** Bajracharya R.M., & **Sharma S.** (2005): Influence of drip-irrigation method on performance and yields of cucumber and tomato. **Kathmandu University Journal of Science, Engineering and Technology**, Vol 1, No. 1.
- **48. Sharma S.**, Allen M., Courage A., Hall H., Koirala S., Oliver S., & Zimmerman B. (2005): **Kathmandu University Journal of Science, Engineering and Technology**, Vol 1, No. 1.
- **49.** Jha B.R., Waidbacher H., **Sharma S.**, Straif M. (2005): Study on the length frequency distribution of sucker head, **Garra gotyla gotyla** (Gray, 1830) in different rivers and seasons in Nepal and its applications. **Kathmandu University Journal of Science, Engineering and Technology**, Vol 1, No. 1.
- **50.** Atreya K., **Sharma S.** & Bajracharya R.M. (2005): Minimization of soil and nutrient in maize-based cropping systems in the mid-hills of central Nepal. **Kathmandu University Journal of Science, Engineering and Technology**, Vol 1, No. 1.
- **51.** Atreya K., **Sharma S.,** Bajracharya R. M., and Rajbhandari N. P. (2006). Applications of reduced tillage in hills of central Nepal. **Soil & Tillage Research** 88, 16-29.
- **52.** Jha B.R., Waidbacher H., & **Sharma S.**, & Straif M. (2006): Fish species composition, number and abundance in different rivers and seasons in Nepal an reevaluation of their threat category for effective conservation and management. **Ecol.Env. & Cons.**, 12(1): 25-36.

- 53. Atreya K., Sharma S., Bajracharya R. M. and Rajbhandari N. P. (2006): Reduced tillage: An option for conserving soil and nutrients in the hills of Central Nepal. Proceedings of the Fourth National Conference on Science & Technology (March 23-26, 2004), organised by Royal Nepal Academy of Science and Technology (RONAST), Kathmandu, Nepal. In Press.
- **54. Sharma S.** and Koirala S. (2006): Assessing water quality indicating ecosystem health of the Babai River in Royal Bardia National park, Nepal. **Proceedings of the Fourth National Conference on Science & Technology** (March 23-26, 2004), organised by Royal Nepal Academy of Science and Technology (RONAST), Kathmandu, Nepal. **In Press.**
- **55. Sharma S.** & Moog O. (2006): Traditional Knowledge Systems (TKS) of water resource management in the Hindu Kush Himalaya A Review. **Proceedings of the 7th Asia Pacific NGO's Environmental Conference** (Nov 4-6, 2005).
- **56.** Loewen M. D, **Sharma S.**, Fuchs C., Wang F., Wania F., Muir DCG., & Tomy G. (2006). Seasonal Trends of Atmospheric Chlorinated Pesticides in the Central Himalaya. Proceedings International Seminar on Environmental and Social Impacts of Intensified Agriculture in Himalayan Watersheds, October 15-17, Kathmandu, Nepal. KU/UMB/Bioforsk., Publ. KU and MoEST: P. 115-119.
- **57. Sharma S.,** Nesemann H., Dahal B.M., Bajracharya R. M., Sitaula B.K., D. N. Shah, and R. D. Tachamo (2006). Bioindicators of stream quality in two mid hill watersheds of central Nepal. Proceedings International Seminar on Environmental and Social Impacts of Intensified Agriculture in Himalayan Watersheds, October 15-17, Kathmandu, Nepal. KU/UMB/Bioforsk., Publ. KU and MoEST: P. 96-104
- **58.** Dahal, B. M., B. K. Sitaula, R.M. Bajracharya, **S. Sharma**, and K. Atreya (2006). Socio-economic conditions in relation to agricultural intensification in Ansikhola watershed of central Nepal. Proceedings International Seminar on Environmental and Social Impacts of Intensified Agriculture in Himalayan Watersheds, October 15-17, Kathmandu, Nepal. KU/UMB/Bioforsk., Publ. KU and MoEST: P. 74-85
- **59. Sharma, S.**, Tachamo, R. D., Shah, D.N. & Nesemann, H. (2006). Assessing the saprobic water quality of Punyamata Khola, Banepa Valley by benthic Macroinvertebrates. Proceedings of the International Conference on "The Majestic River Ganaga: Health, Integrity, and Management", Patna University, Patna, India. November 13th 15th, 2006.
- **60. Sharma, S.**, Shah, D.N., Tachamo, R. D. & Nesemann, H. (2006). Freshwater benthic macroinvertebrate diversity and impact assessment of sugar mill in Lower Gangetic Plains moist deciduous forests of Nepal. Proceedings of the International Conference on "The Majestic River Ganaga: Health, Integrity, and Management", Patna University, Patna, India. November 13th 15th, 2006
- **61.** Nesemann, H., **Sharma, S.**, Sharma, G., Sinha, R.K (2006). Illustrated checklist of large freshwater bivalves of the Ganga river system (Mollusca: Bivalvia: Solecurtidae, Unionidae, Amblemidae). Proceedings of the International Conference on "The Majestic River Ganaga: Health, Integrity, and Management", Patna University, Patna, India. November 13th 15th, 2006

- **62.** Sinha, R. K., Nesemann, H., Sharma, G., Prasad K., Kedia D.K., and **Sharma, S.** (2007): Marine and brackish elements among the benthic macroinvertebrates of the river Ganga in India and Nepal. **Proceedings of the International Conference on "The Majestic River Ganga: Health, Integrity, and Management**", Patna University, Patna, India. November 13th 15th, 2006.
- **63.** Bajracharya R.M., **Sharma S.,** Dahal B.M., Sitaula B.K., K. Rokaya and A. Jeng (2006). Assessment of soil quality using physico-chemical and biological indicators in a midhill watershed of Nepal. Proceedings International Seminar on Environmental and Social Impacts of Intensified Agriculture in Himalayan Watersheds, October 15-17, Kathmandu, Nepal. KU/UMB/Bioforsk., Publ. KU and MoEST: P. 105-114
- **64.** Dahal, B.M., Sitaula, B.K., **Sharma, S.,** Bajracharya, R.M. (2007): Effects of agricultural intensification on the quality of rivers in rural watersheds of Nepal. **Journal of Food, Agricultural & Environment** (JFAE), 5 (1).
- 65. Sharma S., Tachamo R. D., Shah D.N., & Nesemann, H. 2007. Assessing the Organic Pollution (Saprobic Water Quality) of Punyamata Khola, Banepa Valley, Nepal, based On Benthic Macroinvertebrate Bio-Indication. Proceedings of the International Conference on Health of Large Rivers: The Majestic River Ganga Past, Present and Future (March 10-12, 2006). Organised by Patna University, Patna, India in collaboration with Aquatic ecosystem Health and management Society, Canada.
- 66. Sharma, S., Shah, D.N., Tachamo, R. D. & Nesemann, H. 2007 Freshwater Benthic Macroinvertebrate Diversity And Impact Assessment Of Sugar Mill In Lower Gangetic Plains Moist Deciduous Forests Of Nepal. Proceedings of the International Conference on Health of Large Rivers: The Majestic River Ganga Past, Present and Future (March 10-12, 2006). Organised by Patna University, Patna, India in collaboration with Aquatic ecosystem Health and management Society, Canada.
- 67. Sinha, R. K., Nesemann, H., Sharma, G., Prasad, K., Kedia, D. K. & S. Sharma. 2007. Marine and Brackish Elements Among The Benthic Macro-Invertebrates Of The River Ganga In India And Nepal. Proceedings of the International Conference on Health of Large Rivers: The Majestic River Ganga Past, Present and Future (March 10-12, 2006). Organised by Patna University, Patna, India in collaboration with Aquatic ecosystem Health and management Society, Canada.
- **68.** Atreya, K., Sharma, S., Bajracharya, R. M. and Rajbhandari, N. P. 2007. Developing a sustainable agro-system for central Nepal using reduced tillage and straw mulching. **Journal of Environmental Management** (2007), doi:10.1016/j.jenvman. 2007.03.017.
- **69.** Jha, B.R., Waidbacher, H, **Sharma, S.**, Straif, M. 2007. Fish base study of the impacts of dams in different rivers of Nepal and its seasonal variations. **Ultra Science** 19(1), 27-44.
- **70. Sharma, S.**, Bajracharya, R. M., and Moog, O. 2007. Local level community awareness on the use of biomonitoring tools for stream quality monitoring in Nepal, paper to be presented at the International Symposium on Kathmandu Participatory River Monitoring A Model for South Asia August 26-27, Kathmandu, Nepal. In Prep.

- **71.S. Sharma**, Sarita Banjade and Renuka Bhandari. 2007. Impact of Khimti I Hydropower Project on the Ecological Status of River and on the Fishermen's Livelihood. Paper to be presented at the International Conf on Small Hydropower in Kandy, Sri Lanka 22-24 Oct 2007. In Prep.
- **72. Sharma, S.** and Bajracharya, R. M. (edited) 2007. A Preliminary Review on Indigenous Technology Knowledge (ITK) in Nepal. Submitted to Indian Journal of Traditional Knowledge. In prep.
- **73.** Moog O, and **Sharma, S.** 2007. Biotechnology in River Quality Assessment, Proceedings of the Biotechnology seminar (March 14-15), organised by Nepal Academy of Science and Technology, Lalitpur. In prep.
- **74. Sharma S.,** Moog O., Nesemann H., Pradhan B., Scholz C. (2007). Application of Nepalese Biotic Score and its extension for river water quality management in Central Himalaya, Nepal. **In Prep.**
- **75. Sharma S.**, Nesemann H., Moog O. (2007). Modification of Nepalese Biotic Score and its extension as Ganga River System Score. **In Prep.**

Unpublished theses/dissertations/reports:

- 2002: Water Quality Assessment of the Rainwater Harvesting Jars in Gulmi district, Thanapati VDC, Ward No. 7. Project Report submitted to Rural Water Supply and Sanitation Support Programme (RWSSSP). Government of Nepal and the Government of Finland undertaking.
- 2. 2002: Galaundu-Pokhare khola Subwatershed, Dhading district, Nepal- Freshwater Resources and Quality. Project report submitted to the School of Environment Resources and Development (SERD) Asian Institute of Technology. Thailand.
- 3. 2001: Capacity Building in the Community Water Quality Assessment in the Jhikhu Khola Watershed. Submitted to the Australian Aid to Nepal (AusAID), Kathmandu.
- 4. 2001: Status of surface water quality monitoring in Nepal. Submitted to ICIMOD/FRIEND Project.
- 5. 1997: An Inventory of aquatic insects used as biological indicators or water pollution in Nepal. Submited to the UGC, Nepal.
- 6. 1996: Biological assessment of water quality in the rivers of Nepal. A Ph. D. Dissertation at the University of Agricultural Sciences, Vienna, Austria.
- 7. 1988: Studies on the effect of some Physico-chemical parameters on the distribution and abundance of zoobenthos in the river Bagmati, Kathmandu, Nepal. A M. Sc. Thesis at the Tribhuvan University, Nepal.
- 8. 1988: Wildlife resources of the Durbar-Devisthan village. A village profile submitted to the National Development Service, Tribhuvan University.

Updated October 30, 2007