

CURRICULUM VITAE

Dr. K. VIJAYARAGHAVAN

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Research Assistant Professor
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Personal Data:

Date of Birth : 03-04-1979

Objective:

To pursue a career that contributes valuable research and teaching in the area of Environmental engineering and Biotechnology.

Achievements:

- Recipient of prestigious Ramalingaswami Re-entry Fellowship by DBT, Ministry of India and ranked 3rd in all India selection list
- Recipient of prestigious Alexander von Humboldt (AVH) Research Foundation Fellowship to conduct post-doctoral research in Karlsruhe University, Germany
- Closely worked with establishment of Aquatic Science Centre (Singapore), a first of its kind in South-East Asia to incorporate open research facility concept.
- H-index: 43 (Google Scholar) and 36 (Scopus)

Professional background:

Assistant Professor (Research) (April 2017 – till now)

Department: ARCPE
University: Hong Kong Baptist University, Hong Kong

Visiting Faculty (Ramalingaswami Fellow) (July 2012 – April 2017)

Funding agency: **Department of Biotechnology, Ministry of India**
Department: Chemical Engineering
University: **Indian Institute of Technology Madras**

Post-doctoral Researcher (Mar 2010 – Aug 2010)

Funding agency: **Humboldt Research Foundation**
Discipline: Civil and Environmental Engineering
University: **Karlsruhe Institute of Technology, Germany**
Work title: Assessment and enhancement of runoff water quality from vegetated roofs

Post-doctoral Research Fellow (Mar 2008 – July 2012)

Funding Agency: PUB, NRF (Singapore) and Delft Hydraulics (Holland)
Discipline: Environmental Science and Engineering
Institution: **Singapore-Delft Water Alliance**
University: **National University of Singapore, Singapore**
Work title: Improved urban water management through aquatic science centers in Singapore

Post-doctoral Fellow (Jan 2006-Feb 2008)

Discipline: Environmental Biotechnology
University: **Chonbuk National University, South Korea**
Work title: Development of commercial biosorbents for the remediation of dye-containing wastewaters

Doctorate of Philosophy (Jul 2002-Nov 2005)

Discipline: Chemical Engineering
University: **Anna University, India**
PhD thesis title: Biosorption of copper(II), cobalt(II) and nickel(II) ions: Batch and continuous studies.

Masters of Technology (2000-2002)

Discipline: Chemical Engineering
University: **Anna University, India**
Project title: Biodegradation of aromatics

Bachelor of Technology (1996 - 2000)

Discipline: Chemical Engineering
University: **University of Madras**
Project title: Stabilization of heavy metal bearing sludge and study of wastewater treatment in a metal product industry

Research interests:

- 1) Waste water treatment
Metal, dye and other organic remediation form wastewater, modeling and reactor design
- 2) Biosorption
Mathematical modeling, Mass transfer studies, and application to industrial metal and dye effluents
- 3) Green roofs
Substrate development, Plant screening, Runoff water quality and stormwater management
- 4) Biodegradation
Identification of metabolic pathway, Microbial kinetics, Mathematical modeling and column operation
- 5) Bioaccumulation
Metal and dye bioaccumulation characteristics of fungi and Immobilization techniques
- 6) Phytoremediation
Rhizofiltration techniques and bioremediation of soil
- 7) Nanotechnology
Synthesis of nanoparticles
- 8) Biofilters and Bioswales
Runoff water quality and stormwater management
- 9) Floating islands
Screening plants, design and construction of artificial floating islands

Teaching experience:

University	: Anna University
Department	: Chemical Engineering
Years of experience	: 4 years
Faculty position	: Teaching Associate
Subjects handled	: a) Fluid Mechanics b) Safety in Chemical process industries c) Biochemical Engineering d) Environmental Biotechnology
Laboratories handled	: a) Fluid Mechanics b) Mechanical Operations

Analytical techniques:

- Physical-Chemical measurement: BOD, COD, TOC, Effluent characteristics and Determination of cations and anions through titration techniques
- Atomic Absorption, UV-visible Spectrophotometer,
- FT-IR and interpretation of spectral peaks, SEM-EDX
- HPLC
- Flame photometer, IC, ICP-OES, ICP-MS

Patents:

- 1) Y.-S. Yun, M.H. Han, S.B. Choi, S.W. Won, C.W. Cho, **K. Vijayaraghavan**, J. Mao, T.P.T. Pham (2007) Enhanced Biosorption of Reactive Dyes by Chemical Modification of *Corynebacterium glutamicum* Biomass, **Korean Patent, Appl., No. 10-2007-0010043**, Appl. Date: 31.01.2007.

Books:

- 1) K. Vijayaraghavan (2016) Biosorption of Metals: A Complete Handbook. Vinanie Publishers, ISBN: 978-81-932494-0-6.

Book Chapters:

- 1) **K. Vijayaraghavan** (2012) Biological treatment of wastewaters: recent trends and advancements, In: D.G. Rao, R. Senthilkumar, J.A. Byrne, S. Feroz (Editors), Wastewater Treatment: Advances Processes and Technologies, **Taylor and Francis**, CRC Press, ISBN: 978-1-4398-6044-1, pp. 137-162.
- 2) Y.S. Yun, **K. Vijayaraghavan**, S.W. Won (2011) Bacterial biosorption and biosorbents, In: P. Kotrba, M. Martina, M. Tomas (Editors), Microbial biosorption of metals, Netherlands: **Springer**. ISBN: 978-94-007-0442-8, pp. 121-141.

Publications in:

International Peer-reviewed SCI Journals

REVIEW PAPERS

- 1) **K. Vijayaraghavan** and T. Ashokkumar (2017) Plant-mediated biosynthesis of metallic nanoparticles: A review of literature, factors affecting synthesis, characterization techniques and applications, **Journal of Environmental Chemical Engineering**, Vol. 5, No. 5, pp. 4866-4883.
- 2) **K. Vijayaraghavan** (2016) Green roofs: A Critical Review on the Role of Components, Benefits, Limitations and Trends, **Renewable and Sustainable Energy Reviews**, Vol. 57, pp. 740-752. (IMPACT FACTOR = 6.798).
- 3) **K. Vijayaraghavan** and R. Balasubramanian (2015) Is biosorption suitable for decontamination of metal-bearing wastewaters? A critical review on the state-of-the-art of biosorption processes and future directions, **Journal of Environmental Management**, Vol. 160, pp. 283-296. (IMPACT FACTOR = 3.131).
- 4) **K. Vijayaraghavan**, Y.-S. Yun (2008) Bacterial biosorbents and biosorption- A review, **Biotechnology Advances**, Vol. 26, no. 3, pp. 266-291 (IMPACT FACTOR = 8.905) (4th most cited article of all time in Biotechnology Advances).
- 5) H.K. Reddy, **K. Vijayaraghavan**, J. Ae, Y.-S. Yun (2017) Valorisation of post-sorption materials: Opportunities, strategies, and challenges, **Advances in Colloid Interface Science** (I.F. 7.813), Vol. 242, pp. 35-58.

FULL RESEARCH ARTICLES

- 6) **K. Vijayaraghavan**, J. Arockiaraj, S. Kamala-Kannan, (2017) *Portulaca grandiflora* as green roof vegetation: Plant growth and phytoremediation experiments, **International Journal of Phytoremediation**, Vol. 19, No. 6, pp. 537-544. (I.F. 2.085).
- 7) **K. Vijayaraghavan**, S. Rangabhashiyam, T. Ashokkumar, Jesu Arockiaraj (2017) Assessment of samarium biosorption from aqueous solution by brown macroalgae (*Turbinaria conoides*), **Journal of Taiwan Institute of Chemical Engineers**, Vol. 74, pp. 113-120. (I.F. 2.848).
- 8) **K. Vijayaraghavan**, R.S. Praveen (2016) *Dracaena marginata* biofilter: design of growth substrate and treatment of stormwater runoff, **Environmental Technology**, Vol. 37, No. 9, 1101-1109 (I.F. 1.1961).
- 9) **K. Vijayaraghavan**, S. Rangabhashiyam, T. Ashokkumar, J. Arockiaraj (2016) Mono- and multi-component biosorption of lead(II), cadmium(II), copper(II) and nickel(II) ions onto coco-peat biomass, **Separation Science and Technology**, Vol. 51, No. 17, pp. 2725-2733 (I.F. 1.183).
- 10) **K. Vijayaraghavan** and Anay Badavane (2016) Application of factorial design to develop new green roof growth medium for improvement in runoff water quality: physico-chemical characterization, sorption and plant-support experiments, **Urban Water Journal**, Accepted for Publication. (I.F. 1.478).
- 11) **K. Vijayaraghavan** and J. Jegan (2015) Entrapment of Brown Seaweeds (*Turbinaria conoides* and *Sargassum wightii*) in Polysulfone Matrices for the Removal of Praseodymium ions from aqueous solutions, **Journal of Rare Earths**, Vol. 33, pp. 1196-1203. (I.F. 1.261).
- 12) **K. Vijayaraghavan** and U.M. Joshi (2015) Application of seaweed as substrate additive in green roofs: enhancement of water retention and sorption capacity, **Landscape and Urban Planning**, Vol. 143, pp. 25-32. (I.F. 3.654).
- 13) **K. Vijayaraghavan**, F.D. Raja (2014) Design and development of green roof substrate to improve runoff water quality: Plant growth experiments and adsorption, **Water Research**, Vol. 63, pp. 94-101. (I.F. 5.991).
- 14) **K. Vijayaraghavan**, F.D. Raja (2015) Pilot-scale evaluation of green roofs with *Sargassum* biomass as an additive to improve runoff quality, **Ecological Engineering**, Vol. 75, pp. 70-78 (I.F. = 2.74).
- 15) **K. Vijayaraghavan**, Y. Premkumar, J. Jegan (2016) Malachite green and crystal violet biosorption onto coco-peat: characterization and removal studies, **Desalination and Water Treatment**, Vol. 57, no. 14, pp. 6423-6431 (I.F. = 1.173).
- 16) **K. Vijayaraghavan**, U.M. Joshi (2014) Can green roof act as a sink for contaminants? A methodological study to evaluate runoff quality from green roofs, **Environmental Pollution**, Vol. 194, pp. 121-129. (I.F. 3.902).

- 17) **K. Vijayaraghavan**, F.D. Raja (2015) Interaction of vermiculite with Pb(II), Cd(II), Cu(II) and Ni(II) ions in single and quaternary mixtures, **Clean-Soil, Air, Water**, Vol. 43, No. 8, 1174-1180 (I.F. = 1.838).
- 18) **K. Vijayaraghavan**, U.M. Joshi, R. Balasubramanian (2012) A field study to evaluate runoff quality from green roofs, **Water Research**, Vol. 46, No. 4, pp. 1337-1345. (I.F. 5.991).
- 19) **K. Vijayaraghavan**, F.D. Raja (2014) Experimental characterization and evaluation of perlite as a sorbent for heavy metal ions in single and quaternary solutions, **Journal of Water Process Engineering**, Vol. 4, No. 4, pp. 1337-1345.
- 20) **K. Vijayaraghavan**, U.M. Joshi, H. Ping, S. Reuben, D.F. Burger (2014) In situ removal of dissolved and suspended contaminants from eutrophic pond using hybrid sand-filter, **Journal of Environmental Science and Health-Part A**, Vol. 49, No. 10, pp. 1176-1186. (I.F. 1.135).
- 21) **K. Vijayaraghavan**, U.M. Joshi (2012) An attempt to develop seaweed-based treatment technology for the remediation of laboratory wastewaters, **Ecological Engineering**. Vol. 47, pp. 278-283 (I.F. = 3.041).
- 22) **K. Vijayaraghavan**, R. Balasubramanian (2013) A comparative evaluation of sorbents for the treatment of complex metal-bearing laboratory wastewaters. **Journal of Environmental Chemical Engineering**, Vol. 1, No. 3, pp. 473-479.
- 23) **K. Vijayaraghavan**, U.M. Joshi (2014) Application of *Ulva* sp. biomass for single and binary biosorption of chromium(III) and manganese(II) ions: equilibrium modeling, **Environmental Progress**, Vol. 33, No. 1, pp. 147-153. (I.F. 1.271).
- 24) **K. Vijayaraghavan**, U.M. Joshi (2013) Hybrid *Sargassum*-sand sorbent: a novel adsorbent in packed column to treat metal-bearing wastewaters from atomic absorption spectrometry. **Journal of Environmental Science and Health: Part A**, Vol. 48, No. 13, pp. 1685-1693. (I.F. 1.135)
- 25) **K. Vijayaraghavan**, E. Segovia (2013) Development of bench-scale bio-packed column for wastewater treatment from optical emission spectrometry, **Clean- Soil, Air, Water**, Vol. 41, No. 11, pp. 1093-1099. (I.F. = 1.838).
- 26) **K. Vijayaraghavan**, U.M. Joshi (2013) Chicken eggshells remove Pb(II) ions from synthetic wastewater, **Environmental Engineering Science**, Vol. 30, No. 2, pp. 67-73. (I.F. = 0.933).
- 27) **K. Vijayaraghavan**, R. Balasubramanian (2012) Antimonite removal using marine algal species, **Industrial and Engineering Chemistry Research**, Vol. 50, No. 17, pp. 9864-9869. (I.F. = 2.235).
- 28) **K. Vijayaraghavan**, S. Gupta, U.M. Joshi (2012) Comparative assessment of Al(III) and Cd(II) biosorption onto *Turbinaria conoides* in single and binary systems, **Water Air Soil Pollution**, Vol. 223, pp. 2923-2931. (I.F. 1.685).
- 29) **K. Vijayaraghavan**, U.M. Joshi (2012) Interaction of mercuric ions with different marine algal species, **Bioremediation Journal**, Vol. 16, No. 4, pp. 225-234. (I.F. 0.714)
- 30) **K. Vijayaraghavan**, M. Sathishkumar, R. Balasubramanian (2010) Biosorption of lanthanum, cerium, europium and ytterbium by a brown marine alga *Turbinaria conoides*, **Industrial Engineering and Chemistry Research**, Vol. 49, No. 9, pp. 4405-4411. (I.F. = 2. 235)
- 31) **K. Vijayaraghavan**, A. Mahadevan, M. Sathishkumar, S. Pavagadhi , R. Balasubramanian (2011) Biosynthesis of Au(0) from Au(III) via biosorption and bioreduction using brown marine alga *Turbinaria conoides*, **Chemical Engineering Journal**, Vol. 167, No. 1, pp. 223-227. (I.F = 4.058)
- 32) **K. Vijayaraghavan**, H.Y.N. Winnie & R. Balasubramanian (2011) Biosorption characteristics of crab shell particles for the removal of manganese(II) and zinc(II) from aqueous solutions, **Desalination**, Vol. 266, No. 1-3, pp. 195-200. (I.F. = 3.960).
- 33) **K. Vijayaraghavan**, R. Balasubramanian (2010) Single and binary biosorption of cerium and europium onto crab shell particles, **Chemical Engineering Journal**, Vol. 163, No. 3, pp. 337-343. (I.F = 4.058)
- 34) **K. Vijayaraghavan**, M. Sathishkumar, R. Balasubramanian (2010) Interaction of brown marine alga with rare earth elements in multicomponent solutions, **Desalination**, Vol. 265, No. 1-3, pp. 54-59. (I.F. = 3.960)
- 35) **K. Vijayaraghavan**, A. Mahadevan, U.M. Joshi, and R. Balasubramanian (2009) An examination of the uptake of lanthanum from aqueous solution by crab shell particles, **Chemical Engineering Journal**, Vol. 152, No. 1, pp. 116-121. (I.F = 4.058)

- 36) **K. Vijayaraghavan**, U.M. Joshi, R. Balasubramanian (2009) Removal of metal ions from stormwater runoff by low-cost sorbents: batch and column studies, **Journal of Environmental Engineering ASCE**, Vol. 136, No. 10, pp. 1113-1118. (I.F. = 1.221).
- 37) **K. Vijayaraghavan**, T.P.T. Pham, C.-W. Cho, S.W. Won, S.B. Choi, M. Juan, S. Kim, Y.-R. Kim, Y.-S. Yun (2009) An assessment on the interaction of an ionic liquid with different adsorbents, **Industrial Engineering and Chemistry Research**, Vol. 48, No. 15, pp. 7283-7288. (I.F. = 2. 235)
- 38) **K. Vijayaraghavan**, M. Arun, U.M. Joshi, R. Balasubramanian (2009) Biosorption of As(V) onto the shells of the crab (*Portunus sanguinolentus*): Equilibrium and kinetic studies, **Industrial and Engineering Chemistry Research**, Vol. 48, No. 7, pp. 3589-3594. (I.F. = 2. 235)
- 39) **K. Vijayaraghavan**, S.W. Won, Y.-S. Yun (2009) Treatment of complex remazol dye effluent using sawdust and coal-based activated carbons, **Journal of Hazardous Materials**, Vol. 167, No. 1-3, pp. 790-796. (I.F. = 4.331)
- 40) **K. Vijayaraghavan**, T.T. Teo, R. Balasubramanian, U.M. Joshi (2009) Application of *Sargassum* biomass to remove heavy metal ions from synthetic multi-metal solutions and urban storm water runoff, **Journal of Hazardous Materials**, Vol. 164, No. 2-3, pp. 1019-1023. (I.F. = 4. 331)
- 41) **K. Vijayaraghavan**, M. Arun, U.M. Joshi, R. Balasubramanian (2009) A comparative study of seven materials as sorbents for removal of metal ions from real storm water runoff, **Chemical Engineering Transactions**, Vol. 17, pp. 379-384.
- 42) **K. Vijayaraghavan**, Y.-S. Yun (2008) Evaluation of fermentation waste (*Corynebacterium glutamicum*) as a biosorbent for the treatment of nickel(II)-bearing solutions. **Biochemical Engineering Journal**, Vol. 41, No. 3, pp. 228-233. (I.F. = 2.368)
- 43) **K. Vijayaraghavan**, Y.-S. Yun (2008) Polysulfone-immobilized *Corynebacterium glutamicum*: a biosorbent for Reactive Black 5 from aqueous solution in an up-flow packed column. **Chemical Engineering Journal**, Vol. 145, No. 1, pp. 44-49. (I.F = 4.058)
- 44) **K. Vijayaraghavan**, S.W. Won, Y.-S. Yun (2008) Single- and dual-component biosorption of Reactive black 5 and Reactive orange 16 onto polysulfone-immobilized decarboxylated *Corynebacterium glutamicum*. **Industrial and Engineering Chemistry Research**, Vol. 47, No. 9, pp. 3179-3185. (I.F. = 2. 235)
- 45) **K. Vijayaraghavan**, S.W. Won, J. Mao, E. Cho, Y.-S. Yun (2008) Chemical modification of *Corynebacterium glutamicum* to improve methylene blue biosorption, **Chemical Engineering Journal**, Vol. 145, No. 1, pp. 1-6. (I.F = 4.058)
- 46) **K. Vijayaraghavan**, M.W. Lee, Y.-S. Yun (2008) A new approach to study the decolorization of complex reactive dye bath effluent by biosorption technique. **Bioresource Technology**, Vol. 99, No. 13, pp. 5778-5785. (I.F = 5.039)
- 47) **K. Vijayaraghavan** (2008) Biosorption of nickel from synthetic and electroplating industrial solutions using a green marine alga *Ulva reticulata*. **CLEAN**, Vol. 36, no. 3, pp. 299-305. (I.F. = 1.838).
- 48) **K. Vijayaraghavan**, Y.-S. Yun (2008) Competition of Reactive red 4, Reactive orange 16 and Basic blue 3 during biosorption of Reactive blue 4 by polysulfone-immobilized *Corynebacterium glutamicum*. **Journal of Hazardous Materials**, Vol. 153, no. 1-2, pp. 478-486. (I.F. = 4. 331)
- 49) **K. Vijayaraghavan**, Mao, J., Y.-S. Yun (2007) Biosorption of methylene blue from aqueous solution using free and polysulfone-immobilized *Corynebacterium glutamicum*: batch and column studies. **Bioresource Technology**. Vol. 99, pp. 2864-2871. (I.F = 5.039).
- 50) **K. Vijayaraghavan**, Y.-S. Yun (2008) Biosorption of C.I. Reactive black 5 from aqueous solution using acid-treated biomass of brown seaweed *Laminaria* sp. **Dyes and Pigments**. Vol. 76, no. 3, 726-732. (I.F. = 3.468)
- 51) **K. Vijayaraghavan**, M.H. Han, S.S. Choi, Y.-S. Yun (2007) Biosorption of Reactive black 5 by *Corynebacterium glutamicum* biomass immobilized in alginate and polysulfone matrix, **Chemosphere**, Vol. 68, no. 10, 1838-1845. (I.F. = 3.499)
- 52) **K. Vijayaraghavan**, Y.-S. Yun (2007) Chemical modification and immobilization of *Corynebacterium glutamicum* for biosorption of Reactive black 5 from aqueous solution. **Industrial and Engineering Chemistry Research**, Vol. 46, no. 2, pp. 608-617. (I.F. = 2. 235)

- 53) **K. Vijayaraghavan**, Y.-S. Yun (2007) Utilization of fermentation waste (*Corynebacterium glutamicum*) for biosorption of Reactive black 5 from aqueous solution, **Journal of Hazardous Materials**, Vol. 141, no. 1, pp. 45-52. (I.F. = 4. 331)
- 54) **K. Vijayaraghavan**, D. Prabu (2006) Potential of *Sargassum wightii* biomass for copper(II) removal from aqueous solutions: Application of different mathematical models to batch and continuous biosorption data. **Journal of Hazardous Materials**. Vol. 137, no. 1, pp. 558-564. (I.F. = 4. 331)
- 55) **K. Vijayaraghavan**, K. Palanivelu, M. Velan (2006) Treatment of nickel containing electroplating effluents with *Sargassum wightii* biomass. **Process Biochemistry**. Vol. 41, no. 4, pp. 853-859. (I.F. = 2.524).
- 56) **K. Vijayaraghavan**, T.V.N. Padmesh, K. Palanivelu, M. Velan (2006) Biosorption of nickel(II) ions onto *Sargassum wightii*: Application of two-parameter and three-parameter isotherm models. **Journal of Hazardous Materials**. Vol. 133, no. 1-3, pp. 304-308. (I.F. = 4. 331)
- 57) **K. Vijayaraghavan**, K. Palanivelu, M. Velan (2006) Biosorption of copper(II) and cobalt(II) from aqueous solutions by crab shell particles. **Bioresource Technology**. Vol. 97, no. 12, pp. 1411-1419. (I.F. = 5.039)
- 58) **K. Vijayaraghavan**, J. Jegan, K. Palanivelu, M. Velan (2005) Nickel recovery from aqueous solution using crab shell particles. **Adsorption Science and Technology**. Vol. 23, no. 4, pp. 303-312. (I.F. = 0.930)
- 59) **K. Vijayaraghavan**, J. Jegan, K. Palanivelu, M. Velan (2005) Biosorption of copper, cobalt and nickel by marine green alga *Ulva reticulata* in a packed column. **Chemosphere**. Vol. 60, no. 3, pp. 419-426. (I.F. = 3.499)
- 60) **K. Vijayaraghavan**, J. Jegan, K. Palanivelu, M. Velan (2005) Biosorption of cobalt(II) and nickel(II) by seaweeds: Batch and column studies. **Separation and Purification Technology**. Vol. 44, no. 1, pp. 53-59. (I.F. = 3.065)
- 61) **K. Vijayaraghavan**, M. Thilakavathi, K. Palanivelu, M. Velan (2005) Continuous sorption of copper and cobalt by crab shell particles in a packed column. **Environmental Technology**. Vol. 26, no. 3, pp. 267-276. (I.F. = 1.197)
- 62) **K. Vijayaraghavan**, K. Palanivelu, M. Velan (2005) Crab shell-based biosorption technology for the treatment of nickel-bearing electroplating industrial effluents. **Journal of Hazardous Materials B**. Vol. 119, no. 1-3, pp. 251-254. (I.F. = 4. 331)
- 63) **K. Vijayaraghavan**, J. Jegan, K. Palanivelu, M. Velan (2005) Batch and column removal of copper from aqueous solution using a brown marine alga *Turbinaria ornata*. **Chemical Engineering Journal**. Vol. 106, no. 2, pp. 177-184. (I.F. = 4.058)
- 64) **K. Vijayaraghavan**, J. Jegan, K. Palanivelu, M. Velan (2005) Removal and recovery of copper from aqueous solution by eggshell in a packed column. **Minerals Engineering**. Vol. 18, no. 5, pp. 545-547. (I.F. = 1.714)
- 65) **K. Vijayaraghavan**, J. Jegan, K. Palanivelu, M. Velan (2004) Removal of nickel(II) ions from aqueous solution using crab shell particles in a packed bed up-flow column. **Journal of Hazardous Materials B**. Vol. 113, no. 1-3, pp. 223-230. (I.F. = 4. 331)
- 66) **K. Vijayaraghavan**, J. Jegan, K. Palanivelu, M. Velan (2004) Copper removal from aqueous solution by marine green alga *Ulva reticulata*. **Electronic Journal of Biotechnology**. Vol. 7, no. 1, pp. 20-30. (I.F.= 0.647).
- 67) T. Ashokkumar, J. Arockiaraj, **K. Vijayaraghavan** (2016) Biosynthesis of gold nanoparticles using green roof species *Portulaca grandiflora* and their cytotoxic effects against C6 glioma human cancer cells, **Environmental Progress and Sustainable Energy**, Vol. 35, No. 6, pp. 1732-1740 (I.F. 1.271).
- 68) C. Sukumar, V. Janaki, **K. Vijayaraghavan**, S. Kamala-Kannan, K. Shanathi (2017) Removal of Cr(VI) using biological activated carbon and *Bacillus subtilis*: Fixed-bed column study, **Clean Technologies and Environmental Policy**, Vol. 19, No. 1, pp. 251-258 (I.F. = 1.934).
- 69) T.B. Pushpa, J. Vijayaraghavan, **K. Vijayaraghavan**, J. Jegan (2016) Utilization of Effective Microorganisms based water hyacinth compost as biosorbent for the removal of basic dyes. **Desalination and Water Treatment**, Article in Press. (I.F. 0.988).
- 70) T.B. Pushpa, J. Vijayaraghavan, J.S. Basha, V. Sekaran, **K. Vijayaraghavan**, J. Jegan (2015) Investigation on removal of malachite green using EM based compost as adsorbent, **Ecotoxicology and Environmental Safety**, Vol. 118, pp. 177-182.. (I.F. = 2.482).

- 71) Y. Premkumar, **K. Vijayaraghavan** (2015) Biosorption potential of coco-peat in the removal of methylene blue from aqueous solutions, **Separation Science and Technology**, Vol. 50, pp. 1439-1446. (I.F. = 1.20).
- 72) J. Vijayaraghavan, T.B. Pushpa, S.J.S. Basha, **K. Vijayaraghavan**, J. Jegan (2015) Evaluation of red marine alga *Kappaphycus alvarezii* as biosorbent for methylene blue: isotherm, kinetic and mechanism studies, **Separation Science and Technology**, Vol. 50, pp. 1120-1126. (I.F. = 1.20).
- 73) C. Han, **K. Vijayaraghavan**, S. Reuben, E. S. Estrada and U. M. Joshi (2013) Reduction of nutrient contaminants into shallow eutrophic waters through vegetated treatment beds. **Water Science and Technology**, Vol. 68, No. 6, pp. 1280-1287. (I.F. = 1.212).
- 74) R.S. Praveen, **K. Vijayaraghavan** (2015) Optimization of Cu(II), Ni(II), Cd(II) and Pb(II) biosorption by red marine alga *Kappaphycus alvarezii*, **Desalination and Water Treatment**, Vol. 55, No. 7, pp. 1816-1824 (I.F. = 0.988).
- 75) K. Kayalvizhi, **K. Vijayaraghavan**, M.Velan (2014) Biosorption of Cr(VI) using a novel microalga *Rhizoclonium hookeri*: equilibrium, kinetics and thermodynamic studies, **Desalination and Water Treatment**, Vol. 56, pp. 194-203 (I.F. = 0.988).
- 76) V. Janaki, **K. Vijayaraghavan**, B.-T. Oh, A.K. Ramasamy, S. Kamala-Kannan, 2013. Synthesis, characterization and application of cellulose/polyaniline nanocomposite for the treatment of simulated textile effluent, **Cellulose**, Vol. 20, No. 3, 1153-1166. (I.F. = 3.033).
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International Peer-reviewed NON-SCI Journals

- 1) **K. Vijayaraghavan** (2016) Biochar: production strategies, potential feedstocks and applications, **Journal of Environment and Biotechnology Research**, 4(1), 41-49.
- 2) **K. Vijayaraghavan** (2015) Biosorption of lanthanide (praseodymium) using *Ulva lactuca*: Mechanistic study and application of two, three, four and five parameter isotherm models, **Journal of Environment and Biotechnology Research**, 1(1), 10-17.
- 3) T. Ashokkumar, **K. Vijayaraghavan** (2016) Brown seaweed-mediated biosynthesis of gold nanoparticles, **Journal of Environment and Biotechnology Research**, 2(1), 45-50.

International Conference Presentations

- 1) **K. Vijayaraghavan**, S.-W. Won, M. Juan, Y.-S. Yun (2007) Use of polysulfone-immobilized *Corynebacterium glutamicum* to study the competitive biosorption of Reactive black 5 and Reactive red 4, Asia Pacific Biochemical Engineering Conference, November 3-7, Taipei, Taiwan (**Adjudged as the Best paper**).
- 2) **K. Vijayaraghavan**, Y.-S. Yun (2006) Immobilization of *Corynebacterium glutamicum* in Alginate and Polysulfone Matrix for Biosorption of Reactive Black 5, KIChe Meeting, Korea University, Seoul, South Korea (**Adjudged as the Best paper**).
- 3) J. Mao, S.W. Won, **K. Vijayaraghavan**, Y.-S. Yun (2007) Biosorption of dyes using *Corynebacterium glutamicum*: Effect of pH, salt concentration and characterization of binding sites, *The Korean Society of Industrial and Engineering Chemistry*, Kie-Myeoung University, Daegu, Korea (**Adjudged as the Best paper**).
- 4) R.S. Praveen and **K. Vijayaraghavan** (2014) Biosorption of cadmium(II) and lead(II) from aqueous solution by red seaweed *Kappaphycus alvarezii*, 3rd Scienceone International Conference on Environmental Sciences, 21-23 January 2014, Dubai, UAE.
- 5) **K. Vijayaraghavan**, F. D. Raja (2013) Assessment of runoff water quality from green roofs: physico-chemical analysis, World Green Infrastructure Congress, 9-13 September 2013, Nantes, France.
- 6) **K. Vijayaraghavan**, F. D. Raja, U.M. Joshi (2013) Role of Substrate and Plants to Improve the Water Quality in Green Roofs, World Green Infrastructure Congress, 9-13 September 2013, Nantes, France.
- 7) **K. Vijayaraghavan**, K. Sok, Y.-S. Yun (2007) Investigation of nickel(II) biosorption onto *Corynebacterium glutamicum*: batch and column studies, KIChe meeting, KAIST, Daejeon, Korea.
- 8) **K. Vijayaraghavan**, Y.-S. Yun (2007) Use of Polysulfone-Immobilized *Corynebacterium glutamicum* to Study the Competitive Biosorption of Reactive black 5 and Reactive orange 16, KIChe meeting, Lotte hotel, Ulsan, Korea
- 9) **K. Vijayaraghavan**, Y.-S. Yun (2007) Reactive dye biosorption by immobilized biomass of *Corynebacterium glutamicum*. Proceedings of the International Conference on Cleaner Technologies and Environment Management, 4-6 January 2007, PEC, Pondicherry, India, pp. 21-29.
- 10) **K. Vijayaraghavan**, Y.-S. Yun (2006) Decarboxylation and immobilization of *Corynebacterium glutamicum* waste biomass for Reactive black 5 biosorption. Korean Conference on Biotechnology and Bioengineering, COEX, Seoul, South Korea.
- 11) **K. Vijayaraghavan**, R. Senthilkumar, K. Palanivelu, M. Velan (2005) Biosorption of nickel(II) ions from aqueous solution using a green seaweed *Ulva reticulata*. 2nd International Conference on Chemical and Bioprocess Engineering, 8-10 December 2005, Universiti Malaysia Sabah, Malaysia.

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- 13) **K. Vijayaraghavan**, J. Jegan, K. Palanivelu, M. Velan (2004) Biosorption of cobalt (II) ions on marine macroalga *Ulva reticulata*. 57th Annual Session of Indian Institute of Chemical Engineers. CHEMCON-2004, Mumbai, India.
- 14) U. M. Joshi, **K. Vijayaraghavan**, and R. Balasubramanian (2011) Removal of Multiple Heavy Metals in Urban Storm Water Runoff using *Sargassum* sp., International Perspective on Water Resources and the Environment (IPWE), 4-6 Jan 2011, Singapore.
- 15) C. Han, S.Reuben, **K. Vijayaraghavan**, U.M.Joshi, N.Pham, K.M. Chakravarthy, G .Saxena, S.Swarup (2011), Towards improved urban water management through aquatic science centres in Singapore, SIWW Water convention, 2011,Suntec, Singapore 4-8, July.
- 16) M. Sathishkumar, A. Mahadevan, **K. Vijayaraghavan**, S. Pavagadhi, R. Balasubramanian, *Sargassum* biomass mediated recovery of gold through biosorption, bio-crystallization and pyro-crystallization. 5th International conference on Environmental Science and Technology, Co-ordinated by American academy of sciences (AAS). 2010. Houston, TX, USA.
- 17) M. Sathishkumar, S. Pavagadhi, **K. Vijayaraghavan**, R. Balasubramanian, S.L. Ong, Simultaneous Sequestration of Microcystin-LR and –RR by Peat. in 16th International Symposium on Health-Related Water Microbiology, WaterMicro 2011, IWA Conference. 2011. Rotorua, New Zealand.
- 18) U.M. Joshi, **K. Vijayaraghavan**, R. Balasubramanian (2009) Heavy metals in urban runoff: distribution and treatment, Young Water Talents Symposium, Suntec city, 22 June 2009, Singapore.
- 19) U.M. Joshi, **K. Vijayaraghavan**, R. Balasubramanian (2008) Street Dust: A Potential Source of Trace Metals to Receiving Water Bodies, International convention and Research Center for Environmental and Hazardous Substance Management (EHSM), Exhibition Center. 23-27 June 2008, Singapore International Water Week, Suntec Singapore.
- 20) U.M. Joshi, **K. Vijayaraghavan**, S.H. Quek, R. Balasubramanian (2008) Heavy Metals in Street Dust: Characterization, Spatial Distribution and Multivariate Statistical Analysis, 12th International Conference on Integrated Diffuse Pollution Management (IWA DIPCON 2008), 25-29 August 2008, Khon Kaen University, Thailand.
- 21) C.-W. Cho, T.P.T. Pham, **K. Vijayaraghavan**, Y.-S. Yun, Toxicity estimation using microalga *Selenastrum capricornutum* in alkyl chain length of imidazolium salt with anion bromide. Korean Conference on Biotechnology and Bioengineering, COEX, Seoul, South Korea.
- 22) S.W. Won, E.-J. Cho, **K. Vijayaraghavan**, Y.-S. Yun, Enhanced dye biosorption by *Corynebacterium glutamicum* biomass modified with succinic anhydride, The Fall Conference of the Korean Society of Industrial and Engineering Chemistry, 2-3 November, 2007, Deasung, Korea.
- 23) S.W. Won, **K. Vijayaraghavan**, E.-J. Cho, Y.-S. Yun (2007) Removal of Reactive red 4 from aqueous solution by chemically modified *Corynebacterium glutamicum*, The Fall Conference of the Korean Society of Industrial and Engineering Chemistry, 2-3 November, 2007, Deasung, Korea.
- 24) R. Senthilkumar, **K. Vijayaraghavan**, P.V.R Iyer, M. Velan (2005) Removal of chromium(VI) from aqueous solution using marine macroalgae. 2nd International Conference on Chemical and Bioprocess Engineering, 8-10 December 2005, Universiti Malaysia Sabah, Malaysia.
- 25) T.V.N. Padmesh, **K. Vijayaraghavan**, G. Sekaran, M. Velan (2006) Acid red biosorption by *Azolla pinnata*: equilibrium and kinetic modeling. International Interdisciplinary Conference on Sustainable Technologies for Environmental Protection (ICSTEP 2006), Coimbatore, India.
- 26) N. Senthil kumar, **K. Vijayaraghavan**, M. Velan (2003) Decolorization of malachite green using *Micrococcus* species. Proceedings of International Conference on Chemical and Bioprocess Engineers, 27th-29th August 2003, Universiti Malaysia Sabah, Malaysia.
- 27) T.V.N. Padmesh, D. Prabu, **K. Vijayaraghavan**, M. Velan (2004) Kinetics of decolorization of Acid red 88 and Acid blue FFS by *Micrococcus* sp. 57th Annual Session of Indian Institute of Chemical Engineers. CHEMCON-2004, Mumbai, India.

Involvement in Research projects:

1) Role: Principal Investigator

Project title: Green roofs: an extensive study to assess the role of substrate, plants and soil microbes to improve runoff quality

Duration: 5 years (Completed)

Sponsor: Department of Biotechnology, Ministry of India, India

Value: 8.2 Million Indian Rupees

2) Role: Principal Investigator

Project title: Design and development of Hybrid Biofilter to Treat Polluted Urban Runoff: Role of Soil, Plants, Microbes and Sorbent Materials

Duration: 3 years (Completed)

Sponsor: Department of Science and Technology, Ministry of India, India

Value: 2.7 Million Indian Rupees

3) Role: Research Fellow (A)

Project title: Improved urban water management through aquatic science centers in Singapore

Duration: 3 years (Completed)

Sponsor: PUB (Singapore), Singapore-Delft Water Alliance (Singapore), Delft Hydraulics (Netherlands)

Value: 10 Million SGD

4) Role: Research Staff

Project title: Developing Novel Solutions to Improve Urban Freshwater Management

Duration: 2 years (Completed)

Sponsor: Singapore-Delft Water Alliance (Singapore), Deltares (Netherlands), Flinders University (Adelaide, Australia)

Value: 300,000 SGD

5) Role: Research Staff

Project title: Water Quality Monitoring at Bedok Reservoir Park – A Study on Pollutant Runoffs and its Correlation with Management Practices

Duration: 8 months (Completed)

Sponsor: CUGE (N-Parks, Singapore)

Value: 165,588 SGD

6) Role: Research Staff

Project title: East Coast Park Pond Rehabilitation Study

Duration: 10 months (Completed)

Sponsor: CUGE (N-Parks, Singapore)

Value: 400,000 SGD

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Journal of Environment and Biotechnology Research, Vinanie Publishers

Tamil Journal of Science, Engineering and Technology, Vinanie Publishers

Editorial board member

Environmental Technology (Taylor and Francis)

American Journal of Environmental Engineering

Open Textiles Journal (Bentham science publishers)

Reviewer in International Peer-reviewed Journals:

Environmental Science and Technology (ACS)

Water Research (Elsevier)

Applied Microbiology and Biotechnology (Springer)

Journal of Hazardous Materials (Elsevier)

Journal of Environmental Management (Elsevier)

Chemical Engineering Communications (Taylor and Francis)

Bioresource Technology (Elsevier)

Separation and Purification Technology (Elsevier)

Chemical Engineering Journal (Elsevier)

Separation Science and Technology (Taylor and Francis)

Journal of Chemical Technology and Biotechnology (Wiley)

Process Biochemistry (Elsevier)

International Biodeterioration and Biodegradation (Elsevier)

Desalination (Elsevier)

Water Science and Technology
Cellulose (Springer), and 80 MORE.

Achievements and Awards:

- Fast-Track Young Scientist (DST, Ministry of India, 2013)
- Ramalingaswami Fellowship (2012), ranked 3rd in all India list
- Humboldt Post-doctoral Fellowship (2010)
- Chonbuk Post-doctoral Fellowship (2006)
- Secured Top 25 Most Downloaded Articles **5 times** for Elsevier Publications
- Marquis Who's Who in Science and Engineering (2008-2009 Edition)
- Best Paper Award (Asia Pacific Biochemical Engineering Conference, 2007, Taiwan)
- Best Paper Award (KIChe Meeting, 2006, Seoul, South Korea)
- Best Paper Award (*The Korean Society of Industrial and Engineering Chemistry*, 2007, Daegu, Korea)
- **Total Journal articles = 104; Total citations = 5312; H-Index = 38; Cumulative impact factor = 298.4** (as of 2016 November)
- **Secured 4513th rank in the World in the field of Engineering** (top 1% of scientists ranked by Essential Science Indicators, ESI of Web of Science, Thomson Reuters)

Student's project Supervisor:

Singapore Polytechnic (Project title: Utilization of low cost biomaterials for industrial effluents treatment)
IIT Madras (Master's degree)
Curtin University (Exchange student)
Hong Kong Baptist University (Undergraduates)

Invited Talks and visits:

Visiting Scientist (Brain-Korea 21 plus): Chonbuk National University, S. Korea, May-June 2016
Invited talk (UK-INDIA Workshop on Integrated Renewables for Autonomous Power Supply and Fuel Generation" at University of Exeter, UK) 1-2 August 2016.