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SELECTED PUBLICATIONS**A. Textbooks and Other Books**

1. Alvarez P.J.J. and W. Illman (2006). Bioremediation and Natural Attenuation of Groundwater Contaminants: Process Fundamentals and Mathematical Models. John Wiley & Sons. ISBN No. 0-471-65043-9. 608 pages.
2. Alvarez P.J.J and E. Guevara (2003). Biorremediación y Atenuación Natural de Acuíferos Contaminados por Sustancias Químicas Peligrosas. Consejo del Desarrollo Científico y Humanístico, Universidad de Carabobo, Valencia, Venezuela. ISBN No.980-233-360-3.
3. Kalogerakis N., E. Psillakis and P.J.J. Alvarez (editors) (2005). Recent Advances in Bioremediation: a special issue. *Environment International*. 31 (2) 147-312.
4. Leeson, A., B.C. Alleman, P.J. Alvarez, and V.S. Magar (editors) (2001). Bioaugmentation, Biobarriers, and Biogeochemistry. Proceedings of the Sixth International In Situ and On-Site Bioremediation Symposium, Vol 6(9). Battelle Press, Columbus, OH, 2001.
5. Loucks D.P., P.J. Alvarez, M.J. Baedecker, J.W. Boyd, R.A. Conway, J.W. Day, C.T Driscoll, T.R. Fountain, E.H. Herricks, R.J. Huggett, T.K. Kratz, J.M. Lauria, J.L. Meyer, T.O. Najarian, C.R. O'melia, S.D. Parker, and D.K. Weir (2006). CLEANER and NSF's Environmental Observatories. National Research Council of the Academies. National Academy Press. ISBN No.0-309-10229-4.
6. Beudet R.A., P.J. Alvarez, E.J. Bouwer, D.L. Freedman, K.L. Jones, R.M. Latanision, M.L. Lockett, P.J. Novak, G.F. Parkin, R.F. Probststein, R.B. Puyear, and V.L. Snoeying (2013) . Review of Biotreatment, Water Recovery, and Brine Reduction Systems for the Pueblo Chemical Agent Destruction Pilot Plan. National Research Council of the Academies. National Academy Press. ISBN No.0-309-26393-X.

B. Journal Publications (Google Scholar h = 64)

1. Yu P., J. Mathieu, M. Li, Z. Dai and P.J.J. Alvarez (2015). Isolation of polyvalent bacteriophages using sequential multiple host approaches. Appl. Environ. Microbiol. (In press).
2. Fu H, H. Liu, J. Mao, W. Chu, Q. Li, P.J.J. Alvarez, X. Qu, and D. Zhu (2015). Photochemistry of Dissolved Black Carbon Released from Biochar: Reactive Oxygen Species Generation and Phototransformation. Environ. Sci. Technol. (submitted).
3. Zuo L., Y. Guo, X. Li, H. Fu, X. Qu, S. Zheng, C. Gu, D. Zhu, and P.J.J. Alvarez (2015). Enhanced adsorption of hydroxyl- and amino-substituted aromatic chemicals to nitrogen doped multiwalled carbon nanotubes: A combined batch and theoretical calculation study. Environ. Sci. Technol. (In press).
4. Yoo H-Y, S. Yan, D. Jeon, Y. Mackeyev, Y-Y Ahn, H-J Kim, L. J. Wilson, P.J.J. Alvarez, Y. Lee, W. Song, J. Kim, and J. Lee (2015). Tin porphyrin immobilization significantly enhances visible-light-photosensitized degradation of microcystins: mechanistic implications. Wat. Res. (submitted).
5. Vidonish J.E., K. Zygourakis, C.A. Masiello, X. Gao, J. Mathieu, and P.J.J. Alvarez (2015). Pyrolytic treatment and fertility enhancement of soils contaminated with heavy hydrocarbons. Environ. Sci. Technol. (In press).
6. Buono R.M., K.R. Zodrow, P.J.J. Alvarez and Q. Li (2015). A New Frontier in Texas:

- Managing and Regulating Brackish Groundwater. Water Policy. (In press).
7. Zhu L., H. Yu, Z. Zhang, X. Dai, X. Xu and P. J.J. Alvarez (2015). Gradient reducing aeration in enhanced aerobic granular sludge process optimizes the dominant microbial community and its function. Wat. Res. (submitted).
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 11. Molosky L., J. Connor, T. McHugh, S. Richardson, C. Woroszylo and P.J.J. Alvarez (2015). Environmental factors predictive of natural methane concentrations in groundwater wells in areas of active Marcellus Shale gas extraction. Groundwater. (In Press).
 12. Gaspar J. J. Mathieu and P.J.J. Alvarez (2015). A rapid platform to screen therapeutic drugs for efficacy in removing lipofuscin. MethodsX (submitted).
 13. Zhao P.Y., P. J. Alvarez, J. Wang, Y. Han, and C. Pan (2015). Development of analytical method on pesticide residues in berries with dispersive solid phase extraction by mixture sorbents of multiwalled carbon nanotubes and primary secondary amine. Food Chem. (submitted).
 14. Luo Y., S. Yu, M. Rysz, D. Mao, F. Yang, J. Hou and P.J.J Alvarez (2015). Prevalence and proliferation of antibiotic resistance genes in municipal wastewater treatment plants. Wat. Res. 85:458-466.
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 16. Zhang C., S. Chen, P. J. J. Alvarez and W. Chen (2015). Reduced graphene oxide enhances horseradish peroxidase stability by serving as radical scavenger and redox mediator. Carbon. 94:531-538.
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 18. Michels C., Y. Yang Y, M. Li, C., H. Moreira-Soares and Pedro J.J. Alvarez (2015). Silver Nanoparticles retard NO₂⁻ Production without significantly affecting N₂O release by *Nitrosomonas europaea*. Environ. Toxicol. Chem. DOI: 10.1002/etc.3071.
 19. Brett M.T. Brett, P.J.J. Alvarez, S. Chandra, A.P. Covich, J.A. Huete-Pérez, A.Meyer and K. Vammen (2015). The potential impacts of the proposed Interoceanic Canal on the ecology and water quality of Lake Nicaragua Silnews 66: June 2015: 4-5.
 20. Li M., E.T. Van Orden, D.J DeVries, Z. Xiong, R. Hinchee, and P.J.J Alvarez (2015). Bench-scale biodegradation tests to assess natural attenuation potential of 1,4-dioxane at three sites in California. Biodegradation. 26:39-50.
 21. Wang X., L. Le, P.J.J. Alvarez, F. Li and K. Liu (2015). Synthesis and characterization of green agents coated Pd/Fe bimetallic nanoparticles. J. Taiwan Inst. Chem. Eng. 50:297-305.
 22. Ma J., J.W. Nossa and P.J.J. Alvarez (2015). Groundwater ecosystem resilience to organic

- contaminations: microbial and geochemical dynamics throughout the 5-year life cycle of a surrogate ethanol blend fuel plume. Wat. Res. 80:119-129.
23. Corseuil H., D. Gomez, C. Schambeck, D. Toledo Ramos, and P.J.J. Alvarez (2015). Nitrate addition to groundwater impacted by ethanol-blended fuel mitigates metabolic flux dilution and inhibition of BTEX biodegradation caused by ethanol. J. Contam. Hydrol. 174:1-9.
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 26. Ma J., Y. Deng, T. Yuan, J. Zhou and P.J.J. Alvarez (2015). Succession of microbial functional communities in response to a pilot-scale ethanol-blended fuel release throughout the plume life cycle. Environmental Pollution. 198: 154–160.
 27. Yang, J., Zhu, M., Wang, X., Alvarez, P. J. J., & Liu, K. (2015). Poly(vinylidene fluoride) membrane supported nano zero-valent iron for metronidazole removal: Influences of calcium and bicarbonate ions. J. Taiwan Inst. Chem. Eng. 49:113-118.
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 32. Monzon O., Y. Yang, C. Yu, Q. Li and P.J.J. Alvarez (2014). Microbial Fuel Cells under Extreme Salinity: Performance and Microbial Analysis. Environmental Chemistry. doi.org/10.1071/EN13243
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