

Resumé



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NAME : **DAVE SHAILESH RAMKRASHNA**
DATE OF BIRTH : March 19, 1953
PLACE OF BIRTH : Virpur, Ta. Balasinor, Gujarat, India.
PRESENT DESIGNATION : Director, School of Sciences
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ACADEMIC QUALIFICATION

EXAM	DIVISION	UNIVERSITY	YEAR	SUBJECT	MARKS (%)
B.Sc.	First	Gujarat	1973	Microbiology	63.5
M.Sc.	Second	Gujarat	1976	Microbiology	55.0*
Ph.D.	-	Mysore	1981	Microbiology	-

* : First in the University

Ph. D. Thesis, "Microbiological and bioleaching studies on metallurgical bacteria cultured from Indian sulphidic mine waters".

(1st Ph.D. awarded in India in the field of Bioleaching)

Ph.D. Guide: Late Prof. J. V. Bhatt

APPOINTMENTS HELD

	Position	Institute	From	To
1.	Student teacher	J & J College, Nadiad, Guj. Univ.	1.8.75	15.3.76
2.	Malarial Supervisor	N.M.E.P. Unit, Himmatnagar	25.8.76	5.10.76
3.	Senior Research Assistant	Gujarat Agriculture University Junagadh	6.10.76	31.5.77
4.	Senior Research Fellow	K.R.E.C., Mangalore	1.6.77	20.2.80
5.	Lecturer	M.V.M. College, Saurashtra University, Rajkot	28.8.80	14.6.82
6.	Lecturer	Gujarat University, Ahmedabad.	15.06.82	12.07.89
7.	Reader	Gujarat University, Ahmedabad	13.07.89	29.03.96
8.	Reader and Head	Gujarat University, Ahmedabad	30.3.96	6.10.98

9.	Professor and Head	Gujarat University, Ahmedabad	7.10.98	Till date
10.	Co-ordinator, Biotechnology	JNU	26.1.05	14.6.07
11.	Co-ordinator, Biotechnology	Gujarat University, Ahmedabad	15.6.05	Till date
12.	Co-ordinator, Clinical Research	Gujarat University, Ahmedabad	15.6.10	Till date
13.	Director, School of Sciences	Gujarat University, Ahmedabad	22.8.13	Till date

PROFESSIONAL AFFILIATION

1. **Fellow member**
 1. The Academy of Environmental Biology (no.254, 8.11.1993), India (FAEB)
 2. Gujarat Science Academy (FGSA)
 3. Biotech Research Society of India (FBRSI)
 4. International Society of Biotechnology (F.I.S.B.T.)
 5. Society for Applied Biotechnology (FSAB)
 6. Indian Academy of Microbiological Sciences of India (FIAMS)
2. **Life member**
 1. Association of Microbiologists of India (AMI Life Member no.482)
 2. Indian Association of Water Pollution Control
 3. Society for Science and Environment Academy of Ayurveda Development and Research (AADAR)
 5. Biotech Research Society of India
Society for Applied Biotechnology
3. **Member** : New York Academy of Science, U.S.A.
International Accreditation Organization, U.S.A
4. **Member of Editorial Board**
 1. Indian Journal of Microbiology
 2. Journal of Environmental Biology
 3. Journal of Microbial World
 4. J. Pollution Research
 5. Research Journal of Biotechnology
 6. International Journal of Nonferrous Metallurgy
 7. Material Science and Engineering Progress (MSEP), Engineerspress, since 2013
5. **Council Member** : Association of Microbiologists' of India, 2006-2011
6. **Senate member** : Gujarat University, 2006-2011
7. **Syndicate member** : Gujarat University, 2010-2012
8. **Academic Council Member** : Gujarat University (4 times), Gujarat Forensic

- Sciences University (2012-15)
9. **Chairman - Board of Studies** : Microbiology, Gujarat University, since 2001
(5 times)
10. **Reviewer in International Journals** : 15
11. **Co-ordinator** : For Life Sciences (B.Sc. 1st Year, Phase –II) for Countywide Classroom UGC/CEC ETV Project, EMRC, Ahmedabad from Feb. 2013

ACADEMIC ACTIVITIES

1. **M. Phil Students** : 48 (degree in Microbiology awarded)
05 (degree in Bioinformatics awarded)
03 (working)
2. **Ph.D. Students** : 26 (degree awarded)
02 (submitted thesis)
11 working for Ph.D.
3. **Specialized research area** : Bioleaching, Bioremediation, Enzyme production, Acid mine drainage
Waste water treatment, Biogas production
Environmental microbiology
Extremophiles with reference to Acidophiles, Thermophiles, Halophiles
Microbial diversity, Biofertilizer

4. Research Projects Completed : Total cost Rs. **239.862 lakhs**

No.	Funding Agency	Title	Cost (Rs. In lakhs)	From	Upto
i	<i>U.G.C.</i>	Biohydrometallurgical application of sulphur bacteria cultured from thermal spring of Gujarat	0.07	25.6.86	24.6.88
ii	<i>U.G.C.</i>	Biotechnology and decontaminating of metal containing sludge	0.50	8.8.91	7.8.92
iii	<i>U.G.C.</i>	Processing of complex sulphidic minerals by biohydrotechnology	1.80	28.2.90	27.2.93
iv	<i>GMDC</i>	Bioleaching of G.M.D.C. concentrate	4.0	22.12.93	21.12.96
v	<i>GMDC</i>	Scale-up of bioleaching process	10.0	22.12.96	21.12.2000
vi	<i>GMDC</i>	Two stage bioleaching process for polymetallic concentrate	10.0	22.12.2000	21.12.04

vii	SRISTI (I.I.M.)	Soil microbial diversity of Tharad region	2.0	17.11.97	16.11.99
viii	SRISTI-UNDP/GEF Project (I.I.M.)	Soil microbial diversity of Balaram and Jessore sanctuaries	2.0	22.6.99	21.6.2000
ix	DBT	Inventory of microbial resources of India	1.29	6.2.02	31.3.03
x	DBT	Microbial diversity of Indian mines with reference to iron and sulphur oxidizers	20.85	6.10.99	6.10.02
xi	DBT	Biotransformation of arsenic and arsenopyrite and its application (BT/PR4595/BCE/08/323/2003)	19.25	5.10.04	30.4.08
xii	GSBTM	Studies on biotechnology of heavy metals	24.0	1.4.05	30.9.09
xiii	DST	Microbiology of Rajpardi lignite mine of Gujarat and its environmental and commercial applications	17.78	20.12.05	19.12.10
xiv	GMDC	Bioleaching of base metal concentrate by <i>Leptospirillum ferrooxidans</i>	20.0	26.3.07	19.6.12
xv	Krishi Vikas Kendra	Development of biofertilizer strains	1.30	1.7.06	31.3.07
xvi	GSBTM	Biotechnological recovery of metals from selected e-waste	19.97	6.4.11	5.4.14
xvii	DST (WOS) (Mentor)	Isolation and characterization of organic solvent tolerant lipolytic enzymes	23.80	9.3.11	8.3.14
xviii	DST (WOS) (Mentor)	Biodegradation of acidic azo dyes and their industrial waste	14.76	3.3.11	2.3.14
xix	UGC PDF to SC/ST candidate (Mentor)	Enhancement of biodegradation by molecular manipulation in dye degrading bacteria	5.592	1.7.11	30.6.13
xx	DBT BioCARE (Mentor)	Biotransformation of castor oil into desired fatty acids for their uses and applications	22.10	23.7.12	22.7.15
xxi	GSBTM (Mentor)	Bacterial diversity study of thermal springs of Gujarat and screening of selected	18.805	4.3.13	3.3.16

	thermozymes				
xxii	DBT BioCARE (Mentor)	Microbial production of bioactive compound stilbenes: resveratrol, viniferin, picied and Ampelopsin	29.997	9.9.13	8.9.16
xxiii	DST WoS	Bacterial degradation of selected metal complex acid dyes and its effluent	9.20	3.3.14	2.3.17
xxiv	Ministry of Earth Sciences (ESSO)	Prokaryotic diversity and metal fluxes at selected site of Saurashtra and Gulf of Khambhat coastal ecosystem	43.996	3.3.14	2.3.17

5. Resource Person, Teacher and Expert in

Refresher courses 20

National and international workshops 12

Symposiums 15

6. Awards

- **Hari Om Ashram**
- **Bioresource Technology Top Reviewer in 2008**
- **Selected for Rishtriya Gaurav Award, 2009**

7. **Best paper awards in conference** 15

8. Organized Conference (Organizing secretary)

1. National Symposium on Microbial Diversity in Sustainable Development, March 1-2, 2003
2. Regional Symposium on Microbial Biotechnology, January 22-23, 2005
3. Regional Conference on Microbial Technology for Sustainable Environment, March 2-3, 2009.
4. National Seminar on Bioinformatics in Microbial Diversity, March 4, 2012

9. **Organized Refresher Course** 1st Refresher Course in Microbiology, January 11-31, 1999.

10. **Ph.D. thesis evaluated** 16

11. **Research Papers evaluated** 65

12. **Major research projects evaluated** 12 (UGC, DST, DBT, CSIR)

- 13. Formulation and revision of Syllabus** B. Sc., M.Sc., M. Phil for Guj. Uni, Hemchandracharaya North Guj. Uni., IGNOU, Saurashtra Uni, S.P. Uni., Nirma University, Guj. Vidhyapeeth

Specialised academic and research activity

- Member of UGC X Plan Committee for Bombay University
- DBT nominee Member in GMO Biosafety Committee for Industry and Academics, IBSCs, since 2009
- Expert for Biobleaching Consortium of India
- Chairman, Board of Studies, Microbiology, Gujarat University,
- Member, Board of Research, Saurashtra University
- Advisory, Academics and Research, Gujarat Vidhyapith
- Ph.D. Guide at Gujarat University, Saurashtra University, Gujarat Vidhyapith, Swami Ramanand Teerth Marathawada University
- Institutional Nodal Co-ordinator, BIT^{Virtual} M.Phil. Bioinformatics Programme, GSBTM, Gandhinagar
- M.Phil. Guide for Bioinformatics, Saurashtra University
- UGC and INSA sponsored in winter school : 18.10.82 to 6.11.82, Pune
- Visiting fellowship under UGC scheme at Saurashtra University: 27.10.88 to 4.11.88
- UNESCO sponsored course, Pune : 26.12.88 to 6.01.89
- Actively involved in Guj. Biological Society's activities such as organizing seminars, quiz, essay writing for school and college students.
- Session Chair person at Int. Conference on New horizons in Biotechnology and 8th Annual Convention of BRSI, Trivendrum, Nov. 21-24, 2011.
- Advisory Committee Member of UGC-DSA-Phase II, 2008-09
- Member of Academic Council and Member of Area Committee, Gujarat Forensic Sciences University, Gandhinagar, since 2009
- Member of Selection Committee, Biotech Industrial Training Programme (BITP), 2008-09.
- Member of UGC/AICTE review Committee, Bhavnagar University, 2008
- V.C. nominee on the Selection Committee for the post of Professor, Reader, lecturer in Microbiology, S.P. University, 2008
- Member of expert Committee for Student Sci-Tech Projects, GUJCOST, 2009-10
- V.C. nominee member subject (Microbiology) expert P.G. Adhoc Board, Saurashtra University, 2009.

➤ Regional/State level	: 56
Total Publications	: 121
➤ National (Journal & Proceedings)	: 52 (36+16)
➤ International (Journal & Proceedings)	: 49 (30+19)
➤ Book Chapter	: 20
Book Editor	: 01
Conferences attended	: 73
➤ National / State	: 52
➤ International	: 21

List of Publications

Book Editor

Environmental Microbiology, Mishra B. B., Nanda D. R. and Dave S.R. (eds.) APH Publishing Corp., New Delhi, India, 2009. [ISBN: 8131306550](#)

International Journals

1. **Dave S.R.**, Natarajan K.A., and Bhat J.V. (1979) Bio-oxidation studies with *Thiobacillus ferrooxidans* in the presence of copper and zinc, Trans. Inst. Mining and Metallurgy, 88, C234-C237. [ISSN: 0371-7836](#)
2. **Dave S.R.** and Natarajan K.A. (1981) Leaching of copper and zinc from oxidized ores by fungi, Hydrometallurgy, 7, 235-242. [doi:10.1016/0304-386X\(81\)90004-9](#); [ISSN 0304386X](#); [IF 2.027](#)
3. Menon A.G. and **Dave S.R.** (1994) Biooxidation of ferrous by ultraviolet-exposed, silver tolerant *Thiobacillus ferrooxidans* (ore-isolate), J. Biotechnol., 38, 7-9. [doi:10.1016/0168-1656\(94\)90142-2](#); [IF 3.045](#)
4. Menon A.G. and **Dave S.R.** (1996) Influence of preservation substrate on iron oxidation ability of various *Thiobacillus ferrooxidans* isolates, Microbiol. Research 151, 225-229. [PMID: 8817915](#); [IF 2.308](#)
5. Soni H.P., Haque N.A., and **Dave S.R.** (2002) Characterization of agricultural soils from semi-arid region on the basis of carbohydrate utilization patterns of soil microbial communities, Asian J. Microbiol. Biotechn. Env. Sci. 4(3): 295-303. [ISSN: 09723005](#); [H index 9.0](#)
6. **Dave S.R.**, Tipre D.R., and Gajjar V.V. (2002) Fungal diversity in extreme environments of Malanjkhand copper mine, Asian J. Microbiol. Biotechn. Env. Sci. 4(3): 367-373. [ISSN: 09723005](#); [H index 9.0](#)

7. Haque N.A. and **Dave S.R.** (2004) Screening of phosphate solubilizing microorganisms from semi arid soils, *Int. J. Bioscience Reporter*, 2(2): 204-211. [ISSN: 2277-9493](#)
8. Tipre D.R. and Dave S.R. (2004) Bioleaching process for Cu-Pb-Zn bulk concentrate at high pulp density, *Hydrometallurgy*, 75, 37-43. [doi:10.1016/j.hydromet.2004.06.002](#); [ISSN 0304386X](#); **IF 2.027**
9. **Dave S.R.** and Gupta K.H. (2007) Interactions of *Acidithiobacillus ferrooxidans* with heavy metals, various forms of arsenic and pyrite, *Advanced Materials Research*, 20-21, 423-426. [doi: 10.4028/www.scientific.net/AMR.20-21.423](#); [ISSN: 1022-6680](#); **H index 10**
10. **Dave S.R.**, Shah T.J., and Tipre D.R. (2007) Development of an extremophilic iron oxidizing consortium and a fixed film bioreactor for generation of ferric iron lixivient, *Advanced Materials Research*, 20-21, 501-504. [doi: 10.4028/www.scientific.net/AMR.20-21.501](#); [ISSN: 1022-6680](#); **H index 10**
11. **Dave S.R.**, Gupta K.H., and Tipre D.R. (2008) Characterization of arsenic resistant and arsenopyrite oxidizing *Acidithiobacillus ferrooxidans* from Hutti gold leachate and effluents, *Bioresour. Technol.*, 99, 7514-7520. [doi:10.1016/j.biortech.2008.02.019](#); **IF 4.980**
12. **Dave S.R.** (2008) Selection of *Leptospirillum ferrooxidans* SRPCBL and development for enhanced ferric regeneration in stirred tank and air lift column reactor, *Bioresour. Technol.*, 99, 7803-7806. [doi:10.1016/j.biotech.2008.01.062](#); **IF 4.980**
13. **Dave S.R.** and Dave R.H. (2008) Isolation and characterization of *Bacillus thuringiensis* for Acid red 119 dye decolourisation, *Bioresource Technology*, 100, 249-253. [doi: 10.1016 / j.biortech.2008.05.019](#); **IF 4.980**
14. Patel M. J., Tipre D. R. and **Dave S. R.** (2008) Characterization and environmental impact of heterotrophic acidophilic thermotolerant iron oxidizer, isolated from Rajpardi lignite mine, India, *J. Biotechnol.*, 136, supplement 1, S633 (Abstract). [doi:10.1016/j.jbiotec.2008.07.1467](#); **IF 3.045**
15. Patel M., Tipre D. and **Dave S.R.** (2009) Microbial diversity by substrate utilization profiles of lignite mines samples of Gujarat, India, *Advanced Materials Research*, 71-73, 101-104. [doi:10.4028/www.scientific.net/AMR.71-73.101](#); [ISSN: 1022-6680](#); **H index 10**
16. Dave S.R., Damani M.S., Tipre D.R. (2009) Copper biosorption and bioprecipitation by *Eichhornia* spp. and sulphate reducing bacteria, *Advanced Materials Research*, 71-73, 561-564. [doi: 10.4028/www.scientific.net/AMR.71-73.561](#); [ISSN: 1022-6680](#); **H index 10**
17. Patel M.J. Tipre D.R. and **Dave S.R.** (2009) Isolation and identification of a *Candida digboiensis* strain from an extreme acid mine drainage of the lignite mine, Gujarat, *J. Basic Microbiology*, 49(6), 564-571. [doi: 10.1002/jobm.200900084](#); **IF 1.266**

18. Sheth N.T. and **Dave S.R.** (2009) Optimisation for enhanced decolourization and degradation of Reactive Red BS C.I. 111 by *Pseudomonas aeruginosa* NGKCTS, Biodegradation, doi 10.1007/s 10532-009-9270-2; **IF 2.017**
19. **Dave S. R.**, Damani M. S. and Tipre D. R. (2010) Copper remediation by *Eichhornia* spp. and sulphate-reducing bacteria, J. Hazardous Materials, 173 (1-3), 231-235. doi:10.1016/j.jhazmat.2009.08.073; **IF 4.173**
20. Sheth N.T. and **Dave S.R.** (2010) Enhanced biodegradation of Reactive violet 5R manufacturing wastewater using down flow fixed film bioreactor, Bioresour. Technol., 101, 8627-8631. doi:10.1016/j.biortech.2010.06.106; **IF 4.980**
21. **Dave S.R.**, Damani M.S., Tipre D.R. and Dutt P.S. (2010) Copper bioremediation from aqueous solution and pigment industries waste using dried aquatic plant biomasses, Res. J. Biotechnol., 5(4), 15-19. ISSN: 0973-6263; **SCIE IF 0.143**
22. Patel M.J., Tipre D.R. and **Dave S.R.** (2011) Isolation, identification, characterization and polymetallic concentrate leaching studies of TSB and peptone resistant thermotolerant *Acidithiobacillus ferrooxidans* SRDSM2, Bioresour Technology, 102 (2), 1602-1607. doi. 10.1016/j.biortech.2010.08.115; **IF 4.980**
23. Mondal K.K., Mani C., Singh J., **Dave S.R.**, Tipre D.R., Kumar A. And Trivedi B.M. (2012) Fruit rot of Tinda caused by *Pseudomonas aeruginosa* – a new report from India, Plant Disease, 96(1), 141 (disease notes). ISSN : 0191-2917
24. Shah P.D., **Dave S.R.** and Rao M.S. (2012) Enzymatic degradation of textile dye Reactive Orange 13 by newly isolated bacterial strain *Alcaligenes faecalis* PMS-1, International Biodeterioration and Biodegradation, 69, 41-50. doi. 10.1016/j.ibiod.2012.01.002; **IF 2.074**
25. **Dave S.R.** and Dave R.H. (2012) Optimization of process parameters for enhanced biodegradation of Acid Red 119 by *Bacillus thuringiensis* SRDD, Songklanakarin J. Sci. Technol. 34 (1), 23-30. ISSN 0125-3395
26. Patel B.C., Tipre D.R. and **Dave S.R.** (2012) Optimization of copper and zinc extractions from polymetallic bulk concentrate and ferric iron bioregeneration under metallic stress, Hydrometallurgy, 117-118, 18-23. ISSN 0304386X; doi. 10.1016/j.hydromet.2012.10.005, **IF 2.027**
27. **Dave S.R.**, Varjani S. J. and Tipre D. R. (2012) Isolation and characterization of thiosulphate utilizing *Delftia* sp. from bulk polymetallic concentrate leachate, Res. J. Biotechnol., 7(4), 119-124. ISSN : 0973-6263, **SCIE IF 0.143**
28. **Dave S.R.**, Dave V. A. and Tipre D.R. (2012) Coconut husk as a biosorbent for methylene blue removal and its kinetics study, Adv. Environ. Res., 1(3), 223-236. ISSN : 2234-1722
29. Patel B.C., Tipre D.R. and **Dave S.R.** (2012) Development of *Leptospirillum ferriphilum* dominated consortium for ferric iron regeneration and metal

- bioleaching under extreme stresses, *Bioresour Technol.*, 118, 483-489. doi.org/10.1016/j.biortech.2012.05.094; **IF 4.980**
30. Trivedi M.J., Goyal N.R. and **Dave S.R.** (2013) Isolation, identification and evaluation of a novel cellulose degrading fungus *Emericella nidulans* Res. J. Biotechnol., 8(2), 77-82. ISSN : 0973-6263; **SCIE IF 0.143**
 31. Patel B.C., Tipre D.R. and **Dave S.R.** (2014) Biphasic leaching operation for the GMDC polymetallic bulk concentrate, *Advanced Materials Research*, 828, 117-121. [doi:10.4028/www.scientific.net/AMR.828.117](https://doi.org/10.4028/www.scientific.net/AMR.828.117)
 32. Agrawal S., Tipre D.R., Patel B. and **Dave S.R.** (2014) Optimization of triazo Acid Black 210 dye degradation by *Providencia* sp. SRS82 and elucidation of degradation pathway, *Process Biochemistry* 49, 110–119; doi.org/10.1016/j.procbio.2013.10.006; **IF 2.414**
 33. Patel B.C., Sinha M.K., Tipre D.R., Pallai A. and **Dave S.R.** (2014) A novel biphasic leaching approach for the recovery of Cu and Zn from polymetallic bulk concentrate, *Bioresour Technol.* 157, 310-315, doi.org/10.1016/j.biortech.2014.01.101; **IF 4.980**
 34. Shukla V.Y., Tipre D.R. and **Dave S.R.** (2014) Optimization of chromium(VI) detoxification by *Pseudomonas aeruginosa* and its application for treatment of industrial waste and contaminated soil, *Bioremediation Journal*, 18(2), 128-135, ISSN: 1088-9868; [doi. 10.1080/10889868.2013.834872](https://doi.org/10.1080/10889868.2013.834872); **IF 0.4**
 35. Tipre D.R., Purohit M.S. and **Dave S.R.** (2014) Production and characterization of lipase from *Staphylococcus* sp. SDMIip, *Int. J. Curr. Microbiol. App. Sci.*, 3(6), 423-436, ISSN:2319-7706; **IF 1.594**
 36. Singh R.R., Tipre D.R. and Dave S.R. (2014) Optimization of copper, mercury and cadmium removal by *Enterobacter cloacae* by ferric ammonium citrate precipitation, *Adv. Environ. Res.* (accepted) **ISSN : 2234-1722**

National Journals

1. **Dave S.R.**, Natarajan K.A., and Bhat J.V. (1979) Microbiological studies on *Thiobacillus ferrooxidans* cultured from Chitradurga mine water, *Trans. Indian Inst. Metals*, 32(4): 330-336. **ISSN: 0019-493X.**
2. **Dave S.R.**, Natarajan K.A., and Bhat J.V. (1981) Effect of physico-chemical parameters on bacterial leaching of sphalerite concentrate, *Trans. Indian Inst. Metals*, 34(2): 161-165. **ISSN: 0019-493X.**
3. **Dave S.R.**, Natarajan K.A., and Bhat J.V. (1981) Effect of 9k nutrient constituents in the bacterial leaching of sphalerite concentrate, *Trans. Indian Inst. Metals* 34(4): 319-332. **ISSN: 0019-493X.**

4. **Dave S.R.**, Natarajan K.A., and Bhat J.V. (1982) Bioleaching of zinc concentrates - statistical optimization studies, *Trans. Indian Inst. Metals*, 35(3): 263-268. [ISSN: 0019-493X](#).
5. **Dave S.R.** and Natarajan K.A. (1982) Effect of some floatation reagents on the biooxidation of zinc and iron, *Trans. Indian Inst. Metals*, 35(4): 397-399. [ISSN: 0019-493X](#).
6. **Dave S.R.** and Mathur P. (1987) Factors affecting multi-metal ore leaching by *Thiobacillus ferrooxidans*, *Indian J. Microbiology*, 27, 51-54. [ISSN: 0046-8991](#); **IF 0.511**
7. **Dave S.R.** and Natarajan K.A. (1987) Microbial ecology of some Indian sulphidic mines, *Trans. Indian Inst. Metals* 40(4): 315-327. [ISSN: 0019-493X](#).
8. Patel R.J. and **Dave S.R.** (1989) Biosorption of copper by Gram-negative bacteria, *Journal of IAEM*, 16, 200-202. [ISSN: 0970-8480](#)
9. **Dave S.R.**, Pandhi N., and Doctor S.S. (1991) Bio-oxidation of ferrous iron by *Thiobacillus ferrooxidans*, *Journal of IAEM*, 18, 73-76. [ISSN: 0970-8480](#)
10. **Dave S.R.** (1991) Biotechnology and its applications, *Anart J.*, 84-86.
11. **Dave S.R.** and Upadhyay N.M. (1993) Thiosulfate oxidizing organism from thermal springs, *Ind. J. Microbiol.* 33(4): 241-244. [ISSN: 0046-8991](#); **IF 0.511**
12. **Dave S.R.** and Patwari R.A. (1994) Bacterial cellmass as a biosorbent of cadmium and mercury, *Pollution Research* 13(2): 227-231. [ISSN: 0257-8050](#)
13. **Dave S.R.** (1994) Biosorption of heavy metals, *Proc. Acad. Environ. Biol.* 3(1): 21-24.
14. **Dave S.R.** (1995) Bioremoval of metals from sludge by mix bacterial culture, *Proc. Acad. Environ. Biol.* 4(1): 39-42.
15. Menon A.G. and **Dave S.R.** (1995) Observations on heavy metal extraction from the tailings of Zawar mines, *Proc. Acad. Environ. Biol.* 4(1): 43-48.
16. Modi N.G. and **Dave S.R.** (1995) Mercury removal by bacterial community, *Proc. Acad. Environ. Biol.* 4(1): 49-53.
17. **Dave S.R.** and Pandhi N. (1995) Increased metal tolerance by *Thiobacillus ferrooxidans* (SRco) isolated from Ambamata complex ore mine, *Indian J. Engg. Mat. Sci.*, 2, 139-141. [ISSN:0971-4588](#)
18. Menon A.G. and **Dave S.R.** (1995) Growth behaviour of various *Thiobacillus ferrooxidans* isolates on different substrates, *Trans. Indian Inst. Metals* 48(2): 135-138. [ISSN: 0019-493X](#)
19. Menon A.G. and **Dave S.R.** (1995) Influence of salinity on iron oxidation by *Thiobacillus ferrooxidans* isolates from various Indian sites, *Indian J. Experimental Biol.*, 33, 730-733. [ISSN:0019-5189](#); **IF 1.295**

20. Menon A.G., **Dave S.R.**, and Vora S.B. (1996) A comparative bioleaching study of Ambamata multimetal ore and concentrate by *Thiobacillus ferrooxidans*, Indian J. Microbiology, 36, 49-51. [ISSN: 0046-8991](#); [IF 0.511](#)
21. Vaisnav G.N. and **Dave S.R.** (1997) Biosorption of silver by activated sludge biomass, Bioresearch Journal, July, 29-36.
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2. **Dave S.R.** (1990) Definition, scope and important organisms in biotechnology, In: Biochemistry and Biophysics for B.Sc. Honours in Biotechnology, Kota Open University.
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Invited Lectures / Talk

International Conference

1. **Dave S.R.** (1998). Abstract: Bioleaching of sulphidic minerals: the Indian scenario, Int. Symposium on Microbial Biotechnology for Sustainable Development and Productivity, Jabalpur, Nov. 14-16, p. 153.
2. **Dave S.R.** (2001). Abstract: Microbial technology for treatment of wastewater containing toxic metals, Int. Conference of SAARC Countries on Biotechnology in Agriculture, Industry and Environment, Karad, Dec. 28-30, p. 9.
3. **Dave S.R.** (2002). Abstract: Bioremediation of toxic metals from industrial wastes by biosorption and enzyme mediated processes, Int. Seminar on Mineral Processing Technology, Bangalore, Jan. 3-5, p. 87.
4. **Dave S.R.** (2004). Abstract: Microbial and phytoremediation technology for environmental clean-up and metal recovery, Int. Symposium on Microbial Diversity: Challenges, Opportunities and Relevance in New Millennium and Microtech-2004, Jabalpur, Nov. 19-21, p. 42. **(Chaired a Session)**
5. **Dave S.R.** (2005). Abstract: Occurrence of extremophilic bacteria in Indian mines and their exploitation, Int. Conference on Microbial Diversity: Current Perspectives and Potential Applications, New Delhi, Apr. 16-18, p.44.
6. **Dave S.R.** (2006). Abstract: Enhanced ferrous oxidation by *Leptospirillum ferrooxidans* in the fixed film column bioreactor, 3rd Convention of BRSI and Int.

Conference on Exploring Horizons in Biotechnology: a Global Venture, Vallabh Vidyanagar, Nov. 2-4, p. 137.

7. **Dave S.R.** (2006). Abstract: Bioremediation of metallic pollutants, Int. Interdisciplinary Conference on Sustainable Technology for Environment Protection, Coimbatore, Jan. 7-9.
8. **Dave S.R.** (2006). Abstract: Development of poly resistant iron oxidizing bacteria for ferric generation and indirect metal extraction from sulphidic minerals, Int. Seminar on Mineral Processing Technology MPT 2006, Chennai, Mar. 8-10, p. 697.
9. **Dave S.R.** (2007). Abstract: Microbiology of acid rock drainage formation and its remediation: an Indian scenario, Int. Conference on New Horizons in Biotechnology, NHBT-2007, Trivandrum, Nov. 26-29, p. 23.
10. **Dave S.R.** (2011). Abstract: Problems of acid mine drainage and their remediation, Int. Conference on Biotechnology for Better Tomorrow 2011, Osmanabad, Feb 6-9, p. 17.
11. Tipre D.R. and **Dave S.R.** (2011). Abstract: Bioleaching of polymetallic sulphidic minerals and its importance, Int. Conference on Biotechnology for Better Tomorrow 2011, Osmanabad, Feb 6-9, p. 18.
12. **Dave S.R.** and Tipre D.R. (2011). Abstract: Bioremediation of metallic pollutants from e-waste, Int. Conference on Microorganisms in Environmental Management and Biotechnology, Bhopal, July 1-3, p.51-52. (**Chairperson of the session**)
13. **Dave S.R.** (2012). Abstract: Bioremediation of metals and metalloids by multifarious bacterial activity with iron, Int. Conference on Industrial Biotechnology, ICIB-2012, Patiala, Nov 21-23, p. 13. (**Judge for Poster session**)
14. **Dave S.R.** (2013). Abstract: Biotechnological innovations in metal processing, 1st International and 3rd National Conference on Biotechnology, Bioinformatics and Bioengineering, Tirupati, June 28-29, p. 3. (**Award Lecture**, Society for Applied Biotechnology, India)
15. Agrawal S., Tipre D., Patel B. And **Dave S.R.** (2013). Abstract: Sequential microaerophilic and aerobic decolourization and biodegradation of triazo dye Acid Black 210 by novel bacterial consortium CS5, 1st International and 3rd National Conference on Biotechnology, Bioinformatics and Bioengineering, Tirupati, June 28-29, p. 112.

National Conference

1. **Dave S.R.** (1997). Abstract: Ecological restoration through microbial remediation, National Symposium on Microbial Technologies for environmental management and resource recovery, New Delhi, Oct. 1-2, p. 44.
2. **Dave S.R.** (1997). Abstract: Microbial diversity in Indian mine and phylogeny of *Thiobacillus ferrooxidans*, 38th Annual meeting of AMI Conference on Microbes in Sustainable Development, New Delhi, Dec. 12-14, p. 221.
3. **Dave S.R.** (1998). Abstract: Bioremediation technologies and future market potentials, 14th Gujarat Science Congress of GSA, Palitana, Oct. 10-11.
4. **Dave S.R.** (2001). Abstract: Solid waste bioleaching for environmental cleanup and sustainable development, National Seminar on Present Status of Microbial and Challenges for Sustainable Development, Sagar, Mar. 5-7, p. 19.
5. **Dave S.R.** (2002). Abstract: Extremophiles in the metal mining industry, National Conference on Environmental Biology, Rajkot, Oct. 17-18, p. 55.
6. **Dave S.R.** (2004). Abstract: Development of bioleaching inocula and metal extraction from sulphidic concentrates, Seminar on Perspectives in Minerals, Metals and Materials, Bangalore, July 22-23, p. 42-43.
7. **Dave S.R.** (2005). Abstract: Biotechnology of sulphidic minerals: an Indian scenario, 46th AMI Conference on MicroBiotech 2005, Hyderabad, Dec. 8-10, p. 24.
8. **Dave S.R.** (2005). Abstract: Microbes and metal remediation, National Conference on Frontiers in Environmental Sciences and Engineering in India, Coimbatore, Sept. 15-17, p. 31-32.
9. **Dave S.R.** (2006). Abstract: Role of microbial resources in acid rock drainage formation and prevention at lignite mine, National Conference on Bioresources: Utilization and Conservation, Rajkot, Feb. 17-18, p. 18. **(Chaired a session)**
10. **Dave S.R.** (2006). Abstract: Environmental protection by microbial metal remediation, National Conference on Environmental Pollution, Disaster Management and Mitigation, Parbhani, Sept. 15-16, p. 12. **(Member of Advisory Committee)**
11. **Dave S.R.** (2009). Abstract: Microbial technology for processing of metallic minerals, 50th Annual Conference of AMI on Third Golden Era of Microbiology, Pune, Dec 15-18, p. 32-33.
12. **Dave S.R.** (2010). Abstract: Diversity of iron oxidizers and their bioprospecting, National Seminar on Current Trends in Microbiological Sciences, Ahmedabad, Jan. 23-24, p. 12.
13. **Dave S.R.** (2010). Abstract: New trends and relevance of microbial technology, Two-day State Level Symposium on Trends in Biological Sciences, Rajkot, Sept. 16-17, p. 10.

14. **Dave S.R.** and Tipre D.R. (2011). Abstract: Recent advances in acid mine drainage remediation, National Seminar on Recent Advances in Microbial Technology, Rajkot, Feb. 28.
15. **Dave S.R.** (2012). Abstract: Perception of microbial diversity and its significance, National Conference on Advanced Trends in applied Sciences and Technology, Surat, Jan 27-28, p. 1-3. (**Key Note Lecture**)
16. **Dave S.R.** and Tipre D.R. (2013). Abstract: Microbial technology of metal production and remediation from minerals and wastes, National Conference on Current Advances in Biotechnology and Annual Meeting of Society for Biotechnologists (India), Amravati, Nov. 25-26, p. 15. (Plenary Lecture)
17. **Dave S.R. (2013)**. Abstract: Microbial technology for metallic minerals and wastes, National Conference on Modern Analytical Techniques in Microbiology, MATM-2014, Pune, Jan. 17-18. (Lead Invited Lecture)
18. **Dave S.R.** (2014). Abstract: Bioremediation of metallic pollutants for sustainable environment, National Seminar on Advances in Environment Science and Technology, Gandhinagar, Feb 25-26, p. 5-6.

Workshop/Training programmes/Special invited talk

1. **Dave S.R.** (1982). Abstract: Statistical design, analysis and optimization of a bacterial leaching process Part I and II, UNESCO/UNEP/ICRO - Regional Training Course, UGC-Advanced Level Institute INSA-Winter School on Basic Principles of Geomicrobiology with Special Reference to Microbial Cultures Used in Biohydrometallurgy, Pune, Oct. 18- Nov. 6, p. 9.
2. **Dave S.R.** and Patwari R.P. (1992). Abstract: Bacterial cell mass as a biosorbent of cadmium and mercury, 30th National Metallurgists' Day and 46th Annual technical Meeting of the Indian Institute of Metals, Udaipur, Nov. 14-17, p. N/36.
3. **Dave S.R.** (1995). Abstract: Determination of metal tolerance of *T. ferrooxidans*, 1st National Workshop on Extremophilic Microorganisms, Goa, Oct. 16-Nov. 4, p. 80-81.
4. **Dave S.R.** (1995). Abstract: Interactions of metals with microorganisms and metal tolerance development, 1st National Workshop on Extremophilic Microorganisms, Goa, Oct. 16 - Nov. 4, p. 26-28.
5. **Dave S.R.** and Tipre D.R. (2010). Abstract: Microbial profiling of Ambamata multimetal mine and its relevance for sustainable ecosystem, Workshop on Geomicrobiology and Microbe Sediment Interaction, Vadodara, Aug. 19, p. 25-28.
6. **Dave S.R.** (2010). Abstract: Acid mine drainage and its remediation, Invited talk for scientists of CSMCRI, Bhavnagar, Oct 21.

7. **Dave S. R.** (2011) Lecture on Microbial diversity, as Resource Person at GSBTM sponsored 4th Crash Workshop 2011, Kadi, Nov. 15.
8. Dave S.R. (2011). Lecture on Environment, as Resource Person at Capacity Building Programme for the College Teachers of Physics, chemistry and Life Sciences, Knowledge Consortium of Gujarat, Gandhinagar, Jun 20-25.
9. **Dave S.R.** (2013). Two-days Science Academics Lecture Workshop on Micobes, Minerals and Environment organized by Vellore Institute of Technology and supported by IAS, INSA and NAS, Vellore, Jan 24-25.
10. **Dave S.R.** (2013). Abstract: Two-days Science Academics Lecture Workshop on Micobes, Minerals and Environment organized by Vellore Institute of Technology and supported by IAS, INSA and NAS, Vellore, Jan 24-25.
11. **Dave S.R.** (2013). Lecture on Biodiversity among bacteria and methods to study, SANDHAN, KCG, Gandhinagar, Jan. 31.

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