

Dr. Bijan Bina
Professor in Environmental Health Engineering

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Academic Qualifications:

- 1981 Bachelor of Sciences, Industrial Health Engineering, University of Tehran
- 1987 Master of Sciences, Occupational and Environmental Health Engineering, University of Newcastle upon Tyne. UK.
- 1991 Ph.D., Environmental Health Engineering, University of Newcastle upon Tyne, UK.

Dissertation:

- An Occupational and Environmental Hygiene Audit of the Foundry Processes (M.Sc)
- Investigations into the Use of Plant Coagulants in the Removal of Bacteria and Bacteriophage from Turbid Waters (Ph.D)

Pertinent Experience

- 1992/Present Professor of Environmental Health Engineering (Full time)**
Environmental Health Eng. Department
Teaching M.Sc. and Ph.D courses including:
Water Treatment Plant Design, Wastewater Treatment Plant Design,
Environmental Impact Assessment, Water and Wastewater Microbiology
- 1993/Present Editor of Water and Wastewater Journal**

- 2001-2003 Research Deputy of School of Public Health, Isfahan.**
- 2003- 2004 Post-doctoral research at Dept. of Biotechnology,**
Royal Institute of Technology, Stockholm, Sweden
Worknig in the group of Environmental Microbiology
- 2007/Present Head of Dept. Envir. Health Engineering**
- 2014/Present Editor-in-Chief of Scientific Research Journal of**
“ Health System Research (HSR)”

Professional Society Memberships:

- Iranian Environmental Engineering Society
- Iranian Water and Wastewater Specialist Society
- Iranian Association of Environmental Health (IAEH)
- International Water Association (IWA)

Publications:

- 1-Thomson,AJ. Evison,LM . Bina,B .**Wastewater Reuse for Agricultural Irrigation**. Report OD/TN 62, HR Wallinaford, July 1992.
- 2-Bina,B.Evison,LM.**The Use of Vicia Faba as a Natural Coagulant in Water Clarification**. J. Water & Sewage, Vol. 16, 1996
- 3-Arbabi,m. Movahhedian H, Bina B.**Engelberg Guideline Value Survey in Isfahan South and North Wastewater Treatment Effluents**. J. Water & Sewage, Vol.17 1996.
- 4- Shahmansouri M, Bina B ,Rezaei R. **The Efficiency of Slow Sand Filters in Removal of Coliform and Organic Matter** J. Water & Sewage, Vol.18 1996 .
- 5- Bina B ,Movahhedian H,Nikaein M. **The Relationships Between the Ciliate Populations Diversity and Effluent Quality in Activated Sludge Plants**. J. Water & Sewage, Vol.19 1996.
- 6- Bina B , Shahmansouri M ,Vakili B.**The Use of Yeast as a Natural Polyelectrolyte in Water Treatment and Removal of E.coli**. J. Water & Sewage, Vol.22 1997 .
- 7- Bina B, Pourmoghadas H, Hehdarmah A. **The Comparison of Physico-chemical Quality of Zayandehrud River with Common Biological Indices**. J. Water & Sewage, Vol.24 1998 .
- 8-Shahmansouri M, A. Mesdaghinia A and B Bina. **Alum Recovery from Sludge of Isfahan Water Treatment Clarifiers**, J. Water and Wastewater, 1998
- 9-Movahhedian H, Bina B and M Vahid. **The Effect of Using Effluent from North Wastewater Treatment Plant in Heavy Metals accumulation in Soil and Plants**. Journal of Research in Medical Sciences, Vol.4 No. 2,3, 1999.
- 10-Kalantary A, Taleby M, Bina B and Shariyari, S. **Determination of Mineral Arsenic in Isfahan City Ambient Air**. Journal of Research in Medical Sciences, Vol. 5No. 2, 2000.
- 11-Movahhedian H, Mesdaghinia A and Bina B. **Performance Evaluation of Isfahan Aerobic Digesters for Stabilization of Mixed Municipal Sludge**. Journal of Research in Medical Sciences, Vol. 2. No. 2, 2000.
- 12- Kalantari A, Talebi M, Bina B. **Determination and Investigation of the Trend of Gaseous Mercury in the Atmosphere of Isfahan**. J. Shahid Sadoughi University. Vol. 8, 2001.
- 13- Bina B, Shahmansouri M, Chinaee, H. **Pilot Plant Study on Natural Coagulants as Coagulant Aids in Water Supply**. Research in Medical Sciences. Vol. 6. 2001.
- 14- Shahmansouri M, Bina B, Uromeye H. **Study of High Rate Sedimentation Tank in Water Treatment Plants**. Research in Medical Sciences. Vol. 6. 2001.
- 15-Kalantari A, Talebi M, Bina B. **Determination of Mobility and Bioavailability of Heavy Metals in the Urban Air Particulate Matter of Isfahan**. Research in Medical Sciences. Vol. 6. 2001.
- 16- Movahhedian H, Bina B, Takdastan A, **Evaluation of Digested Sludge Using Sanitary Indices in Isfahan Wastewater Treatment Plants**, J. Water and Wastewater, Vol. 36, 2001.
- 17- Mahvi A, Bina B, Saeedi A. **Heavy Metal Removal from Effluents by Natural Fibers**. J. Water & Wastewater, Vol. 43, 2003.
- 18- Bina B, Asadi M. **Environmental Impact Assessment of Isfahan Zayandehrud Dam**. J. Water & Wastewater, Vol. 44, 2003.
- 19- Bina B, Abtahi M, Vahid M, **Removal of Heavy Metals Using Wood Dust from Industrial Wastewater**. J. Research in Medical Sciences, Vol. 8,No.3, 2003.
- 20- Shahmansouri M, Bina B, Felahati M. **Color and Organic Removal from Textile Wastewater Using Water Treatment Wastes**. J.Hamdard Medicus, Vol. XLVI, 2003.
- 21- Bina B, , Asgari Gh. **Survey of Dyes Removal by Mixed Magnesium Chloride and Alum from Textile Effluents**, J. Water and Wastewater, Vol. 47, 2003.
- 22- Bina B, Movahhedian H, Amini, A. **Evaluation of Potentially Harmful Substances in Dried Sludge of Isfahan Wastewater Treatment Plants**, J. Water and Wastewater, Vol. 49, 2004.
- 23- Bina B, Movahhedian H, Asgari Gh. **The Effect of Lime Stabilization on the Microbiological Quality of Sewage Sludge**, Iranian J. Env. Health Sci. Eng., Vol. 1. 2004.

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- 25 Bina B, Dehghanzadeh R, Torkian A, , Pourmoghadas H, Kalantary A. **Removal of Styrene from Waste Gas Stream Using a Biofilter**, *Journal of Research in Medical Sciences*, Vol. 9No. 6, 2004
- 26- Movahedian H, Bina B, Moienian Kh. **Effects of aeration rate and detention time on thermophilic aerobic digestion of mixed sludge and its dewater ability**, *Inter. J. of Environ. Sci. and Tech*, Vol. 1, No. 4. 2005
- 27- Bina B. **Efficiency of a Small Scale Hydroponic Wastewater Treatment**, *J. Water and Wastewater*, Vol. 52, 2005
- 28- Kalantari A, Bina B, Taleby M, Loloee. **The Relationship between Polycyclic Aromatic Hydrocarbons and Heavy Metals**, *J. Research in Health Sciences*, vol.4. Number 2, 2004
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- ۳۱-بینا- اویسون - تامسون . مطالعه اثر زمان -درجه حرارت بر روی مرگ و میر باکتریها در سیستمهای تصفیه فاضلاب. آب و فاضلاب -۱۳۷۲.
- ۳۲-بینا - قیصری - بابامیر. تحلیلی پیرامون برخی از عوامل ایجاد کننده بالکینگ و روش کنترل آن (قسمت اول) - آب و فاضلاب ۱۳۷۳.
- ۳۳-بینا - قیصری - بابامیر. تحلیلی پیرامون برخی از عوامل ایجاد کننده بالکینگ و روش کنترل آن (قسمت دوم). آب و فاضلاب ۱۳۷۴.
- ۳۴-قیصری - بینا. دفع فاضلابهای شهری و خطر ایجاد پدیده اتریفیکاسیون در مناطق ساحلی. نشریه دانشکده بهداشت - ۱۳۷۳
- ۳۵-بینا. پتانسیل حذف و رشد مجدد باکتریهای شاخص آلودگی مدفوعی و سالمونلا در آبهای کدر تصفیه شده با استفاده از دانه گیاهی مورینگا اولیفرآ. آب و فاضلاب -۱۳۷۳
- ۳۶-موحدیان - بینا - اربابی. بررسی راندمان برکه های تثبیت در حذف تخم انگلها و کلیفرمهای مدفوعی . آب و فاضلاب - ۱۳۷۳
- ۳۷-بینا - شاهمنصوری - ذهب صنیعی . استفاده از پر منگنات پتاسیم بعنوان کمک منعقد کننده در عملیات تصفیه آب . آب فاضلاب - ۱۳۷۴
- ۳۸-بینا - موحدیان - آیراملوزاده. شناسایی گونه باکتری رشته ای غالب در سه تصفیه خانه فاضلاب و مقایسه آن با اندیس حجمی لجن . آب و فاضلاب - ۱۳۷۴
- ۳۹-بینا - وحید دستجردی . تحلیلی بر فرایندهای تجزیه بیهوازی و فعالیت میکرو ارگانیسیم های موثر در آن . آب و فاضلاب - ۱۳۷۳
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- ۴۳- بینا- بورزمانی. بررسی کیفیت منابع آب شرب از نظر خورنده بودن در شهر باغبادران اصفهان. مجله علمی-پژوهشی مرکز تحقیقات بهداشت محیط سال اول شماره ۲ – ۱۳۸۲
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- ۱۶- تولید جریان الکتریکی از فاضلاب مصنوعی در راکتورهای بافل دار بی هوازی با استفاده از باطریهای زیستی بدون واسطه (MFCs) ، شماره مصوب ۲۸۷۲۱۲ .
- ۱۷- روش نوین گندزدایی آب و پساب با استفاده از اشعه گاما ، شماره مصوب ۲۸۷۱۲۰ .
- ۱۸- بررسی کارایی سیستم تلفیقی زلال سازی ، فیلتراسیون اشعه فرانیفش UV در گندزدایی پساب تصفیه خانه فاضلاب شمال در مقیاس پایلوت ، شماره مصوب ۳۸۷۱۷۲ .
- ۱۹- بررسی تاثیر پروتئین انعقادی مورینگا اولیفرای و کایتوزان به عنوان منعقدکننده توام با منعقد کننده آلوم به منظور حذف آلودگی در فرایند تصفیه آب ، شماره مصوب ۳۸۶۱۸۶ .
- ۲۰- حذف و بازیافت مس و روی از محلولهایی که توسط بیومس غیر فعال جلبک قهوه ای سارگاسوم ، شماره مصوب ۲۸۵۰۱۴ .
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- ۲۵- طراحی سامانه تجزیه و تحلیل خطر و نقاط کنترل بحرانی (HACCP) برای سیستم تامین و توزیع آب آشامیدنی شهر اصفهان از منبع تا نقطه مصرف ، شماره مصوب ۳۸۹۳۲۷ ۸۹/۸/۲۹
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- ۲۹- بررسی کارایی سیستم تلفیقی زلال سازی ، فیلتراسیون و اشعه فرابنفش UV در گندزدایی پساب تصفیه خانه فاضلاب شمال اصفهان در مقیاس پایلوت شماره مصوب ۳۸۷۱۷۲ بینا-امین
- ۳۰- بررسی کارایی راکتورهای بیوفیلمی با بسترمتحرک در تصفیه بیولوژیکی فاضلاب های حاوی ازت و فسفر ، شماره مصوب ۳۸۵۳۶۲ ۸۷ (بینا -موحدیان)
- ۳۱- راه اندازی و بررسی عملکرد سامانه جدید بیوراکتور ترکیبی Anaerobic-UASB اذت و فسفر
- ۳۲

Participation in International Conferences

- 1- Air Pollution Conference & Workshops 28-29 June , 1997 – Tehran , I.R.Iran
- 2- International Water Supply Symposium in Tokyo' 98, Japan.
- 3- COE Symposium from March 6th to 8th , Tokyo, JAPAN, 2000
- 4- 1st Congr's international de l'Association Internationale de l'Eau (IWA) qui avait lieu paris du 3 au 7 juillet, France, 2000
- 5- 3rd IWA International Specialized Conference on Microorganisms in Activated Sludge and Biofilm Processes, Rome, Italy, 2001.
- 6- The International Water Association Conference on Water & Wastewater Management for Developing Countries, Malaysian, 2001.
- 7- Aquatech Asia Forum 2001, Bangkok, Thailand
- 8- 5th International Congress ECWATECH-2002, Water: Ecology and Technology, Moscow, 4-7 June 2002
- 9- International Conference on Wastewater Treatment for Nutrient Removal and Reuse 2004 (ICWNR' 04), Bangkok, Thailand..
- 10- 10th International Congress of Toxicology on 11-15 July 2004, Tampere , Finland
- 11- The 15th Stockholm water symposium August 21-27 , Sweden, 2005.
- 12- PRITHVI 2005 GLOBAL ECO MEET . Feb : 19-28 , 2005 Thiruvananthapuram Kerala, India
- 13- 7th IWA Specialist Conference on Waste Stabilization Ponds, 25-27 September 2006, Bangkok Thailand.
- 14- 2007 SWS International Conference on Water Wetlands and Wildlife, June 10-15, 2007 Sacramento, CA, USA.

- 15- 2nd Technology and Innovation for Sustainable Development Conference” 28-29 January 2008, Khon Kaen, Thailand
- 16- The 7th International Conference on Membrane Science & Technology (MST2009), 12-15 May 2009, Kuala Lumpur, Malaysia
- 17- “An International Perspective on Environmental and Water Resources” 5-7, 2009. Bangkok, Thailand
- 18- “International Conference on Environment 2010: Green Technologies for Benefits of Bottom Billions”. 13-15 December 2010, Penang, Malaysia
- 19- 14th Asian Chemical Congress, 5-8 September 2011, Bangkok, Thailand
- 20- The 7th Asian-Pacific Landfill Symposium, 8-11 October 2012, Bali, Indonesia
- 21- 18th National Conference on Environmental Health, 15-16 December 2015, Shiraz Iran
- 22- Conference 1st International and 19th on Environmental National Health and Sustainable Development, (EHSD) 22-24 October 2016, Tehran Iran.
- 23- 2nd International and 20th National Conference on Environmental Health and Sustainable Development, 28-30 November 2017, Yazd, Iran.
- 24- 3rd International and 21st National Conference on Environmental Health, 26-28 February 2019, Zanzan, Iran