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**WORK EXPERIENCES**

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| --- | --- |
| *October 2008– Present* | **Senior Researcher**  **Urban Agriculture Research Division**  National Institute of Horticultural and Herbal Science  Rural Development Administration, Republic of Korea |
| *March 1994 – December 2001* | **Researcher**  **Floriculture Research Division**  National Institute of Horticultural and Herbal Science  Rural Development Administration, Republic of Korea |
| *March 1999 August 1999* | **Lecturer**  Department of Horticultural Science  Chungang University Republic of Korea |
| *September 2000- December 2003* | **Lecturer**  Department of Life Science  Seoul Education University Republic of Korea |
| *March 200 4- August 2004* | **Lecturer**  Department of Environment Horticulture Design  Sahmyook University Republic of Korea |
| *September 2005 – September 2008* | **Lecturer**  Department of Environmental Horticulture  University of Seoul  Republic of Korea |

**EDUCATION**

|  |  |
| --- | --- |
| *2002* | **PhD Horticulture**  Seoul National University  Republic of Korea |
| *1997* | **MS Environmental Horticulture**  University of Seoul  Republic of Korea |
| *1993* | **BS Environmental Horticulture**  University of Seoul  Republic of Korea |

**EXPERTISE AND RESEARCH INTERESTS**

* Phytoremediation of indoor air (particulate matter, volatile organic compounds)
* Biofiltration systems
* Plant-human communication (biological volatile organic compounds)
* IOT in indoor plant cultivation
* Physiology of flower bulbs
* Breeding of carnation

**PUBLICATIONS**

**Kwang Jin Kim\*,** Hyeon Ju Kim, Deokjoo Son, Na Ra Jeong, Hyung Gewon Yun, Seung Won Han, Soojin You, Chan-joong Kim, and Seon Hwa Lee. 2019. Identification of Plant Response to the Human Behavior of Crushing Plants. **J. People Plants Environ.** 22(6): 593-600.

Deokjoo Son, **Kwang Jin Kim\*,** Na Ra Jeong, Hyung Gewon Yun, Seung Won Han, Jeongho Kim, Gyung-Ran Do, Seon, Hwa Lee, and Charlotte C. Shagol. 2019. The Impact of the Morphological Characteristics of Leaves on Particulate Matter Removal Efficiency of Plants. **J. People Plants Environ.** 22(6): 551-561.

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Min-Ju Hwang, Myeong-Gi Kim, Sanghoon Kim, Ye Chan Kim, Hee Won Seo, Jung Keun Cho, In-Kyung Park, Jonghwan Suhr, Hyungpil Moon, Ja Choon Koo, Hyouk Ryeol Choi, Kwang Jin Kim, Yongsug Tak, Jae-Do Nam. 2019. Cathodic electrophoretic deposition (EPD) of phenylenediamine-modified graphene oxide (GO) for anti-corrosion protection of metal surfaces. **Carbon** 142:68-77.

**Kwang Jin Kim**, Md. Khalekuzzaman, Jung Nam Suh, Hyeon Ju Kim, Charlotte Shagol, Ho-Hyun Kim, and Hyung Joo Kim. 2018. Phytoremediation of volatile organic compounds by indoor plants: a review. **Hortic Environ Biote** 59(2): 143-157.

Charlotte Shagol, **Kwang Jin Kim**, Seung Won Han, Na Ra Jeong, Hyeon Ju Kim, Young Bin Jung, and Hyung Kwon Yun. 2018. Identification and classification of indoor plants according to light intensity requirements for botanical IoT application. **J People Plants Environ** 21(5): 329-341.

Yujin Oh, Saerom Park, Eunjin Yoo, Soyeon Jo, Jiyeon Hong, Hyung Joo Kim, **Kwang Jin Kim**, Kyeong Keun Oh, Sang Hyun Lee. 2018. Dihydrogen-bonding deep eutectic solvents as reaction media for lipase-catalyzed transesterification. **Biochem Eng J** 142. DOI: 10.1016/j.bej.2018.11.010.

Sung Hyun Hwang, Woo Young Kwon, Hyunmin Eun, Sehan Jeong, Jun Seok Park, **Kwang Jin Kim**, Hyung Joo Kim, Sang Hyun Lee, Kyungmoon Park, Jeong-Jun Yoon, Yung-Hun Yang, Ki Soo Park. 2018. The use of a 2-aminopurine-containing split G-quadruplex for sequence-specific DNA detection. **Artif Cell Nanomed B** 46:sup3, S950-S955, DOI: 10.1080/21691401.2018.1521817.

Tae Hang Yoon, Hak Jin Song, Woo Young Jung, Ji Eun Kim, **Kwang Jin Kim,** Ho Hyun Kim, Rangarajulu Senthil Kumaran, Sunghyun Kim, Hyung Joo Kim. 2018. Monitoring Plant Health Using a Plant Microbial Fuel Cell. **Bull Korean Chem Soc** 39(10). DOI: 10.1002/bkcs.11575

**Kwang Jin Kim**, Mohammad Khalekuzzaman, Charlotte Concepcion Shagol, Jung Nam Suh, and Hyeon Ju Kim. 2017. Volatile Organic Compound Removal Efficiency of Green and Variegated Foliage Plants Grown under Different Light Intensities. **J People Plants Environ** 20 (5): 531-542.

Min Ju Chang, Chang Joong Kim, Yong Keun Choi, Hak Jin Song, Sok Young Shim, Sang Hyun Lee, Yung Hun Yang, **Kwang Jin Kim**, Hyung Joo Kim. 2017. Effect of Electrical Ground Connection on Plant Growth. **Bull Korean Chem Soc** 38(12). DOI: 10.1002/bkcs.11304.

Jung Nam Suh, **Kwang Jin Kim**, Yoonah Jang. 2017. A Noble Method for Estimating Visual Greenery Ratio in Indoor Environment. **J People Plants Environ** 20(5):495-501. DOI: 10.11628/ksppe.2017.20.5.495.

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Hye Won Han, Seung Won Han, Ji Sung Kim, **Kwang Jin Kim**. 2017. Assessment of Programs and Operation for Consumer Horticultural Education at Agricultural Extension Service Centers in Korea. **J People Plants Environ** 20(5): 407-419DOI: 10.11628/ksppe.2017.20.5.407.

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Yong-Keun Choi, Hyun-Joong Kim, Rangarajulu Senthil Kumaran, Hak-Jin Song, Kyung-Guen Song, **Kwang Jin Kim**, Sang Hyun Lee, Yung-Hun Yang, Hyung Joo Kim. 2017. Enhanced growth and total fatty acid production of microalgae under various lighting conditions induced by flashing light. **Eng Life Sci** 17(9). DOI: 10.1002/elsc.201700001.

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**Kwang Jin Kim**, H. J. Kim, M. Khalekuzzaman, E. H. Yoo, H. H. Jung, H. S. Jang. 2016. Removal ratio of gaseous toluene and xylene transported from air to root zone via the stem by indoor plants. 2016. **Environ Sci Pollut Res** (2016) 23: 6149. https://doi.org/10.1007/s11356-016-6065-y

Hye Sook Jang, **Kwang Jin Kim**, Eunha Yoo, Hyun Hwan Jung. 2016. Differences in the Preference and Emotion to Indoor Foliage Plant Grouped by the Type of Design Material**. J Kor Soc People Plants Environ** 19(5): 447-456. DOI: 10.11628/ksppe.2016.19.5.447

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Jung-Ho Kim, Shashi Kant Bhatia, Dongwon Yoo, Hyung Min Seo, Da-Hye Yi, Hyun Joong Kim, Ju Hee Lee, Kwon-Young Choi, **Kwang Jin Kim**, Yoo Kyung Lee, Yung-Hun Yang. 2015. Lipase-Catalyzed Production of 6-O-cinnamoyl-sorbitol from D-sorbitol and Cinnamic Acid Esters. **Appl Biochem Biotech** 176(1). DOI: 10.1007/s12010-015-1570-x.

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Eunha Yoo, Hye Sook Jang, **Kwang Jin Kim**, Hyun Hwan Jung, Yun Jeong Kim. 2015. Effect of Green Interior Home on Emotional Psychology of Human. **J People Plants Environ** 18(4): 249-256. http://dx.doi.org/10.11628/ksppe.2015.18.4.249.

**Kwang Jin Kim**, Hyun Hwan Jung, Hyo Won Seo, Jung A. Lee, and Stanley J. Kays. 2014. Volatile Toluene and Xylene Removal Efficiency of Foliage Plants as Affected by Top to Root Zone Size. **HortScience** 49(2): 230-234.

Hyeon Jin Jeon, Yong-Keun Choi, Hye Seon Eom, Geun-Ho Kang, **Kwang Jin Kim**, Yung-Hun Yang, Sang Hyun Lee, Kwang Ho Kim, Sun Jong Kim, Hyung Joo Kim. 2014. Comparison among dry cell weight, chlorophyll a concentration, and amperometric signal during a batch cultivation of *Spirulina maxima*. **Sensor Actuat B Chem** 205:9-11. DOI: 10.1016/j.snb.2014.08.047.

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S.W. Bang, J.Y. Kim, J.E. Song, **K.J. Kim** , D.H. Kim. 2013. Effect of the bio green wall system for the improvement of indoor environment. **J Kor Soc People Plants Environ** 16:415 - 420 DOI : 10.11628/ksppe.2013.16.6.415.

**Kwang Jin Kim**, Hyun Hwan Jung, Jung A Lee. 2013. Physiological Response of Indoor Plants according to Formaldehyde Concentrations. **J Kor Soc People Plants Environ** 16: 421. DOI: 10.11628/ksppe.2013.16.6.421.

Sung Won Bang, Jong Eun Song, Young Eun Park, **Kwang Jin Kim**. 2013. Evaluation of Design Preference on the Functional Plant Pot. **J Kor Soc People Plants Environ** 16:485. DOI: 10.11628/ksppe.2013.16.6.485.

Ho-Hyun Kim, Jae Young Lee, Hyo Jin Kim, Yong Won Lee, **Kwang Jin Kim**, Ju Hee Park, Dong Chun Shin, and Young Wook Lim. 2013. Impact of Foliage Plant Interventions in Classrooms on Actual Air Quality and Subjective Health Complaints. **J Jpn Soc Hort Sci** 82(3):255-262.

**Kwang Jin Kim**, Eun Ha Yoo, and Stanley J. Kays. 2012. Decay Kinetics of Toluene Phytoremediation Stimulation. **HortScience** 47(8):1195-1198.

**Kwang Jin Kim**, Eun Ha Yoo, Myeong Il Jeong, Jeong Seob Song, Seung Youn Lee, and Stanley J. Kays. 2011. Changes in the Phytoremediation Potential of Indoor Plants with Exposure to Toluene. **HortScience** 46(12):1646-1649.

**Kwang Jin Kim**, Myeong Il Jeong, Dong Woo Lee, Jeong Seob Song, Hyoung Deug Kim, Eun Ha Yoo, Sun Jin Jeong, et al. 2010. Variation in Formaldehyde Removal Efficiency among Indoor Plant Species. **HortScience** 45 (10):1489-1495.

Ho-Hyun Kim, Jung-Won Park, Ji-Yeon Yang, **Kwang-Jin Kim**, Jae-Young Lee, Dong-Chun Shin and Young-Wook Lim. 2010. Evaluating the Relative Health of Residents in Newly Built Apartment Houses according to the Presence of Indoor Plants. **J Jpn Soc Hort Sci** 79(2): 200–206.

Young-Wook Lim, Ho-Hyun Kim, Ji-Yeon Yang, **Kwang-Jin Kim**, Jae-Young Lee, and Dong-Chun Shin. 2009. Improvement of Indoor Air Quality by Houseplants in New-built Apartment Buildings. **J Jpn Soc Hort Sci** 78 (4): 456-462.

**Kwang Jin Kim**, Mi Jung Kil, Myeong Il Jeong, Hyoung Deug Kim, Eun Ha Yoo, Sun Jin Jeong, Chun Ho Pak, and Ki-cheol Son. 2009. Determination of the Efficiency of Formaldehyde Removal According to the Percentage Volume of Pot Plants Occupying a Room. **Korean J Hortic Sci** 27: 305-311.

**Kwang Jin Kim**, Myeong-Il Jeong, Dong-Woo Lee, Hyoung-Deug Kim, Eun-Ha Yoo, Sun-Jin Jeong, Seung-Won Han, and Seung-Youn Lee. 2009. Water Absorption and Water Diffusion by Irrigation System in the Planters for Indoor Plants. **J Kor Soc People Plants Environ** 12(6): 57-63.

Lee, S.Y.; Yoon, N.H.; Gu, J.H.; Jeong, S.J.; **Kim, K.J**.; Rhee, J.C.; Lee, T.J.; Lee, J.S. 2009. Effect of Leaf Number and Rooting Media on Adventitious Rooting of Softwood Cuttings in Native Hydrangea serrata for. Acuminate. **Korean J Hortic Sci** 27(2):199-204.

Seung Youn Lee, **Kwang Jin Kim**, Jeong Sik Lee. 2008 Characteristics of Seed Germination and Seedling Growth of Native Hydrangea serrata for. Acuminate. **Flower Res J** 16(2):134-142

**Kwang Jin Kim** and Hyoung Deug Kim. 2008. Development of Model and Calculating Equation for Rate of Volatile Formaldehyde Removal of Indoor Plants. **Hortic Environ Biote** 49(3):1-7.

**Kwang Jin Kim**, Mi Jung Kil, Jeong Seob Song, Eun Ha Yoo, Ki-Cheol Son, and Stanley J. Kays. 2008. Efficiency of Volatile Formaldehyde Removal by Indoor Plants: Contribution of Aerial Plant Parts versus the Root Zone**. J Am Soc Hortic Sci** 133 (4): 521-526.

Mi Jung Kil, **Kwang Jin Kim**, Jung Kun Cho, and Chun Ho Park. 2008. Formaldehyde Gas Removal Effects and Physiological Responses of *Fatsia japonica* and *Epipremnum aureum* According to Various Light Intensity. **Korean J Hortic Sci** 26 (2): 1-8.

**Kwang Jin Kim** and Dong Woo Lee. 2008. Efficiency of Volatile Formaldehyde Removal of Orchids as Affected by Species and Crassulacean Acid Metabolism (CAM) Nature. **Hortic Environ Biote** 49 (2):132-137.

Young-Wook Lim, Ho-Hyun Hyoung, Deug Jin Kim, Ji-Yeon Yang, **Kwang Jin Kim**, Jae-Young, Jung A Lee, Dong-Chun Shin, Eun Ha Yoo, et al. 2008. Determination of the Efficiency of Formaldehyde Removal According to the Percentage Volume of Pot Plants Occupying a Room. **HortScience** 49(3): 521-526. doi:10.5620/eht.e2014014.

**K.J. Kim** and H.D. Kim. 2008. Development of model and calculating equation for rate of volatile formaldehyde removal of indoor plants. **Hortic Environ Biote** 49:155-161.

**K.J. Kim**, M.J. Kil, J.S. Song, E.H. Yoo, K.C. Son and S.J. Kays. 2008. Efficiency of volatile formaldehyde removal by indoor plants: Contribution of aerial plant parts versus the root zone. **J Am Soc Hortic Sci** 133:521-526.

**Kwang Jin Kim** and Jong Suk Lee. 2008. Effect of Species and Volume Rate of Potted Orchid Plants Put in Closed Chambers on Emission of Air Anions. **Flower Res J** 16(1):85−92.

M.J. Kil, **K.J. Kim**, C.H. Pak, H.H. Kim, and Y.W. Lim. 2008. Effects of growing media and exposure frequency on the volatile formaldehyde removal in potted *Epipremnum aureum*. **Korean J Hortic Sci** 26:325-330.

Young Soon Lee, Soon Jae Kim, and **Kwang Jin Kim**. 2008. Analysis of Volatile Compounds According to the Flowering Stages of Rose Using Gas-chromatography Mass Spctrometry. **Korean J Hortic Sci** 26(4):501-507.

**Kwang Jin Kim**, Hyang Young Joung, Seong Roul Choi, Hak Ki Shin, and Hyoung Deug Kim. 2006. A New Red Standard Carnation (*Dianthus caryophyllus*) Cultivar, “Garnet”. **Korean J Breed** 38(4) : 315-316.

**Kwang Jin Kim**, Hyang Young Joung, Seong Roul Choi, Hak Ki Shin, and Hyoung Deug Kim.A. 2006. New Spray Carnation (*Dianthus caryophyllus*) Cultivar, “Pavo”. **Korean J Breed** 38(4) : 313-314.

**Kwang Jin Kim**, Hyang Young Joung, Oh Keun Kwon, Seong Roul Choi, and Hak Ki Shin. 2006. A New White Spray Carnation (*Dianthus caryophyllus*) Cultivar, “Dreambyul”. **Korean J Breed** 38(4) : 311-312.

**Kwang Jin Kim**, Hyang Young Joung, Oh Keun Kwon, Seong Roul Choi, and Hak Ki Shin. 2006. A New Spray Carnation (*Dianthus caryophyllus*) Cultivar, “Orion”. **Korean J Breed** 38(4) : 309-310.

**Kwang Jin Kim**. 2004. Effects of Eco-Friendly Houseplants on improvement of the indoor air quality. **J Environment-Friendly Agri Res** 6(2): 138-158.

**BOOK CHAPTERS/ BOOK**

Jung Nam Suh, **Kwang Jin Kim**, Yoona Jang. 2017. Veranda Flower Gardening. ISBN 978-89-480-4916-9 93520. National Institute of Horticultural and Herbal Science, Wanju, Jeollabuk-do, Republic of Korea. 124p.

Sung Won Bang, Jeong Ye Kim, **Kwang Jin Kim**, Yeong Uk Im, Hyeong Ju Kim, Jung Eun Song. 2016. Biowall System Manual. Garden4U, Republic of Korea. ISBN 978-89-480-4266-5 93520.135p.

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**Kwang Jin Kim**, Hyun Hwan Jung, Hye Suk Jung, Ji Hyeon Kim, Hyeon Ju Kim. 2014. Air Purifying Plants in Cartoon. ISBN 978-89-480-2682-5 07520. National Institute of Horticultural and Herbal Science, Wanju, Jeollabuk-do, Republic of Korea. 105p.

Hyun Hwan Jung, **Kwang Jin Kim**, Hyu Won Suh, Ji Hye Moon, Kyung Hwa Lee. 2013. Native Plats Indoor Maintenance Manual. ISBN 978-89-480-2395-4-93520. National Institute of Horticultural and Herbal Science, Suwon, Republic of Korea. 64p.

**Kwang Jin Kim**. et al. 2009. Urban Horticulture. RDA, Suwon

**Kwang Jin Kim**. et al. 2008. Horticulture for Living. KNOU Press, Seoul

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**Kwang Jin Kim**. 2005. “How to Grow Fresh Air”-50 Houseplants that Purify Your Home or Office. Dr. B.C. Wolverton. Penguin Group. New York. 1997. (Trans.)

**Kwang Jin Kim**. et al. 2003. Life and Horticulture. RDA, Suwon

**MEMBERSHIPS TO PROFESSIONAL ORGANIZATIONS**

* Vice President, Korean Society for People, Plants, and Environment
* Board Member, Korean Society for Horticultural Science
* Board Member, Korean Society for Urban Agriculture
* Board Member, Korean Society for Floricultural Science

**EDITORIAL BOARD MEMBERSHIP**

* Journal of People, Plants and Environment
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* Horticulture, Environment, and Biotechnology
* Horticultural Science and Technology
* Journal of People, Plants and Environment

**AWARDS**

* Inductee, Worldwide Lifetime Achievement (2017)
* Recipient, Achievement Award for the advancement of national development as a government employee, Prime minister (2016)
* Recipient, Achievement Award for the development of the government employee research group, Ministry of Personnel Management (2015)
* Recipient, Achievement Award for the development of public relations, Rural Development Administration (2014)
* Recipient, Outstanding Paper Award, Korean Society for People, Plants, and Environment (2014)
* Featured Listee, Who’s Who in the World (2013)
* Recipient, Outstanding Paper Award, Korean Society for People, Plants, and Environment (2012)
* Honoree, Named Outstanding Researcher, National Science &Technology Commission (2012)
* Recipient, First Prize of Lecture Technique Contest, Rural Development Administration (2012)
* Recipient, Outstanding Proposal Award, Minister of Public Administration and Security (2011)
* Recipient, Outstanding Knowledge Expert, Rural Development Administration (2006, 2007, 2008)
* Recipient, Exemplary Official Award, Prime Minister (2005)