

Curriculum Vitae



Name : Parvaze Ahmad Wani
H-index : 27
I10-index : 44
Google Scholar Citations : 6309
State of origin : Jammu and Kashmir

Permanent Address

House No. 44, Faizabad Colony, Naikbagh, Natipora, Srinagar, Kashmir-190015

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Corresponding Address

Centre of Research for Development and PG Programme in Microbiology, University of Kashmir, Srinagar, India

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Area of Specialization

My area of specialization is environmental microbiology

I teach all the courses of microbiology particularly environmental

My search work is on bioremediation of pollutants in industrial wastes by using microbes

Educational Qualification

Ph. D. (Microbiology) –Aligarh Muslim University, Aligarh, India in the year 2008

M.Sc (Microbiology) - with first division from Aligarh Muslim University, Aligarh in year 2002

B.Sc (Agriculture)-from Dr. B.R. Ambedkar University, Agra 1998

Qualified NET conducted by Agricultural Scientists Recruitment Board of India

Academic Position and Experience:-

| | |
|---|---|
| Faculty (C), Centre of Research For Development and PG Programme in Microbiology, University of Kashmir, Srinagar, Kashmir, India | 08-07-2022 till date |
| Associate Professor of Microbiology, Department of Biological Sciences, Crescent University, Abeokuta, Ogun State, Nigeria | 01-10-2014 to -07-07-2022 |
| Senior Lecturer of Microbiology, Biological Sciences, Crescent University, Abeokuta, Ogun State, Nigeria | 1 st of October, 2010-30 th September, 2014 |
| Lecturer 1 of Microbiology, Biological Sciences, Crescent University, Abeokuta, Ogun State, Nigeria | 01 December, 2009-30 th of September, 2009 |
| Post doctoral fellow, Baba Sahib Bhim Rao Ambedkar University, Lucknow, India | 01 May, 2009- 30 November, 2009 |
| Post doctoral fellow, Division of Microbiology, Indian Agricultural Microbiology Research Institute, N. Delhi, India | 01 September 2008-30 May, 2009 |

Projects Handled

1. Boosting Research Capability and Introducing Instrumental Laboratory for College of Natural and Applied Sciences (P.I), Crescent University, Abeokuta, Nigeria (P.I)
Funding Agency: Islamic Development Bank
Cost of Project: 200000.00 USD
2. Establishment of Microbiology laboratory for M.Sc programme in the field of microbiology at Crescent University, Abeokuta, Ogun State, Nigeria (P.I)
Funding Agency: Crescent University
Cost of Project: 50000.00 USD
3. Awarded post doctoral project by University Grants Commission of India in 2009 (PI)
Funding Agency: University Grants Commission of India
Cost of Project: Rs. 338000.00
4. Award of Research Grant by Federal Ministry of Science and Technology Nigeria as PI in Microbial Sciences in July, 2018
Funding Agency: Federal Ministry of Science and Technology Nigeria
Cost of Project: 45833.33 US Dollars

Awards, Honors and Scholarships

Awarded young scientist award by Jammu and Kashmir Govt. India, for the year 2007

Awarded Post doctoral fellowship by University Grants Commission of India

Best Teacher ward, Crescent University, beokuta, Nigeria

Publications

Research Papers in national and International Journals : 47
Review Article in International Journal : 04
Book chapters : 12
Books : 03

List of publications

Research Articles

1. **Parvaze Ahmad Wani**, Grace AT, Omobolanle AW, AmaBM, Ishaq MA, Wani A, Jan N, Oluwaseun OI (2024). Anti-microbial, Anti-diabetic and Anti-quorum Sensing Activity of the Essential Oil of *Dialium guineense* Willd. Grown in South-West Nigeria. *Essential Oil Bearing Plants*. Accepted. **IF 2.4**
2. **Parvaze Ahmad Wani**, Yusuff Kareem Olusebi, Uzma Wani, Nusrat Rafi, Mohd Sajjad Ahmad Khan (2024) Role of Chromium Reductases, Antioxidants and Biosorption Against Oxidative Damage of Metals by *Bacillus cereus*. *Journal of Basic Microbiology*. 1-11. DOI: 10.1002/jobm.202300589. **IF 3.1**
3. Burhan Hamid, Neesa Majeed, Bashir Ahmad Ganai, Shahnawaz Hassan, Zaffar Bashir, **Parvaze Ahmad Wani**, Kahkashan Perveen, R. Z. Sayyed (2023) Heavy metal tolerant bacterial strains isolated from industrial sites and scrap yards in Kashmir, India. *Journal of Basic Microbiology*. 63: 1361-1372. **IF 3.1**
4. **Parvaze Ahmad Wani**, Yusuff K. Olusebi, Bello A. Rilwan (2023) Remediation of hydrocarbons and metals by hydrocarbon utilizing *Pseudomonas taiwanensis* YSA-17 isolated from soil contaminated with petroleum. *Journal of Basic Microbiology*. 63: 1426-1439. **IF 3.1**
5. **Parvaze Ahmad Wani**, Adebimpe Nusirat Ebudola, Yusuff Kareem Olusebi, Nusrat Rafi, Sanusi Jadesola Fawzhia O & Oyelami Isaac Oluwaseun (2023). Hydrocarbon Utilizing and Metal Tolerant Bacteria Simultaneously Degrade Hydrocarbons and Detoxify Metals in Petroleum Contaminated Soil. *Geomicrobiology Journal*. 40 (4): 372-381. **IF 2.412**
6. **Parvaze Ahmad Wani**, Nusrat Rafi, Uzma Wani, Hashirudeen Bilikis A (2023). Simultaneous Bioremediation of Heavy Metals and Biodegradation of Hydrocarbons by Metal Resistant *Brevibacillus parabrevis* OZF5 Improves Plant Growth Promotion. *Bioremediation Journal*. 27 (1): 20-31. **IF 2.14**
7. **Parvaze Ahmad Wani**, Abiodun AA, Olusesi YK, Rafi N, Wani U, Oyelami IO, Sirajudeen AAO (2022). Hydrocarbon Degradation and Metal Remediation by Hydrocarbon-Utilizing and Metal-Tolerant *Klebsiella pneumoniae* YSA-9 Isolated from Soil Contaminated with Petroleum. *Chemistry and Ecology*. 38 (8): 744-759. **IF 2.38**
8. Gousia Gani, Malik Asif, **Parvaze Ahmad Wani**, Mushtaq Ah. Malik, Zaffar Mahdi Dar, Amjad Masood and Saima Shafi (2021). Chlorpyrifos degradation, biocontrol potential and antioxidant defence activation under pesticide stress by rhizosphere bacteria isolated from rhizosphere of peach (*Prunus persica*) plants. *Chemistry and Ecology*. doi.org/10.1080/02757540.2021.1985475. **IF 2.38**
9. **Parvaze Ahmad Wani**, Yusuff Kareem Olusesi, Arogundade Obafemi Lamiji, Mohd Sajjad Ahmad Khan, Somit Roy Chowdhury (2020). Bacterial Biosorbents and Biotransformers Stimulates Plant Growth Promotion By Activation of Defense Mechanism and Nutrient Uptake. *Geomicrobiology Journal* (Taylor and Francis). 37(10): 950-960. **IF 2.412**
10. **Parvaze Ahmad Wani**.; Wahid, S.; Rafi, N.; Uzma W. 2020. Role of NADH-dependent chromium reductases, exopolysaccharides and antioxidants by *Paenibacillus thiaminolyticus* PS 5 against damage induced by reactive oxygen species. *Chem. Eco*. Taylor and Francis, doi.org/10.1080/02757540.2020.1770736. **IF 2.38**
11. **Parvaze Ahmad Wani**, Garba SH, Wahid S, Hussaini NA, Mashood KA (2019). Prevention of oxidative damage and phytoremediation of Cr (VI) by chromium (VI) reducing *Bacillus subtilis* PAW3 in cowpea plants. *Bull. Env. Contaim. Toxicol.* (Springer), 103 (3): 476-483. doi.org/10.1007/s00128-019-02683-1. **IF 2.807**
12. **Parvaze Ahmad Wani**, Shazia Wahid, Mohd Sajjad Ahmad Khan, Nusrat Rafi, Nazia Wahid (2019) Investigation of the role of chromium reductase for Cr (VI) reduction by *Pseudomonas* sp. isolated from Cr (VI) contaminated effluent. *Biotechnology Research and Innovation* (Elsevier). 3: 38-46. **Scopus Indexed**
13. **Parvaze Ahmad Wani**, Olaoye Felix Adesina, Shazia Wahid, Oladapo Rahman Salami, Neelofar Jan (2019). Antioxidant Phytochemical Screening and Antimicrobial Activity of *Ficus exasperata* Against Pathogens in Nigeria. *Asian Journal of Biological Sciences*. DOI: 10.3923/ajbs.2019.
14. **Parvaze Ahmad Wani**, Hussaini NA, Garba SH, Wahid S, Damilola FK, Adebowale Abiodun Adeola AA, Wasiu IA (2018). Prospective of chromium (VI) reduction under *in vitro* and *in vivo* conditions and stimulation of antioxidant defense of Cowpea under the exposure of Cr (VI). *Applied Soil Ecology* (Elsevier). doi.org/10.1016/j.apsoil.2018.07.012. **IF 5.509**
15. **Parvaze Ahmad Wani**, Tolu AM, Wahid S (2018). Antioxidant, antimicrobial and antibiotic resistance modifying effect of *Heliotropium indicum*. *Biocatalysis and Agricultural Biotechnology* (Elsevier). 15: 113-118. **IF 4.0**
16. **Parvaze Ahmad Wani**, Wani JA, Wahid S (2018). Recent advances in the mechanism of detoxification of genotoxic and cytotoxic Cr (VI) by microbes. *Journal of Environmental Chemical Engineering* (Elsevier). 6: 3798-3807. **IF 7.968**
17. **Parvaze Ahmad Wani**, Wahid S, Singh R, Kehinde AM (2018). Antioxidant and chromium reductase assisted chromium (VI) reduction and Cr (III) immobilization by the rhizospheric *Bacillus* helps in the remediation of Cr (VI) and growth promotion of soybean crop. *Rhizosphere* (Elsevier). 6: 23-30. **IF 3.437**
18. **Parvaze Ahmad Wani**, Sunday OO, Kehinde AM, Oluwaseyi LA, Wasiu IA, Wahid S (2017). Antioxidants and chromium reductases by *Penibacillus* species enhance the growth of soybean under chromium stress. *International Journal of Environmental Sciences and Technology* (Springer). 15 (7): 1531-1542. **IF 3.519**
19. **Parvaze Ahmad Wani**, Olamide AN, Wasiu IA, Rafi N, Wahid S (2017). Effect of *Brevibacillus brevis* OZF6 on the reduction of chromium (VI) and pea growth. *Advances in Research*. 9 (3): 1-10. **NAAS Rating 4.80**
20. Wahid S, **Wani PA**, Wahid N, Jan N (2016). Hepatoprotective activity of *Nigella sativa* oil against Antitubercular drug-induced Hepatotoxicity in Rats. *Journal of Advances in Medical and Pharmaceutical Sciences*. 11 (1): 1-8. **NAAS Rating 2.84**
21. **Parvaze Ahmad Wani**, Olamide AN, Wasiu IA, Rafi N, Wahid S, Sunday OO (2016). Sodium alginate/polyvinyl alcohol immobilization of *Brevibacillus brevis* OZF6 isolated from the industrial waste water of Abeokuta, Ogun State, Nigeria and its role in the removal of toxic chromate. *Biotechnology Journal International Formerly British Biotechnology Journal*. 15 (1): 1-10. **NAAS Rating 4.65**

22. **Parvaze Ahmad Wani.**, Zainab, IO. (2016). Effect of chromium (VI) reducing *Bacillus* species PZ3 on the growth of pea plants in chromium amended soil. *Research Journal of Environmental Toxicology*. 10: 144-151.
23. **Parvaze Ahmad Wani**, Adeosun Bukola Omozele, Idris Adegbite Wasiu and Kuranga Oluropo Jamiu (2015). Cr (VI) reduction by indigenous *Bacillus* species PB5 isolated from contaminated soil of Abeokuta, Ogun State, Nigeria. *International Journal of Soil Science*. 10: 203-210.
24. **Parvaze Ahmad Wani** and Adeosun Bukola Omozele (2015). Cr (VI) Removal by Indigenous *Klebsiella* species PB6 isolated from contaminated soil under the influence of various factors. *Current Research in Bacteriology*. 8 (3): 62-69.
25. **Parvaze Ahmad Wani** and Oguniyi Haruna Ayoola (2015). Bioreduction of Cr (VI) by heavy metal resistant *Pseudomonas* species. *Journal of Environmental Science and Technology*. 8:122-130
26. **Parvaze Ahmad Wani.**, Zainab, IO., Wasiu, ID and Jamiu, KO (2015). Chromium (VI) reduction by *Streptococcus* species isolated from the industrial area of Abeokuta, Ogun State, Nigeria. *Research Journal of Microbiology*. 10: 66-75
27. **Parvaze Ahmad Wani** and Onukwue Ijeoma Irene (2014). Screening of Microbes for Their Metal, Antibiotic Resistance and Plant Growth Promoting Activity. *Current Research in Bacteriology*. 7:22-31
28. **Wani, PA.**, Khan, MS (2014). Screening of multiple metal and antibiotic resistant isolates and their plant growth promoting activity. *Pak. J. Biological Sciences*. 17: 206-212. **IF 1.036**
29. **Wani, PA.**, Khan, MS (2013). Nickel detoxification and plant growth promotion by multi metal resistant plant growth promoting *Rhizobium* species RL9. *Bulletin of Environmental Contamination and Toxicology*. 91:117-124. **IF 2.807**
30. **Wani, PA., Khan, MS** (2013). Isolation of multiple metal and Antibiotic resistant *Mesorhizobium* species and their plant growth promoting activities. *Research Journal of Microbiology*. 8: 25-35.
31. **Wani, PA.**, Khan, MS (2012). Bioremediation of lead by plant growth promoting *Rhizobium* species RL9. *Bacteriology Journal*. 2: 66-78
32. **Wani, PA.**, Khan, MS (2010). *Bacillus* species enhance growth parameters of chickpea (*Cicer arietinum* L.) in chromium stressed soils. *Food and Chemical Toxicology*. 48: 3262-3267. **IF 5.572**
33. Mohammad Saghir Khan, Almas Zaidi, Munees Ahemad, Mohammad Oves, **Pervaze Ahmad Wani** (2010). Plant growth promotion by phosphate solubilizing fungi – current perspective. *Archives of Agronomy and Soil Science*. 56, 73-98. **IF 2.242**
34. **Parvaze Ahmad Wani**, Almas Zaidi and Md. Saghir Khan (2009). Chromium Reducing and Plant Growth Promoting Potential of *Mesorhizobium* Species under Chromium Stress. *Bioremediation Journal*. 13:3,121 — 129. **IF 2.140**
35. Khan, MS, Zaidi, A, **Parvaze Ahmad Wani** (2009). Role of plant growth promoting rhizobacteria in the remediation of metal contaminated soils. *Environ. Chem. Lett*. 7: 1-19. **IF 13.615**
36. **Parvaze Ahmad Wani**, Md. Saghir Khan and Almas Zaidi (2008). Effects of Heavy Metal Toxicity on Growth, Symbiosis, Seed yield and Metal Uptake in Pea Grown in Metal Amended Soil. *Bull. Environ. Contam. Toxicol*. 81 (2): 152-158. **IF 2.807**
37. **P. A. Wani**, Md. Saghir Khan and Almas Zaidi (2008). Chromium-reducing and plant growth promoting *Mesorhizobium* improves chickpea growth in chromium amended soil. *Biotechnology Letters*, 30, 159-163. **IF 2.716**.
38. **Parvaze Ahmad Wani**, Md. Saghir Khan and Almas Zaidi: (2008). Effect of metal tolerant plant growth promoting rhizobium on the performance of pea grown in metal amended soil. *Arch. Environ. Contam. Toxicol*. 55, 33-42. **IF 3.692**
39. **Parvaze Ahmad Wani**, Md. Saghir Khan and Almas Zaidi (2008). Impact of zinc tolerant and plant growth promoting rhizobacteria on the performance of lentil grown in zinc amended soil. *Agr. Sustain. Dev*. 28:449-455. **IF 7.832**
40. **P.A. Wani**, Md. Saghir Khan and A. Zaidi (2007). Co-inoculation of nitrogen fixing and phosphate solubilizing bacteria to promote growth, yield and nutrient uptake in chickpea. *Acta Agronomica Hungarica*. 55: 1-9
41. **Parvaze Ahmad Wani**, Md. Saghir Khan and A. Zaidi (2007) Effect of metal tolerant plant growth promoting Bradyrhizobium sp. (vigna) on growth, symbiosis, seed yield and metal uptake by greengram plants. *Chemosphere*, 70, 36-45. **IF 8.943**
42. **Parvaze Ahmad Wani**, Md. Saghir Khan and A. Zaidi (2007) Chromium Reduction, Plant Growth Promoting Potentials and Metal Solubilization by *Bacillus* Sp. Isolated from alluvial soil. *Current Microbiology* 54: 237-243. **IF 2.343**
43. **P.A. Wani**, Md. Saghir Khan and A. Zaidi (2007) Synergistic effects of the inoculation with nitrogen fixing and phosphate solubilizing rhizobacteria on the performance of field grown chickpea. *Journal of Plant Nutrition and Soil Science*. 170: 283-287. **IF 2.566**
44. **P.A. Wani**, Md. Saghir Khan and A. Zaidi (2007) Impact of heavy metal toxicity on plant growth, symbiosis, seed yield and nitrogen and metal uptake in chickpea. *Australian Journal of Experimental Agriculture* 47, 7: 712-720. **IF 1.533**
45. **P.A. Wani**, Md. Saghir Khan and A. Zaidi (2007) Cadmium, Chromium and Copper in greengram plants. *Agronomy for Sustainable Development*. 27: 145-153. **IF 7.832**
46. Md. Saghir Khan, A. Zaidi and **P.A. Wani** (2007) Role of phosphate solubilizing microorganisms in sustainable agriculture- A Review. *Agronomy for Sustainable Development*. 27: 29-43. **IF 7.832**
47. Md. Saghir Khan, A. Zaidi and **P.A. Wani** (2006). Determination of antagonistic potentials of *Azotobacter* against fungal phytopathogens. *Annals of Plant Protection Sciences*. 14: 492-494, **NAAS Rating 4.11**
48. **P. A. Wani**, Md. Saghir Khan and A. Zaidi (2006). Evaluation of the effects of heavy metals on the growth, seed yield and grain protein of lentils in pots. *Tests of Agrochemicals and cultivars*. 27: 23-24, **IF 2.766**
49. Md. Saghir Khan, Chaudhry P, **Wani P. A.** Zaidi A (2006). Biotoxic effects of the herbicides on growth, seed yield and grain protein of greengram. *Journal of Applied Sciences and Environmental Management*. 10: 141-146
50. A. Zaidi , Md. Saghir Khan and **P. A Wani** (2005). Evaluation of effects of herbicides on greengram (*Vigna radiata* (L.) Wilczek) in a pot trial. *Annals of Applied Biology (Suppl. Test of Agrochemicals and Cultivars)*. 26: 18-19, **IF 2.766**

51. **Pervaiz A Wani**, A. Zaidi, A. A. Khan and Md Saghir Khan (2005) Effect of phorate on phosphate solubilization and Indole Acetic Acid (IAA) releasing potentials of rhizospheric microorganisms. *Annals of Plant Protection Sciences* 13: 139-144, **NAAS Rating 4.11**

Book chapters

1. **Parvaze Ahmad Wani**, Khan MS, Zaidi A (2012). Toxic Effects of Heavy Metals on Germination and Physiological Processes of Plants. In: *Toxicity of Heavy Metals to Legumes and Bioremediation*. Zaidi A, Wani PA, Khan MS (Editors), Springer-Verlag/Wien. pp. 45-66
2. Mohammad Saghir Khan, Zaidi A, **Wani PA** (2012). Chromium–Plant-Growth Promoting Rhizobacteria Interactions: Toxicity and Management. In: *Toxicity of Heavy Metals to Legumes and Bioremediation*. Zaidi A, Wani PA, Khan MS (Editors), Springer-Verlag/Wien. pp.67-88
3. Almas Zaidi, **Wani PA**, Khan MS (2012) Bioremediation: A Natural Method for the Management of Polluted Environment. In: *Toxicity of Heavy Metals to Legumes and Bioremediation*. Zaidi A, Wani P A, Khan MS (Editors), Springer Verlag/Wien. pp. 101-114
4. Mohammad Saghir Khan, Almas Zaidi, **Parvaze Ahmad Wani** and Mohammad Oves (2010). Role of Plant Growth Promoting Rhizobacteria in the Remediation of Metal Contaminated Soils: A Review. In E. Lichtfouse (ed.), *Organic Farming, Pest Control and Remediation of Soil Pollutants, Sustainable Agriculture Reviews* 1, 319-350, ISBN 978-1-4020-9653-2 (Print) 978-1-4020-9654-9 (Online) DOI 10.1007/978-1-4020-9654-9 15, Springer Science+Business Media B.V. 2010.
5. **Parvaze Ahmad Wani**, Geeta Singh (2009). Phosphate solubilizing microorganisms for augmenting crop nutrition. In: Khan, MS and Zaidi, A (eds.), *Phosphate solubilizing microbes for crop improvement*. Nova scientific publishers, New York, USA. pp 337-356. ISBN: 978-1-60456-929-2
6. Mohammad Saghir Khan, Almas Zaidi, **P. A. Wani**, Munees Ahemad, Mohammad Oves (2009). Functional Diversity Among Plant Growth-Promoting Rhizobacteria: Current Status. In: Khan, MS et.al (eds.), *Microbial Strategies for Crop Improvement*. DOI: 10.1007/978-3-642-01979-1_6, Springer Verlag Berlin Heidelberg, pp. 105-132, ISBN: 978-3-642-01979-1
7. Mohammad Saghir Khan, Almas Zaidi and **Parvaze Ahmad Wani** (2008). Role of Phosphate Solubilizing Microorganisms in Sustainable Agriculture. In: Khan, MS (eds.) *Role of microbes in sustainable agriculture*. Nova scientific publishers, USA. Pp 1-30. ISBN: 978-1-60456-929-2
8. Almas Zaidi, Md. Saghir Khan and **Pervaze Ahmad Wani** (2008). Bioremediation Of Heavy Metals By Plant Growth Promoting rhizobacteria.. In: Khan, MS (eds.) *Role of microbes in sustainable agriculture*. Nova scientific publishers, USA, pp. 55-90. ISBN: 978-1-60456-929-2
9. **Pervaze Ahmad Wani**, Mohammad Saghir Khan, Almas Zaidi (2008). Rhizoremediation Of Heavy Metals By Symbiotic Nitrogen Fixing microorganisms. In: Khan, MS (eds.) *Role of microbes in sustainable agriculture*. Nova scientific publishers, USA. Pp. 183-206. ISBN: 978-1-60456-929-2.
10. Ahemad M, Khan MS, Zaidi A, **Wani PA** (2009) Remediation Of Herbicides Contaminated Soil Using Microbes; In: *Microbes in sustainable Agriculture*, Khan MS, Zaidi A, Musarrat J (Editors), Nova Publishers, ISBN:978-1-60456-929-2, pp.261-284
11. Zaidi A, Khan MS, **Wani PA**, Ahemad M, Oves M (2009) Recent Advances in Plant Growth Promotion by Phosphate-Solubilizing Microbes: In: *Microbial Strategies for Crop Improvement*, Khan MS, Zaidi A, Musarrat J (Editors), Springer Berlin Heidelberg, pp. 23-50, ISBN: 978-3-642-01979-1
12. **Pervaze Ahmad Wani** (2023). Rhizoremediation Of Heavy Metals By Symbiotic Nitrogen Fixing microorganisms. In: Khan, MS (eds.) *Role of microbes in sustainable agriculture*. Nova scientific publishers, USA. Pp. 183-206. ISBN: 978-1-60456-929-2.

Books

1. **Parvaze Ahmad Wani**, Olamide AN, Zainab JY (2016). *Bioremediation of Cr (VI) by bacteria from the industrial effluent*. Lambert Academic publishers, Germany, ISBN 9783659974786.
2. A. Zaidi, **Parvaze Ahmad Wani** and M. Saghir Khan (2012). *Toxicity of Heavy Metals to Legumes and Bioremediation*. Springer, USA, ISBN 9783709107294
3. **Parvaze Ahmad Wani** (2011). *Heavy metal toxicity and their bioremediation potential by soil microbes*. Lambert Academic publishers, Germany, ISBN 978-3-8454-0447-9

Book of Proceedings Edited

1. Parvaze Ahmad Wani (2017). *Proceedings of the First National Conference in Bioscience and Sustainability 2017*. Pp. 01-62.