

CURRICULUM VITAE

January 22

NAME Hadas Mamane
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A. EDUCATION

1991-1995	Technion	Chemical Engineering	B.Sc.
1996-1999	Technion	Civil and Environmental Engineering	M.Sc.
08/2001-12/2004	Duke University, NC, USA	Civil and Environmental Engineering	Ph.D.

Title of Master's Thesis: "Biodegradation and sorption of an accidental spill of phenol in suspended biomass and fixed systems on sandy soil applied with biosolids", **Name of supervisor:** Late Prof. Galil, N.I.

Title of Doctoral dissertation: "Impact of particles and particle-microbe interactions on UV disinfection", **Name of supervisor:** Prof. Linden, K.G.

B. FURTHER STUDIES

12/2004-02/2005: Duke University, NC, USA, Impact of chlorine and UV on *Bacillus* spores resistance and surface properties, Research Associate, post doctorate study.

06-07/2005: Duke University, NC, USA, Advanced oxidation processes (AOP) for inactivation of microorganisms and viruses, Research Associate, post doctorate study.

04/2005 to 09/2007: Tel Aviv University, Porter fellow (Porter School of Environmental Studies-PSES). Projects: Characterization of particles in water; AOP for treatment of emerging contaminants in waters.

C. ACADEMIC AND PROFESSIONAL EXPERIENCE

2/1995-05/1996 Phoenicia - America-Israel Flat Glass Production Industry, process engineer

07-12/1996 Mamane Consultants in Air Quality, Haifa, Israel.

03/1999-07/2001 AIPM/American-Israeli Paper Mill, Hadera, Israel. Environmental and Process Engineer at the research and infrastructure department. Alternatives for water reuse, implemented ISO 14001, supported processes as wastewater treatment plant, cooling waters, hazardous waste disposal and water softening.

06-07/2003 *Invited researcher* at the Institute for Hygiene and Medical Physics/Biostatistics at the University of Vienna, Austria, on Spectral Sensitivity of *Bacillus subtilis* Spores and MS2 Coliphage for Validation Testing of Ultraviolet Reactors.

11/2005 Member of the Organizing Committee, First Mid-East Conference on Ultraviolet Technologies, Tel-Aviv, Israel.

01/2006 Elected as a member of the Water Treatment Forum of the *Israeli Water Association* (AGAM-IWA).

04/2005-09/2005 Porter post-doctoral fellow at the Porter School of Environmental Studies (PSES).

10/2005-09/2007 Equivalent lecturer position (non-tenure track) at the School of Mechanical Engineering, TAU.

10/2007-08/2010 Lecturer (tenure-track) at the School of Mechanical Engineering, TAU.

2008-2011 Member of the M.Sc. committee at the Faculty of Engineering.

03/2009-present Appointment as the member of the Stockholm Junior Water Prize committee.

09/2010 Senior Lecturer at the School of Mechanical Engineering, TAU.

06/2013 Tenure, TAU

2013-present M.Sc. committee at the Porter School of Environmental Studies (PSES)

2014-present Gender fairness committee, Engineering School

2015-2016 Head of Master academic degree in Environmental Studies (without thesis) PSES

Oct 2015 Organization of the second MidEast Conference on Ultraviolet Technologies, TLV convention center, Israel

June 2016 Organizing committee for 2016 Conference of the Israel Society of Ecology & Environmental Sciences, Tel-Aviv, Israel

2016 Review panel member, Manna grants on food security/Tel Aviv University

2016-2017 Review panel member, Women excellence Post doc awards/Tel Aviv University

July 2016	Organization of a symposium on Water reuse in Israel: Where we are, Where can we go, Tel-Aviv, Israel
1/8/2015	Associate Professor
Sep 2017	Organizing committee for 2017 IUVA World Congress, Dubrovnik, Croatia
Oct 17 to date	Head of the Environmental Engineering Program
Oct 17	BMBF-MOST-committee member in evaluating research proposals
May 18-Nov 18	Sabbatical at IIT Madras, Chennai, India
Oct 18	Organizing committee for 2018 International Water Association (IWA) Conference, Small Water and Wastewater Systems, Technion, Haifa, Israel
March 18	Accompanying Committee, Water Research Center, TAU
July 18	Professional committee for promotion to associate Prof, BGU
Aug 2018	Judged 20 proposals in Carbon Zero Challenge, 2019, IITM, India
April 2019	Judge abstract, Israel Society for Ecology and Environmental Sciences (ISEEQS)
Oct 2020	co-developer of Developing Countries MSc program with Prof Ronen and Dr Fishman, Social sciences
Oct 2020	Evaluation committee for faculty at DTU (Technical University of Denmark)
Nov 2019	Committee member, International Water Association, WC2020, Singapore
May 20	Professional committee for promotion to associate Prof, Sede Boker Campus
May 20	Proposal review panel ministry of health, on solutions to combat Corona virus
March 20-June 21	IUVA COVID-19 Task Force
July 20	Committee member, Israel desalination society
Feb 21	Member of the ministry of health committee to approve technologies to purify air in closed rooms, ministry of health
March 21	Member of the TAU climate initiative
March 21	IUVA Vice-Presidents for the Europe-Middle East-Africa region (EMEA)
June 21	Committee member, Singapore International Water Week, SIWW21, Singapore
July 21	IUVA SDG-6 Task Force

D. ACTIVE PARTICIPATION IN SCIENTIFIC MEETINGS

Dec 2002	Lecture, Israel Society for Ecology & Environmental Quality Sciences (ISEEQS), Tel-Aviv, Israel
March 2003	Lecture, Quadrangle Conference, Virginia tech, VA, USA
July 2003	Lecture, 2 nd International Congress on Ultraviolet Technologies (IUVA), Vienna, Austria
Nov 2004	Lecture, American Water Works Association Water Quality and Technology Conference (WQTC04), San Antonio, Texas, USA
June 2004	Lecture, American Water Works Association Annual conference and Exposition (ACE), Orlando, Florida, USA
Dec 2005	Poster, Water is Life, Ministry of Science - German-Israeli Cooperation, BMBF-MOST, Jerusalem, Israel
May 2005	Lecture, Brave new world technologies GMOs /Nano, Porter School, Tel Aviv University, Israel
May 2005	Lecture, International Ultraviolet Association Conference, Whistler, British Columbia, Canada
Feb 2005	Lecture, Water Environment Federation (WEF) Specialty Conference Series, Phoenix, Arizona, USA
Nov 2005	Keynote Lecture, The 1 st Mid-East Conference on Ultraviolet Technologies. Tel- Aviv, Israel
Nov 2006	Lecture, Invention to Product; from Research Institutes to the Water Industry, Sede Boker, Israel
May 2006	Poster, 4 th International Conference on Oxidation Technologies for Water and Wastewater Treatment, Goslar, Germany
May 2006	Lecture, 3 rd conference of Israel Water Association, Ben-Gurion University, Israel
May 2006	Invited lecture, Water treatment in fish ponds, Yair station, Arava, Israel
June 2006	Invited lecture, Water treatment in fish ponds, Argad, Eilat
June 2006	Lecture, Israel Society for Ecology & Environmental Quality Sciences (ISEEQS), Haifa, Israel
Sep 2006	Lecture, Environmental Applications of Advanced Oxidation Processes (EAAOP-1), Chania, Greece

Nov 2007	WATEC 2007, 1st international conference, Israel Trade Fairs & Convention Center, Tel Aviv, Israel
January 07	Invited lecture, UV disinfection and Advanced Oxidation Processes” at Bari, Italy
January 07	Invited lecture, “Effect of Particles on UV Disinfection: Fundamentals and Practical Issues” at CNR, Istituto Di Ricerca Sulle Acque, Roma, Italy
Feb 2007	Lecture, Disinfection 2007, Pittsburgh, Pennsylvania, USA
Feb 2007	Invited workshop, Workshop on UV disinfection, Israeli Ministry of Health, Tel Hashomer, Israel
March 2007	Lecture, Israel Water Association, Kfar Maccabiah, Ramat Gan, Israel
May 2007	Invited lecture, UV disinfection technologies, Amiad filtration systems, Upper Galilee, Israel
June 2007	Lecture, Israel Society for Ecology & Environmental Quality Sciences (ISEEQS), Weizmann Institute, Israel
July 07, Jan 08	Invited lecture on “Principles of Disinfection”, Israeli Water Association, course on water treatment
July, 2007	Lecture, Particle Separation, Toulouse, France, 9-12
Feb 2008	Cooperation on NMP Theme, FP7-NMP-2008-SMALL-2 meeting, Venice, Italy
March 2008	Lecture, 5 th conference of the Israel Water Association, Kfar Maccabiah, Ramat Gan, Israel
April 2008	Lecture, A symposium on Environmental Technology Research at Tel Aviv University, Tel Aviv University, Israel
May 2008	Quality of tap water in Israel, Israel Water Association, Rehovot, Israel
May 2008	Student lecture, Biofilms in water, Israel Water Association, Technion, Israel
Sep 2008	Lecture, IWA World Water Congress, Vienna, Austria
Dec 2008	Plenary Lecture: “Treatment of pollutants in effluent, using AOP”, IWWA (Israel Water Works Association), Ruppin Academic Center, Israel
March 2009	Plenary Lecture: New developments in water research – Israel and UK perspectives, Technion, Israel
March 2009	Lecture, Environment 2020, Challenges, Innovations and Corporate Social Responsibility, Tel-Aviv, Israel
March 2009	Lecture, Magnet consortium, Biofouling, Sede-Boker, Israel
Nov 2009	WATEC 2009, 2 nd International Water Technologies, Renewable Energy & Env. Control Conference, Tel-Aviv, Israel
March 2010	Magnet consortium, Biofouling, Kfar Giladi, Israel
July 2010	BSF-sponsored complementary Workshop, entitled: "Emerging Health Aspects of Wastewater Reuse in Agriculture for Ensuring Sustainability", Nazareth, Israel.
Sep 2010	Lecture, IWA World Water Congress, Montréal, Canada
March 2011	Invited workshop on UV disinfection, Israeli Water Company, Mekorot
May 2011	Lecture, International Ultraviolet Association Conference (IUVA), Paris, France
June 2011	Magnet consortium, Biofouling, Sede-Boker, Israel
Sep 2011	NATIONEM meeting, EU 7th program, Surrey, London
Feb 2012	NATIONEM meeting, EU 7th program, L'Aquila, Italy
June 2012	Lecture, Advances in Particle Separation – Science, Technologies, Practice,, Berlin, Germany
August 2012	NATIONEM meeting, EU 7th program, Paris, France
Nov 2012	Magnet consortium, Biofouling, Givat Ram, Jerusalem, Israel
Dec 2012	Invited lecture on Environmental Innovations, PSES, TAU
April, 2013	Lecture, IOA International Conference on Safe water along its cycle - Ozone and Related Oxidants, Berlin, Germany
June 2013	NATIONEM meeting, EU 7th program, Copenhagen, Denmark
Sep 2013	Invited lecture and keynote, International Ozone Association & International Ultraviolet Association, Las-Vegas, USA
Sep 14	Lecture, IWA World Water Congress, Lisbon, Portugal
Oct 14	Lecture, Engineering Sustainability 2025, Transforming Innovation Through Internet of Things, UC, Irvine, USA
Jan 15	Lecture, First Lisbon-Tel Aviv Water Venture event, Collier Institute of Venture at Tel Aviv University, 28 Jan 2015, Lisbon, Portugal
Feb 15	Lecture, University For A Day, Collier Institute of Venture at Tel Aviv University, 7 Feb 2015, London, UK
March 15	Lecture, Israel Water Association, City Tower, Ramat Gan, Israel

April 15	Invited TED lecture, "Atnachta" Invited TED lecture, Tel-Aviv, Israel.
May 15	Invited keynote lecture, UV Research Conference, May 19-22, 2015, Wetsus Centre of Excellence for Sustainable Water Technology, Leeuwarden, Netherlands.
May 15	TAU invited lecture to Industrial Affiliates Program, Tel-Aviv, Israel.
Sep 15	Lecture, Workshop on Groundwater pollution at the Mezquital Valley, 27 Sep-1 Oct, Mexico city, Mexico
Oct 15	Lecture, UV Today: Innovative Solutions MidEast Conference on Ultraviolet Technologies: Innovations in UV Disinfection, 12 Oct, TLV convention center, Israel
Oct 15	Workshop on Israeli Water Security, 12-15 Oct, Porter, Tel-Aviv, Israel
Nov 15	Student lecture, Israel-Canada Workshop on Advanced Biofuels, 8-9 Nov, Rehovot campus of Hebrew University, Israel
Nov 15	Lecture, Irrigation with wastewater effluent, 25 Nov, Volcani Center, Bet-Dagan, Israel
February 16	Invited lecture, Workshop for experts on resistance to antibiotics, Yarkon Park, Israel
March 16	Participation, Research on Olives, Volcani Center, Bet-Dagan, Israel
April 16	Invited panel member, India water week, April 16, New Delhi
April 16	Invited lectures in IIT new Delhi, Teri University, CII water institute, JNU, April 16, New Delhi
June 16	Lecture, Conference of the Israel Society of Ecology & Environmental Sciences, Tel-Aviv, Israel
July 16	Lecture and organization, Symposium on Water reuse in Israel: Where we are, Where can we go
09/2016	Lecture, Novel technologies for mitigating emerging contaminants in wastewater reuse, Volcani Center, Bet-Dagan, Israel
09/2016	Invited lecture, Energy, sustainability and biomaterials, The 2nd NU-TAU workshop, Northwestern University, Evanston, IL, USA
09/2016	Invited member, standardization of disinfection, The standards Institution of Israel-Standardization Division, Tel Aviv, Israel
12/2016	Workshop on biological digestion in domestic wastewater, what can we learn
12/2016	Invited lecture, Novel technologies for mitigating emerging contaminants in wastewater reuse, Dec 16, Volcani Center, Bet-Dagan, Israel
12/2016	Session Co-Chair, A Bilateral Water Agenda: Using Policy and Technology to Ensure Water Security, Mumbai India
12/2016	Invited lectures IIT Mumbai, ICT Campus, Dec 21-22 2016, Mumbai India
01/2017	Invited plenary lecture, Isranalytica 2017
18/6/2017	Lecture, Promoting Technological Innovations in Engineering Science, Tel Aviv, Israel
2017	Participation, Water Security Conference, TAU, Israel
16/8/2017	Lecture, Wastewater disinfection and equivalent treatments, SII, Israel
17-19/8/2017	Organizing committee and organized a workshop and invited lecture on Advanced Oxidation, International Conference on Waste Water Management, ICWW2017, Kumaraguru college of technology, Coimbatore, India.
10-11/09/2017	Chair session and abstract review committee, International Conference on Cutting-Edge Solutions to Wicked Water Problems in Tel Aviv, Israel
17-20/9/2017	Lecture, IUVA World Congress, Dubrovnik, Croatia
11/2017	Invited lectures India Kumaraguru college of technology (Coimbatore), IIT Madras (Chennai), Praj Ind (Pune), BITS Goa, Nov 2017.
21-24/2/2018	TAU/UCI Grand Challenges Facing the Future of Freshwater Workshop, California, USA
March 2018	Israel-Italy Scientific workshop. Nano materials and nano technologies in Clean-Tech applications. TLV.
05/06/2018	Innovation in water and wastewater treatment, IWA conference, Chennai, India
3-4/08/2018	Invited lecture, Sustainable Engineering Systems, Hindustan University, India
08/2018	Invited lecture, Thapar Institute of Engineering & Technology, Punjab, Aug 18, India
08/2018	Invited lecture, Sustainable Resource Management with special reference to waste management, Aug 2018, Chennai, India
04/09/2018	Invited lecture, Advanced Industrial Wastewater treatment, Hall-II, IC&SR Building, IIT Madras, India
15/10/2018	Invited lecture, Workshop on recent advances in wastewater treatment, Pondicherry Engineering College, Pondicherry, India
23/10/2018	IWA India Chapter inauguration, Chennai

26/10/2018	Invited lecture, Water treatment technologies – workshop, Sathyabama, Chennai, India
18/12/2018	Lecture on Leadership in Public Policy, TAU
09/02/2019	Lecture in Workshop on assembly of foldscope and fluorescence imaging, KCT, India
6/2/2019	Lecture on LEDs for disinfection, IITM, India
15/02/2019	Invited lecture, River health assessment, BHU, Varanasi, India
08/3/2019	Invited Panel, Symposium to JFNA, Mumbai India
25-26/3/19	Lecture, Kohn-funded RS-IASH invited workshop 2019: Ensuring water safety in a changing climate by enhanced water and wastewater treatment, The Royal Society, UK
04/2019	Invited TED lecture from residual waste to bioenergy, Atnachta, TAU
05/2019	Science and Technology Education for a Sustainable World: Bi-National Opportunities, Tel-Aviv University, Israel
06/06/19	Panel member, and invited lecture on Water Sustainability, Growth net summit, Delhi, India
26/7/19	Member, Indo-Israeli expert group on water, Ananda Center, Delhi, India
26/8/2019	Panel member, 2 nd workshop and review meeting on Jal Shakti Abhiyan, Delhi, India
09/2019	Invited workshop, Lecture in Workshop on assembly of foldscope and fluorescence imaging, KCT, India, Sep 2019
13/9/2019	Round table meeting on ESG investing on water, Mumbai, India
19/9/19-26/9/19	Organizing team, The first Indo-Israeli high level academic dialogue on the challenge of water, Amrita University, Kerala, India
21-22/11/2019	Committee member, International Water Convention 2020 Programme Committee Meeting, Singapore
16-17/12/2019	Session chair, India-Israel Water Expert Group Seminar, 12th India-Israel Forum
31/12/2019	Invited lecture, Sustainable water technologies, Amrita University, Kerala, India
27/01/2020	Workshop, Centre of Excellence for food security, Thapar Institute of Engineering and Technology (TIET)
29/01/2020	Plenary lecture and workshop panel member on: Wastewater treatment and reuse for Global water scarcity, KCT, Coimbatore, India
8 /7/ 20	The Israeli Society of Ecology and Environmental Sciences, session on developing countries
22/8 2020	Invited lecture, IWA India, on line
8-9/12 20	Invited lecture, International Conference on UV Disinfection for Air and Surfaces (ICUDAS), on line
14/9 21	Lecture, The Israel Society of Ecology and Environmental Sciences
18-19/2 21	IUVA Asia Workshop, on line
16-17/3, 21	Plenary lecture, Light and Lighting from East to West: International Virtual Conference, on line
22/3 21	Cutting-edge Israeli Technologies and Innovation in the Water Arena, Mashav, on-line
22-25/3 21	Lecture, International Symposium on Water Sustainability: Challenges, Technologies & Opportunities (IWSS 2021), Amrita Vishwa Vidyapeetham, on-line
19–20/4, 21	The 2nd International Conference on UV LED Technologies & Applications, on line
02/6 21	Invited lecture, Tel Aviv University Climate Initiative Launch Event
07- 08/6 21	2021 IUVA World Congress, on-line
05/6 21	Invited lecture, International Consortium of Water Researchers (ICWR)
10/6/21	Invited lecture, Graduation ceremony of social sciences
28/6 21	Session chair in Singapore International Water Week, SIWW21, Singapore, on line
06/7 21	Invited lecture, Israeli Trade Missions in India "Israel-India Water-Tech Day" webinar, on line
15/7 21	Invited lecture, Google + TAU AI4Good initiative

E. ACADEMIC AND PROFESISONAL AWARDS (from 2010)

2013,2015,2018, 2019,	The Gordon center for energy studies award, TAU
2020, 2021, 2022	
07/2015	Vice president of research award for purchasing streaming potential analyser
2015	Honorable mention on teaching
2016	Excellence in teaching, List of 100, TAU

2020	Global Initiative of Academic Networks (GIAN) in Higher Education on Nanomaterials for Water Treatment, Government of India
2021	1 st place: Merage DeserTech competition in the water technology category with SoLED
2021	3 rd place in https://sustainil.com/ (finalist in the SustainIL national competition for top Israeli Environmental Startups)
2021	Listed in the 2021 Global Water Intelligence 25 worldwide female founders of water tech start-ups.

E.1 Internal Grants (as of 2010)

Year	Foundation	Title	Sum	Co-researchers	P.I
2013	The Gordon center for energy studies	Nanotechnology in combination with solar energy for drinking water disinfection	20,826 NIS		Hadas Mamane
2015	The Gordon center for energy studies	Advanced oxidation for the pretreatment of agriculture waste for bioethanol production	15,468 NIS		Hadas Mamane
2015	“Hedesh Yameno” Grant	Grant for equipment purchase (surface potential analyzer)	10,000 \$		Hadas Mamane
2017	The Boris Mints Institute for Strategic Policy Solutions to Global Challenges & Renewable energy center	Using plant wastes as a valuable resource for ethanol bio-fuel production, by tuning the oxidative treatment as a viable techno-economical solution	15000\$		Hadas Mamane
2017	Vice-president fund, TAU	Interaction of particles with ozone	30,000 NIS		Hadas Mamane
2018	The Gordon center for energy studies	SoLED-Cell – Disinfection in a cup	16334 NIS		Hadas Mamane
2019	The Gordon center for energy studies	Water desalination with low energy consumption	5000\$		Hadas Mamane
2019	Dean	Innovation in teaching	8000 NIS		Hadas Mamane
2019	Vice-president fund, TAU	Water treatment	12000 NIS		Hadas Mamane
2019-2020	XIN Research Grants for Tel-Aviv University Collaborative Applied Research with Tsinghua University	Nanocellulose co-produced with bioethanol from sweet sorghum stalks	50000 NIS		Hadas Mamane
2020	Vice-president fund, TAU	Water treatment	11,260 NIS		Hadas Mamane
2020	The Gordon center for energy studies	Dual functional 1D-catalytic Nanostructures: SOLAR photo-catalysis and SOLAR cell powered LED assembly	4000\$		Hadas Mamane
2020	Faculty of Engineering	Equipment support for Agilent Cary 4000 spectrophotometer	15,000\$		Hadas Mamane
2020	Data Science center	Improving Control of Wastewater treatment by Deep Learning Analysis	100,000 NIS	Yuval Shavitt	Hadas Mamane
2021	Center for combatting pandemics	UVC LEDs: a line of defense mechanism to contain pandemics	75,000 NIS	Michal Mandelboim	Hadas Mamane
2021	The Gordon center for energy studies	Performance analysis of multi wick stage batch solar distillation of biofuel	4000\$		Hadas Mamane

2021	NU-TAU	Anti-COVID-19 high-touch surfaces using photocatalytic transparent films	25,000\$	Kimberly A. Gray	Hadas Mamane
2021-2022	XIN Research Grants for Tel-Aviv University Collaborative Applied Research with Tsinghua University	Nanocellulose co-produced with bioethanol from sweet sorghum stalks	92000 NIS		Hadas Mamane
2021	Electra-TAU	Development of UV disinfection system for aerosols of corona in HVAC systems	500,000 NIS	Alex Liberzon	Hadas Mamane

E1.2 External Grants (as of 2010)

Year	Foundation	Title	Sum	Co-researchers	P.I
2007-2012	Ministry of Industry, Trade and Labor	Technologies for control of biofilms in water systems (Magnet)	1,400,000 NIS		Hadas Mamane
2010-2013	Ministry of Science, Culture and Sport (BMBF-MOST)	Simultaneous reduction of manganese solubilization and improved micropollutant removal by ozonation and short Soil Aquifer Treatment (SAT) of Shafdan secondary effluents	175,000 Euro	Prof. Martin Jekel	Hadas Mamane and Dror Avisar
June 2010-May 2013	FP7-NMP-2009-SMALL-3	NMP-2009-2.6-1 Novel membranes for water technologies (SICA)	3 M Euro total project (TAU 560,000 Euro)	Hadas Mamane and Dror Avisar	Prof. Boxman
Sep 2010-Aug 2013	Reshot Ha'maim	Advanced technologies for removal of micropollutants from effluent by advanced oxidation	350,000 NIS	Dror Avisar	Hadas Mamane
Feb 2012-Jan 2014	Ministry of Science and Technology-Israel-Italy	Degradation of recalcitrant pharmaceuticals in municipal wastewater by advanced oxidation processes	100,000 NIS per year	Dror Avisar	Hadas Mamane
2013-2017	ISF-Israeli Science Foundation	Novel Composite BiOCl/BiOBr and Similar Mixed Halide Heterostructures as Solar Light Driven Photocatalysts with Applications in Water Technologies	My part 100,000 NIS per year	Prof. Yoel Sasson	Hadas Mamane and Dror Avisar
2013-2017	European Union's 7th Framework Programme,	Water innovation demonstration projects DEMOWARE	Subcontract, my part 25,000 NIS per year		Hadas Mamane and Dror Avisar
2014-2017	Ministry of Environmental Protection	The use of Advanced Oxidation Processes (AOP) for pre-treatment of lignocellulosic biomass for bioethanol production	My part 50,000 NIS per year	Yoram Gerchman, Nicka Chincov	Hadas Mamane

2013-2017	Ministry of Science, Technology & Space	Treatment of hospital wastewater using hybrid MBR-modified AOP technology: Pilot study	735,000 NIS total for project		Hadas Mamane and Dror Avisar
2014-2017	Ministry of national infrastructures, energy and water resources	Catalytic processes for pre-treatment of lignocellulosic biomass for bioethanol production	700,000 NIS total for project	Yoram Gerchman	Hadas Mamane
2015-2018	Ministry of Science , Technology & Space	Integrating Physical, Chemical and Biological Technologies for Advanced Treatment of Persistent Micro-Pollutants from Treated Wastewater Effluent	437,000 NIS TAU part	Hadas Mamane, Carlos Desoretz, Yitzhak Hadar, Dror Avisar	Yael Mishael
2017-2018	Ministry of economy and industry	Innovative LED based disinfection	585000 NIS		Hadas Mamane and Yoram Gechman
2018-2022	ISF-Israeli Science Foundation	Interactions between colloidal particles and ozonation: insights into impact, catalysis and integration in water treatment processes	810,000 NIS		Hadas Mamane
2018-2020	MAGNETON Program for Technology Transfer from academy to industry - Israel Innovation Authority	A novel UV system with an enhanced effect for water by combined wavelengths (based on a patent)	1,000,000 NIS (TAU-Ramot) Total fund ~3,000,000 NIS	Yoram Gerchman Industrial partner: Atlantium LTD	Hadas Mamane
2019-2021	Ministry of Environmental Protection	Ozonation as a pre-treatment for ethanol as transportation fuel replacement – optimization and life cycle analysis.	150,000\$	Hadas Mamane and Yoram Gechman	Ofira Ayalon
2019-2021	SPARC Scheme for Promotion of Academic and Research Collaboration	Next generation multifunctional aerogels for treating soluble microplastics, pesticides, and drugs in water and recovery	50,000\$	Dror Avisar and Mohan S	Hadas Mamane and Rajnish Kumar, IITM
2019-2022	Adelson, Montreal	Support for water monitoring plan design in villages in Kerala India	50,000\$		Hadas Mamane
2019-2021	Thapar, India	Enhanced treatment of wastewater using a synergy of microalgae and microorganisms - without energy investment and biofuel production	15,000\$ + 7000\$	Yosi Shacham & Amit Dhir	Hadas Mamane
2020	Pears challenge Israeli Entrepreneurship Program	Pilot Technology in Humanitarian settings with IsraAID	Support pilot – sum not provided yet	Atlantium LTD	Hadas Mamane
2020-2021	Ministry of Science and Technology Corona virus research	Production of medical ethanol from agricultural waste for disinfection of SARS-CoV2 virus	200,000 NIS	Yoram Gerchman	Hadas Mamane

2021-2024	Ministry of Science and Technology	Green initiative: Antifouling enabled biodegradable ultrafiltration membrane technology for valorization of produced water	600,000 NIS	Ofir Menashe	Hadas Mamane
2021-2024	Ministry of Science and Technology BMBF-MOST	CO ₂ reduction in oxidation of micropollutants - energy intensive vs. novel solar based processes	220,000 Euro	Vered Blass Christiane Chaumette	Hadas Mamane

G. DOCTORAL STUDENTS SUPERVISED BY CANDIDATE

Current Doctoral students:

Period	Student, Faculty, Title
Oct 2015	Yan Rosen, Porter School of Environmental Studies, Advanced Oxidation Processes (AOP) for pre-treatment of lignocellulosic biomass for bioethanol production – soon completed In cooperation with Dr. Yoram Gerchman, Oranim at Haifa University.
Oct 16	Roi Peretz, Engineering, Combined conversion of Recycled paper sludge to bioethanol and Crystalline Nano Cellulose via ozone based processes – soon completed In cooperation with Dr. Yoram Gershman, Oranim at Haifa University.
March 16	Dr. Yifaat Betzalel, Development of LED systems for water disinfection”, Post-doc
Nov 17	Dr. Vinod Kumar. V, Sustainable Hybrid Nanomaterials for <i>In-situ</i> Production of H ₂ O ₂ /OH- Towards Advanced Oxidation Processes” post-doc from India
Oct 17	Patricia Kimi Akao. Microalgae utilization for plasticizers degradation, biofuel and bioplastic production, the circular economy concept – soon completed
Dec 20	Dr. Ramasamy Ganesamoorthy, Dual functional 1D-catalytic Nanostructures, Treatment of textile dyes, post-doc from India
Oct 19	Dana Pousty, Engineering, New processes in UV LED disinfection
March 2020	Eitan Benson, Engineering research student, Development of low cost water approaches in developing countries.
March 2020	Barak Halpern, Engineering, Waste to Bioethanol, circular economy concept
Oct 2021	Amit Inbar, Integrated solar photocatalytic membrane reactor for degradation of pollutants
	Asaf Pras

Previous Doctoral students

Period	Student, Faculty, Title
May 2007- Sep 2011	Avital Dror-Ahara, Faculty of Agriculture, Food and Environment (Rehovot), “Nanocolloidal particles as pretreatment to improve water quality and transport: mechanisms and interactions”. In cooperation with Prof. Avner Adin (Hebrew University) and Prof. Gil Markovich (School of Chemistry, TAU)
May 2008- Oct 2012	Yaal Lester, School of Mechanical Engineering, “Ozone and light based advanced technologies for the removal of pharmaceuticals and personal care products (PPCPs) from water and wastewater”. In cooperation with Prof. Dror Avisar (Geography and human Environment, TAU)
Oct 2008, direct PhD	Anat Lakretz, School of Mechanical Engineering, “Biofouling control in water by Ultra-violet (UV) irradiation and Advanced Oxidation Processes (AOPs)”. In cooperation with Prof. Eliora Ron (Life sciences, TAU)
Dec 2012	Liron Friedman, School of Mechanical Engineering, “Simultaneous reduction of manganese solubilization and improved micropollutants removal by ozonation and short Soil Aquifer Treatment (SAT) of Shafdan secondary effluents.” In cooperation with Prof. Dror Avisar (Geography and human Environment, TAU).
May 2012	Inna Horovitz, School of Mechanical Engineering, “Nano-structured TiON Photo-Catalytic Membranes for Water Treatment”. In cooperation with Prof. Dror Avisar (Geography and human Environment, TAU).

April 2012	Ines Zucker, Materials and Nano-technologies, "Removal of pharmaceuticals from wastewater by ozone based advanced oxidation processes". In cooperation with Prof. Dror Avisar (Geography and human Environment, TAU).
July 16	Dr. Karin Vered, Post doc, MS2 bacteriophage inactivation prediction in a photocatalytic membrane reactor

Current M.Sc. thesis students

Period	Student, Faculty, Title
Oct 2018	Amit Inbar, Integrated solar photocatalytic membrane reactor for degradation of hazardous acid dyes using TiO ₂ -doped g-C ₃ N ₄ nanocomposites
Oct 2018	Oran Fradkin "UV-LED combined with small bioreactor platform (SBP) for degradation of 17 α -ethynylestradiol (EE2) "
Oct 2019	Asaf Pras "Water monitoring in developing communities"
Oct 2019	Selda Edris "Wastewater treatment in developing communities"
Oct 2019	Michal Goldberger, "Low cost nitrate sensors for wastewater treatment"
Oct 2019	Omer Bar, "Stripping and recovery of ammonia from Centrate liquid of anaerobic digestion using a sulfuric acid by-product"
Oct 2020	Natali Shabat, "Characterization of the bacterial population in thermophilic anaerobic digestion, under the influence of changing environmental elements"
March 2020	Efrat Kohen, "AI for bio-reactors – Operation of Activated sludge process"
Oct 21	Asaf Cohen, "UV-LED reactors in developing countries"
Oct 21	Alona Maslenikov, "Nano-cellulose production from textile waste"
Oct 21	Yosef Perlmutter, "Green initiative"

Previous MSc students

Period	Student, Faculty, Title
Oct 2005-April 2008	Yaal Lester, School of Mechanical Engineering, "Removal of Antibiotic Residues from Wastewater by UV and Advanced Oxidation Processes (AOP's)". In cooperation with Prof. Dror Avisar (Geography and human Environment, TAU)
March 2006-Dec 2009	Claudio Kohn, Faculty of Agriculture, Food and Environment (Rehovot), "Characterizing effluent particles from in-line filtration system". In cooperation with Prof. Avner Adin (Hebrew University)
Oct 2006-Nov 2008	Orna Primor, Porter School of Environmental Studies, "Sorption of antibiotic to clay". In cooperation with Prof. Dror Avisar (Geography and human Environment, TAU)
Oct 2007-Sep 2008	Anat Lakretz, School of Mechanical Engineering, "Biofouling control and bacteria inactivation by various UV wavelengths and doses" In cooperation with Prof. Eliora Ron, Life sciences, TAU.
Oct 2008-May 2011	Liron Friedman, Porter School of Environment, "UV as a pretreatment to control the formation of biofouling on surfaces in a laboratory flow through reactor". In cooperation with Prof. Eliora Ron, Life sciences, TAU.
Oct 2008-May 2011	Dana Teitler, School of Mechanical Engineering, "Solar Disinfection of water: the Synergy of Solar UV and Heat". In cooperation with Prof. Avi Kribus (Mechanical Eng., TAU) and Prof. Abid Nasser, Ministry of Health.
March 2008-	Efrat Shabat, School of Mechanical Engineering, "Fluorescent tagged microorganisms - a new tool for validation of UV and AOP systems". In cooperation with Dr. Vitaly Gitis (Ben-Gurion University).
July 2010-March 2012	Inna Horowitz, School of Mechanical Engineering, "Nano-structured TiON Photo-Catalytic Membranes for Water Treatment". In cooperation with Prof. Dror Avisar (Geography and human Environment, TAU).
May 2010	Carmit Hagag, School of Mechanical Engineering, "Methods to increase total recovery ratio of RO concentrate".
Oct 2010	Ilana Sherman, School of Mechanical Engineering, "Use of Bismuth photocatalysts for water disinfection: inactivation and mechanism". In cooperation with Dr. Yoram Gershman, Oranim at Haifa University.
Oct 2010	Noa Aharoni, Porter School of Environment, "Molecular analysis of advanced oxidation processes (AOP) effect on bacteria in water". In cooperation with Prof. Eliora Ron, Life sciences, TAU.

Nov 2011	Michal Shavit, Porter School of Environment, "The influence of water constituent on the removal of pharmaceuticals, using bismuth-based photocatalysis and solar light irradiation". In cooperation with Prof. Dror Avisar (Geography and human Environment, TAU)
June 2012	Lilach Shtrasler, "Impact of coagulant dose on depth filtration and subsequent UV disinfection efficacy". In cooperation with Prof. Abid Nasser, Ministry of Health.
May 2012	Limor Nizri, "Development of a tool for examining UV performance in contaminated groundwater using DNA". In cooperation with Prof. Malka Halpern, Oranim at Haifa University.
March 2013	Enbal Luster, "Nano-structured TiON Photo-Catalytic Membranes for Water Treatment". In cooperation with Prof. Dror Avisar (Geography and human Environment, TAU).
Oct 2013	Alon Riani, "Elimination of trace organic compounds via ozonation before and after effluent filtration". In cooperation with Prof. Dror Avisar (Geography and human Environment, TAU).
July 2013	Roi Peretz, "The use of ozone for pre-treatment of lignocellulosic biomass for bioethanol production". In cooperation with Dr. Yoram Gerchman, Oranim at Haifa University.
Oct 2015	Yeara Bar Oz, "Pre-treatment of oil mill wastewater via ozonation followed by fixed biomass". In cooperation with Dr. Eyal Kurzbaum, Golan Research Institute, Haifa University, Katzerin
Oct 2017	Liza Sterenzon, "Removal of acid dyes from concentrated synthetic and real dye effluent using biochar as sustainable adsorbent"
Sep 2018	Maya Weinstein, Impact of irrigation with different water qualities and nitrogen loads on the plant-soil-leachate-atmosphere continuum

M.Sc. Project Students

<u>Period</u>	<u>Student, Faculty, Title</u>
Feb 2006-Oct 2007	Meirovitz Michael, School of Electrical Engineering, "Methods for measuring radicals in water within the plasma discharge". In cooperation with Prof. Reuven Boxman and Dr. Naum Parkanski. (Electrical Engineering, TAU)
Dec 2006-Oct 2007	Alexandra Lerner, School of Mechanical Engineering, "Characterizing UV fluence of polychromatic collimated beam systems".
Oct 2008-July 2009	Yariv land, School of Mechanical Engineering, "Fouling on MF and UF membranes by particles and organic matter".
Dec 2008-Dec 2009	Sivan Fradkin, "Differentiating particles and bacteria in water by image analysis".
May 2010	Nadav Shai, "Biofilms in drinking water distribution pipe systems".
July 2011	Hila Nisim-Nasimov, "Water treatment using light sensitive photocatalysts".
January 2012	Shai Vigdor, "Tertiary treatment in the Shafdan WWTP".
Feb 2012	Avigail Ahal, "Filtration of secondary effluents".
Nov 2012	Itsik Goldstein, "Influence of physical parameters on TiON coated membrane photocatalytic activity".
Oct 2012	Igor Chirksky, "Development of an SPE method".
Oct 2012	Saar Mezman, "Ozone as a disinfectant and its treatment effects on wastewater quality parameters".
Aug 2012	Liav ovadya, "Examination of the effect of adding hydrogen peroxide to Shafdan secondary effluents on sand columns activity".
Oct 2013	Miri Frank, "Mechanisms for degradation of trace organic compounds-literature survey and correlation to experimental data"
April 2013	Alex Vaisman, "Examination of the effect of hydrogen peroxide addition to secondary effluents fed into soil columns on nitrogen compounds and dissolved oxygen concentrations".
June 2014	Shlomi Amran, "Elimination of trace organic compounds via ozonation".
Aug 2015	Lior Berger, "Bismuth photo-catalysis of pollutants in water"
April 2015	Negest Rovel, "Silver doped Titanium dioxide for oxidation of pollutants"
Nov 2015	Roman Dvorkin, "Image analysis of particle in water via programing"
Dec 2015	Ruth Ben-Ari, "Impact of colloids on advanced oxidation processes"

2016	Eitan Levi "Reduction in contaminants from Galam plant"
Dec 2016	Michel Hakim, "Bio-kinetics in SAT with peroxide treatment by comparing empirical results to BioWin simulations with JMP assisted DOE"
July 17	Yaniv Levin, "Two-phase Flow Simulation of Lignocellulosic Biomass model Ozonation", co-advisor Dr. Tali Bar
Aug 2017	Guy Lanzman, "Bio-kinetics in SAT with peroxide treatment by comparing empirical results to BioWin simulations with JMP assisted DOE".
Oct 2017	Yael Setter, LED disinfection using 96 wells
2018	Linor Skutelsky, "Cellulose nanocrystals extraction from Recycled Paper Sludge (RPS) via Maleic acid hydrolysis "
2018	Michael Radvogin, "The effect of ozonation process on Recycled Paper Sludge (RPS) characteristics"
2019	Eli Wissotzky, Optimizing Enzyme Hydrolysis of pre-treated Recycled Paper Sludge (RPS) for ethanol production
2019	Dafna Or-Chen, Ozonation pre-treatment of paper-mill wastes for bioethanol production in relation to circular economy concepts: a review
2019	Hattav Yosef, Affordable water filtration using gravity
	Dror Lev, Affordable water filtration using gravity
2020	Altshuler Shir, Decolorization of Dyes From Textile Industry Effluence Using Biochar
2020	Eliran Aviv, Heavy metal removal solution for the development of a smart water bottle device
2020	Shai Rozentzvig, Heterogenous UV photocatalysis solution for the development of a smart water bottle device
2021	Guy Regev, Design and Prototyping of Low Pressure Turbine/Pump for Application in Low Income Setting
2021	Ofir Shurany, Backwash Pump Device for Ultrafiltration Membranes: Analysis and Design Optimisation

B.Sc. Project Students

<u>Period</u>	<u>Student, Faculty, Title</u>
Oct 2005- August 2006	Reut Alfassi, School of Mechanical Engineering, "Characterizing effluent particles in direct filtration process by image analysis".
Nov 2006- June 2007	Ido Ori and Ido Bar, Ben-Gurion University, "UV reactors in recirculating seawater systems at low head for marine fish industry". In cooperation with Dr. Noam Mozes and Dr. Angelo Colorni (Israeli Oceanographic and Limnological Research Ltd).
March 2011-April 2011	Reem Gayer, "Ozone Degradation of Cyclophosphamide from wastewater effluent".
2019	Shira Shon, Dor Kornysanski, Ariel Darmon, Yuval Neumann – The Green Project - "Biogas from Organic Waste" of the Engineering Cafeteria at TAU
Oct 2020	Karin Edry and Judy Kainan, The Green Project - "Biogas from Organic Waste" of the Engineering Cafeteria at TAU
Oct 21-June 21	Argaman Bushari, Metal-Organic Frameworks for the Removal of Acid Dyes from Wastewater, Material Engineering
Oct 2020	Alona Maslenikov, "Nano-cellulose production from paper waste"

H. TEACHING – current courses highlighted

"Climate Change and Sustainability: a Multi-Disciplinary View", lecture on technological solutions, winter spring 21

"Introduction to Environmental Engineering" – Project Based Learning - PBL course transformation, winter 19, winter 20, winter 21

"Technology for Sustainable Development" – Master program in developing countries, Social sciences, winter 20, winter 21

"Introduction to Environmental Engineering", lecturer, new undergraduate course, Mechanical Eng., TAU, winter 14, winter 15, spring 17.

"Technologies for water treatment", lecturer, graduate course, Mechanical Eng, TAU, winter 05, spring 07, spring 09, spring 10, spring 11, spring 12, spring 13, spring 15, spring 19, spring 20.

"Municipal and industrial wastewater treatment", lecturer, graduate, Mechanical Eng., TAU, spring 06, spring 08, winter 10, winter 11, winter 13, spring 15, spring 17, spring 19, spring 21.

“Heat and Mass Transfer”, lecturer, undergraduate, Biomedical Eng., TAU, winter 07, winter 08, winter 09, winter 10, winter 11, winter 13, winter 14, winter 15, winter 16, winter 17.

“Selected Matters in Treatment of Water and Wastewater”, lecturer, Porter school of Environmental Studies, spring 16.

“Intro to Mechanical Engineering”, lecturer (each course one lecture on water treatment), undergraduate, Mechanical Eng., TAU, winter 10, winter 11.

“Transport of pollutants in the environment”, lecturer, undergraduate, Mechanical Eng., TAU, spring 06.

“Water quality, improvement and reclamation”, lecturer, undergraduate, Soil and Water Sciences, Hebrew University, winter 05.

“Physico-chemical treatment processes”, teaching selected lectures, graduate, Civil and Env. Eng., Duke University, fall 04.

“Environmental Engineering”, teaching assistant (including lab preparation), undergraduate, Civil and Env. Eng., Duke University, fall 04.

“Chemistry and Microbiology for Environmental Engineers”, teaching assistant (including lab preparation), undergraduate, Civil and Env. Eng., Duke University, fall 03.

“Environmental Engineering” and “Air Pollution”, teaching assistant in two courses (preparing and conducting tutorials), graduate, Civil and Env. Eng., Technion, 1996-1998.

SCIENTIFIC PUBLICATIONS

B.1. Articles Published

1. Mamane-Gravetz, H* and Linden, K.G. (2004) UV disinfection of indigenous aerobic spores: implications for UV reactor validation in unfiltered waters, *Water Research* 38(12), 2898-2906.
Number of citation based on ISI: 26
Number of citations based on google scholar: 52
IF (2020): 11.236, Q1
2. Mamane-Gravetz, H* and Linden, K.G. (2005) Relationship between physiochemical properties, aggregation, and u.v. inactivation of isolated indigenous spores in water, *Journal of Applied Microbiology* 98(2), 351-363.
Number of citation based on ISI: 61
Number of citations based on google scholar: 101
IF (2020): 3.772, Q3
3. Mamane-Gravetz, H*, Linden, K.G., Cabaj, A. and Sommer, R. (2005) Spectral sensitivity of *Bacillus subtilis* spores and MS2 Coliphage for validation testing of ultraviolet reactors for water disinfection, *Environmental Science and Technology* 49, 7845-7852.
Number of citation based on ISI: 73
Number of citations based on google scholar: 123
IF (2020): 9.028, Q1
4. Mamane, H*, Ducoste, J.J. and Linden, K.G. (2006) Effect of particles on ultraviolet light penetration in natural and engineered systems, *Applied Optics* 45(8), 1844-1856.
Number of citation based on ISI: 19
Number of citations based on google scholar: 28
IF (2020): 1.98, Q3 in optics
5. Mamane, H* and Linden, K.G. (2006) Impact of particle aggregated microbes on UV disinfection. I: Evaluation of spore-clay aggregates and suspended spores, *ASCE Journal of Environmental Engineering* 132(6), 596-606.
Number of citation based on ISI: 25
Number of citations based on google scholar: 38
IF (2020): 1.657, Q3
6. Mamane, H* and Linden, K.G. (2006) Impact of particle aggregated microbes on UV disinfection. II: Proper absorbance measurement for UV fluence, *ASCE Journal of Environmental Engineering* 132(6), 607-615.
Number of citation based on ISI: 6
Number of citations based on google scholar: 11
IF (2020): 1.657, Q3
7. Bohrerova, Z*, Mamane, H*, Ducoste, J.J and Linden, K.G. (2006) Comparative inactivation of *Bacillus subtilis* spores and MS-2 coliphage in a UV reactor: Implications for validation, *ASCE Journal of Environmental Engineering* 132(12), 1554-1561.
Number of citation based on ISI: 14
Number of citations based on google scholar: 24

- IF (2020): 1.399, Q3*
8. Mamane, H., Shemer, H. and Linden, K.G. (2007) Inactivation of *E. coli*, *B. subtilis* spores, and MS2, T4, and T7 phage using UV/H₂O₂ advanced oxidation, *Journal of Hazardous Materials* 146, 479-486.
Number of citation based on ISI: 130
Number of citations based on google scholar: 223
IF (2020): 10.588, Q1

 9. Lester, Y*, Gozlan, I., Avisar, D. and Mamane, H. (2008) Photodegradation of sulphadimethoxine in water by medium pressure UV lamp, *Water Science and Technology* 58(5), 1147-1154.
Number of citation based on ISI: 17
Number of citations based on google scholar: 19
IF (2020): 1.915, Q3
 10. Mamane, H., Kohn, C*. and Avner, A. (2008) Characterizing shape of effluent particles by image analysis, *Separation Science and Technology* 43(7), 1737-1753.
Number of citation based on ISI: 10
Number of citations based on google scholar: 12
IF (2020): 2.475, Q3
 11. Mamane, H. (2008) Impact of particles on UV disinfection of water and wastewater effluents: a review, *Reviews in Chemical Engineering* 24 (2-3), 67-157.
Number of citation based on ISI: 36
Number of citations based on google scholar: 54
IF (2020): 6.299, Q1
 12. Parkansky, N., Alterkop, B.A., Boxman, R.L., Mamane, H. and Avisar, D. (2008) Submerged arc breakdown of sulfadimethoxine (SDM) in aqueous solutions, *Plasma Chemistry and Plasma Processing* 28(5), 583-592.
Number of citation based on ISI: 7
Number of citations based on google scholar: 15
IF (2020): 3.148, Q2
 13. Mamane, H., Bohrerova, Z. and Linden, K.G. (2009) Evaluation of *Bacillus* spore survival and surface morphology following chlorine and ultraviolet disinfection in water, *ASCE Journal of Environmental Engineering* 135(8), 692-699.
Number of citation based on ISI: 4
Number of citations based on google scholar: 9
IF (2020): 1.86, Q3
 14. Dror-Ehre, A*, Mamane, H., Belenkova, T., Markovich, G. and Adin, A. (2009) Silver nanoparticle - *E. coli* colloidal interaction in water and effect on *E. coli* survival, *Journal of Colloid and Interface Science* 339(2), 521-526.
Number of citation based on ISI: 160
Number of citations based on google scholar: 230
IF (2020): 8.128, Q1
 15. Lester, Y*, Gozlan, I., Avisar, D. and Mamane, H. (2010) Photodegradation of the antibiotic sulphamethoxazole in water with UV/H₂O₂ advanced oxidation process, *Environmental Technology* 31(2), 175-183.
Number of citation based on ISI: 47
Number of citations based on google scholar: 71
IF (2020): 3.247, Q3
 16. Lakretz, A*, Ron, E.Z. and Mamane, H. (2010) Biofouling control in water by various UVC wavelengths and doses, *Biofouling* 26(3), 257-267.
Number of citation based on ISI: 33
Number of citations based on google scholar: 54
IF (2020): 3.209, Q1
 17. Avisar, D., Lester Y* and Mamane, H. (2010) pH induced polychromatic UV treatment for the removal of a mixture of SMX, OTC and CIP from water, *Journal of Hazardous Materials* 175, 1068-1074.
Number of citation based on ISI: 73
Number of citations based on google scholar: 112
IF (2020): 10.588, Q1
 18. Dror-Ehre, A*, Adin, A., Markovich, G. and Mamane, H. (2010) Control of biofilm formation in water using molecularly capped silver nanoparticles, *Water Research* 44, 2601-2609.
Number of citation based on ISI: 40
Number of citations based on google scholar: 67
IF (2020): 11.236, Q1

19. Mamane, H., Bar, I*, Ori, I*, Colorni, A. and Mozes, N. (2010) The use of an open channel, low pressure UV reactor for water treatment in low head recirculating aquaculture systems (LH-RAS), *Aquacultural Engineering* 42, 103-111.
Number of citation based on ISI: 13
Number of citations based on google scholar: 23
IF (2020): **3.281, Q2**
20. Avisar, D., Primor, O*, Gozlan, I. and Mamane, H. (2010) Sorption of sulfonamides and tetracyclines to montmorillonite clay, *Water, Air, and Soil Pollution* 209, 1-4, 439-450.
Number of citation based on ISI: 102
Number of citations based on google scholar: 168
IF (2020): **2.52, Q3**
21. Lakretz, A*, Ron, E.Z. Harif, T and Mamane, H. (2011) Biofilm control in water by Advanced Oxidation Process (AOP) pre-treatment: effect of Natural Organic Matter (NOM), *Water Science and Technology* 64(9), 1876-1884.
Number of citation based on ISI: 11
Number of citations based on google scholar: 17
IF (2020): **1.915, Q3**
22. Lakretz, A*, Ron, E.Z. and Mamane, H. (2011) Biofilm control in water by a UV-based advanced oxidation process, *Biofouling* 27(3), 295–307.
Number of citation based on ISI: 16
Number of citations based on google scholar: 24
IF (2020): **3.209, Q1**
23. Lester, Y*, Avisar, D. and Mamane, H. (2011) Removal of pharmaceuticals using combination of UV/H₂O₂/O₃ advanced oxidation process, *Water Science and Technology* 64(11), 2230-2238.
Number of citation based on ISI: 53
Number of citations based on google scholar: 78
IF (2020): **1.915, Q3**
24. Theitler, D.J*, Nasser, A., Gerchman, Y., Kribus, A. and Mamane, H. (2012) Synergistic effect of heat and solar UV on DNA damage and water disinfection of *E. coli* and bacteriophage MS2. *Journal of Water and Health* 10(4), 605-618.
Number of citation based on ISI: 11
Number of citations based on google scholar: 16
IF (2020): **1.744, Q3**
25. Lester, Y*, Mamane, H. and Avisar, D. (2012) Enhanced removal of micropollutants from groundwater, using pH modification coupled with photolysis, *Water, Air, and Soil Pollution* 223(4), 1639-1647.
Number of citation based on ISI: 16
Number of citations based on google scholar: 20
IF (2020): **2.52, Q3**
26. Dror-Ehre, A*, Adin, A. and Mamane, H. (2012) Control of membrane biofouling by silver nanoparticles using *Pseudomonas aeruginosa* as a model bacterium. *Desalination and Water Treatment* 48, 130-137.
Number of citation based on ISI: 11
Number of citations based on google scholar: 13
IF (2020): **1.254, Q3**
27. Avisar, D., Horovitz, I*, Lozzi, L., Ruggeri, F., Baker, M., Abel, M.L. and Mamane, H. (2013) Impact of water quality on removal of carbamazepine in natural waters by N-doped TiO₂ photo-catalytic thin film surfaces. *Journal of Hazardous Materials* 244, 463-471.
Number of citation based on ISI: 59
Number of citations based on google scholar: 72
IF (2020): **10.588, Q1**
28. Lester, Y*, Avisar, D. and Mamane, H. (2013) Ozone degradation of Cyclophosphamide – effect of alkalinity and key effluent organic matter constituents. *Ozone: Science & Engineering* 35(2), 125 – 133.
Number of citation based on ISI: 7
Number of citations based on google scholar: 14
IF (2020): **2.562, Q4**
29. Lester, Y*, Mamane, H. Zucker, I* and Avisar, D. (2013) Treating wastewater from a pharmaceutical formulation facility by biological process and ozone. *Water Research* 47, 4349–4356.
Number of citation based on ISI: 69
Number of citations based on google scholar: 102
IF (2020): **11.236, Q1**

30. Lester, Y*., Sharpless, C.M., Mamane, H. and Linden, K.G. (2013) Production of photo-oxidants by dissolved organic matter during UV water treatment. *Environmental Science and Technology* 47, 11726–11733.
Number of citation based on ISI: 62
Number of citations based on google scholar: 79
IF (2020): 9.028, Q1
31. Lakretz, A*., Elifantz, H., Kviatkovski, I., Eshel, G. and Mamane, H. (2014) Automatic microfiber filtration (AMF) of surface water: impact on water quality and biofouling evolution *Water Research* 48, 592-604.
Number of citation based on ISI: 5
Number of citations based on google scholar: 11
IF (2020): 11.236, Q1
32. Lester, Y*., Avisar, D., Gnayem, H., Sasson, Y., Shavit, M*., and Mamane, H. (2014) Demonstrating a new BiOCl_{0.875}Br_{0.125} photocatalyst to degrade pharmaceuticals under solar irradiation. *Water, Air, and Soil Pollution* 225, 2132.
Number of citation based on ISI: 11
Number of citations based on google scholar: 14
IF (2020): 2.52, Q3
33. Mamane, H., Horovitz, I*., Lozzi, L., Di Camillo, D. and Avisar, D. (2014) The role of physical and operational parameters in photocatalysis by N-doped TiO₂ sol-gel thin films. *Chemical Engineering Journal* 257, 159–169.
Number of citation based on ISI: 31
Number of citations based on google scholar: 37
IF (2020): 13.273, Q1
34. Zucker, I*., Lester, Y., Avisar, D., Hübner, U., Jekel, M., Weinberger, Y. and Mamane, H. (2015) Influence of wastewater particles on ozone degradation of trace organic contaminants, *Environmental Science & Technology* 49, 301-308.
Number of citation based on ISI: 44
Number of citations based on google scholar: 60
IF (2020): 9.028, Q1
35. Taylor-Edmonds, L., Lichi, T., Rotstein-Mayer, A. and Mamane, H. (2015) The impact of dose, irradiance and growth conditions on *Aspergillus niger* (renamed *A. brasiliensis*) spores low-pressure (LP) UV inactivation, *Journal of Environmental Science and Health Part A-Toxic/Hazardous Substances & Environmental Engineering* 50, 341-347.
Number of citation based on ISI: 12
Number of citations based on google scholar: 17
IF (2020): 2.269, Q3
36. Grilli, R., Di Camillo, D., Lozzi, L., Horovitz, I*., Mamane, H., Avisar, D. and Baker, M.A. (2015) Surface characterisation and photocatalytic performance of N-doped TiO₂ thin films deposited onto 200 nm pore size alumina membranes by sol-gel methods. *Materials Chemistry and Physics* 159, 25-37.
Number of citation based on ISI: 15
Number of citations based on google scholar: 22
IF (2020): 4.094, Q2
37. Zucker, I*., Mamane, H., Cikurel, H., Jekel, M., Hübner, U. and Avisar, D. (2015) A hybrid process of biofiltration of secondary effluent followed by advanced oxidation and short aquifer treatment for water reuse. *Water Research*, 84, 315-322.
Number of citation based on ISI: 28
Number of citations based on google scholar: 37
IF (2020): 11.236, Q1
38. Friedman, L*., Harif, T., Herzberg, M. and Mamane, H. (2016) Mitigation of biofilm colonization on various surfaces in a model water flow system by use of UV. *Water Air and Soil Pollution*, 227, 43, 1-16. Impact factor 2016: 1.702.
Number of citation based on ISI: 7
Number of citations based on google scholar: 8
IF (2020): 2.52, Q3
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39. Horovitz, I*., Avisar, D., Grilli, R., Enevoldsen, A.D., Di Camillo, D., Baker, M.A., Lozzi, L. and Mamane, H. (2016) Carbamazepine degradation using a N-doped TiO₂ coated photocatalytic membrane reactor: influence of physical parameters. *Journal of Hazardous Materials*, 310, 98–107.
Number of citation based on ISI: 55
Number of citations based on google scholar: 72
IF (2020): 10.588, Q1

40. Zucker, I*, Avisar, D., Mamane, H., Jekel, M. and Hübner, U. (2016) Determination of oxidant exposure during ozonation of secondary effluent to predict contaminant removal. *Water Research*, 100, 508-516.
Number of citation based on ISI: 23
Number of citations based on google scholar: 28
IF (2020): 11.236, Q1
41. Sherman, I*, Gerchman, Y., Sasson, Y., Gnayem, H. and Mamane, H. (2016) Disinfection and Mechanistic Insights of *Escherichia coli* in Water by Bismuth Oxyhalide Photocatalysis. *Photochemistry and Photobiology*, 92, 826-834.
Number of citation based on ISI: 8
Number of citations based on google scholar: 10
IF (2020): 3.421, Q2
42. Luster, E*, Avisar, D., Horovitz, I*, Lozzi, L., Baker, M.A., Grilli, R. and Mamane, H. (2017). N-Doped TiO₂-Coated Ceramic Membrane for Carbamazepine Degradation in Different Water Qualities. *Nanomaterials*, 31, 7(8). E206. doi: 10.3390/nano7080206.
Number of citation based on ISI: 16
Number of citations based on google scholar: 17
IF (2020): 5.076, Q1
43. Lakretz, A*, Mamane, H., Cikurel, H., Avisar, D., Gelman, E., and Zucker, I*. (2017). The Role of Soil Aquifer treatment (SAT) for Effective Removal of Organic Matter, Trace Organic Compounds and Microorganisms from Secondary Effluents Pre-treated by Ozone. *Ozone: Science & Engineering* (doi.org/10.1080/01919512.2017.1346465).
Number of citation based on ISI: 12
Number of citations based on google scholar: 17
IF (2020): 2.562, Q3
44. Peretz, R*, Gerchman, Y., and Mamane, H. (2017). Ozonation of tannic acid to model biomass pretreatment for bioethanol production. *Bioresource Technology*. 241, 1060-1066.
Number of citation based on ISI: 13
Number of citations based on google scholar: 15
IF (2020): 6.669, Q1
45. Shabat-Hadas, E*, Mamane, H., and Gitis, V. (2017). Rhodamine B in dissolved and nano-bound forms: Indicators for light-based advanced oxidation processes. *Chemosphere*, 184, 1020-1027.
Number of citation based on ISI: 11
Number of citations based on google scholar: 13
IF (2020): 9.642, Q1
46. Nizri, L*, Vaizel-Ohayon, D., Ben-Amram, H., Sharaby, Y., Halpern, M. and Mamane, H. (2017) Development of a Molecular Method for Testing the Effectiveness of UV Systems On-Site. *Water Research*, 127, 15, 162-171.
Number of citation based on ISI: 5
Number of citations based on google scholar: 10
IF (2020): 11.236, Q1
47. Lakretz A*, Mamane H., Asa E, Harif T, Herzberg M. (2018) Biofouling control by UV/H₂O₂ pretreatment for brackish water reverse osmosis process. *Environmental Science: Water Research & Technology*. 4(9), 1331-44.
Number of citation based on ISI: 7
Number of citations based on google scholar: 9
IF (2020): 4.251, Q1
48. Zucker, I*, Mamane, H., Riani, A*, Gozlan, I. and Avisar, D. (2018) Formation and Degradation of N-Oxide Venlafaxine during Ozonation and Biological Post-Treatment. *Science of the Total Environment*, 619, 578-586.
Number of citation based on ISI: 16
Number of citations based on google scholar: 20
IF (2020): 7.963, Q1
49. Aharoni, N*, Mamane, H., Biran, D., Lakretz, A*, & Ron, E. Z. (2018). Gene expression in *Pseudomonas aeruginosa* exposed to hydroxyl-radicals. *Chemosphere*, 199, 243-250.
Number of citation based on ISI: 4
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