

Curriculum Vitae



DR. TARIQ MAHMOOD

Associate Professor (Tenured),

Department of Wildlife Management,

Faculty of Forestry, Range Management and Wild life,

PMAS Arid Agriculture University, Rawalpindi. Pakistan.

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Research Specialization/Interests:

Wildlife Ecology, Biodiversity, Animal Physiology, Toxicology, and GIS

AMBITION

Committed to work in a competitive environment and make solid contribution to the organization as an individual as well as a team member.

PERSONAL DETAILS

NAME	:	Tariq Mahmood
FATHER'S NAME	:	Muhammad Sawar
DATE OF BIRTH	:	March 14, 1970
PLACE OF BIRTH	:	Gulyana, Tehsil Gujar Khan, RWP.
NATIONALITY	:	Pakistani
N.I.C.NO.	:	37401-1461936-1
DOMICILE	:	Punjab (RWP)
<u>CURRENT POSTAL ADDRESS</u>	:	Dr. Tariq Mahmood, Assistant Professor, Department of Wildlife Management, PMAS Arid Agriculture University, Murree Road, Rawalpindi 46300, PAKISTAN.
<u>HOME ADDRESS</u>	:	House No. 958-A, Street No. 34, Phase 4-A, Ghouri Town Islamabad, Pakistan.

ACADEMIC QUALIFICATIONS

Post-Doc. A six months Post-Doctoral training from University of Nottingham, Malaysia Campus, Malaysia. The title of Research, “Application of GIS in Wildlife Studies”.

Ph.D. Completed in March 2009, in the field of Animal Sciences from the Animal Sciences Department, Quaid-i-Azam University Islamabad, produced a research thesis titled, “*Effect of chromium concentration on Hypothalamic-Pituitary-Thyroid axis and Iodine metabolism in rat*”.

M.Phil. In the field of Animal Sciences completed in February 2002 in Grade “A” by securing 80% marks, from the Animal Sciences Department, Quaid-i-Azam University Islamabad, produced a research thesis titled, “*Profile of reproductive hormones during the year in the male and female birds (Houbara bustard)*”.

M.Sc. In the field of Zoology completed in the year 1994 in 1st Division by securing 65.5% marks, from the Department of Zoology, University of the Punjab, New Campus Lahore. During my M.Sc. Degree, produced a research thesis titled, “*Adaptation in metabolites following high dose glucagon in dwarf goat*”.

B.Sc. Passed in 1991 from Govt. Gordon College Rawalpindi (P.U. Lahore) in High 2nd Division by securing 58.9% marks in the subjects combination of Zoology, Botany and Chemistry.

F.Sc. Passed in 1988 from the Board of Intermediate and Secondary Education Rawalpindi (BISE) in 1st Division by securing 64.36% marks.

S.S.C. Passed in the year 1985 from BISE Rawalpindi in 1st Division by securing 61.9% marks.

PROFESSIONAL / RESEARCH EXPERIENCE

- One year research experience in the field of Animal Physiology (Endocrinology) in the Department of Zoology, Punjab University Lahore during 1993 – 1994.
- One year “Junior research Assistant” in the Department of Biological Sciences, QAU Islamabad during 2000 – 2002.
- As a “Senior Research Scholar” in the Department of Biological Sciences, QAU Islamabad from Feb. 2003 to September 2008.

TEACHING EXPERIENCE

- At present, serving as **Associate Professor (Tenured)**, in the Department of Wild life Management, PMAS Arid Agriculture University, Murree Road Rawalpindi since 28th July 2019.
- Served as “**Assistant Professor**” of Wildlife Management from 28-05-2007 to 28-07-2019 (12 Years).
- Served as “Lecturer in Zoology” in the Punjab Higher Education Department, Govt. of the Punjab, from 25-10-1995 to 28-05-2007 (11 and Half Years).

RESEARCH TECHNIQUES LEARNED

Have expertise in the following Techniques:

- Estimation of hormones by Radioimmunoassay (RIA)
- Histology of the animal tissues for light microscopy.
- Electron Microscopy (EM).
- Atomic Absorption Spectrophotometry.
- Gel Electrophoresis.
- Food habits investigations
- Geographic Information System (QGIS)

RESEARCH TITLES

Post Doc. “Application of GIS in Wildlife Studies”.

Ph.D. “*Effect of chromium administration on Hypothalamic-Pituitary-Thyroid axis and iodine metabolism in rat*”.

M.Phil. “*Profile of reproductive hormones during the year in the male and female birds (Houbara bustard)*”.

M.Sc. “*Adaptations in metabolites following high dose glucagon in dwarf goat*”.

COURSES STUDIED

Introduction to GIS, Introduction to Remote Sensing, Animal Physiology, Cell and Molecular Biology, General Genetics, Developmental Biology, General Biochemistry, Biometry, Environmental Biology and Wild life, **Evolution** and Taxonomy, Paleontology and Zoogeography, General Microbiology and Immunology, Physiology of Reproduction, Molecular Biology, and Advances in Biology of Reproduction.

RESEARCH PROJECTS/ GRANTS EARNED

- A Research Project titled,
 “Ecologically based rodents management in crop lands of Pothwar Plateau”.
 Status: Ongoing since January 2017
 Duration: 3 years
 Donor: Higher Education Commission (HEC) Islamabad.
 Budget: . Rs. 7.596 million /-.
- A University funded Research Project titled:
 “Population and food habits of small Indian Mongoose in the Potohar Region”
 Status: completed successfully in June 2009.
 Donor: PMAS Arid Agriculture University, Rawalpindi.
 Budget amount: Rs. 94000/-
- University funded Research Project titled,
 Distribution and population of Indian pangolin (*Manis crassicaudata*) in Chakwal and Rawalpindi Districts of Potohar Region”.
 Status: Completed successfully in March 2011
 Donor: PMAS Arid Agriculture University, Rawalpindi.
 Budget approved: Rs. 1, 32312/-
- A Research Project titled,
 “Ecology of Indian pangolin (*Manis crassicaudata*) in Potohar Region”.
 Status: Completely successfully in March, 2014
 Donor: Higher Education Commission (HEC) Islamabad.
 Budget: Rs. 2.158 million/-.
- A university funded research Project titled,
 “Captive breeding and rearing wild and fancy birds”
 Status: On-going / Under progress
 Donor: PMAS-Arid Agriculture University Rawalpindi.
 Budget: Rs. 296,000/-

TEACHING COURSES TO Ph.D., M.Phil. AND M.Sc. CLASSES

Course No.	Course Title	Class
WL-702	Wildlife Population Ecology	M.Sc./Ph.D.
WL-703	Principles of Wildlife Management	M.Phil
WL-713	Wildlife Food and Foraging	M.Phil.
WL-709	Society, Values and Economics of Wildlife	M.Sc.
WL-732	Wildlife Data Analysis	Ph.D./M.Phil.
WL-711	Research Planning and Report Writing	M.Sc.

COMPUTER SKILLS

- MS – windows, MS-Office (MS Word, MS Excel, MS Power Point)
- Adobe Acrobat, Adobes Photoshop.
- Basic IT courses.
- Ample knowledge of Internet usage, scientific literature searching and online submission.
- Digital Library.
- Quantum Geographical Information System (QGIS).

RESEACH PUBLICATIONS (N= 91; Total Impact Factor = 55.64)

PAPERS PUBLISHED IN INTERNATIONAL REFEREED JOURNALS

Year 2020

1. Hira Fatima, **Tariq Mahmood**, Sakhawat Ali, Faraz Akrim, Muhammad Farooq and Shaista Andleeb. 2020. Sympatric mongoose species may opt for spatial adjustments to avoid feeding competition at Margalla Hills National Park Islamabad, Pakistan. **Wildlife Biology (Accepted)**. Manuscript # WLB-00654R1. **(IF: 2.081)**

2. **Tariq Mahmood**, Luqman Ullah Khan and Muhammad Naeem. 2020. Diversity and abundance of Avifauna of Manglot Wildlife Park, Nowshera District, Khyber Pakhtunkhwa, Pakistan. **Pakistan Journal of Zoology (Accepted)**. Manuscript ID MH20191101061139-R1. (IF: 0.790)
3. **Mahmood, T.**, Challender, D., Khatiwada, A., Andleeb, S., Perera, P., Trageser, S., Ghose, A. & Mohapatra, R. 2019. *Manis crassicaudata* . **The IUCN Red List of Threatened . Pakistan Journal of Zoology (accepted)**. **Species 2019**: e.T12761A123583998. <https://dx.doi.org/10.2305/IUCN.UK.2019-3.RLTS.T12761A123583998.en>. Downloaded on 11 February 2020.
4. Muhammad Waseem, Tariq Mahmood*, Abid Hussain, Abdul Hamid, Faraz Akrim, Shaista Andleeb and Hira Fatima. 2020. Ecology and Human Conflicts of Asiatic Black Bear (*Ursus thibetanus laniger*) in Mansehra District, Pakistan. **Pakistan Journal of Zoology (in Press)**. DOI: <http://dx.doi.org/10.17582/journal.pjz/2020.52> (IF: 0.790)
5. **Mahmood, T.**, Mohapatra, R. K., Perera, P., Irshad, N., Akrim, F., Andleeb, S., Waseem, M., Sharma, S., and Panda, S. 2019. **Indian pangolin *Manis crassicaudata* (Geoffroy, 1803)**. In: Challender, DWS, Nash, H, Waterman, C & Nyhus, PJ (Editors). **Pangolins: Science, Society and Conservation**. Academic Press (Elsevier), pp. 71-87.
6. **Nadeem Munawar, Tariq Mahmood**, Paula Rivadeneira, Ali Akhtar and Saqib Mahmood. 2020. Non-Crop Vegetation as Habitat for Rodents in the Agricultural Landscape of Pothwar Plateau, Pakistan. **Pakistan Journal of Zoology**. Pp 1-7. DOI: <https://dx.doi.org/10.17582/journal.pjz/20190206230250> (IF: 0.790)
7. Muhammad Raza Khan, **Tariq Mahmood***, Hira Fatima, Faraz Akrim, Shaista Andleeb and Abdul Hamid. 2020. Distribution, Diet Menu and Human Conflict of Grey Wolf *Canis lupus* in Mahoodand Valley, Swat District, Pakistan. **Pakistan J. Zoology**. 52 (1): 171-191. (IF: 0.790)
8. Muhammad Waseem, Ahmed Raza, Hamera Aisha, Muhammad Naeem Awan, Tariq Ahmad, Rabia Nazir and **Tariq Mahmood**. 2020. Scale of illegal killing and trade associated with Indian pangolin (*Manis crassicaudata*) in Pakistan. **Pakistan Journal of Zoology**. 52(1): 69-77. (IF: 0.790)

Year 2019

9. **Tariq Mahmood**, Ayesha Younas, Faraz Akrim, Shaista Andleeb, Abdul Hamid, & Muhammad Sajid Nadeem. 2019. Range contraction of Snow Leopard (*Panthera uncia*). **PLoS One** 14(8): e0218460. <https://doi.org/10.1371/journal.pone.0218460>. (IF: 2.776)
10. Faraz Akrim, **Tariq Mahmood**, Muhammad Sajid Nadeem, Siddiq Qasim, Shaista Andleeb and Hira Fatima. 2019. Distribution, Dietary Breadth and Niche Overlap between Two Sympatric Mongoose Species Inhabiting Pir Lasura National Park, Azad Jammu and Kashmir, Pakistan. **Pakistan J. Zool.** 51(4): 1497-1507. (IF: 0.790)
11. Rukhsana Khatoon, **Tariq Mahmood**, Maqsood Anwar, Ume Habiba, Lori S. Eggert & Matthew E. Gompper. 2019. A field and laboratory-based assessment of the distribution of large and meso-carnivore species in the newly established Murree, Kotli Sattian, and Kahuta National Park, Pakistan. **Mammal Research**. DOI: <https://doi.org/10.1007/s13364-019-00428-3>. (IF: 1.299)
12. Imad-ul-Din Zangi, **Tariq Mahmood**, Faraz Akrim and Muhammad Sajid Nadeem. 2019. Spatial distribution and population estimates of three Vulture species in and around Pir Lasura National Park, northeastern Himalayan Region, Pakistan. **Journal of Raptor Research**, 53 (2): 1-8. (IF: 0.699)
13. Shagufta Nighat¹, Muhammad Sajid Nadeem, Syed Israr Shah¹, R. Z. Bhatti¹, N. Akhter¹, **Tariq Mahmood**, Ayesha Aihetasham², Muhammad Asif and A. Javid. 2019. Estimation of heavy metals (Cd, Cu, Pb, Zn) from six species of vesper bats. **The Journal of Animal and Plant Sciences**, 29(2): 619-624. (IF: 0.407)
14. Abdul Hamid, **Tariq Mahmood***, Hira Fatima, Lauren Mae Hennelly, Faraz Akrim, Abid Hussain and Muhammad Waseem. 2019. Origin, ecology and human conflict of gray wolf (*Canis lupus*) in Suleman Range, South Waziristan, Pakistan. **Mammalia**. DOI: <https://doi.org/10.1515/mammalia-2018-0167>. (IF: 0.714)
15. **Tariq Mahmood**, Faraz Akrim, Nausheen Irshad, Riaz Hussain, Hira Fatima Shaista Andleeb and *Ayesha Aihetasham. 2019. Distribution and illegal killing of Endangered Indian pangolin (*Manis crassicaudata*) in Potohar Plateau, Pakistan. **Oryx**. 53(1): 159-164. (IF: 2.333)

16. Faraz Akrim, **Tariq Mahmood**, Shaista Andleeb, Riaz Hussain and Wendy Jane Collinson. **2019**. Spatio-Temporal Patterns of Wildlife Road mortality in Pothwar Plateau, Pakistan. **Mammalia (aop)**: DOI: <https://doi.org/10.1515/mammalia-2017-0101>. (IF: 0.714)
17. **Tariq Mahmood**, Ijaz Ahmad, Faraz Akrim, Abdul Hamid, Muhammad Waseem, Abid Hussain and Muhammad Sajid Nadeem. **2019**. Breeding ecology of Chukor Partridge (*Alectoris chukar*) in Lower Dir District, Khyber Pakhtunkhwa, Pakistan. **Pakistan Journal of Zoology**. 51(1): 265-271. (IF: 0.547)
18. Shaista Andleeb, **Tariq Mahmood** and Azeem Khalid. **2019**. Environmental chromium from tannery industry induces altered reproductive endpoints in wild female small Indian mongoose (*Urva auropunctatus*). **Toxicology and Industrial Health**. DOI: 10.1177/0748233718814975 (IF: 1.255)
19. Faraz Akrim, **Tariq Mahmood**, Muhammad Sajid Nadeem*, Tashi Dhendup**, Hira Fatima, and Shaista Andleeb. **2019**. Diet composition and niche overlap of two sympatric carnivores; Asiatic jackal (*Canis aureus*) and Kashmir hill fox (*Vulpes vulpes griffithii*), inhabiting Pir Lasura National Park, north-eastern Himalayan Region, Pakistan. **Wildlife Biology**. 2019 (1): DOI: <https://doi.org/10.2981/wlb.00440>. (IF: 2.081)
20. Abid Hussain, **Tariq Mahmood**, Faraz Akrim, Shaista Andleeb, Hira Fatima, Abdul Hamid and Muhammad Waseem. **2019**. Depleting wild prey compels common leopard (*Panthera pardus*) to sustain on livestock. **Animal Biology**. 69: 213-230. DOI 10.1163/15707563-17000161. (IF: 1.2)

Year 2018

21. Nausheen Irshad, Imran Yousaf, **Tariq Mahmood** and Muhammad Saeed Awan. **2018**. Occurrence of Common Leopard (*Panthera pardus*) in Abbaspur Area, District Poonch, Azad Jammu and Kashmir. Pakistan J. Zool., 50(4): 1-4. 50(4): DOI: <http://dx.doi.org/10.17582/journal.pjz/2018.50.4.sc13> (IF: 0.547)
22. Muhammad Jawad Jilani, Muhammad Rais, Muhammad Arslan Asadi, and Tariq Mahmood. **2018**. Comparison of morphometric and gravimetric measurements of Common Skittering Frog (*Euphlyctis cyanophlyctis*) from paddy fields and urban wetlands. Journal of King Saud University – Science. <https://doi.org/10.1016/j.jksus.2018.05.014>.
23. Shahnaz Bibi, Muhammad Sajid Nadeem*, Muhammad Bilal Anwar, Syed Israr Shah, Amjad Rashid Kayani, Muhammad Mushtaq, Mirza Azhar Beg and **Tariq Mahmood**. **2018**. First record of Mus cookii (Cook's mouse) from Pothwar, Pakistan: a probable case of range extension? **Mammalia**. <https://doi.org/10.1515/mammalia-2017-0130> (IF: 0.714)
24. Faraz AKRIM, **Tariq MAHMOOD**, Muhammad Sajid NADEEM*, Shaista ANDLEEB and Siddiqua QASIM. **2018**. Spatial distribution and dietary niche breadth of the leopard *Panthera pardus* (Carnivora: Felidae) in North-Eastern Himalayan region of Pakistan. **Turkish Journal of Zoology**. 42: 585-595. (IF: 0.558)
25. Faraz Akrim, **Tariq Mahmood**, Tamara Max, Muhammad Sajid Nadeem, Siddiqua Qasim and Shaista Andleeb. **2018**. Assessment of Bias in morphological identification of carnivore scats confirmed with molecular scatology in north-eastern Himalayan region of Pakistan. **Peer J**. DOI 10.7717/peerj.5262 (IF: 2.2)
26. **Tariq Mahmood**, Konish Kanwal and Iftikhar-Uz-Zaman. **2018**. Records of Indian pangolin [Mammalia: Pholidota: Manidae: *Manis crassicaudata*] from Mansehra District, Pakistan. **Journal of Threatened Taxa**. 10(2): 11254- 11261.
27. Shaista Andleeb, **Tariq Mahmood**, Azeem Khalid, Faraz Akrim, and Hira Fatima. **2018**. Hexavalent chromium induces testicular dysfunction in small Indian mongoose (*Herpestes javanicus*) inhabiting tanneries area of Kasur District, Pakistan. **Ecotoxicology and Environmental Safety**. 148 (C): 1001-1009. (IF: 3.974)
28. **Nadeem Munawar**, Iftikhar Hussain and **Tariq Mahmood**. **2018**. Occurrence of rodents' species in agricultural lands during cropping and non-cropping seasons of Pothwar Plateau, Pakistan. **Pakistan J Zool**. 50(5): 1663-1669, (IF: 0.547)
29. Siddeeqa Qasim, Muhammad Rais, Faraz Akrim and **Tariq Mahmood**. **2018**. A study on diet and relationship of Indus valley spiny-tailed lizard (*Saara hardwickii*) with vegetation. **The J. Anim. Plant Sci**. 28(3): 2018. (IF: 0.407)
30. **Tariq Mahmood**, Shafqat Rasool, Faraz Akrim, Shaista Andleeb, Muhammad Sajid Nadeem, and Fiaz Nadeem. **2018**. Diversity and nest characteristics of owl species inhabiting Margalla Hills National Park Islamabad, Pakistan. **Pakistan J. Zool**. 50(4): DOI: <http://dx.doi.org/10.17582/journal.pjz/2018.50.4.sc16> (IF: 0.547)

31. Saima Yousaf and Tariq Mahmood. **2018**. Feeding Ecology of Four Freshwater Turtle Species in Pothwar Plateau and its Potential implication in Turtle Farming in Pakistan. **Int. J. Agric. Biol.** 20: 723-729. (IF: 0.869)
32. **Tariq Mahmood**, Syed Wasif Ahmed Shah, Muhammad Rais, Hira Fatima, Faraz Akrim and *Muhammad Sajid Nadeem. 2018. Nesting use of tree species by avifauna inhabiting Pabbi Range forest, Kharian, Punjab, Pakistan. **Pakistan J. Zool.**, 50(1): 329-338. (IF: 0.547)
33. **Tariq Mahmood**, Fakhra Fazal, Faraz Akrim, Hira Fatima and Muhammad Sajid Nadeem. 2018. Comparative morphology and anatomy of two sympatric mongoose species (*Herpestes javanicus* and *H. Edwardsii*) from Potohar Plateau. **Pakistan J. Zool.**, 50(1): 385-387 (IF: 0.547)

Year 2017

34. Riaz Hussain, **Tariq Mahmood**, Faraz Akrim, Hira Fatima and Muhammad Sajid Nadeem. **2017**. Human activity mediates reciprocal distribution and niche separation of two sympatric mongoose species in Pothwar Plateau, Pakistan. **Turkish Journal of Zoology**. 41: 1045-1058.: DOI: 10.3906/zoo-1606-34 (IF: 0.558).
35. Faraz Akrim, **Tariq Mahmood**, Riaz Hussain, Siddiqa Qasim and Imad Ul Din Zangi. 2017. Distribution pattern, population estimation and threats to the Indian Pangolin *Manis crassicaudata* (Mammalia: Pholidota: Manidae) in and around Pir Lasura National Park, Azad Jammu & Kashmir, Pakistan. **Journal of Threatened taxa**, 9(3): 9920-9927.
36. Faraz Akrim, Hira Fatima, Saida Amna Nazir, **Tariq Mahmood**, Riaz Hussain and Muhammad Sajid Nadeem. 2017. Seasonal hormones, female reproductive tract changes and some field observations on breeding activities of small Indian Mongoose (*Herpestes javanicus*) from its native range of Potohar Plateau, Pakistan. **Turkish Journal of Zoology**; 41: 664-673. (IF: 0.558)
37. Muhammad Awais, **Tariq Mahmood**, Iftikhar-uz-Zamman and Muhammad Waseem. **2017**. First camera trap photos of leopard in the Galiat Forests of Abbottabad, Pakistan. **CAT news** 65.
38. **Tariq Mahmood** and Ayesha Adil. 2017. Diet composition of small Indian mongoose (*Herpestes javanicus*) varies seasonally in its native range. **Animal Biology**, 67: 69-80. (IF:1.069)

Year 2016

39. Shagufta Nighat, Muhammad Sajid Nadeem, **Tariq Mahmood**, Amjad Rashid Kayani, Muhammad Mushtaq and M. Mahmood ul Hassan. **2016**. Estimation of Heavy Metals in Indian Flying Fox *Pteropus giganteus* (Brünnich, 1782) from Punjab, Pakistan. **Pakistan J. Zool.**, 48(6): 1787-1792. (IF: 0.547)
40. Riaz Hussain and **Tariq Mahmood**. Comparative Ecology of two Sympatric mongoose species (*Herpestes javanicus* and *H. edwardsii*) in Pothwar Plateau, Pakistan. **2016. Pakistan J. Zool.**, 48(6): 1931-1943. (IF:0.547)
41. Maqsood Anwar*, Sakawat Ali, Muhammad Rais and **Tariq Mahmood**. **2016**. Breeding ecology of red jungle fowl (*Gallus gallus*) in Deva Vatala National Park, Azad Jammu and Kashmir, Pakistan. **J Appl. Agr. Biotech.** 1(1): 59-65.
42. Rukhsana Bibi, Muhammad Rais, Muhammad Saeed, Ayesha Akram, **Tariq Mahmood**, and Maqsood Anwar. 2016. Impacts of ammonium nitrate on survival of tadpoles of the common skittering frog (*Euphlyctis cyanophlyctis*). **Basic and Applied Herpetology**. <http://dx.doi.org/10.11160/bah.15007>.
43. **Tariq Mahmood**, Irfan Qadir Qadosi, Hira Fatima, Faraz Akrim and Muhammad Rais. 2016. Metal concentrations in common skittering frog (*Euphlyctis cyanophlyctis*) inhabiting Korang River, Islamabad, Pakistan. 2016. **Basic and Applied Herpetology**, 30: 25-38. <http://dx.doi.org/10.11160/bah.16001>.
44. Faraz Akrim, **Tariq Mahmood**, Muhammad Siddique Awan, Siddiqa Qasim Butt, Durr-e-Shewar, Muhammad Arslan Asadi, and Imad-Ul-Din-Zangi. **2016**. Habitat preference and Roosting behavior of the Red Jungle fowl *Gallus gallus* (Aves: Galliformes: Phasianidae) in Deva Vatala National Park, Azad Jammu & Kashmir, Pakistan. **Journal of Threatened Taxa**, 8(9): 9138-9143.

Year 2015

45. Nausheen Irshad, **Tariq Mahmood**, and Muhammad Sajid Nadeem. 2015. Morpho-anatomical characteristics of Indian pangolin (*Manis crassicaudata*) inhabiting Potohar Plateau, Pakistan. **Mammalia**, 80(1): 103-110. (IF: 0.714)
46. **Tariq Mahmood**, Nausheen Irshad, Riaz Hussain, Faraz Akrim, Iftikhar Hussain, Maqsood Anwar, Muhammad Rais, Muhammad Sajid Nadeem. 2015. Breeding habits of Indian pangolin (*Manis crassicaudata*) in Potohar Plateau, Pakistan. **Mammalia**. 80 (2): 231-234. (IF: 0.714)

47. Nausheen Irshad, **Tariq Mahmood**, Riaz Hussain and Muhammad Sajid Nadeem. 2015. Distribution, abundance and the diet of Indian pangolin (*Manis crassicaudata*). **Animal Biology**. 65: 57-71. (IF: 1.069)
48. **Tariq Mahmood**, Saida Amna Nazir, Hira Fatima, Faraz Akrim, Riaz Hussain, and *Muhammad Sajid Nadeem. 2015. Temporal variation in reproductive physiology of small Indian mongoose male (*Herpestes javanicus*) inhabiting Potohar Plateau, Pakistan. **Pakistan J. Zool.**, 47 (5): 1263-1270. (IF: 0.547)
49. **Tariq Mahmood**, Shaista Andleeb, Maqsood Anwar, Muhammad Rais, *Muhammad Sajid Nadeem, Faraz Akrim and Riaz Hussain. 2015. Distribution, abundance and vegetation analysis of the Scaly ant-eater (*Manis crassicaudata*) in Margalla Hills National Park Islamabad, Pakistan. **The JAPS**, 25 (5). 1311-1321. (IF: 0.407)
50. **Tariq Mahmood and Riaz Hussain**. 2015. A Note on Nest Characteristics and Diet of the Red-headed Merlin *Falco chicquera*, Common Kestrel *Falco tinnunculus* and Saker Falcon *Falco cherrug* in Chakwal District, Potohar Plateau, Pakistan. **PODOCES**, 10(1)-15-20.
51. Muhammad Awais, Shabir Ahmed, Sajid Mahmood, Tariq Mahmood and Hanif Alvi. 2015. Breeding Biology of the House Crow *Corvus splendens* at Hazara University, Garden Campus, Mansehra, Pakistan. **PODOCES**, 10(1): 1-7.
52. Faraz Akrim, Muhammad Siddique Awan, Tariq Mahmood, Muhammad Zubair Anjum, Siddiq Qasim, Jehanzeb Khalid, Durr-e-Shahwar and Shaista Andleeb. 2015. Threats to Red Jungle fowl (*Gallus gallus murghi*) in Deva Vatala National Park, District Bhimber, Azad Jammu and Kashmir, Pakistan. **Annual Research & Review in Biology**. DOI: 10.9734/ARRB/2015/9596.
53. Samah Bashir Kayani*, Maqsood Anwar, Muhammad Ashfaq1, Iftikhar Hussain, Tariq Mahmood. 2015. Cytochrome b gene based phylogenetic studies of *Pangshura smithii* from Pakistan . **Int. J. Biosci.** 6(10): 57-63.
54. Samah Bashir Kayani*, Maqsood Anwar, Iftikhar Hussain, Tariq Mahmood. 2015. Cytochrome b gene based characterization of *Lissemys punctata*. **Int. J. Biosci.** 6(10): 73-81.
55. Samah Bashir Kayani1*, Maqsood Anwar1, Muhammad Ashfaq, Iftikhar Hussain1, Tariq Mahmood. 2015. Morphometric studies of the fresh water turtles from Rawalpindi Islamabad Region of Pakistan. **Journal of Biodiversity and Environmental Sciences**, 6(5): 228-233.

Year 2014

56. **Tariq Mahmood**, Nausheen Irshad, and Riaz Hussain. 2014. Habitat preference and population estimates of Indian pangolin (*Manis crassicaudata*) in district Chakwal of Potohar Plateau, Pakistan. **Russian Journal of Ecology**, 45(1): 70-75. (IF: 0.439)
57. Muhammad Awais, Shabbir Ahmed, Sajid Mahmood, Azhar Mahmood, Shaukat Ali, Komal Bibi and **Tariq Mahmood**. 2014. Nest Density, Clutch Size and Egg Traits of House Crow *Corvus splendens* at Ghazikot Township, Mansehra, Pakistan. **The Journal of Zoology Studies**. 1(5): 13-18.
58. Muhammad Sajid Nadeem, **Tariq Mahmood**, Muhammad Mahmood-ul-Hassan. 2014. Breeding success of the Stone Curlew *Burhinus oedicnemus* in Nag Valley (1999–2001), Kharan, Pakistan. **Turkish Journal of Zoology**, 38: 510-514. (IF: 0.558)

Year 2013

59. Iftikhar Hussain, Sajid Abbasi, Sarwat Naz Mirza, Maqsood Anwar, Muhammad Rais, **Tariq Mahmood**. 2013. Tree cavities and associated vertebrate fauna in a coniferous forest of Dhirkot, Azad Jammu and Kashmir part of Pakistan. **Turkish Journal of Zoology**, 37: 647-658. (IF: 0.558)
60. Shagufta Nighat, Shahid Iqbal, Muhammad Sajid Nadeem, **Tariq Mahmood** and Syed Israr Shah. 2013. Estimation of heavy metal residues from the feathers of Falconidae, Accipitridae and Strigidae in Punjab, Pakistan. **Turkish Journal of Zoology**, 37(4): 488-500. (IF: 0.558)
61. **Tariq Mahmood**, Syed Muhammad Usman-ul-Hassan, Muhammad Sajid Nadeem and Amjad Rashid Kayani. 2013. Population and Diet of migratory Common Starling *Sturnus vulgaris* wintering in agricultural areas of Sialkot district, Pakistan. **The Forktail**, 29: 143-144. (IF: 0.275)
62. **Tariq Mahmood**, Khalida Jabeen, Iftikhar Hussain and Amjad Rashid Kayani. 2013. Plant species association, burrow characteristics, and the diet of Indian pangolin *Manis crassicaudata* in the Potohar Plateau, Pakistan. **Pakistan Journal of Zoology**, 45(6):1533-1539. (IF: 0.547)
63. **Tariq Mahmood**, Fouzia Niazi, and Muhammad Sajid Nadeem. 2013. “Diet composition of Asiatic jackal (*Canis aureus*) in Margallah Hills National Park, Islamabad, Pakistan”. **The JAPS**. 23(2): 444 – 456. (IF: 0.407)

Year 2012

64. Muhammad Rais, Sara Balouch, Javeria Rehman, Maqsood Anwar, Iftikhar Hussain and **Tariq Mahmood**. 2012. Diversity and Conservation of amphibians and reptiles in north Punjab, Pakistan. **Herpetological Bulletin**. 122: 16-25.
65. Muhammad Sajid Nadeem, Ruqyya Naz, Syed Israr Shah, Mirza Azhar Beg, Amjad Rashid Kayani, Muhammad Mushtaq and **Tariq Mahmood**. 2012. Season- and locality-related changes in the diet of Asiatic Jackal (*Canis aureus*) in Potohar, Pakistan. **Turk. J. Zool.** 2012. 36: 798-805 (IF: 0.558).
66. **Tariq Mahmood**, Riaz Hussain, Nausheen Irshad, Faraz Akrim and Muhammad Sajid Nadeem. 2012. Illegal Mass Killing of Indian Pangolin (*Manis crassicaudata*) in Potohar Region, Pakistan. **Pakistan J. Zool.**, 44(5),1457-1461. (IF:0.547)
67. **Tariq Mahmood**, Muhammad Khaled Siddiq, Muhammad Rais and Muhammad Sajid Nadeem. 2012. Distribution and abundance of freshwater turtles in Korang River Islamabad-Rawalpindi, Pakistan. **Pakistan J. Zool.** 44 (3): 889-893. (IF: 0.547)
68. **Tariq Mahmood**, Riaz Hussain, Muhammad Rais, Iftikhar Hussain and Muhammad Sajid Nadeem. 2012. Habitat Analysis and Population Estimates of three falcon species, Red-headed Merlin (*Falco chicquera*), Common Kestrel (*Falco tinnunculus*) and Saker Falcon (*Falco cherrug*), inhabiting district Chakwal, Pakistan. **Pakistan J. Zool.** 44(3):787-79. (IF: 0.547)
69. Noman Khalique, Muhammad Rais, **Tariq Mahmood**, Maqsood Anwar, Sakhawat Ali, Sadia Bilal, Bilal Kabeer. 2012. Study on Some waterfowls of mangla dam, Azad Jammu and Kashmir. **BERKUT**. 21(1-2): 44-49.
70. M.S. Nadeem, S.M. Khalid Imran, **Tariq Mahmood**, Amjad Rashid Kyani, and Syed Israr Shah. 2012. A comparative study of the diets of Barn Owl (*Tyto alba*) and Spotted Owl (*Athene brama*) inhabiting Ahmadpur East, southern Punjab, Pakistan. **Animal Biology**: 62(1): 13-28. (Citations: 04) (IF: 1.069)

Year 2011

71. **Tariq Mahmood**, Syed Muhammad Ali Shah, Muhammad Rais and Muhammad Sajid Nadeem. 2011. An Investigation into the Trade of Animal species at pet shops of Rawalpindi and Multan cities. **The JAPS** 21(4):822-829. (IF: 0.407)
72. Muhammad Rais, Maqsood Anwar, **Tariq Mahmood** and Iftikhar Hussain. 2011. Bird Diversity and Conservation at Kallar Kahar Lake with Special Reference to Water Birds. **Pakistan J. Zool.** 43(4): 673-681. (IF: 0.547)
73. **Tariq Mahmood**, Iftikhar Hussain and M. Sajid Nadeem. 2011. Population estimates, habitat preference and the diet of small Indian mongoose (*Herpestes javanicus*) in Potohar Plateau, Pakistan. **Pakistan J. Zool.** 43(1): 103-111. (Citations: 05) (IF: 0.547)
74. Muhammad Sajid Nadeem, **Tariq Mahmood**, Muhammad Asif and M. Mahmood-Ul-Hassan. 2011. Annual reproductive success of Hoopoe Lark *Alaemon alaudipes* in Nag valley (1999-2001) Kharan, Pakistan. **Pakistan Journal of Zoology**, 43(2):279-284. (Citations: 02) (IF: 0.547)
75. Fouzia Tabussam, Muhammad Rais, Maqsood Anwar, **Tariq Mahmood**, Iftikhar Hussain and Shahid Ali Khan. 2011. Abundance and Breeding of the Common Skittering Frog (*Euphlyctis cyanophlyctis*) and Bull Frog (*Hoplobatrachus tigerinus*) at Rawal Lake, Islamabad, Pakistan. **Asian Herpetological Research**, 2(4): 245-250. (IF: 0.594)
76. Saima Yousaf, **Tariq Mahmood**, Muhammad Rais and Irfan Zia Qureshi. 2011. Population Variation and food habits of Ranid frogs in the rice-based cropping system in Gujranwala Region, Pakistan. **Asian Herpetological Research**, 1(2): 123-130. (IF: 0.594)
77. **Tariq Mahmood**, Nabila Amin, Muhammad Rais. Captive breeding of demoiselle crane in Lakki Marwat, Khyber Pakhtunkhwa, Pakistan. 2011. **BERKUT**; 20 (1-2): 153-158.
78. Sadia Bilal, Muhammad Rais, Maqsood Anwar, **Tariq Mahmood**, Iftikhar Hussain, Muhammad Sajid Nadeem. 2011. Trend in the diversity of migratory ducks at Rawal Lake, Islamabad. **BERKUT**; 20 (1-2): 65-69

Year 2010

79. Irfan Zia Qureshi and **Tariq Mahmood**. 2010. Prospective role of ascorbic acid (vitamin C) in attenuating hexavalent chromium-induced functional and cellular damage in rat thyroid. **Toxicology and Industrial Health**. 26(6): 349-359. (IF: 1.255)

80. **Tariq Mahmood**, Irfan Zia Qureshi and Muhammad Javed Iqbal. 2010. "Histopathological and biochemical changes in rat thyroid following acute exposure to hexavalent chromium". **Histology and Histopathology**, 25 (11):1355-1370. (IF: 2.015)
81. M. Rais, B. Kabeer, M. Anwar and **T. Mahmood**. 2010. Effect of Habitat degradation on breeding water birds of Kallar Kahar lake, District Chakwal. 2010. **The JAPS.**, 20(4): 318-320. (IF: 0.407)
82. Nadeem, M. S., **T. Mahmood**, and M. Asif. 2010. Wintering population of Houbara bustard in Punjab, Pakistan (2002-2003). **BERKUT** 19(1-2): 133-140.
83. Sajid Mehmood, **Tariq Mahmood**, Muhammad Rais, Irfan Zia Qureshi and Muhammad Sajid Nadeem. 2010. Comparative Study on Population and Habitat of the Grey and Black Francolins; *Francolinus pondicerianus* and *Francolinus francolinus* in Lehri Nature Park, Punjab, Pakistan. **PODOCES**, 5(1): 42-53.

Year 2009

84. Mohammad Sajid Nadeem, Mohammad Asif, **Tariq Mahmood**. 2009. A rare Skink, *Novoeumeces blythianus*, recorded from Nag valley, Kharan, Balochistan. **Pakistan J. Zool.** 41(5): 416-417. (IF: 0.547)

Year 2008

85. **Tariq Mahmood**, Irfan Zia Qureshi, and Mumtaz Ahmed Khan. 2008, Hexavalent Chromium Toxicity in Pituitary and Thyroid glands. **Pakistan Journal of Zoology**, 40 (2): 91-98. (IF: 0.547)

Year 2007

86. Mohammad Sajid Nadeem, Mohammad Asif, **Tariq Mahmood** and Ghulam Mujtaba. 2007. Reappearance of Red-headed Vulture *Sarcogyps calvus* in Tharparker, Southeast Pakistan. **Podoces**, 2(2): 141-162.

Year 2006 and previous

87. Mohammad Sajid Nadeem, Mohammad Asif, Ghulam.Mujtaba and **Tariq Mahmood**. 2006. Apparently unrecorded route of Dalmatian pelican *Pelecanus crispus* in Nag valley, Pakistan. **Birding Asia**, 5: 573-74.
88. Mohammad Sajid Nadeem, M. Anwar Maan, **Tariq Mahmood** and Asim Iqbal Abbasi. 2005. Population of Houbara bustard (*Chlamydotis undulata macqueenii*) in Punjab, Pakistan 1999. **Ardeola**, 53(1), 163-166. (IF :1.200)
89. Mohammad Sajid Nadeem, M. Anwar Maan, **Tariq Mahmood** and Raja Mohammad Ikram. 2005. Houbara population estimates in Punjab, Pakistan 2000. **Berkut**, 14 (1):71-75.
90. **Tariq Mahmood**, M. Maqbool Ahmed and M.Sajid Nadeem. 2004. Profile of reproductive hormones during the year in the male and female birds (Houbara bustard). **Berkut**, 13 (1): 110 -114.
91. Abdul Majeed Cheema, Robina Mushtaq, **Tariq Mahmood** and Nabila Roohi. 1993. Plasma free amino acids following long acting zinc protamine insulin administration in normal and glucose loaded lactating dwarf goat. **Pakistan J. Zool.** 25: 303-306. (IF: 0.790)

MEMBERSHIP OF SOCIETIES

- Member: **Zoological Society of Pakistan (ZSP)**. Department of Zoology, University of the Punjab, Lahore.
- Member: **IUCN SSC Pangolin Specialist Group**.
- Member: **Society for Conservation Biology-Asia Section**

RESEARCH STUDENTS SUPERVISED

a) M.Phil. Research Theses Produced

Sr. No.	Name of Student	Research Title	Completed
1	Saima Yousuf	Population dynamic and food habits of Ranidae frogs in the rice-based cropping system of District Gujranwala.	2009
2	Sajid Mehmood	Population ecology of grey and black partridges in Lehri Nature Park, District Jhelum.	2009
3	Nabila Amin	Captive Breeding of Demoiselle Crane (<i>Anthropoid virgo</i>) in Lakki Marwat Area, NWFP.	2010

4	Muhammad Khaled Siddiq	Population, Distribution and Breeding Habits of the Turtles inhabiting Korang River, Rawalpindi.	2010
5	Shoaib Hameed	Population status of Snow leopard (<i>Uncia uncia</i>) in Toshi Game Reserve, Chitral.	2010
6	Riaz Hussain	Potential habitat and population of genus <i>Falco</i> in District Chakwal.	2010
7	Syed Muhammad Ali Shah (M.Sc. thesis)	Trade of Wildlife species in Rawalpindi and Multan cities of Punjab.	2010
8	Khalida Jabeen	Habitat characteristics and diet composition of Indian pangolin (<i>Manis crassicaudata</i>) in district Attock.	2011
9	Syed Muhammad Usman-Ul-Hassan	Population and Diet of Common Starling (<i>Sturnus vulgaris</i>) in Agro-Ecosystem of district Sialkot.	2011
10	Fouzia Niazi	Diet composition of Asiatic jackal (<i>Canis aureus</i>) in Islamabad area.	2011
11	Madiha Sharif	Habitat selection by Common Moorhen (<i>Gallinula chloropus</i>) at kallar Kahar lake, Chakwal.	2011
12	M. Irfan Qadir Qadosi	Estimation of some heavy metals in Ranid frogs inhabiting Korang River Rawalpindi-Islamabad.	2012
13	Shaista Andleeb	Habitat, distribution and population of Scaly anteater (<i>Manis crassicaudata</i>) in Margalla Hills National Park, Islamabad.	2012
14	Saida Amna Nazir	Seasonal variations in the male gonads of small Indian mongoose (<i>Herpestes javanicus</i>) in Potohar Plateau.	September 2012
15	Hira Fatima	Reproductive physiology of female small Indian mongoose (<i>Herpestes javanicus</i>) inhabiting Pothwar Plateau.	September 2012
16	Faraz Akrim	Breeding Ecology of small Indian mongoose (<i>Herpestes javanicus</i>) in district Chakwal.	September 2012
17	Ayesha Younas	Comparative analysis of historical and current distribution ranges of Snow leopard (<i>Panthera uncia</i>) in Asia	October 2015
18	Ayesha Adil	Diet composition of Small Indian mongoose (<i>Herpestes javanicus</i>) inhabiting agro-ecosystem of district Sialkot	October 2015
19	Shafqat Rasool	Nesting Habitats of Owl species in Margalla Hills National Park, Islamabad	October 2015
20	Syed Wasif Ahmed Shah	Nesting use of plant species by Avifauna in Pabbi range, Kharian.	January 2016
21	Fakhra Fazal	Anatomical characteristics of two mongoose species (<i>Herpestes javanicus</i> and <i>H. edwardsii</i>) inhabiting Potohar Plateau	October 2016
22	Imad-ul-Din Zangi	Abundance of vulture spp. At Pir Lasura National Park area, AJ&K.	October 2016
23	Muhammad Awais	Impact of climatic factors on Human-Common Leopard Conflict in Galiat forest Division, District Abbottabad	October 2016
24	Konish Kanwal	Distribution and habitat association of Indian pangolin (<i>Manis crassicaudata</i>) in District Mansehra	Dcember 2016
25	Abdul Hamid	Distribution and population of Grey Wolf (<i>Canis lupus</i>) in Suleman Range, South Waziristan	October 2017
26	Aabid Hussain	Distribution of diet of Common Leopard (<i>Panthera pardus</i>) in district Sudhanoti, AJ&K.	October 2017
27	Muhammad Waseem	Distribution, population and Human conflicts of Black Bear (<i>Ursus thibetanus</i>) in District Mansehra.	October 2017
28	Ijaz Ahmed	Breeding Biology of Chukar Partridge (<i>Alectoris chukar</i>) in district Lower Dir	March 2018
29	M. Raza Khan	Distribution and diet composition of wolf (<i>Canis lupus</i>) in Mahoodand valley, Swat.	October 2018
30	Ifrah Rafaqat	Distribution and diet of Kashmir hill fox (<i>Vulpes Vulpes griffithi</i>) in Ayubia national Park	October 2018
31	Atta ur Rehman	Distribution and population of Himalayan Ibex (<i>Capra ibex</i>) in Chitral Gol National Park	October 2018
32.	Luqman Ullah Khan	Diversity and abundance of Avifauna in Manglot Wildlife Park	2018

		District Nowshera	December
33	Shaukat Ali	Distribution and diet composition of Asiatic Black bear (<i>Ursus thibetanus</i>) in Bajaur Agency, Pakistan	2018 December
34	Imran Khan	Distribution and abundance of Chukar Partridge (<i>Alectoris chukar</i>) in Bajaur Agency, Pakistan	2018 December
35	Ammara Baig	Dietary habits of Lesser Bandicoot rat (<i>Bandicota bengalensis</i>) in agro-ecosystem of Pothwar Plateau	October 2019
36	Annum Razzaq	Dietary habits of Indian Gerbil (<i>Tatera indica</i>) inhabiting agro-ecosystem of Pothwar Plateau	October 2019
37	Ammara Saman	Dietary habits of Short tailed Mole rat (<i>Nesokia indica</i>) inhabiting agro-ecosystem of Pothwar Plateau.	October 2019
38	Rabia Nazir	Re-assessing the status of Indian pangolin (<i>Manis crassicaudata</i>) in Pothwar Plateau	October 2019
39	Tariq Ahmed	Extent of illegal trade associated with Indian pangolin (<i>Manis crassicaudata</i>) in Pothwar Plateau	October 2019
40	Asmar Ullah	Distribution and population of Indian pangolin (<i>Manis crassicaudata</i>) in Kohat district	October 2019

b) M.Phil. Research Students Currently Enrolled

Sr. No.	Name of Student	Research Title	Registration
1	Shakeela Ismail	Distribution and diet of Gray wolf (<i>Canis lupus</i>) in Deosai National Park, Gilgit Baltistan	September 2018

b) PhD's Produced: 05

Sr. No.	Name of Student	Research Title	Date of Enrollment	Degree Notification Date
1	Nausheen Irshad	Population, Distribution and Food Habits of Indian pangolin (<i>Manis Crassicaudata</i>) in Potohar Plateau, Pakistan.	28-09-2009	June 01, 2015
2	Riaz Hussain	Comparative Ecology of two mongoose species (<i>Herpestes javanicus</i> and <i>H. edwardsii</i>) inhabiting Pothwar Plateau.	27-02-2011	April 01, 2016
3	Saima Yousaf	Population Ecology of Freshwater turtle species of Pothwar Plateau.	2010	December 2017
4.	Shaista Andleeb	Chromium toxicity in small Indian mongoose (<i>Herpestes javanicus</i>) inhabiting Tannery areas of Kasur District, Pakistan	2013	19 July 2018
5	Faraz Akrim	Resource partitioning among sympatric carnivore species at Pir Lasura National Park, Azad Jammu and Kashmir.	2013	September 2018

c) Ph.D. Research Students Currently Enrolled

Sr. No.	Name of Student	Research Title	Registration Date
1	Hira Fatima	Diet composition and niche breadth of sympatric carnivores of Margalla Hills National Park, Islamabad, Pakistan	Thesis submitted for evaluation in September 2019
2	Syed Muhammad Khalid Imran	Ecology of Pigeons and Doves (Columbiformes) in and around Margalla Hills National Park, Islamabad	Feb. 2014

3	Nadeem Munawar	Damage assessment and control of rodents in Agro-ecosystems of Pothwar Plateau, Pakistan	2015
4	Muhammad Farooq	Comparative ecology and niche overlap of red fox (<i>Vulpes Vulpes</i>) and Asiatic jackal (<i>Canis aureus</i>) in Pothwar Plateau.	2017

CONFERENCES, SEMINARS AND WORKSHOPS

Year 2020

- Participated in “**World Pangolin Day 2020**” One-day Seminar at University of Haripur, Khyber Pakhtunkhwa on February 21, 2020, organized by Department of Forestry and Wildlife Management, University of Haripur and WWF Pakistan, and delivered invited talk on “Ecology of Indian pangolin in Pakistan”.
- Attended Three-Days “Pakistan National Strategic Workshop on “**Conservation of Raptors in Pakistan and Safeguarding Falconry: A heritage Sport**”, Organized by Ministry of Climate Change (MOCC) Islamabad at Islamabad Club from 21- 23 January 2020.

Year 2019

- Attended Consultative Meeting on “**Saving Pangolins in Pakistan-Most Trafficked Mammal in the World**” held on 04th July 2019, at IUCN office F-7/4, Islamabad.
- **Attended Consultative Meeting on Biodiversity.** Held on June 12, 2019, at IUCN office Islamabad at 09:30 am
- **World Biodiversity day 2019.** Held at PMNH Garden Avenue Shakar Parian Islamabad on May 22, 2019, organized by PMNH Islamabad, ICIMOD and IUCN etc.
- **Standardization of Survey Techniques for preparation of Red Data Book.** Held at Monal Restaurant, Pir Sohawa, Islamabad on April 29, 2019, organized by **Zoological Survey of Pakistan Islamabad**
- **Dasu Hydro Power Project Meeting-Stakeholders Review Session 2019.** Held at Serena Hotel, Islamabad on April 08-10, 2019, organized by Dasu Hydro power Project Biodiversity Management Team.
- **Indian Pangolin Red List Assessment Skype call Meeting 2019.** April 05, 2019 time: 2:00 pm to 3:30 pm. Organized and Coordinated by **IUCN SSC Pangolin Specialist Group**, coordinated by Dan Challender as IUCN Chair.
- **Conducted one-day Wildlife community awareness campaign** with Punjab Wildlife and Parks Department Lahore, to Kotli Sattian area community on Saturday, 30th March 2019. A community interactive seminar was held at GHS building Kotli Sattian and talked about Indian pangolin's occurrence and its importance in the area, to motivate local people to save and conserve the species.
- **World Wildlife Day 2019.** Celebrated on March 01, 2019. At Visitors Information Center, Trail 5, Margalla Hills National Park Islamabad.
- **39th Pakistan Congress of Zoology (International).** March 04-06, 2019. Zoology Department, Govt. Islamia College University Peshawar, Pakistan.
- **World Pangolin Day 2019.** Celebrated on February 14, 2019. Main Seminar Room, PMAS Arid Agriculture University Rawalpindi.

Year 2018

- **Conservation Asia 2018.** Held at American University of Central Asia (AUCA), **Bishkek, Republic of Kyrgyzstan**, from 6 to 10 August 2018.
- IUCN workshop on ‘Developing ecological monitoring methods for pangolins’, being held in **Cambridge, United Kingdom** on 24-26th July 2018.
- **Analyzing Global Climate Datasets using Grid Analysis & Display System (GrADs).** 2 days Workshop organized by Department of Biology and Environmental Sciences, Allama Iqbal Open

University Islamabad in Collaboration with Pakistan Meteorological Department (PMD) Islamabad from 3-4th April 2018.

- **38th Pakistan Congress of Zoology (International).** Feb. 27 to March 01, 2018, held at Zoology Department, Punjab University Lahore.
- **Seminar on Inclusive Wildlife Conservation: Integrating Amphibians and Reptiles in Wildlife Conservation.** One day workshop held on 29th March. 2018, organized by Department of Wildlife Management, PMAS-Arid Agriculture University Rawalpindi in collaboration with Deakin University, Melbourne, Australia.

Year 2017

- **First International Conference on Emerging Trends in Zoology (ICETZ) 2017.** December 08-09, 2017, Zoology Department, University of Sargodha, Sargodha.
- **ISEEP 2017 VIII International Symposium on Ecology and Environmental Problems**, October 04 to 07, 2017, at Canakkale Onsekiz Mart University, Canakkale, **Turkey**.
- **37th Pakistan Congress of Zoology (International).** Feb. 28 to March 2, 2017, GCU Faisalabad.

Year 2016

- **IUFRO regional Congress for Asia and Oceania 2016.** October 24-27, 2016, CNCC, Beijing, China.
- **36th Pakistan Congress of zoology (International),** Feb 16-28, 2016, University of Sind, Jamshoro.

Year 2015

- **35th Pakistan Congress of Zoology,** March 1-4, 2015, University of Karachi, Karachi.

Year 2014

- **3rd regional conference of Society for Conservation Biology-Asia section (SCB Asia 2014),** August 19-22, 2014, Hotel Equatorial, Melaka, **Malaysia**.
- **34th Pakistan Congress of Zoology,** February 25-27, 2014. BZU Multan.

Year 2012

- **32nd Pakistan Congress of Zoology,** March 06-08, 2012, GC University Lahore, Pakistan.

Year 2011

- **2nd World Biodiversity Congress 2011,** September 08-12, Four Points by Sheraton, Kuching, Sarawak, **Malaysia**.
- **31st Pakistan Congress of Zoology (International),** April 19-21, 2011, University of Azad Jammu and Kashmir, Muzaffarabad.

Year 2010

- **30th Pakistan Congress of Zoology (International),** March 02-04, 2010, University of Agriculture Faisalabad.

Year 2009

- **29th Pakistan Congress of Zoology.** Feb 24-26, 2009, held at University of Sindh, Jamshoro.
- **9th Biennial Conference on Advances in Biochemistry and Molecular Biology.** March 17-20, 2009, PMAS- Arid Agriculture University, Rawalpindi,

Year 2008

- **28th Pakistan Congress of Zoology (International),** March 18 – 20, 2008, GC University Faisalabad.

Year 2006

- **Third National Conference on Agriculture and Animal Sciences.** November 21 – 23, 2006, Sind Agriculture University Tando Jam, Sind,

Year 2004

- **Electronic Journals and digital library resources.** July 20 – 21, 2004, Quaid-i-Azam University, Islamabad,

Year 2003

- **23 rd Pakistan Congress of Zoology (International),** March 3 – 5, 2003, University of Arid Agriculture, Rawalpindi,

Year 2002

- **In-service Teachers Training workshop,** June 10 – 19, 2002, Govt. Gordon College, Rawalpindi,
- **11th Annual International Conference of “SPELT”,** Oct. 23 – 24, 1995, Allama Iqbal Open University, Islamabad,
- **Thirteen Pakistan Congress of Zoology.** March 31 – April 1, 1993, University of Karachi, Karachi.

ORAL PRESENTATIONS- AT INTERNATIONAL LEVEL

- Spatial distribution and dietary niche breadth of common leopard (*Panthera pardus*) in north-eastern Himalayan region of Pakistan. **Conservation Asia 2018.** Held at American University of Central Asia (AUCA), **Bishkek, Republic of Kyrgyzstan, from 6 to 10 August 2018.**
- Chromium induced histo-architectural alterations in female small Indian mongoose (*Herpestes javanicus*) inhabiting tannery areas of the Kasur District, Pakistan. **ISEEP 2017 VIII International Symposium on Ecology and Environmental Problems”, October 04 to 07, 2017,** at Canakkale Onsekiz Mart University, Canakkale, **Turkey.**
- Human activity mediates reciprocal niche distribution and separation of two sympatric mongoose species in Pothwar Plateau. IUFRO Regional Congress for Asia and Oceania 2016, **24th to 27 October 2016,** held at China National Convention Center (CNCC), **Beijing, China.**
- Severe range contraction of Tropical Asia’s megafauna. 3rd regional conference of Society for Conservation Biology-Asia section (SCB Asia 2014), **August 19-22, 2014,** Hotel Equatorial, **Melaka, Malaysia.**
- **Defaunation in Tropical Asia.** April 08, 2013. School of Geography, Faculty of Science, University of Nottingham, Malaysia Campus, **Malaysia.**
- Distribution, Population and food habits of Indian pangolin (*Manis crassicaudata*) in Potohar Plateau, Pakistan. 2nd World Biodiversity Congress 2011, **September 08-12, Four Points by Sheraton, Kuching, Sarawak, Malaysia.**

ORAL PRESENTATIONS at National Level

- Application of Quantum GIS in Wildlife Ecology Studies. **First International Conference on Emerging Trends in Zoology (ICETZ) 2017.** December 08-09, 2017, Zoology Department, University of Sargodha, Sargodha.
- “Population Estimates, Food Habits and Habitat Preference of small Indian mongoose (*Herpestes javanicus*) in Potohar Plateau, Pakistan”. 30th Pakistan Congress of Zoology, Zoological Society of Pakistan. 2-4 March., 2010, University of Agriculture Faisalabad, Faisalabad. FEWFM-4, pp 150.
- “Ultra structural changes in the rat thyroid following administration of hexavalent chromium”. 28th Pakistan Congress of Zoology (International), March 18 – 20, 2008, GC University Faisalabad, CBGP-11, pp.7.
- “Profile of reproductive hormones during the year in the male and female birds (*Houbara bustard*).” 23rd Pakistan Congress of Zoology (International). March 3 – 5, 2003, University of Arid Agriculture, Rawalpindi. CBGP-15, pp. 8.
- “Alteration in Metabolites following high dose Glucagon in Dwarf Goat”. 13th Pakistan Congress of Zoology, March 31-April 01, 1993, University of Karachi, Karachi.

Professional Foreign Trainings in Wildlife Ecology/ Management

- **Six months Professional Training** in the field of Wildlife Ecology from University of Nottingham, Malaysia Campus, Jalan Broga, Semenyih, Kajang, Selangor, Malaysia, from November 12 2012 to April 10, 2013.

Invited Talks / Lectures (as a resource person)

- Delivered invited talk on “Ecology of Indian pangolin in Pakistan” at the University of Haripur, Khyber Pakhtunkhwa, on the occasion of “World Pangolin Day 2020, on 21st February 2020.
- **Provided Professional Training** to Wildlife officers of the Punjab Wildlife and Parks Department Lahore on “**Preparation of Research Proposals, Synthesis data and writing of Research Report**” held at Punjab Wildlife Research Center, Gatwala, Faisalabad on January 09, 2018.

Webinars / Skype Meetings attended

S. No.	Name	Title	Date & Duration	Venue	Organized by
1.	Dr. Tariq Mahmood	A Wild Solution to Climate Change	April 10, 2019 at 12:00 pm Eastern Time	Webinar	Society for Conservation Biology, USA
2	Dr. Tariq Mahmood	Indian Pangolin Red List Assessment: Skype call Meeting 2019	April 05, 2019 time: 2:00 pm to 3:30 pm.	Skype Group call meeting, conducted & coordinated by Dan Challender as IUCN Chair.	IUCN SSC Pangolin Specialist Group,

❖ **Magazine/ Newspaper Articles**

- Indian Pangolins- Letter to the Editor: published in the Daily “**The News**”, Thursday 20, 2012.

❖ **Community Services**

Participated / conducted one-day “Wildlife Community awareness Campaign” with Punjab Wildlife and Parks department at Narh town, Tehsil Kahuta, on March 30, 2019- to educate people about conservation of Indian pangolin.

❖ **Linkages and Outreach**

Signed memorandum of Understanding with “**Mammalian Ecology and Conservation Unit (MECU), University of California, Davis, USA**.” Signed in December 2018.

❖ **Events Organized**

S. No.	Title	Date & Duration	Venue	Funded By
1	World Pangolin Day 2019- Seminar	Feb.14, 2019 One-day	Main Seminar Room PMAS-AAUR	Department of Wildlife Management and WWF-Islamabad Pakistan
2	World Wildlife Day 2019- Seminar	April 01, 2019 One-day	Visitor’s Display Center, Trail 5, Margalla Hills	Department of WLM + WWF-Pakistan and Islamabad Wildlife Management Board

			National Park, Islamabad	
3	Awareness seminar on Indian Pangolin (<i>Manis crassicaudata</i>)-One-day	16th Feb., 2013	Visitors Information Centre, Trail-5, Margalla Hills National Park, Islamabad.	Jointly organized by the Department of Wildlife Management, PMAS-AAUR and Himalayan Wildlife Foundation, Islamabad
4	Wildlife Conservation in the Margalla Hills National Park (MHNP), Islamabad. One day Seminar	18 th Dec., 2012	Visitors Information Centre, Trail-5, Margalla Hills National Park, Islamabad	Jointly organized by the Department of Wildlife Management, PMAS-AAUR and Himalayan Wildlife Foundation, Islamabad

❖ Travel Grants Won / Approved

Year	Donor Agency	Travel grant won (Rs.)	Conference Name	Dates and Country Visited
2020	University of Oxford, UK	GBP 690	IUCN-Human –Wildlife Conflict and Coexistence	April 01-03, 2020 at University of Oxford, UK.
2019	Society for Conservation Biology-Asia section	USD 300	International Congress of Conservation Biology 2019	To be held from July 21-25, 2019 Kuala Lumpur, Malaysia
2018	Zoological Society, London	Fully Funded: Air fare, accommodation, food etc.	IUCN workshop on 'Developing ecological monitoring methods for pangolins'	24-26th July 2018. Cambridge, United Kingdom
2018	HEC Islamabad	250,327/-	Conservation Asia 2018	6 to 10 August 2018, Bishkek, Republic of Kyrgyzstan
2017	HEC Islamabad	162,516/-	ISEEP 2017 VIII International Symposium on Ecology and Environmental Problems	October 04 to 07, 2017, at Canakkale Onsekiz Mart University, Canakkale, Turkey.
2016	HEC Islamabad	226,525/-	IUFRO regional Congress for Asia and Oceania 2016, Beijing, China	October 24-27, 2016, At CNCC Beijing, China
2014	Society for Conservation Biology-Asia Section	Fully funded: Air Fare, Registration, and Hotel accomodation	3rd regional conference of Society for Conservation Biology-Asia section (SCB Asia 2014),	August 19-22, 2014, Hotel Equatorial, Melaka, Malaysia.
2011	HEC Islamabad	152,240/-	2nd World Biodiversity Congress 2011	September 08-12, 2011. Kuching, Malaysia

ABSTRACTS PUBLISHED

- Habitat suitability modeling and Scale of illegal killing and trade of endangered Indian pangolin (*Manis crassicaudata*) in Pakistan (2013 – 2018). The 29th International Congress for Conservation Biology (ICCB 2019) "Conservation Beyond Boundaries: Connecting Biodiversity with Communities, Government and Stakeholders", 21-25 July 2019, Kuala Lumpur, **Malaysia.**
- Distribution and Diet composition of gray wolf (*Canis lupus*) in Mahoodand Valley, Swat. **39th Pakistan Congress of Zoology, held at Zoology Department, Govt. Islamia College University Peshawar, Pakistan from March 04-06, 2019.** Abstract Book: FEWFM-76
- Distribution and diet composition of Asiatic black bear (*Ursus thibetanus*) in Bajaur Agency, Pakistan. **39th Pakistan Congress of Zoology, held at Zoology Department, Govt. Islamia College University Peshawar, Pakistan from March 04-06, 2019.** Abstract Book: FEWFM-77.
- Diversity and abundance of Avifauna in Manglot Wildlife Park, District Nowshera. **39th Pakistan Congress of Zoology, held at Zoology Department, Govt. Islamia College University Peshawar, Pakistan from March 04-06, 2019.** Abstract Book: FEWFM-78.

5. Application of Quantum GIS in Wildlife Ecology Studies. **First International Conference on Emerging Trends in Zoology (ICETZ) 2017**. December 08-09, 2017, Zoology Department, University of Sargodha, Sargodha. Abstract Book of the Conference, page 27.
6. Chromium induced histo-architectural alterations in female small Indian mongoose (*Herpestes javanicus*) inhabiting tannery areas of the Kasur District, Pakistan. **ISEEP 2017 VIII International Symposium on Ecology and Environmental Problems**, October 04 to 07, 2017, at Canakkale Onsekiz Mart University, Canakkale, **Turkey**. Abstract Book of the Conference.pg.06.
7. Human activity mediates reciprocal niche distribution and separation of two sympatric mongoose species in Pothwar Plateau. IUFRO Regional Congress for Asia and Oceania 2016, 24th to 27 October 2016, CNCC, **Beijing, China**. Abstract Book of the Conference. Pg. 265
8. Impact of climatic factors on Human-Common Leopard Conflict in Galiat Forest Division , District Abbottabad., Pakistan. ATBC Asia-Pacific Chapter Meeting 2017, March 25-28, 2017, XTBG, China. Abstract Book, page 98.
9. Diversity and abundance of Vulture spp. At Pir Lasura National Park (PLNP) AJ&K, Pakistan. 37th Pakistan Congress of Zoology (International) GCU Faisalabad. Abstract Book FEWFM-102 page 321.
10. Distribution and abundance of Indian pangolin (*Manis crassicaudata*) in District Mansehra. 37th Pakistan Congress of Zoology (International) GCU Faisalabad. Abstract Book FEWFM-90 page 315.
11. Comparative anatomical characteristics of two sympatric mongoose species (*Herpestes javanicus* and *H. edwardsii*) from Pothwar Plateau, Pakistan. 37th Pakistan Congress of Zoology (International) GCU Faisalabad. Abstract Book FEWFM-132 page 341.
12. Morphometrics, habitat and breeding of south-east Asian toad (*Duttaphrynus melanostictus*) in Rawalpindi-Islamabad, Pakistan. 37th Pakistan Congress of Zoology (International) GCU Faisalabad. Abstract Book FEWFM-107 page 338.
13. Population density and habitat association of grey francolin (*Francolinus pondicerrenus*) in Tanda Dam Wildlife, District Kohat. 37th Pakistan Congress of Zoology (International) GCU Faisalabad. Abstract Book FEWFM-76 page 307.
14. Population size and habitat of Indian gazelle (*Gazella bennettii*) in Nizampur area, District Nowshehra, Pakistan. 37th Pakistan Congress of Zoology (International) GCU Faisalabad. Abstract Book FEWFM-75 page 306.
15. Seasonal variations in the diet of Endemic frog *Nanorana vicina* (Dicroglossidae). 37th Pakistan Congress of Zoology (International) GCU Faisalabad. Abstract Book FEWFM-73 page 304.
16. Population density and habitat association of Chukar partridge (*Alectoris Chukar*) in Kala Chitta National Park, District Attock. 37th Pakistan Congress of Zoology (International) GCU Faisalabad. Abstract Book FEWFM-71 page 303.
17. Human activity mediates reciprocal niche distribution and separation of two sympatric mongoose species in Pothwar Plateau. IUFRO Regional Congress for Asia and Oceania 2016, 24th to 27 October 2016, CNCC, Beijing, China. Abstract Book. Page 265.
18. Diversity and Nesting habitat of owl species inhabiting Margalla Hills National Park Islamabad. 36th Pakistan Congress of Zoology, Feb 16-18, 2016, University of Sind, Jamshoro. Abstract Book, FEWFM-61.page 210.
19. Diet of small Indian mongoose (*Herpestes javanicus*) inhabiting agro-ecosystem of district Salkot. 36th Pakistan Congress of Zoology, Feb 16-18, 2016, University of Sind, Jamshoro. Abstract Book, FEWFM-1.page 9.
20. Nesting use of plant species by avifauna inhabiting Pabbi Range, Kharian. 36th Pakistan Congress of Zoology, Feb 16-18, 2016, University of Sind, Jamshoro. Abstract Book, FEWFM-60.page 209.
21. Morphometric and burrows characteristics of the two mongoose species (*Herpestes javanicus* and *H. edwardsii*) from Pothwar plateau, Pakistan. 35th Pakistan Congress of Zoology, March 1-4, **2015**, University of Karachi, Karachi, Abstract Book, FEWFM-115.
22. Habitat preference of Indian pangolin (*Manis crassicaudata*) inhabiting Margalla Hills National Park, Islamabad, Pakistan. 35th Pakistan Congress of Zoology, March 1-4, **2015**, University of Karachi, Karachi, Abstract Book, FEWFM-147.
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28. Habitat characteristics and distribution of Asiatic Black bear (*Ursus tibetanus*) in Machiara National Park, AJ&K. 34th Pakistan Congress of Zoology, February 25-27, 2014, BZU Multan. Abstract Book, FEWFM-116, page No. 267
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38. Distribution, population and habitat of scaly ant-eater (*Manis crassicaudata*) in Margalla Hills National Park Islamabad, Pakistan. 33rd Pakistan Congress of Zoology, April 2 – 4, 2013, Pakistan Museum of Natural History Islamabad. Abstract Book, FEWFM-196, page No. 385.
39. Morphometrical and anatomical analysis of Indian pangolin (*Manis crassicaudata*) inhabiting Potohar Plateau, Pakistan. 33rd Pakistan Congress of Zoology, April 2 – 4, 2013, Pakistan Museum of Natural History Islamabad. Abstract Book, FEWFM-5, page No. 274.
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45. Distribution, Population and food habits of Indian pangolin (*Manis crassicaudata*) in Potohar Plateau, Pakistan. 2nd World Biodiversity Congress 2011, September 08-12, Four Points by Sheraton, Kuching, Sarawak, **Malaysia**. Abstract book, page 49.
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49. Population status of Snow leopard and its conflict with local people in Laspur Valley, Chitral, Pakistan. 31st Pakistan Congress of Zoology, Zoological Society of Pakistan. 19-21st April, 2011, University of Azad Jammu and Kashmir, Muzaffarabad. FEWFM-34, pp 188.
50. "Population Estimates, Food Habits and Habitat Preference of small Indian mongoose (*Herpestes javanicus*) in Potohar Plateau, Pakistan". 30th Pakistan Congress of Zoology, Zoological Society of Pakistan. 2-4 March., 2010, University of Agriculture Faisalabad, Faisalabad. FEWFM-4, pp 150.
51. "Study of Feeding habits of Barn Owl (*Tyto alba*) and Spotted Little Owl (*Athene brama*) inhabiting Ahmadpur Sharqia, District Bahawalpur, Pakistan". 30th Pakistan Congress of Zoology, Zoological Society of Pakistan. 2-4 March., 2010, University of Agriculture Faisalabad, Faisalabad. FEWFM-13, pp 156.
52. "Population Estimation and Habitat Evaluation of two Partridge species at Lehri Nature Park, District Jhelum". 30th Pakistan Congress of Zoology, Zoological Society of Pakistan. 2-4 March., 2010, University of Agriculture Faisalabad, Faisalabad. FEWFM-19, pp 159.
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55. "Histomorphological evidence in favor of protective role of ascorbic acid against chromium induced toxicity of the rat thyroid gland". 29th Pakistan Congress of Zoology, February 24 to 26, 2009, University of Sindh, Jamshoro. CBGP-9, pp.5.
56. "Ultra structural changes in the rat thyroid following administration of hexavalent chromium". 28th Pakistan Congress of Zoology (International), March 18 – 20, 2008, GC University Faisalabad, CBGP-11, pp.7.
57. "Profile of reproductive hormones during the year in the male and female birds (Houbara bustard)." 23rd Pakistan Congress of Zoology (International). March 3 – 5, 2003, University of Arid Agriculture, Rawalpindi. CBGP-15, pp. 8.
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❖ Travel History-International (Abroad)

Sr. No.	Dates/ Year	Country/City Visited	Purpose	Sponsor
1	05 th August to 12 th August, 2018	Bishkek, Kyrgyzstan Republic	To participate in the Conference "Conservation Asia 2018"	HEC Islamabad vide letter No. 296.186/TG/R&D/HEC/2017/26623 dated July 13 th 2018
2.	July 23 to August 02, 2018	Cambridge, United Kingdom	To attend IUCN Pangolin Specialist Group Workshop	IUCN Pangolin Specialist Group, United Kingdom
3.	October 03- 08, 2017	Turkey, Istanbul, Canakkale.	ISEEP 2017 VIII International Symposium on Ecology and Environmental Problems	HEC Islamabad vide letter No. 275.81/TG/R&D/HEC/2017/22836 dated 31st August 2017.
4	October 23-28, 2016	China, Beijing	IUFRO Regional Congress for Asia and Oceania for Sustainable development: The Role of research	HEC Islamabad vide letter No. 254.93/TG/R&D/HEC/2016/19848 dated 20-09-2016
5	August 18-24, 2014	Malaysia, Melaka	SCB Asia 2014	Society for Conservation Biology-Asia Section
6	Nov.12, 2012 to	Malaysia	Post-Doctoral Study: at	Strengthening of Department of

	April 10, 2013		University of Nottingham Malaysia Campus, Jalan Broga, Semenyih, Kajang, Malaysia.	Wildlife Management, PMAS- Arid Agriculture University Rawalpindi through HEC Islamabad.
7	September 08-12, 2011	Malaysia, Kuching	2 nd World Biodiversity Congress held at Kuching, Sarawak, Malaysia	HEC Islamabad vide letter No. 140.46/1/HEC/R&D/2011 dated 13-08-2011.

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Chapter in a Book Published

Published a Chapter titled, “**Indian pangolin (*Manis crassicaudata*)** in the Book titled, “**Pangolins: Science, Society and Conservation**” published by Academic Press Elsevier on December 26, 2019.

Reviewer of the Research Journals

- *Mammalia*, France; De Gruyter Publishers
- *Turkish Journal of Zoology*, Published by Scientific and Technological Research Council of Turkey (TUBITAK)
- *Animal Biology*; Journal of the Royal Dutch Zoological Society; Brill Publishers
- *PLoS ONE*; Open access scientific Journal published by Public Library of Sciences
- *The Journal of Animal and Plant Sciences (JAPS)* Published by Pakistan Agricultural Scientists Forum
- *International Journal of Biodiversity and Conservation*; Academic Journals
- *Global Ecology and Conservation*

REFERENCES

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