**Associate Prof. Min Jang**

Department of Environmental Engineering, Kwangwoon University, 447-1 Wolgye-Dong Nowon-Gu, Seoul, Korea

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| **Education** |
| 1999-2003 | **University of Wisconsin-Madison, USA (QS ranking = 37)** |
| Doctorate of Philosophy (1999/09/02~2003/10/23)Civil and Environmental Engineering, Dissertation Title: Arsenic removal from water using nano-scale metal oxide incorporated, highly ordered mesoporous silicate mediaAdvisor: Jae (Jim) K. Park |
| 1996-1998 | **Kwangwoon Unversity, Seoul, Republic of Korea** |
| Master of Science (1996/03/04~1998/02/24)Environmental Engineering, Dissertation Title: A study on the charateristics of washing agents for cleanup of contaminated soil |
| 1991-1996 | **Kwangwoon University, Seoul, Republic of Korea** |
| Environmental Engineering (1991/03/02~1996/02/23), (Top seat of the environmental engineering, 4.06/4.5) |
| **Funded and Pending Research Projects** |
| At UM | 2015-2018 | **Principal Investigator, MOA** with Sanha E&C, “Development of economic and effective sorption materials for heavy metals (15/07/2015 to 14/7/2018, USD 50,000) |
| 2015-2016 | **Co-Principal Investigator,** PRGS “pilot-scale treatment system development for batik wastewater (1/6/2015~30/05/2015, 50000 RM) |
| 2013-2016 | **Co-Principal Investigator,** FRGS “Fundamental Exploration of Surface Plasmon Resonance Mechanism on Visible Light Absorption in Titania based Photocatalysts” (122,000 RM) |
| 2013-2015 | **Principal Investigator,** ERGS “Nano-structured Magnesium Oxide Cored by Magnetite for Remediating Wastewater Contained by Toxic Heavy Metals” (01/06/2013 to 31/05/2015, 99,000 RM) |
| 2013-2015 | **Principal Investigator,** HIR-MOHE “Economic synthesis of Nano-structured Carbon Materials and Water Treatment Process for the Removal of Micro-pollutants” (01/06/2013 to 31/05/2015, 326,000 RM,) |
| 2013-2016 | **Principal Investigator,** UMRG “Water Quantity and Quality Performance Enhancement for Permeable Pavement Systems Using Waste Tires” (01/09/2013 to 31/08/2016, 302,000 RM) |
| 2013-2016 | **Principal Investigator,** UMRG **“**Graphene-based Sonocatalyst Synthesis and Sonocatalysis Process to Treat Persistent Organic Pollutants (POPs) in Water” (01/12/2013 to 30/11/2016, 300,000 RM) |
| 2011 | **Principal Investigator,** Korea Mine Reclamation Corporation (MIRECO) “Pilot-scale treatment process for arsenic contaminated mine drainage” |
| 2011 | **Principal Investigator,** Korea Mine Reclamation Corporation (MIRECO) **“**Pilot-scale treatment process for manganese contaminated mine drainage” |
| 2009 | **Co-Principal Investigator,** Korea Mine Reclamation Corporation (MIRECO), supported by APEC Mining Task Force (MTF) and Ministry of Knowledge Economy, Republic of Korea, “Assessment of sustainability of mining sector in APEC Sustainable”  |
| 2009 | **Co-Principal Investigator,** Korea Mine Reclamation Corporation (MIRECO), “Monitoring of AMD and treatment of Noi-Hoang Lake in Vietnam” |
| 2010 | **Principal Investigator,** Korea Mine Reclamation Corporation (MIRECO) “Recycling and utilization of coal mine drainage sludge” |
| 2009 | **Principal Investigator,** Korea Mine Reclamation Corporation (MIRECO) “Coagulation-flocculation process to enhance the performance of water treatment for AMD of coal mine” |
| 2009 | **Principal Investigator,** Korea Mine Reclamation Corporation (MIRECO) “Development of semi-active treatment for removing heavy metals in acid mine drainage” |
| 2009 | **Co-Principal Investigator,** Korea Mine Reclamation Corporation (MIRECO) “Acid mine drainage treatment and monitoring for Yong-dong coal mine” collaborated with Colorado School of Mines |
| 2007 | **Co-Principal Investigator** (Pis: Cannon & Dempsey)**,** AWWARF, “Arsenic removal techniques via activated carbon that is tailored with organic carboxyl-iron” May 16, 2005 to May 16, $100,000 |
| 2007 | **Co-Principal Investigator** (Pis: Cannon & Dempsey), AWWARF , “Arsenic treatment solutions for very small systems” May 2, 2005 to May 2, $100,000 |
| 2007 | **Co-Principal Investigator** (Pis: Cannon & Dempsey) NSF “Arsenic removal from water with iron-tailored activated carbon: fundamental redox characterization, September 1, 2005 to August 1, $100,000 |
| 2008 | **Co-Principal Investigator** (Pis: Cannon & Dempsey), AWWARF “Innovative arsenic removal onto activated carbon that is preloaded with orgnaic-iron complexes, phase II”, August 1, 2005 to July 1, $200,000 |
| 2004-2005 | **Co-Principal Investigator,** Tyco/Earthtech Corp, “Remediation of high-level of inorganic- and organic As contaminated groundwater” Sep. 2004~April 2005, $40,000 |
| 2003-2004 | **Co-Principal Investigator,** Robert Draper Technology Innovation Fund (TIF), UIR, “Development of Economic Synthesis Methods for Highly-Ordered Mesoporous Silicate Incorporated with Metal Oxides for Arsenic Removal”, July 2003 ~ June 2004 |
| 2002-2005 | **Co-Principal Investigator,** Ministry of Environment, Republic of Korea, Treatment of heavy metals contaminated soils and underground water using mesoporous media (2002. 12. 1 ∼ 2005. 5. 31) |
| 2001-2002 | **Co-Principal Investigator,** Applied Research Grant “Development of Mesoporous Media for Removal of Arsenic in Groundwater,” July 2001 ~ June 2002 |
| 2001-2002 | **Co-Principal Investigator,** Industrial & Economic Development Research Fund, “Development of Innovative Media for Arsenic Removal”, July 2001 ~ June 2002 |
| 2001-2003 | **Co-Principal Investigator,** UWS Groundwater Research Council, “Removal of arsenic in Groundwater Using Novel Mesoporous Media, July 2001 ~ June 2003 |
| 2000-2001 | **Co-Principal Investigator,** Wisconsin Solid Waste Research Program, “Impact of Mercury Attached in Spent Fluorescent Lamps on Recycling of Glass and Its Effect on Public Health and Environment”, July 2000 ~ June 2001  |
| 2000 | **Co-Principal Investigator,** Donohue and Associates, “Toxicity Screening Tests for St. Croix Falls Wastewater Treatment Plants”, Feb. 2000 ~ June 2000 |
| 2000 | **Co-Principal Investigator** RMT Inc., Toxicity Screening Tests, Jan. 2000 |
| 1999-2000 | **Co-Principal Investigator** Industrial & Economic Development Research, **“**Development of a Technology for Chromium Recovery from Waste Products Generated During Alkaline Hydrolysis of Leather Shavings”, July 1999 ~ June 2000 |
| 1998-1999 | **Co-Principal Investigator** Korea Institute of Science and Technology, “Fenton oxidation and adsorption to treat leachate” 1998.5~1999.6 |
| 1997-1998 | **Principal Author** Kwangwoon University, “Study on the soil washing technique for soils contaminated by TPH”, 1997. 5. 1 ∼ 1998. 2. 28 |
| 1997 | **Principal Author,** DI Engineering Corp., “Development of washing agent for remediating petroleum contaminated soils”, 1997. 9. 1 ∼ 1997. 11. 30 |
| 1997 | **Principal Author,** Korea Institute of Science and Technology, “Applicability study of soil washing techniques for petroleum contaminated soils, 1997. 2. 1 ∼ 1997. 12. 31 |
| 1994-1996 | **Principal Author,** Samsung Construction Technical Institute, “In-situ soil washing techniques for remediating contaminated soils”, 1994. 11. 28 ∼ 1996. 12. 14 |
| **Employment Experiences** |
| 2016. March - present | **Kwangwoon University – Associate Professor of Environmental Engineering** |
| 2012. Oct. - 2016. Feb | **University of Malaya – Professor of Civil Engineering**, Provide teaching and leadership in the areas of environmental engineering, environmental chemistry, ecology and communication skill. The special research areas are advanced oxidation process, adsorption, mine reclamation nano-technologies and process |
| 2006. Dec. – 2012. Nov. | **Korea Mine Reclamation Corporation under Ministry of Knowledge Economy (Republic of Korea), Team leader,** Conducted 8 projects in the research field of mine reclamation covering up water treatment, soil remediation, tailing stabilization (2006 Dec ~ 2012. Oct).  |
| 2005-2006 | **The Pennsylvania State University, Civil and Environmental Engineering**, **Research Fellow**, Conducted 4 different projects funded by NSF and AWWARF. |
| 2003-2005 | **University of Wisconsin – Madison, Civil and Environmental Engineering**, **Research Fellow**, Conducted 3 different projects funded by Ministry of Environment (Republic of Korea), Tyco/Earthtech Corp and UIR-Wisconsin. |
| 1999-2003 | **University of Wisconsin – Madison, Civil and Environmental Engineering**, **Research Assistant**, Conducted 7 different projects. |
| 1998-1999 | **Korea Institute of Science and Technology, Environment Remediation Research Center, Researcher**, Conducted several projects related to water treatment. |
| **Additional Relevant Experience** |
| 2016.8.30~2019.8.29 | 한국환경공단 민간투자사업 평가위원 |
| At UM | 2014-present | **Associate Editor, Chemosphere** – an Elsevier journal with an impact factor of 3.6 (http://www.journals.elsevier.com/chemosphere/) |
| 2013-present | **Member** of Nanotechnology and Catalysis Research Centre (NANOCAT), University of Malaya |
| 2013-present | **Editorial Board,** Advances in Chemistry |
| 2013-present | **Editorial Board,** Journal of Geochemistry |
| 2010 | **Registered in** Marquis Who’s Who in the World |
| 2010 | **Registered as** 2000 Outstanding Intellectuals of the 21th Centrury designated by IBC |
| 2010 | **Registered as** International Engineer of the Year 2010 designated by IBC |
| 2010 | **Registered as** TOP 100 Engineers appointed by IBC (international biographical centre) |
| 2009 | **Awarded by** Korea Geosystem Association |
| 2009 | **MIRECO CEO’s highest performer** (2009. May 28) |
| 2009 | **Registered in** Marquis Who’s Who in the World |
| 2009 | **Award** “MIRECO STAR” |
| **Publications** (Google Scholar h-index = 14, i10-index = 20 with 1129 citations as of 2015)(\* corresponding author) |
| 74 | 2016 | Chang Min Park, Yasir A. J., Al-Hamadani, Jiyong Heo, Namguk Her, Kyoung Hoon Chu, **Min Jang**, Yeomin Yoon\*, Evaluation of ultrasonication frequency effect on the stability and aggregation of single walled carbon nanotubes in the aquatic environment, Environmental Science: Nano, submitted |
| 73 | 2016 | Jiu-Qiang Xiong, Mayur B. Kurade, Dilip V. Patil, **Min Jang**, Byong-Hun Jeon\*, Enhanced biodegradation and metabolic fate of levofloxacin by a freshwater green alga, Scenedesmus obliquus under salinity stress, submitted |
| 72 | 2016 | Kah Hon Leong, Zhu Tan, Sim Lan Ching, Saravanan Pichiah, Detlef Bahnemann, **Min Jang**, Mechanistics characteristics of incorporated organic semiconductor with inorganic (g-C3N4/SrTiO3) for improved solar light, ***ACS Applied Materials & Interfaces***, submitted |
| 71 | 2016 | Mingcan Cui, Jongbok Choi, Yonghyun Lee, Junjun Ma, Dukmin Kim, Jaeyoung Choi, **Min Jang**\*, Jeehyeong Khim Sonocatalytic reduction of bromate in drinking water: Implications for removal mechanism, ***Water Research,*** submitted |
| 70 | 2016 | Yasir A. J. Al-Hamadani, Chanil Jung, Jong-Kwon Im, Linkel K. Boateng, Joseph R.V. Flora, **Min Jang**, Jiyong Heo, Chang Min Park, Yeomin Yoon\*, Sonocatalytic degradation coupled with single-walled carbon nanotubes for removal of ibuprofen and sulfamethoxazole, ***Chemical Engineering Science***, submitted. |
| 69 | 2016 | Chanil Jung, Kyoung Hoon Chu, Yi Huang, Miao Yu, Jiyong Heo, Joseph Flora, Am Jang, **Min Jang**, Changmin Park, Yeomin Yoon\*, Evaluation of graphene oxide-coated ultrafiltration membranes for humic acid removal at different pH and conductivity conditions, ***Separation and Purification Technology,*** submitted |
| 68 | 2016 | Sarita Dhaka, Rahul Kumar, Jeong-A Choi, Dong-Pyo Kim, Ki-Hyun Kim, **Min Jang**, Byong-Hun Jeon\*, Metal Organic Frameworks (MOFs) for the Removal of Emerging Contaminants in Aquatic Media, submitted |
| 67 | 2016 | Chang Min Park, Kyoung Hoon Chu, Namguk Her, **Min Jang**, Baalousha Mohammed, Jiyong Heo, Yeomin Yoon\*, Occurrence and removal of engineered nanoparticles in drinking water treatment and wastewater treatment processes, ***Separation and Purification Technology***, Major revision. |
| 66 | 2016 | Kyoung Hoon Chu, Yi Huang, Miao Yu, Jiyong Heo, Joseph Flora, Am Jang, **Min Jang**, Chanil Jung, Chang Min Park, Yeomin Yoon\*, Evaluation of graphene oxide-coated ultrafiltration membranes for humic acid removal at different pH and conductivity conditions, ***Environmental Science: Nano***, submitted Q1 |
| 65 | 2016 | Gooyong Lee, Mingcan Cui, Jeehyeong Khim, **Min Jang\***, Passive treatment of arsenic and heavy metals contaminated circumneutral mine drainage using granular polyurethane impregnated by coal mine drainage sludge, ***Journal of Hazardous Materials***, submitted Q1 |
| 64 | 2016 | Sharmini Sunasee, Gooyong Lee, Shaliza Ibrahim, Chulhwan Park, Nam Chan Kim, Yeomin Yoon, **Min Jang\***, Complete removal of Bisphenol A and intermediates by titanium dioxide based sonophotocatalysis, ***Environmental Science and Pollution Research,*** submitted Q1 |
| 63 | 2016 | Mohsen Vafaeifard, **Min Jang**\*, Facile and economic synthesis of self-assembled 3D flowerlike magnesium oxide nanostructure incorporated granular rigid polyurethane polymer to remediate heavy metals, ***Applied Materials and Interface***, in preparation Q1  |
| 62 | 2016 | Kyoung Hoon Chu, Yi Huang, Miao Yu, Jiyong Heo, Joseph R.V. Flora, Am Jang, **Min Jang**, Chanil Jung, Yeomin Yoon\*, Evaluation of graphene oxide-coated ultrafiltration membranes for humic acid removal, ***Journal of Cleaner Production*** Q1 |
| 61 | 2016 | Ranjini Nagarajah, Kien Tiek Wong, Gooyong Lee, Kyoung Hoon Chu, Yeomin Yoon, Nam Chan Kim, **Min Jang\***, Synthesis of a unique nanostructured magnesium oxide coated magnetite cluster composite and its application for the removal of selected heavy metals, ***Separation and Purification Technology***, minor revision, Q1  |
| 60 | 2016 | Gooyong Lee, Jungeun Bae, Sangeun Lee, **Min Jang**, Heekyung Park\*, Monthly chlorophyll-a prediction using neuro-genetic algorithm for water quality management in Lakes*,* ***Desalination and Water Treatment***, 57 (55), 26783-26791 Q2 |
| 59 | 2016 | Gooyong Lee, Faridah Othman, Shaliza Ibrahim and **Min Jang**\*, Determination of the forecasting-model parameters by statistical analysis for development of algae warning system, ***Desalination and Water Treatment*,** 57 (55), 26773-26782 Q2 |
| 58 | 2016 | Payam Moradi, Rosniah Che Abdullah, Gooyong Lee, Shaliza Ibrahim, Yeomin Yoon, **Min Jang\***, An efficient and economical treatment for batik textile wastewater containing high-level of silicate and organic pollutants by use of a sequential process of acidification, magnesium oxide and palm-shell based activated carbon application, ***Journal of Environmental Management***, 184, 229-239, Q1 |
| 57 | 2016 | Mohsen Vafaeifard, Gooyong Lee, Shatirah Akib, Shaliza Ibrahim, Yeomin Yoon, **Min Jang\***, Facile and economic synthesis of rigid calcium oxide – polyurethane composite materials and their application for heavy metal-contaminated urban storm-water runoff treatment, ***Desalination and Water Treatment***, 57(54), 26114-26129 Q2 |
| 56 | 2016 | Jinkwang Joo, Sang Jun Lee, Hah Young Yoo, Younghun Kim, **Min Jang**, Jinwon Lee, Sung Ok Han, Seung Wook Kim\*, Chulhwan Park\*, Improved conversion of lignocellulosic biomass to 2,3-butanediol production through investigation of effects of inhibitory compounds by Enterobacter aerogenes, ***Chemical Engineering Journal***, 306, 916-924 Q1 |
| 55 | 2016 | Chang Min Park, Jiyong Heo, Namguk Her, Kyoung Hoon Chu, **Min Jang**, Yeomin Yoon\*, Modeling the effects of surfactant, hardness, and natural organic matter on deposition and mobility of silver nanoparticles in saturated porous media, ***Water Research***, 103, 38-47 Q1 |
| 54 | 2016 | Farahin Mohd Jais, Shaliza Ibrahim, Yeomin Yoon, **Min Jang**\*, Enhanced arsenate removal by lanthanum oxide coated nano-magnetite composite incorporated palm shell-waste based activated carbon, ***Separation and Purification Technology***, 169, 93-102 Q1  |
| 53 | 2016 | Yasir A Al-Hamadani, Kyoung Hoon Chu, Joseph R.V. Flora, Do-Hyung Kim, **Min Jang**, Jinsik Sohn, Wanho Joo, Yeomin Yoon\*, Sonocatalytical degradation enhancement for ibuprofen and sulfamethoxazole in the presence of glass beads and single-walled carbon nanotubes, ***Ultrasonics Sonochemistry***, 32, 440-448 Q1  |
| 52 | 2016 | Eunseon Kim, Chanil Jung, Jonghun Han, Namguk Her, Chang Min Park, **Min Jang**, Ahjeong Son\*, Yeomin Yoon\*, Sorptive removal of selected emerging contaminants using biochar in aqueous solution, ***Journal of Industrial and Engineering Chemistry***, 36, 364-371, Q1 |
| 51 | 2016 | Kien Tiek Wong, Yeomin Yoon, Shane A Snyder, **Min Jang\***, Phenyl functionalized magnetic palm-based powdered activated carbon for the effective removal of selected pharmaceutical and endocrine disruptive compounds, ***Chemosphere,*** 152, 71-80 (HIR-7) Q1 |
| 50 | 2016 | Chang Min Park, Kyoung Hoon Chu, Jiyong Heo, Namguk Her, **Min Jang**, Ahjeong Son, Yeomin Yoon\*, Environmental behavior of engineered nanomaterials in porous media: a review, ***Journal of Hazardous Materials***, 309, 133-150. Q1  |
| 49 | 2016 | Jiyong Heo, Kyoung Hoon Chu, Namguk Her, Jongkwon Im, Yong-Gyun Park, Jaeweon Cho, Sarper Sarp, Am Jang, **Min Jang**, Yeomin Yoon\*, Organic fouling and reverse solute selectivity in forward osmosis: Role of working temperature and inorganic draw solutions, ***Desalination***, 389, 162-170 Q1 (if. 3.756)  |
| 48 | 2016 | Kien Tiek Wong, Nguk Chin Eu, Shaliza Ibrahim, Hyunook Kim, Yeomin Yoon, **Min Jang\***, Recyclable magnetite-loaded palm shell-waste based activated carbon for the effective removal of methylene blue from aqueous solution, ***Journal of Cleaner Production***, 115, 337-342, Q1 (HIR-6) |
| 47 | 2016 | Mingcan Cui, **Min Jang\***, Kyounglim Kang, Dukmin Kim, Jeehyeong Khim\*, Shane A Snyder, A novel sequential process for remediating rare-earth wastewater, ***Chemosphere***, 144, 2081-2090 (HIR-5) Q1 |
| 46 | 2015 | Yasir A. J. Al-Hamadani, Kyoung Hoon Chu, Ahjeong Son, Jiyong Heo, Namguk Her, **Min Jang**, Chang Min Park, Yeomin Yoon\*, Stabilization and dispersion of carbon nanomaterials in aqueous solutions: A review, ***Separation and Purification Technology***, 156, 861-874. Q1 |
| 45 | 2015 | Kah Hon Leong, Sze Ling Liu, Lan Ching Sim, **Min Jang**, Shaliza Ibrahim, Pichiah Saravanan\*, Surface reconstruction and Ag for promoting efficient electrons migration and enhanced visible light photocatalysis of titania with g-C3N4, ***Applied Surface Science***, 358, Part A, 370-376 (15 December 2015) (if. 2.711) Q1 |
| 44 | 2015 | Kien Tiek Wong, Yeomin Yoon, **Min Jang\***, Enhanced Recyclable Magnetized Palm Shell Waste-Based Powdered Activated Carbon for the Removal of Ibuprofen: Insights for Kinetics and Mechanisms, ***Plos One***, DOI:10.1371/journal.pone.0141013 (HIR-4) |
| 43 | 2015 | Ranjini Nagarajah, **Min Jang\***, Saravanan Pichiah, Jongman Cho, Shane A. Snyder, 2015, Nano-Structured Magnesium Oxide Coated Iron Ore: Its Application to the Remediation of Wastewater Containing Lead, ***Journal of Nanoscience and Nanotechnology***, 15, 9603-9611Q3 (if. 1.556)(ERGS-2) |
| 42 | 2015 | Kah Hon Leong, Lan Ching Sim, D. Bahnemann, **Min Jang**, Shaliza Ibrahim, Pichiah Saravanan\*, 2015, Reduced graphene oxide and Ag wrapped TiO2 photocatalyst for enhanced visible light photocatalysis. ***APL Materials***, 3, 104503. Q1 |
| 41 | 2015 | Shanmuga Kittappa, Saravanan Pichiah, Jung Rae Kim, Yeomin Yoon, Shane A. Snyder, **Min Jang**\*, Magnetised nanocomposite mesoporous silica and its application for effective removal of methylene blue from aqueous solution, ***Separation and Purification Technology***, 153, 67-75. Q1 (if. 3.091)(HIR-3) |
| 40 | 2015 | Chanil Jung, Narong Phal, Jeill Oh, KyoungHoon Chu, **Min Jang**, Yeomin Yoon\*, Removal of humic and tannic acids by adsorption–coagulation combined systems with activated biochar, ***Journal of Hazardous Materials***, 300, 808-814. Q1 |
| 39 | 2015 | Shanmuga Kittappa, Mingcan Cui, Malarvili Ramalingam, Shaliza Ibrahim, Jeehyeong Khim, Yeomin Yoon, Shane A. Snyder, **Min Jang\***, Synthesis Mechanism and Thermal Optimization of an Economical Mesoporous Material Using Silica: Implications for the Effective Removal or Delivery of Ibuprofen, ***PLos One***, DOI:10.1371/journal.pone.0130253 Q1 (if. 3.534) (HIR-2) |
| 38 | 2015 | Kyounglim Kang, **Min Jang\***, Mingcan Cui, Pengpeng Qiu, Seungmin Na, Younggu Son, Jeehyeong Khim\*, 2015, Enhanced sonocatalytic treatment of ibuprofen by mechanical mixing and reusable magnetic core titanium dioxide, ***Chemical Engineering Journal***, 264 (March 15), 522-530, Q1 (if. 4.058) |
| 37 | 2015 | Kyungho Kim, Eunju Cho, Binota Thokchom, Mingcan Cui, **Min Jang**, Jeehyeong Khim\*, Synergistic sonoelectrochemical removal of substituted phenols: Implications of ultrasonic parameters and physicochemical properties, ***Ultrasonics Sonochemistry***, 24 (May 1, 2015), 172-177 Q1 (if. 3.816) |
| 36 | 2014 | Hanna Choi, Nam C. Woo\* and **Min Jang\***, Fred S Cannon, Shane A. Snyder 2014, Magnesium oxide impregnated polyurethane to remove high levels of manganese cations from water, ***Separation and Purification Technology*** (IF. 3.065), 136 (Nov 5, 2014), 184-189 Q1 (ERGS-1) (if. 3.065) |
| 35 | 2014 | Seungmin Na, Young Uk Kim, **Min Jang**, Younggyu Son, Myunghee Lim, and Jeehyeong Khim\*, 2014, An economic assessment of the enhanced dewaterability of municipal wastewater sludge following ultrasonic treatment, ***Japanese Journal of Applied Physics*** 53, 07KE11 Q2 |
| 34 | 2014 | Kyounglim Kang, **Min Jang\***, Mingcan Cui, Pengpeng Qiu, Beomguk Park, Shane A. Snyder, Jeehyeong Khim\*, 2014, Preparation and characterization of magnetic-core titanium dioxide: Implications for photocatalytic removal of ibuprofen, ***Journal of Molecular Catalysis A: Chemical*** 390 (8) (Aug.1,2014), 178-186 (IF. 3.679) Q1 (HIR-1) |
| 33 | 2014 | Mingcan Cui, **Min Jang\***, Shaliza Ibrahim, Beomguk Park, Eunju Cho, Jeehyeong Khim, 2014, Arsenite removal using a pilot system of ultrasound and ultraviolet followed by microfiltration, ***Ultrasonics Sonochemistry***, 21(4), 1527-1534 (IF. 3.816) Q1 (2014.07.01) |
| 32 | 2014 | Eunkyung Kim, Mingcan Cui, **Min Jang**, Beomguk Park, Yonggyu Son, Jeehyeong Khim, 2014, Investigation of sonochemical activities at a frequency of 334 kHz: the effect of geometric parameters of sonoreactor, ***Ultrasonics Sonochemistry***, 21(4), 1504-1511, Q1 |
| 31 | 2014 | Pengpeng Qiu, Mingcan Cui, Kyounglim Kang, Beuonguk Park, Yonggyu Son, **Min Jang**, Jeehyeong Khim, 2014 Application of Box–Behnken design with response surface methodology for modeling and optimizing ultrasonic oxidation of arsenite with H2O2, ***Central european journal of chemistry***, 12(2),164-172 (IF. 1.167) Q2 |
| 30 | 2013 | Donghoon Shin, **Min Jang\***, Mingcan Cui, Seungmin Na, Jeehyeong Khim\*, 2013, Enhanced removal of dichloroacetonitrile from drinking water by the combination of solar-photocatalysis and ozonation, ***Chemosphere,***  93(11), 2901~2908, Q1 |
| 29 | 2013 | Mingcan Cui, **Min Jang\***, Seungmin Na, Seban Lee, and Jeehyeong Khim\*, 2013, Catalytic assistance of ultrasound for manganese removal by waste oyster shells, ***Journal of Environmental Management***, 115, 1~6, Q1 |
| 28 | 2013 | Mingcan Cui, **Min Jang\***, Seungmin Na, Jeehyeong Khim\*, Fred S. Cannon, Jae Kwang Park, 2013, Removal of dissolved Zn(II) using coal mine drainage sludge: Implications for acidic wastewater treatment, ***Journal of Environmental Management***, 116, 107 ~ 112, Q1 |
| 27 | 2012 | Mingcan Cui, **Min Jang**, Seban Lee, Jeehyeong Khim\*, 2012, Sonochemical Oxidation of Cyanide Using Potassium Peroxydisulfate as an Oxidizing Agent, ***Japanese Journal of Applied Physics***, 51(7S), 07GD13, July (SCI) Q2 |
| 26 | 2012 | Mingcan Cui, **Min Jang\***, Sang-Hyun Cho, Jeehyeong Khim\*, Fred S. Cannon, 2012 June, A continuous pilot-scale system using coal mine drainage sludge to treat acid mine drainage contaminated with high concentration of Pb, Zn, and other heavy metals, ***Journal of Hazardous Materials***, 215-216, 122-128 (SCI). Q1 |
| 25 | 2012 | Anup Gurung, Sang-Hun Kim, Jin Ho Joo, **Min Jang**, Sang-Eun Oh\*, 2012, Assessing toxicities of industrial effluents and 1,4-dioxane using sulphur-oxidising bacteria in a batch test, ***Water and Environment Journal***, 26(2), 224-234 (SCI) Q2 |
| 24 | 2012 | Byung-Tae Lee, James F. Ranville, Thomas R. Wildeman, **Min Jang**, Yon Sik Shim, Won Hyun Ji, Hyun Sung Park and Hyun Ju Lee, 2012, Assessment of Young Dong tributary and Imgok Creek impacted by Young Dong coal mine, South Korea, ***Environmental Geochemistry and Health***, 34, 95-103. (SCIE) Q1 |
| 23 | 2011 | Bui Thi Nuong, Kyoung-Woong Kim, Lunchakorn Prathumratana, Anna Lee, Keun-Young Lee, Tae-Heok Kim, Suk-Ho Yoon, **Min Jang** and Bui Du Duong, 2011.9. Sustainable Development in the Mining Sector and Its Evaluation Using Fuzzy AHP (Analytic Hierarchy Process) Approach, ***Geosystem Engineering***, 14(1), 43-50 (SCI) Q3 |
| 22 | 2011 | Mingcan Cui, Seban Lee, **Min Jang**, Boyoun Kweon, Hoyoung Jo, Jeehyeong Khim\*, 2011, Sonochemical oxidation of arsenite in aqueous phase, ***Japanese Journal of Applied Physics***, 50, 07HE13 (2011. June) (SCI) Q2 |
| 21 | 2011 | Mingcan Cui, **Min Jang**, Seban Lee, Boyoun Kweon, Seong-Taek Yun, Jeehyeong Khim, 2011, Arsenite Oxidation and Treatment by Ultrasonic/Iron in Aqueous Solutions, ***Japanese Journal of Applied Physics***, 50, 07HE08 (2011. July) (SCI) Q2 |
| 20 | 2011 | Mingcan Cui, **Min Jang**, Sang-Hyun Cho, David Elena, Jeehyeong Khim\*, 2011 May, Enhancement in mineralization of a number of natural refractory organic compounds by the combined process of sonolysis and ozonolysis (US/O3), ***Ultrasonics Sonochemistry***, 18 (3), 773-780. (SCIE) Q1 |
| 19 | 2011 | Jeongyi An, Ju-Yong Kim\*, Kyoung-Woong Kim, A-Young Kim, Jin-Soo Lee and **Min Jang**, 2011, Natural attenuation of arsenic in the wetland system around abandoned mining areas, ***Environmental Geochemistry and Health***, 33, 71-80. (SCIE) Q1 |
| 18 | 2011 | Jihoon Cha, Mingcan Cui, **Min Jang**, Sang-Hyun Cho, Jeehyeong Khim\*, 2011. January., Kinetic and mechanism studies of the adsorption of lead onto waste cow bone powder (WCBP) surfaces, ***Environmental Geochemistry and Health***, 33, 81-89. (SCIE) Q1 |
| 17 | 2011 | **Min Jang\***, Hyunho Kwon, 2011, Pilot-scale tests to optimize the treatment of net-alkaline mine drainage, ***Environmental Geochemisty and Health***, 33, 91-101. (SCIE) Q1 |
| 16 | 2011 | Mingcan Cui, **Min Jang**, Sanghyun Cho, Jeehyeong Khim\*, 2011 January, Potential application of sludge produced from coal mine drainage treatment for removing Zn(II) in an aqueous phase, ***Environmental Geochemisty and Health***, 33, 103-112. (SCIE) Q1 |
| 15 | 2010 | Mingcan Cui, **Min Jang**, Junghyun Lim, Younggyu Son, Jeehyeong Khim\*, 2010, Kinetic and thermodynamic studies of the adsorption of heavy metals onto new adsorbent coal mine drainage sludge, ***Environmental Technology***, 31(11), 1203-1211. (SCIE) Q2 |
| 14 | 2010 | **Min Jang\***, 2010, Application of portable X-ray fluorescence (pXRF) for heavy-metal analysis of soils in crop fields nearby abandoned mine sites, ***Environmental Geochemistry and Health***, 32(3), 207-216. Oct. 21 (SCIE) Q1 |
| 13 | 2010 | **Min Jang\***, Hyunju Lee, Yon-sik Shim, 2010, Rapid removal of fine particles from mine water using sequential process of coagulation and flocculation, ***Environmental Technology***, 31(4), 423-432. April 1 (SCIE) Q2 |
| 12 | 2009 | **Min Jang**, Fred S. Cannon\*, Robert B. Parette, Soh-joung Yoon, Weifang Chen, 2009, Combined hydrous ferric oxide and quaternary ammonium surfactant of granular activated carbon for concurrent arsenate and perchlorate removal, ***Water Research***, 43(12), 3133-3143, April. 23. (SCI) Q1 |
| 11 | 2008 | **Min Jang**, Weifang Chen, Fred S. Cannon\*, 2008, Preloading hydrous ferric oxide into granular activated carbon for arsenic removal, ***Environmental Science and technology***, 42(9), 3369-3374. May. 1. (SCI) Q1 |
| 10 | 2008 | Tak-Hyun Kim, **Min Jang\***, and Jae Kwang Park, 2008, Bifunctionalized mesoporous molecular sieve for perchlorate removal, ***Microporous and Mesoporous Materials***, 108(1-3), 22-28, Feb. 1 (SCI) Q1 |
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| 2 | 2004 | Eun Woo Shin\*, James S. Han, **Min Jang**, Soo-Hong Min, Jae Kwang Park, and Roger M. Rowell, 2004, Phosphorus adsorption on Al-impregnated mesoporous silicate: surface structure and behavior of adsorbents, ***Environmental Science and Technology***, 38(3); 912-917, Feb. 1. (SCI) Q1 |
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| **Presentations in International Conferences** |
| 46 | 2016 | Kien Tiek Wong, Sharmini Sunasee, Minji Kim, **Min Jang**\*, Complete removal of bisphenol A and intermediates by g-C3N4 based sono and visible light photocatalysis, International water industry conference 2016, Oct 18~21, Daegu Expo, South Korea |
| 45 | 2016 | Kien Tiek Wong, Soyeon Yoon, **Min Jang**\*, High selectivity of nitrate reduction into nitrogen gas by magnetic layered double hydroxides, International water industry conference 2016, Oct 18~21, Daegu Expo, South Korea |
| 44 | 2015 | **Min Jang\*** (Invited speaker), Mine hazard management seminar in Malaysia, Department of Mineral Geoscience, Ipoh, Malaysia, May 12, 2015 |
| 43 | 2015 | Shanmuga Kittappa, **Min Jang\***, Silica Powder based Mesoporous Materials: Its Application to Fast and Recyclable Removal of Pharmaceutical Compounds in Water., Published in the conference proceeding Oral Presentation at International Water Association (IWA) conference, held in Dalian China19 – 20 May 2015 |
| 42 | 2014 | Ranjini Nagarajah, **Min Jang\***, Saravanan Pichiah, Jongman Cho, Magnesium oxide cored by iron ore for wastewater treatment contaminated by lead, Malaysian International Chemical Congress (18MICC), 03~05 Nov., 2014 (Putra World Trade Centre, Kuala Lumpur) |
| 41 | 2014 | Sharmini Sunasee, **Min Jang\***, Synthesis of magnetic graphene based sonocatalyst and sonocatalytic process to remove bisphenol A (BPA) in water, Malaysian International Chemical Congress (18MICC), 03~05 Nov., 2014 (Putra World Trade Centre, Kuala Lumpur) |
| 40 | 2013 | Shanmuga Kittappa, **Min Jang\***, Synthesis of magnetized nano-structured carbon materials for the treatment of ibuprofen in water, International conference on water and wastewater management, 08 Oct 2013 to 10 Oct 2013 |
| 39 | 2013 | **Min Jang (Planery Speaking)** Porous materials to remediate water containing heavy metals, International conference on water and wastewater management, 08 Oct 2013 to 10 Oct 2013 |
| 38 | 2013 | **Min Jang**, Coal mine drainage sludge and its application for treating metallic mine effluent, 15th International Conference of the Pacific Basin Consortium for Environment and Health, 23 Sep 2013 to 27 Sep 2013, PBC |
| 37 | 2013 | **Min Jang**, Training workshop III. Water systems, rural areas, and indigenous people, 15th International Conference of the Pacific Basin Consortium for Environment and Health, 23 Sep 2013 to 27 Sep 2013, The Pacific Basin Consortium for Environment and Health (PBC) |
| 36 | 2012 | **Min Jang (Planery Speaking)** MIRECO's Experience in Prevention and Treatment of AMD, Workshop on Acid Mine Drainage, 19 Nov 2012 to 20 Nov 2012, Department of Mineral Geoscience |
| 35 | 2011 | Misun Park, **Min Jang\***, Ui Kyu Choi, Cui Mingcan, Jae K. Park, Applicapability of coal mine drainage sludge as an adsorbent for arsenic removal, 2011 International Symposium on mine reclamation with sustainable development, 2011, Korea (Sep.22~23) |
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| 33 | 2011 | Mingcan Cui, **Min Jang**, Seban Lee, Jeehyeong Khim, Arsenite and arsenate adsorption on coal mine drainage sludge – polyurethane granular multifunctional media (CMDS-PU GMM): adsorption kinetics and mechanisms, 2011 International Symposium on mine reclamation with sustainable development, 2011, Korea (Sep.22~23) |
| 32 | 2011 | Seban Lee\*, Mingcan Cui, **Min Jang**, Seungmin Na, Jeehyeong Khim, A study on the removal of manganese in aqueous phase by waste oyster shell(WOS): Kinetics and Mechanism, 2011 International Symposium on mine reclamation with sustainable development, 2011, Korea (Sep.22~23) |
| 31 | 2011 | Hanna Choi\*, Nam Chil Woo, **Min Jang**, Sang Hoon Lee, Efficiency of MgO impregnated polyurethane foams for the removal of dissolved Mn(II) in acid mine drainage, 2011 International Symposium on mine reclamation with sustainable development, 2011, Korea (Sep.22~23) |
| 30 | 2011 | Ui Kyu Choi, **Min Jang\***, Misun Park, Sunbaek Bang, Hyun-Ho Kwon, Cui Mingcan, Jae K. Park, Development of granular composite media for removing arsenic and copper in gold mine effluent, 2011 International Symposium on mine reclamation with sustainable development, 2011, Korea (Sep.22~23) |
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| 28 | 2011 | **Min Jang\* (Planery Speaking)**, Tae-Heok Kim, Jin Soo Lee, Yon-Sik Shim, and Hyun-Ho Kwon, Policy of Mining industry and mine reclamation in Korea, 2011 International Symposium on mine reclamation with sustainable development, 2011, Korea (Sep.22~23) |
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| 26 | 2010 | Seban Lee, Mingcan Cui, Seungmin Na, **Min Jang**, Jeehyeong Khim, Arsenite oxidation by ultrasound combined with UV-C in aqueous solution, Japanese Journal of Applied Physices.  |
| 25 | 2010 | Seban Lee, Mingcan Cui, Boyoun Kweon, Seong-Taek Yun, Myunghee Lim, **Min Jang**, Jeehyeong Khim, Sono-Oxidation of Arsenic(Ⅲ) in Aqueous Phase, Japanese Journal of Applied Physices, 2010. 12 |
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| 23 | 2009 | **Min Jang**\*, Hyunju Lee, Hyunsung Park, Wonhyun Ji, Yonsik Shim, Misun Park, Pilot-scale tests to treat net-alkaline mine water, International Symposium on Mine Reclamation, Gangwon-do, Korea, 2009 (Sep. 24) |
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| 17 | 2009 | J.F. Ranville, T.R. Wildeman, B.T. Lee, **M. Jang**, Y.S. Shim, W.H. Ji, H.S. Park, H.J. Lee, Assessment and treatment options at the Young dong coal mine site, South Korea, ASMR, 2009, Billings, MT. |
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| 14 | 2005 | Osten, D.E., **Jang, M.**, Park, J.K., 2005, Surface plasmon resonance coupled with molecularly imprinted polymers for detecting microcystin-LR, Abstracts of papers of the American chemical society 230: U1597 198- Envr, Aug 28. |
| 13 | 2005 | **Min Jang**, Soo Hong Min, Jae Kwang Park, Eric J. Tlachac, Christopher A. Robb, Sang Il Choi, Nano-scale hydrous ferric oxide (HFO) incorporated diatomite for permeable reactive barrier (PRB) application to remediate organic- and inorganic arsenic contaminated groundwater, International Symposium on Soil and Groundwater Environment, p. 123-125, October 28, 2005, Seoul, Korea. |
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| 11 | 2005 | **Min Jang**, Jung Sung Hwang, Jai-Young Lee, Sang Il Choi, Jae kwang Park, Sequential washing techniques using dual agents for arsenic-contaminated soil remediation in abandoned iron-ore, International Symposium on Soil and Groundwater Environment (Korean Society of Soil and Groundwater Environment), p. 178-180, October 27-28, 2005, Seoul, Korea. |
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| 4 | 2004 | Min, S. H., J. K. Park, R. M. Rowell, M. and **Jang, M.,** Diffusion-controlled adsorption of Cd2+ on base treated juniper fiber (BTJF): continuous fixed column study, American Water Resources Association (Wisconsin Section 28th meeting), Rapids, WI, USA, March 4-5, 2004 |
| 3 | 2004 | **Min Jang**, J. K. Park, E. W. Shin, S. I. Choi, J. Naser, S. H. Min, S. C. Kim, and S. B. Rho, Removal of arsenate using lanthanum oxide immobilized highly ordered mesostructured silicate, American Water Resources Association (Wisconsin Section 28th meeting), Rapids, WI, USA, March 4-5, 2004. |
| 2 | 2003 | Park, J. K., Park, J. H., Hong, S. M., **Jang, M.**, Lee, Y. O., Cho, Y. K., and Rho, S. B. Fate of methanol in condensate during anaerobic treatment in a paper mill, 7th IWA Symposium on Forest Industry Wastewaters, International Water Association - Seattle, USA, June 1-4, 2003 |
| 1 | 2002 | **Min Jang**, Eun Woo Shin, and Jae K. Park, Removal of arsenic using mesoporous silicate media impregnated metal oxides nano-paticles, WEFTEC, Water Environment Federation, Research Section 41, Chicago, USA, Sep.29-Oct.2, 2002 |
| **Supervision experiences** |
| **Ph.D.** | 2014-present | **Mohsen Vafaei Far**d, University of Malaya, “Functionalized Polymer To Remediate Water Containing Heavy Metals” |
| 2015-present | **Choong Choe Earn,** University of Malaya, “Nano-structural alkaline material for acid mine drainage treatment” |
| 2010 | **Mingcan Cui**, Korea University, “Removal of Zn(II) from aqueous solution by coal mine drainage sludge (Mechnism, Isotherm, kinetics studies and active treatment application)” |
| 2009 | **Yongsik Seo**, Kwangwoon University, “Soil washing for TPH contaminated soils and treatment for washing effluents” |
| 2006 | **Jiying Zou**, Pennsylvania State University, “Arsenic removal from groundwater with iron” |
| **Master** | 2013-present | **Wong Kien Tiek**, University of Malaya, “Synthesis Of Carbon Coated Nano Magnetite For Removing Micropollutants” |
| 2013-present | **Sharmini Sunasee**, University of Malaya, "Graphene-based sonocatalyst synthesis and sonocatalysis process to treat persistent organic pollutants(POPs) in water” |
| 2013-present | **Nagarajah Ranjini**, University of Malaya, “Flowlike Mgo Coated Magnetite For Removing Heavy Metals” |
| 2013-present | **Shanmuga Kittappa**, University of Malaya, “Economical Synthesis Of Mesostructured Nanomaterals For The Treatment Of Micropollutant” |
| 2013-present | **Farahin** **Mohd Jais**, University of Malaya, “Bi-metallic oxide composite incorporated activated carbon for adsorbing arsenic species in water” |
| 2010 | **Eungi Lee**, Kwangwoon University, “Soil remediation for TPH contaminated soils” |
| 2009 | **Kanghong Kim**, Kwangwoon University, “Field-scale washing technique for arsenic contaminated soils” |
| 2008 | **Jungsung Hwang**, Kwangwoon University, “Remediation of arsenic-contaminated soils and washing effluents” |
| 2005 | **Asavanich, P.**, University of Wisconsin-Madison, “Transport of Organic Compounds through Rubber-Base Landfill Liner” |
| 2004 | **Kapoor, Neha**, University of Wisconsin-Madison “Economic Synthetic Routes of Mesoporous Media” |
| **Teaching Experiences** |
|  | 2012/2013(1) | Thinking and communication skills |
| 2012/2013(2) | Environmental Engineering |
| 2012/2013(2) | ENVIRONMENTAL CHEMISTRY |
| 2013/2014(1) | THINKING AND COMMUNICATION SKILLS |
| 2013/2014(1) | ENVIRONMENTAL ENGINEERING |
| 2013/2014(2) | ENVIRONMENTAL CHEMISTRY |
| 2014/2015(1) | Environmental Engineering |
| 2014/2015(1) | Thinking and Communication Skills |
| 2014/2015(2) | ENVIRONMENTAL CHEMISTRY |