Kevin Edward O'Shea
Professor of Chemistry and Biochemistry
Florida International University, Miami, FL 33199
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Education

University of Texas, Austin (1989-1991)
Postdoctoral Fellow; Advisor - Professor Marye Anne Fox
Research Project: Reactive Oxygen Species for the Activation of Anti-Cancer Agents and Photochemical Processes in Supercritical Fluids

University of California, Los Angeles (1984-1989)
Ph.D. in Organic Chemistry; Advisor - Professor Christopher S. Foote
Dissertation: The Photoxygenation of Guanosine, Adamantylideneadamantane, and Isomeric 2,4-Hexadienes.

California State University, Sacramento (1980-1984)
B.S. in Chemistry (with Honors),
Senior Project: Synthesis of Novel Imidazolium Counpounds.

Academic Positions

2004-current	Professor of Chemistry-Florida International University
2012-current	Senior Associate Dean Graduate School-Florida International University
2009-2011	Interim Dean Graduate School-Florida International University
2004-2005	Visiting Professor-University of Miami (sabbatical)
1996-2004	Associate Professor of Chemistry-Florida International University
1997-1998 (sabbatical)	Research Associate Professor-Georgia Institute of Technology
1995	Visiting Assistant Professor - Florida State University
1991-1996	Assistant Professor - Florida International University

Courses taught

Undergraduate Courses
Organic Chemistry I and II Lecture courses (*CHM 2210 and 2211*) – large classes (~ 200 students) composed primarily of chemistry and biology majors
Organic Chemistry 1 and II laboratories (*CHM 2210L and 2211L*) – co-requiste with lecture courses - individual sections ~ 20 students
Structure Determination Laboratory (*CHM 4320L*) – helped design specific experiments and develop laboratory manual for junior and senior level undergraduate students
Undergraduate Directed Research (*CHM 4210L and 4211L*) – each student is assigned and mentored on an original research project
Laboratory Coordinator for Organic Chemistry Labs (*CHM 2200, 2210, 2211*)
Sophomore Honors (*IHD 2004*) – Inhabiting Other Lives: What are we? Who are we? Who am I? - a team taught interdisciplinary class for students in the honors college
Graduate Courses
Physical Organic Chemistry (*CHM 5260*) – Small lecture class (~ 10 students) developed and designed for doctoral students and focused on fundamental mechanistic aspects organic chemistry
Structural Elucidation of Organic Compounds (*CHM 5236*) - The course is offered each year and continually revised to include latest spectroscopic techniques used for the determination of structures of organic compounds. The focus is on developing practical problem solving skills.
Thesis and Dissertation Research (*CHM 6910, 6911, 7910, and 7980)* each graduate student is assigned and mentored on an original research project.

Presentations
Professor O'Shea has authored/co-authored more than 200 scientific presentations. These include research presentations at national and international conferences and as an invited speaker for departmental seminars. His research group regularly presents recent results and the National American Chemical Society meetings though-out the United States. Professor O'Shea has delivered talks as an invited speaker around the world including a number of talks in China, South Korea, Turkey, Ireland, Spain, Singapore, Hungary, Puerto Rico, and Canada.

Publications
Professor's O'Shea has published over 100 peer-reviewed papers in chemistry and environmental science journals with ~ 90 % of these publications including contributions involving research and scholarship conducted at FIU. Professor O'Shea has published papers in a number of premier chemistry journals including *Chemical Reviews, Journal of the American Chemical Society, Journal of Physical Chemistry* which have impact factors (IF) of 45.795, 10.766, and 5.152, respectively. His publications in environmental sciences appear in a number of highly regarded interdisciplinary journals including *Applied Catalysis B: Environmental* (IF = 6.031), *Environmental Science and Technology* (IF=5.865), and *Water Research* (IF = 5.389). The Google Scholar records for Kevin E. O'Shea on January 7. 2015 indicate his papers have been cited a total of 2678 times. Citations of these papers have increased tremendously over the past five years reaching annual maximum of more than 500 individual citations in 2014. O'Shea's current *h-index* of 30 indicates 30 of his papers have been cited at least 30 times. Professor O'Shea had 63 papers that were cited at least ten times, *i10-index = 63*, through 2014. The number of views is another important measure of the impact of research papers especially with the evolution of large numbers of open access journals allowing free access to peer-reviewed publications. In 2014, *ResearchGate* reported 6157 total views of the research articles published by Kevin E. O'Shea.

Grantsmanship
Professor Kevin E. O'Shea has submitted > 50 major research proposals (PI on > 30) and secured over $3,000,000 in extramural support for research activities and equipment as PI or Co-PI. He has had nearly continuous extramural support for research projects since his initial Petroleum Research Fund and National Science Foundation grants in 1993. Grant applications have been submitted to the following agencies; Research Corporation, The Camille and Henry Dreyfus Foundation, National Science Foundation, U.S. Army Corps of Engineers, American Chemical Society-Petroleum Research Fund, Department of Army, Council on Undergraduate Research, U.S. Coast Guard Academy, National Institute of Health, U.S. Environmental Protection Agency, U.S. Department of Defense, National Energy Renewal Laboratory, U.S. Department of Energy, United States Department of Agriculture and Florida Department of Health, and International Atomic Energy Agency.

Recent Grant Activity
•MRI: Acquisition of an Electron Paramagnetic Resonance (EPR) Spectrometer", PI-Raphal Raptis; several Co-PIs including Kevin E. O'Shea, $400,580, Pending
•"Synthesis of Environmentally Friendly Humic Acid Coated Magnetic Nanomaterials for Removal of Toxic Arsenic and Selenium Species", ~$330,000, Pending
•*Collaborative Research: Destruction of Cyanotoxins using Ferrate*, National Science Foundation, ~$350,000, 2012-2015
•Collaborative Research: *Degradation Mechanism of Cyanotoxins Using Visible Light-Activated TiO_2 Photocatalysts*, National Science Foundation, ~$450,000, 2010-2014
• *Visible-light activated mixed Anatase/Brookite Photocatalysts for Water Treatment*, United States Department of Agriculture ~$125,000, 2011-2014

•REU Site: *Sensing, Monitoring, and Detection: From Molecules to Applications*, (Konstantinos Kavallieratos, Co-PI Jaroslava Miksovska, senior personnel Kevin O'Shea.) National Science Foundation, $324,744, 2012- 2015
•EPA STAR *Monitoring, Photochemical Fate, an d Oxidative Degradation by UV and Solar-based Catalytic Technologies of Cyanotoxins in Freshwater Estuaries,* United States Environmental Protection Agency $679,589, 2008 to 2012
•*Adsorption and Oxidation of Arsenic species on Metal oxides*, National Institute of Environmental Health Science, *20*07 to 2010, $220,000
•*Structural Elucidation and Toxicity of Microcystins and their Advanced Oxidation Products*. National Institute of Environmental Health Science, 2004 to 2007, $150,000

Students Directed in Chemical Research Projects 1991-2013

Graduate Students (post-graduation/current appointments indicated by superscript where a-academic; b-research or industrial position; c-unknown; d-current student)

John Walton[b]	Shawn Beightol[a]	Gina Alume[b]	Fabious Foti[b]
Claudia Cardona[a]	Cristobal Carambo[a]	Yi-Cheng[b]	Sary Mabjish[b]
Martha Aguilar[b]	Enrique Pernas[b]	Sugunya Monslaud[b]	Duk Kyung Kim[a]
Vivian Cruz[b]	Melvin Rodriguez[c]	Sahar Motamedi[b]	Weihua Song[a]
Tielian Xu[b]	Saritha Padura[a]	Urooj Khan[a]	Lin Chen[a]
Bashaki Das[a]	Barsam Mirfattah[c]	Punam Parekh[a]	Nadia Reyes[b]
Wenjun Jiang[b]	Chen Zhao[d]	Sazzad Hossain[d]	Mohammad Rashid[d]
Danni Cui[d]	Mary Jo Weiss[d]	Abdullah Shiek[d]	Yi Tan[d]

Undergraduate Students (post-graduation/current appointments indicated by superscript where a–medical or dental school; b-graduate school; c-research or industrial position; d-current student; e-unknown)

Anthony Conde[a]	Jie Pang[b]	Branden Bornstein[a]	Michael Trakhman[a]
Stephan Jannach[a]	Eric Bermudez[a]	Paolo Lizardo[e]	Silivio Restro[b]
Suzana Sin[c]	Ivelitza Garcia[b]	Kero Olivares[c]	Melita Morton[b]
Bamby Duong[c]	Reina Natero[c]	Ailette Aguila[b]	Shantell Curry[e]
Gualberto Fuentes[c]	Rudolf Carbello[e]	Sandra Rodiguez[a]	Alexandra Villacres[a]
Chris Gomez[a]	Sabrina Bardowell[b]	Lielani Chinirio[c]	Carlos Miranda[a]
Jessica Gonzalez[b]	Leng Young[a]	Stephine Montoya[a]	Yumi Mendez[a]
Marcela Cardona[a]	Melissa Cardenas[a]	Yamile Aroche[e]	Nicole Ruiz[e]
Cristina Permas[b]	Michelle Luiz[b]	Linna Lin[a]	Marcela Jaramillo[d]
Yingxin He[d]	Jose Roque[d]	Whitney Sisney[d]	Manual Marcus[d]
Jenna Lobson[b]	Nathanal Price[d]		

High School Students (supported by ACS/NSF SEED Program)
Cliff Sanders O'Ray Rahmings Travis Smith Paul Reynolds

Postdoctoral fellows and visiting faculty

Prof. Duk Kyung Kim	Prof. Shu Yu Li	Prof. Mohammad Enterazi
Prof. Weihua Song	Dr. Li Fang	Prof. Nadia Ben Abderrazik
Dr. Shan Zhang	Dr. Gloria Enclan	Dr. Tiaxiang An
Professor Shu Lu	Dr. Miguel Gracia Pinilla	

Collaborators & other affiliations

Ph.D. mentor	Christopher S. Foote, Professor, UCLA (deceased)
Postdoctoral Advisor	Marye Anne Fox, Chancellor, UCSD
Prof Yong Cai (FIU)	Prof William Cooper (UCI)
Prof Dionysis Dionysiou (UC)	Prof Angel Kaifer (UM)
Prof Virender Sharma (Texas A&M)	Prof Phashant Kamat (Notre Dame)
Prof Kathleen Rein (FIU)	Prof Stephen Mezyk (CSULB)

Professional Affiliations
Member, American Association for Advancement of Science
Member, American Chemical Society, Organic and Environmental Divisions
Member, American Society for Photobiology
Member, Council on Undergraduate Research
Member, Florida Section of the American Chemical Society
Member, Dade County Chemistry Alliance

Professional Service
Professor O'Shea has served major and numerous roles in the organization of major symposia on water treatment and advanced oxidation processes sessions of the American Chemical Society Meetings, Pacific Basin Conference, International Advanced Oxidation and TiO_2 Photocatalysis Meetings, International Symposium on Persistent Toxic Substances, International Advisor Committee on Advanced Oxidation Technologies, Guest Editor for Journal of Advanced Oxidation Technologies, Guest Editor for Journal Radiation Physics and Chemistry, Co-editor, Environmental Applications of Ionizing Radiation.
Professor O'Shea as served as a professional reviewer for funding agencies including National Science Foundation, National Institutes of Health, The Camille and Henry Dreyfus Foundation, Research Corporation, Council on Undergraduate Research, International Atomic Energy Agency, Petroleum Research Foundation. American Chemical Society. Also regular serves as a reviewer for papers submitted to environmental, organic and photochemistry journals including, Journal of the American Chemical Society, Journal of Organic Chemistry and Journal Physical Chemistry, Journal of Photochemistry and Photobiology A: Chemistry, Research of Chemical Intermediates, Journal on Advanced Oxidation Technologies, Journal of Radiation Physics and Chemistry, Langmiur, Environmental Science and Technology, Water Research, Organic Letters, Tetrahedron, Tetrahedron Letters, Journal of Hazardous Materials, Catalysis Today, Chemosphere, Journal of Chemical Education.

Awards, Accomplishments, and Appointments
Top viewed paper *Journal Physical Chemistry Letters* August 2015
Editor's Top Pick *Environmental Science: Processes & Impacts* Article 2014
FIU McNair Advisory Committee Member
Top Cited Paper *Applied Catalysis B: Environmental* 2013
Awarded Honorary Membership to Golden Key Honor Society
Top Cited Papers *Applied Catalysis B: Environmental* 2009 and 2010
Chair Graduate Council of the Faculty Senate
FIU Millennium Task Force for Graduate Education
Elected to FIU Faculty Senate
Chair of National American Chemical Society Meeting Task Force on Undergraduate Programs
Affiliated Faculty in the FIU Department of Environmental Studies
Member of Dissertation Advisor Status Evaluation Committee
Appointed to the University Graduate Faculty with Dissertation Advisor Status
Florida Award Selection committee
Appointed as a Fellow in The Honors College
Florida International University "*Excellence in Advising Award*"
Selected for *Who's Who Among American Teachers*
Henry-Dreyfus Teacher Scholar
Chair National American Chemical Society Undergraduate Programing
National Award as "Outstanding ACS-SA Chapter" Faculty Advisor (5 years)
Florida International University "*Excellence in Teaching Award*"
Teaching Incentive Program (TIP) Award Recipient

Kevin E. O'Shea
Peer-Reviewed Publications
(**IF** = impact factor for journals obtained from ISI Web of Knowledge, 2012 Journal Citation reports)

1) "Identification of TiO_2 photocatalytic destruction byproducts and reaction pathway of cylindrospermopsin", Geshan Zhang, Elizabeth M Wurtzler, Xuexiang He, Mallikarjuna N Nadagouda, Kevin O'Shea, Said M El-Sheikh, Adel A Ismail, David Wendell, Dionysios D Dionysiou, *Applied Catalysis B: Environmental*, **2015**, 163, 591-598 **IF=6.031**
2) "Reductive and oxidative degradation of iopamidol, iodinated X-ray contrast media, by Fe (III)-oxalate under UV and visible light treatment", Cen Zhao, Luis E Arroyo-Mora, Anthony P DeCaprio, Virender K Sharma, Dionysios D Dionysiou, Kevin E O'Shea, *Water research* **2014**, 67, 144-153 **IF=5.389**
3) "Kinetics and mechanisms of cylindrospermopsin destruction by sulfate radical-based advanced oxidation processes", Xuexiang He, A Armah, Kevin E O'Shea, Dionysios D Dionysiou, *Water research* 63, 168-178 **IF=5.389**
4) "Oxidation of Microcystin-LR by Ferrate (VI): Kinetics, Degradation Pathways, and Toxicity Assessments", Wenjun Jiang, Long Chen, Sudha Rani Batchu, Piero R Gardinali, Libor Jasa, Blahoslav Marsalek, RadekZboril, Dionysios D Dionysiou, Kevin E O'Shea, Virender K Sharma, *Environmental science & technology*, **2014**, 48 (20), 12164-12172 **IF=5.865**
5) "High performance sulfur, nitrogen and carbon doped mesoporous anatase–brookiteTiO_2 photocatalyst for the removal of microcystin-LR under visible light irradiation", Said M El-Sheikh, Geshan Zhang, Hamza M El-Hosainy, Adel A Ismail, Kevin E O'Shea, Polycarpos Falaras, Athanassios G Kontos, Dionysios D Dionysiou, *Journal of hazardous materials*, **2014**, 280, 723-733 **IF=4.679**
6) "Revealing the degradation intermediates and pathways of visible light-induced NF-TiO_2 photocatalysis of microcystin-LR", Joel Andersen, Changseok Han, Kevin O'Shea, Dionysios D Dionysiou, *Applied Catalysis B: Environmental,***2014**, 154, 259-266 **IF=6.031**
7) "New Insights into the Mechanism of Visible Light Photocatalysis", Swagata Banerjee, Suresh C Pillai, Polycarpos Falaras, Kevin E O'Shea, John A Byrne, Dionysios D Dionysiou, *The Journal of Physical Chemistry Letters,* **2014**, 5 (15), 2543-2554 **IF=6.651**
8) "Solar photocatalytic disinfection of water using titanium dioxide graphene composites", P Fernández-Ibáñez, MI Polo-López, S Malato, S Wadhwa, JWJ Hamilton, PSM Dunlop, R D'Sa, E Magee, K O'Shea, DD Dionysiou, JA Byrne, *Chemical Engineering Journal*, **2015,** 36-44 **IF=3.61**
9) "Ultraviolet–Visible Light–Sensitive High Surface Area Phosphorous-Fluorine–Co-Doped TiO_2 Nanoparticles for the Degradation of Atrazine in Water", Javed Ali Khan, Changseok Han, Noor S Shah, Hasan M Khan, Mallikarjuna N Nadagouda, VlassisLikodimos, PolycarposFalaras, Kevin O'Shea, Dionysios D Dionysiou, *Environmental Engineering Science*, **2014**, 31 (7), 435-446 **IF=NA**
10) "Cr (VI) Adsorption and Reduction by Humic Acid Coated on Magnetite", Wenjun Jiang, QuanCai, Wei Xu, Mingwei Yang, Yong Cai, Dionysios D Dionysiou, Kevin E O'Shea, *Environmental Science & Technology*, **2014**, 8078-8085 **IF=5.865**
11) "Solar photocatalysis for water disinfection: materials and reactor design", DA Keane, KG McGuigan, PF Ibáñez, MI Polo-López, JA Byrne, .Kevin O'Shea, *Catalysis Science & Technology* **2014**, 4 (5), 1211-1226, **IF=3.465**
12) "Evaluating the Mechanism of Visible Light Activity for N, F-TiO_2 Using Photoelectrochemistry", Jeremy Hamilton, Tony Byrne, Patrick Dunlop, Dionysios D Dionysiou, Miguel Pelaez, Kevin E O'Shea, Damian Synnott, Suresh C Pillai, *The Journal of Physical Chemistry C*, **2014**, 12206-12215 **IF=5.152**
13) "Degradation of cylindrospermopsin by using polymorphic titanium dioxide under UV–Vis irradiation", Geshan Zhang, Mallikarjuna N Nadagouda, Kevin O'Shea, Said M El-Sheikh, Adel A Ismail, VlassisLikodimos, PolycarposFalaras, Dionysios D Dionysiou, *Catalysis Today*, **2014**, 224, 49-55 **IF=3.464**
14) "UV and visible light activated TiO_2 photocatalysis of 6-hydroxymethyl uracil, a model compound for the potent cyanotoxin cylindrospermopsin", Cen Zhao, Miguel Pelaez, Dionysios D Dionysiou, Suresh C Pillai, John A Byrne, Kevin E O'Shea, *Catalysis Today*, **2014**, 224, 70-76 **IF=3.464**
15) "Adsorption and photocatalytic degradation of aromatic organoarsenic compounds in TiO_2 suspension", Shan Zheng, Wenjun Jiang, Yong Cai, Dionysios D Dionysiou, Kevin E O'Shea, *Catalysis Today*, **2014**, 224, 83-88 **IF=3.464**
16) "Degradation Mechanism of Cyanobacterial Toxin Cylindrospermopsin by Hydroxyl Radicals in Homogeneous UV/H_2O_2 Process", Xuexiang He, Geshan Zhang, Armah A de la Cruz, Kevin E O'Shea, Dionysios D Dionysiou, *Environmental science & technology*, **2014**, 48 (8), 4495-4504 **IF=5.865**
17) "Visible light-sensitized S, N and C co-doped polymorphic TiO_2 for photocatalytic destruction of microcystin-LR", Geshan Zhang, Yong Cai Zhang, Mallikarjuna Nadagouda, Changseok Han, Kevin O'Shea, Said M El-Sheikh, Adel A Ismail, Dionysios D Dionysiou, *Applied Catalysis B: Environmental*, **2014**, 144, 614-621 **IF=6.031**
18) "Improved charge transport of Nb-doped TiO_2 nanorods in methylammonium lead iodide bromide perovskite solar cells", Mengjin Yang, Rui Guo, Kamal Kadel, Yunyan Liu, Kevin O'Shea, Richard Bone, Xuewen Wang, Jin He, Wenzhi Li, *Journal of Materials Chemistry A*, **2014**, 2 (46), 19616-19622 **IF=4.091**
19) "Practices that Prevent the Formation of Cyanobacterial Blooms in Water Resources and Remove Cyanotoxins During Physical Treatment of Drinking Water", Maria G., Antoniou, Armah A. de La Cruz, Miguel Pelaez, C. Han, X. He, Dionysios D. Dionysiou, Weihua Song, Kevin E. O'Shea, L. Ho, G Newcombe, *et al* in Ahuja S. (ed)

Comprehensive Water Quality and Purification, Volume 2, 2014, Elsevier Inc, 173-195, doi: 10.1016/B978-0-12-382182-9.00032-3 **IF=NA**

20) "NF-TiO_2 photocatalysis of amitrole and atrazine with addition of oxidants under simulated solar light: Emerging synergies, degradation intermediates, and reusable attributes", Joel Andersen, Miguel Pelaez, L. Guay, Z. Zhang, Kevin E. O'Shea, and Dionysios D. Dionysiou, *Journal of Hazardous Materials*, **2013,** 260, 569-575 **IF=4.679**
21) "Efficient removal of endosulfan from aqueous solution by UV-C/peroxides: A comparative study", N.S. Shah, X. He, H.M. Khan, J.A. Khan, Kevin E. O'Shea, D.L. Boccelli, and Dionysios D. Dionysiou, *Journal of Hazardous Materials*, **2013**, 263, 584-592 **IF=4.679**
22) "Role of pH on photolytic and photocatalytic degradation of antibiotic Oxytetracycline in aqueous solution under visible/solar light: Kinetics and mechanism studies", Chun Zhao, Miguel Pelaez, Xiaodi Duan, Huiping Deng, Kevin E. O'Shea, Despo Fatta-Kassinos, and Dionysios D. Dionysiou, *Applied Catalysis, B: Environmental* **2013**, 134-135, 83-92 **IF=6.031**
23) "Chromium(VI) removal by maghemite nanoparticles", Wenjun Jiang, Miguel Pelaez, Dionysios D. Dionysiou, Mohammad H. Entezari, Dimitra Tsoutsou, and Kevin E. O'Shea, *Chemical Engineering Journal* **2013**, 222, 527-533.) **IF=3.691**
24) "Chapter green nanotechnology: Development of nanomaterials for environmental and energy applications", Changseok Han, Joel Andersen, Suresh C. Pillai, Rachel Fagan, Polycarpos Falaras, J. Anthony Byrne, Patrick S. M. Dunlop, Hyeok Choi, Wenjun Jiang, Kevin O'Shea, *et al ACS Symp. Ser.* 1124, **2013**, 201-229. **IF=NA**
25) "Photocatalytical removal of inorganic and organic arsenic species from aqueous solution using zinc oxide semiconductor", Nidia Rivera-Reyna, Laura Hinojosa-Reyes, Jorge Luis Guzman-Mar, Yong Cai, Kevin E. O'Shea, and Hernandez-Ramirez, *Photochemical & Photobiological Sciences* **2013**, 12(4), 653-659.) **IF=2.810**.
26) "Anion-Doped TiO_2 Nanocatalysts for Water Purification under Visible Light", Vlassis Likodimos, Changseok Han, Miguel Pelaez, Athanassios G. Kontos, Guanglong Liu, Duanwei Zhu, Shuijiao Liao, Armah A. de la Cruz, Kevin E. O'Shea, Patrick S. M. Dunlop, *et al Industrial Engineering. Chemical Research* **2013**, 52, 13957-13964.) **IF=2.461**
27) "Optimization of photocatalytic performance of TiO_2 coated glass microspheres using response surface methodology and the application for degradation of dimethyl phthalate", Wenjun Jiang, Jeff A. Joens, Dionysios D. Dionysiou, and Kevin E. O'Shea, (J. Photochem. Photobiol., A 262 **2013**, 7-13.) **IF=2.691**
28) "A review on cylindrospermopsin: the global occurrence, detection, toxicity and degradation of a potent cyanotoxin", Armah A. de la Cruz, Hiskia, T. Kaloudis, N. Chernoff, D. Hill, Maria G. Antoniou, X. He, K. Loftin, Kevin E. O'Shea, Cen Zhao, Miguel Pelaez, Changseok Han, T.J. Lynch, Dionysios D. Dionysiou, (Environ. Sci. Processes and Impacts **2013**, 1979-2003.) **IF=NA**
29) Photodegradation of antibiotics under simulated solar radiation: Implications for their environmental fate, Sudha Batchu, Venkat Panditi, Kevin E. O'Shea, and Piero R. Gardinali, (*Science of the Total Environment* **2013,** 470-471C, 299-310.) **IF = 3.789**
30) "Destruction of microcystins by conventional and advanced oxidation processes: A review", Virender K. Sharma, Theodoros M.Triantis, Maria G. Antoniou, Xuexiang He, Miguel Pelaez, Changseok Han, Weihua Song, Kevin E. O'Shea, Armah A. de la Cruz, Triantafyllos Kaloudis, *et al* (*Separation and Purification Technology* **2012**, 91, 3-17.) **IF = 3.525**
31) "Mechanistic considerations for the degradation of methyl tert-butyl ether (MTBE) by sonolysis: Effect of argon vs. oxygen saturated solutions" Duk Kyung Kim, Kevin E. O'Shea, William J. Cooper, (*Ultrasonics Sonochemistry* **2012**, 19(4), 959-968.) **IF = 3.708**
32) "Efficient removal of microcystin-LR by UV-C/H_2O_2 in synthetic and natural water samples", Xuexiang He, Miguel Pelaez, Judy A. Westrick, Kevin E.; O'Shea, Anastasia Hiskia, Theodoros Triantis, Triantafyllos Kaloudis, Mihaela I. Stefan, Armah A. de la Cruz, Dionysios D. Dionysiou, (*Water Research* **2012**, 46(5), 1501-1510.) **IF=5.389**
33) "Innovative visible light-activated sulfur doped TiO_2 films for water treatment", Changseok Han, Miguel Pelaez, Vlassis Likodimos, Athanassios G. Kontos, Polycarpos Falaras, Kevin E. O'Shea and Dionysios D. Dionysiou, (*Applied Catalysis B – Environmental*, **2012**, 107, 77-87.) **IF=6.031**
34) "Effects of water parameters on the degradation of microcystin-LR under visible light-activated TiO_2 photocatalyst. Miguel Pelaez, Armah A. de la Cruz,m Kevin E. O'Shea, Polycarpos Falaras, and Dionysios D. Dionysiou, (*Water Research* **2012**, 45, 3787-3796.) **IF = 5.389**
35) "A review on the visible light active titanium dioxide photocatalysts for environmental applications", Miguel Pelaez, Nicholas T. Nolan, Suresh C. Pillai, Michael K. Seery, Polycarpos Falaras, Athanassios G. Kontos, Patrick S. M. Dunlop, Jeremy W. J. Hamilton, J. Anthony Byrne, Kevin E. O'Shea, *et al* (*Applied Catalysis, B: Environmental* **2012**, 125, 331-349.) **IF = 6.031**
36) "Advanced Oxidation Processes for Water Treatment", Kevin E. O'Shea, Dionysios D. Dionysiou, (Journal of Physical Chemistry Letters **2012**, 3(15), 2112-2113.) **IF = 6.651**
37) "Oxidative degradation of alternative gasoline oxygenates in aqueous solution by ultrasonic irradiation: Mechanistic study", Duk Kyung Kim, Kevin E. O'Shea, and William J. Cooper, (*Science of the Total Environment* **2012**, 430, 246-259.) **IF = 3.789**
38) "A comparative study on the removal of cylindrospermopsin and microcystins from water with NF-TiO_2-P25 composite films with visible and UV-vis light photocatalytic activity", Miguel Pelaez, , Polycarpos Falaras, Athanassios G. Kontos, Armah A. de la Cruz, Kevin E. O'Shea, Patrick S. M. Dunlop, J. Anthony Byrne, and Dionysios D. Dionysiou, (*Applied Catalysis, B: Environmental* **2012**, 121-122, 30-39.) **IF = 6.031**

39) "Hydroxyl Radical Oxidation of Cylindrospermopsin (Cyanobacterial Toxin) and Its Role in the Photochemical Transformation", Weihua Song, Shuwen Yan, William J. Cooper, Dionysios D. Dionysiou, and Kevin E. O'Shea, (*Environ. Sci. Technol*. **2012**, 46(22), 12608-12615.) **IF=5.865**
40) "Can we effectively degrade microcystins? - implications on human health", Armah A. de la Cruz, Maria G. Antoniou, Anastasia Hiskia, Miguel Pelaez, Weihua Song, Kevin E. O'Shea, Xuexiang He, and Dionysios D. Dionysiou, (*Anti-Cancer Agents in Medicinal Chemistry* **2011**, 11, 19-37.) **IF=2.610**
41) "Complexation of MCs and NOD by CD in Aqueous Solution, a Potential Removal Strategy", Lin Chen, Dionysios D. Dionysiou, and Kevin E. O'Shea. (*Environ Sci. Technol.* **2011**, 45, 2293.) **IF=5.865**
42) "Photochemical fate of atorvastatin (lipitor) in simulated natural water", Behnaz Razavi, Sihem Ben Abdelmelek, Weihua Song, Kevin E. O'Shea, and William J. Cooper, (*Water Research* **2011**, 45(2), 625-631.) **IF=5.389**
43) "Sources and occurrence of cyanotoxins worldwide", Miguel Pelaez, Maria G. Antoniou, Xuexiang He, Dionysios D. Dionysiou, Armah A. de La Cruz, Katerina Tsimeli, Theodoros Triantis, Anastasia Hiskia, Triantafyllos Kaloudis, Christopher Williams, Kevin E. O'Shea, *et al* (*Environmental Pollution* **2010**, 16, 101-127.) **IF=4.094**
44) "Synthesis, structural characterization and evaluation of sol-gel-based NF-TiO_2 films with visible light-photoactivation for the removal of Microcystin-LR", Miguel Pelaez, Polycarpos Falaras, Vlassis Likodimos, Athanassios G. Kontos, Armah A. de la Cruz, Kevin O'Shea, and Dionysios D. Dionysiou, (*Applied Catalysis, B: Environmental* **2010**, 99(3-4), 378-387.) **IF = 6.031**
45) "UV and solar TiO_2 photocatalysis of brevetoxins (PbTxs)" , Urooj Khan, Nadia Benabderrazik, Andrea J. Bourdelais, Daniel G. Baden, Kathleen Rein, Piero R. Gardinali, Luis Arroyo, and Kevin E. O'Shea (*Toxicon* **2010**, 1008-1016.) **IF = 2.792**.
46) "TiO_2 photocatalytic degradation of phenylarsonic acid", Shan Zhang, Yong Cai, and Kevin E. O'Shea, *Journal of Photochemistry and Photobiology: Chemistry A*, **2010**, 210, 61-68. **IF = 2.691**
47) "Advanced oxidation and reduction process chemistry of methyl tert-butyl ether (MTBE) reaction intermediates in aqueous solution: 2-Methoxy-2-methyl-propanal, 2-methoxy-2-methyl-propanol, and 2-methoxy-2-methyl-propanoic acid", Stephen P. Mezyk, Rance Hardison, Weihua Song, Kevin E. O'Shea, David M. Bartels, William J. Cooper, (*Chemosphere* **2009**, 77(10), 1352-1357.) **IF=3.634**
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