

Stefanos Giannakis

List of Publications by Year in descending order

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104
papers

5,451
citations

71102

41
h-index

88630

70
g-index

105
all docs

105
docs citations

105
times ranked

3609
citing authors

#	ARTICLE	IF	CITATIONS
1	Predicting the bactericidal efficacy of solar disinfection (SODIS): from kinetic modeling of in vitro tests towards the in silico forecast of E. coli inactivation. <i>Chemical Engineering Journal</i> , 2022, 427, 130866.	12.7	7
2	Decrypting the photocatalytic bacterial inactivation of hierarchical flower-like Bi ₂ WO ₆ microspheres induced by surface properties: Experimental studies and ab initio calculations. <i>Chemical Engineering Journal</i> , 2022, 427, 131768.	12.7	23
3	Vacuum UV pre-treatment coupled with self-generated peroxide stimulation of biomass: An innovative hybrid system for detoxification and mineralization of toxic compounds. <i>Chemosphere</i> , 2022, 286, 131701.	8.2	6
4	Heterogeneous catalytic ozonation and peroxone-mediated removal of Acetaminophen using natural and modified hematite-rich soil, as efficient and environmentally friendly catalysts. <i>Applied Catalysis B: Environmental</i> , 2022, 301, 120786.	20.2	35
5	Monitoring Benzene, Toluene, Ethylbenzene, and Xylene (BTEX) Levels in Mixed-Use Residential-Commercial Buildings in Shiraz, Iran: Assessing the Carcinogenicity and Non-Carcinogenicity Risk of Their Inhabitants. <i>International Journal of Environmental Research and Public Health</i> , 2022, 19, 723.	2.6	13
6	Development of a percarbonate-enhanced Vacuum UV process for simultaneous fluoroquinolone antibiotics removal and fecal bacteria inactivation under a continuous flow mode of operation. <i>Chemical Engineering Journal</i> , 2022, 431, 134064.	12.7	14
7	Intensification of persulfate-mediated elimination of bisphenol A by a spinel cobalt ferrite-anchored g-C ₃ N ₄ S-scheme photocatalyst: Catalytic synergies and mechanistic interpretation. <i>Separation and Purification Technology</i> , 2022, 285, 120313.	7.9	89
8	Investigation of the Presence Volatile Organic Compounds (BTEX) in the Ambient Air and Biogases Produced by a Shiraz Landfill in Southern Iran. <i>Sustainability</i> , 2022, 14, 1040.	3.2	8
9	Investigating the Electrocoagulation Treatment of Landfill Leachate by Iron/Graphite Electrodes: Process Parameters and Efficacy Assessment. <i>Water (Switzerland)</i> , 2022, 14, 205.	2.7	19
10	Catalytic ozonation of Acetaminophen with a magnetic, Cerium-based Metal-Organic framework as a novel, easily-separable nanocomposite. <i>Chemical Engineering Journal</i> , 2022, 434, 134614.	12.7	30
11	Persulfate Application for Landfill Leachate Treatment: Current Status and Challenges. <i>Chemistry in the Environment</i> , 2022, , 252-288.	0.4	4
12	Nitrate in Groundwater Resources of Hormozgan Province, Southern Iran: Concentration Estimation, Distribution and Probabilistic Health Risk Assessment Using Monte Carlo Simulation. <i>Water (Switzerland)</i> , 2022, 14, 564.	2.7	18
13	Decrypting the synergistic action of the Fenton process and biochar addition for sustainable remediation of real technogenic soil from PAHs and heavy metals. <i>Environmental Pollution</i> , 2022, 303, 119096.	7.5	11
14	A review of heavy metals removal from aqueous matrices by Metal-Organic Frameworks (MOFs): State-of-the art and recent advances. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 107394.	6.7	51
15	Mechanistic modelling of solar disinfection (SODIS) kinetics of Escherichia coli, enhanced with H ₂ O ₂ – Part 2: Shine on you, crazy peroxide. <i>Chemical Engineering Journal</i> , 2022, 439, 135783.	12.7	2
16	Mechanistic modelling of solar disinfection (SODIS) kinetics of Escherichia coli, enhanced with H ₂ O ₂ – part 1: The dark side of peroxide. <i>Chemical Engineering Journal</i> , 2022, 439, 135709.	12.7	3
17	Impressive strides in antibacterial performance amelioration of Ti-based implants via plasma electrolytic oxidation (PEO): A review of the recent advancements. <i>Chemical Engineering Journal</i> , 2022, 441, 136003.	12.7	50
18	Identifying the mediators of intracellular E. coli inactivation under UVA light: The (photo) Fenton process and singlet oxygen. <i>Water Research</i> , 2022, 221, 118740.	11.3	17

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19	The efficacy of the VUV/O ₃ process run in a continuous-flow fluidized bed reactor for simultaneous elimination of favipiravir and bacteria in aqueous matrices. <i>Chemosphere</i> , 2022, 304, 135307.	8.2	8
20	Solar Disinfection as a Water Treatment Technology. <i>Encyclopedia of the UN Sustainable Development Goals</i> , 2022, , 563-578.	0.1	0
21	Deriving an Fe^{2+} -Fe ₂ O ₃ /g-C ₃ N ₄ nanocomposite from a naturally hematite-rich soil, for dual photocatalytic and photo-Fenton degradation of Acetaminophen under visible light. <i>Separation and Purification Technology</i> , 2022, 299, 121723.	7.9	16
22	Degradation of the antiviral remdesivir by a novel, continuous-flow, helical-baffle incorporating VUV/UVC photoreactor: Performance assessment and enhancement by inorganic peroxides. <i>Separation and Purification Technology</i> , 2022, 298, 121665.	7.9	7
23	Superior visible light-mediated catalytic activity of a novel N-doped, Fe ₃ O ₄ -incorporating MgO nanosheet in presence of PMS: Imidacloprid degradation and implications on simultaneous bacterial inactivation. <i>Applied Catalysis B: Environmental</i> , 2022, 317, 121732.	20.2	38
24	Improving ferrate disinfection and decontamination performance at neutral pH by activating peroxymonosulfate under solar light. <i>Chemical Engineering Journal</i> , 2022, 450, 137904.	12.7	14
25	A review of the recent advances on the treatment of industrial wastewaters by Sulfate Radical-based Advanced Oxidation Processes (SR-AOPs). <i>Chemical Engineering Journal</i> , 2021, 406, 127083.	12.7	747
26	Enhanced vacuum UV-based process (VUV/H ₂ O ₂ /PMS) for the effective removal of ammonia from water: Engineering configuration and mechanistic considerations. <i>Journal of Hazardous Materials</i> , 2021, 402, 123789.	12.4	42
27	A continuous-flow catalytic process with natural hematite-alginate beads for effective water decontamination and disinfection: Peroxymonosulfate activation leading to dominant sulfate radical and minor non-radical pathways. <i>Chemical Engineering Journal</i> , 2021, 411, 127738.	12.7	32
28	A review of the innovations in metal- and carbon-based catalysts explored for heterogeneous peroxymonosulfate (PMS) activation, with focus on radical vs. non-radical degradation pathways of organic contaminants. <i>Chemical Engineering Journal</i> , 2021, 411, 127957.	12.7	458
29	Development of a VUV-UVC/peroxymonosulfate, continuous-flow Advanced Oxidation Process for surface water disinfection and Natural Organic Matter elimination: Application and mechanistic aspects. <i>Journal of Hazardous Materials</i> , 2021, 408, 124634.	12.4	21
30	Efficient photocatalytic degradation of ciprofloxacin under UVA-LED, using S,N-doped MgO nanoparticles: Synthesis, parametrization and mechanistic interpretation. <i>Journal of Molecular Liquids</i> , 2021, 324, 114831.	4.9	29
31	Acetaminophen degradation by a synergistic peracetic acid/UVC-LED/Fe(II) advanced oxidation process: Kinetic assessment, process feasibility and mechanistic considerations. <i>Chemosphere</i> , 2021, 263, 128119.	8.2	80
32	Urban and Industrial Wastewater Disinfection and Decontamination by Advanced Oxidation Processes (AOPs): Current Issues and Future Trends. <i>Water (Switzerland)</i> , 2021, 13, 560.	2.7	4
33	Evaluation of the effectiveness, safety, and feasibility of 9 potential biocides to disinfect acidic landfill leachate from algae and bacteria. <i>Water Research</i> , 2021, 191, 116801.	11.3	24
34	A meta-analysis of the scientific literature on (photo)Fenton and persulfate advanced oxidation processes: Where do we stand and where are we heading to?. <i>Current Opinion in Green and Sustainable Chemistry</i> , 2021, 29, 100456.	5.9	14
35	An innovative, highly stable Ag/ZIF-67@GO nanocomposite with exceptional peroxymonosulfate (PMS) activation efficacy, for the destruction of chemical and microbiological contaminants under visible light. <i>Journal of Hazardous Materials</i> , 2021, 413, 125308.	12.4	98
36	Synthesis of a novel, ternary Ag/CeO ₂ @g-C ₃ N ₄ nanocomposite with exceptional stability and reusability for visible light-assisted photocatalytic reduction of hexavalent chromium. <i>Applied Surface Science</i> , 2021, 555, 149692.	6.1	32

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37	Radical-based degradation of sulfamethoxazole via UVA/PMS-assisted photocatalysis, driven by magnetically separable Fe ₃ O ₄ @CeO ₂ @BiOI nanospheres. <i>Separation and Purification Technology</i> , 2021, 267, 118665.	7.9	64
38	Photocatalytic activation of peroxymonosulfate (PMS) by novel mesoporous Ag/ZnO@NiFe ₂ O ₄ nanorods, inducing radical-mediated acetaminophen degradation under UVA irradiation. <i>Chemosphere</i> , 2021, 277, 130271.	8.2	55
39	SODIS potential: A novel parameter to assess the suitability of solar water disinfection worldwide. <i>Chemical Engineering Journal</i> , 2021, 419, 129889.	12.7	20
40	Unfolding the action mode of light and homogeneous vs. heterogeneous photo-Fenton in bacteria disinfection and concurrent elimination of micropollutants in urban wastewater, mediated by iron oxides in Raceway Pond Reactors. <i>Applied Catalysis B: Environmental</i> , 2020, 263, 118158.	20.2	28
41	A novel proposition for a citrate-modified photo-Fenton process against bacterial contamination of microalgae cultures. <i>Applied Catalysis B: Environmental</i> , 2020, 265, 118615.	20.2	19
42	Enhancing solar disinfection (SODIS) with the photo-Fenton or the Fe ²⁺ /peroxymonosulfate-activation process in large-scale plastic bottles leads to toxicologically safe drinking water. <i>Water Research</i> , 2020, 186, 116387.	11.3	36
43	Solar Disinfection as a Water Treatment Technology. <i>Encyclopedia of the UN Sustainable Development Goals</i> , 2020, , 1-16.	0.1	9
44	Employing bacterial mutations for the elucidation of photo-Fenton disinfection: Focus on the intracellular and extracellular inactivation mechanisms induced by UVA and H ₂ O ₂ . <i>Water Research</i> , 2020, 182, 116049.	11.3	45
45	Shedding light on the catalytic synergies between Fe(II) and PMS in vacuum UV (VUV/Fe/PMS) photoreactors for accelerated elimination of pharmaceuticals: The case of metformin. <i>Chemical Engineering Journal</i> , 2020, 400, 125896.	12.7	40
46	A novel CuO/Fe ₂ O ₃ /ZnO composite for visible-light assisted photocatalytic oxidation of Bisphenol A: Kinetics, degradation pathways, and toxicity elimination. <i>Separation and Purification Technology</i> , 2020, 242, 116821.	7.9	52
47	Detrimental vs. beneficial influence of ions during solar (SODIS) and photo-Fenton disinfection of <i>E. coli</i> in water: (Bi)carbonate, chloride, nitrate and nitrite effects. <i>Applied Catalysis B: Environmental</i> , 2020, 270, 118877.	20.2	64
48	Natural iron ligands promote a metal-based oxidation mechanism for the Fenton reaction in water environments. <i>Journal of Hazardous Materials</i> , 2020, 393, 122413.	12.4	53
49	Visible light plays a significant role during bacterial inactivation by the photo-fenton process, even at sub-critical light intensities. <i>Water Research</i> , 2020, 174, 115636.	11.3	44
50	Improving visible light photocatalytic inactivation of <i>E. coli</i> by inducing highly efficient radical pathways through peroxymonosulfate activation using 3-D, surface-enhanced, reduced graphene oxide (rGO) aerogels. <i>Chemical Engineering Journal</i> , 2020, 396, 125189.	12.7	47
51	Insights into the Photocatalytic Bacterial Inactivation by Flower-Like Bi ₂ WO ₆ under Solar or Visible Light, Through in Situ Monitoring and Determination of Reactive Oxygen Species (ROS). <i>Water (Switzerland)</i> , 2020, 12, 1099.	2.7	26
52	Kinetic modeling of lag times during photo-induced inactivation of <i>E. coli</i> in sunlit surface waters: Unraveling the pathways of exogenous action. <i>Water Research</i> , 2019, 163, 114894.	11.3	26
53	Evaluation of process influencing factors, degradation products, toxicity evolution and matrix-related effects during electro-Fenton removal of piroxicam from waters. <i>Journal of Environmental Chemical Engineering</i> , 2019, 7, 103400.	6.7	21
54	VUV/Fe(II)/H ₂ O ₂ as a novel integrated process for advanced oxidation of methyl tert-butyl ether (MTBE) in water at neutral pH: Process intensification and mechanistic aspects. <i>Water Research</i> , 2019, 166, 115061.	11.3	45

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55	Supported Pt _x Pd _{1-x} bimetallic nanoparticles on ionic liquid-functionalized SiO ₂ @graphene oxide nanocomposite and its application as an effective multiphasic catalyst. <i>Applied Catalysis A: General</i> , 2019, 579, 30-43.	4.3	12
56	Solar-assisted bacterial disinfection and removal of contaminants of emerging concern by Fe ²⁺ -activated HSO ₅ ⁻ vs. S ₂ O ₈ ²⁻ in drinking water. <i>Applied Catalysis B: Environmental</i> , 2019, 248, 62-72.	20.2	100
57	A review of the concepts, recent advances and niche applications of the (photo) Fenton process, beyond water/wastewater treatment: Surface functionalization, biomass treatment, combatting cancer and other medical uses. <i>Applied Catalysis B: Environmental</i> , 2019, 248, 309-319.	20.2	99
58	Enhanced mineralization of atrazine by surface induced hydroxyl radicals over light-weight granular mixed-quartz sands with ozone. <i>Water Research</i> , 2019, 149, 136-148.	11.3	70
59	<i>E. coli</i> – MS2 bacteriophage interactions during solar disinfection of wastewater and the subsequent post-irradiation period. <i>Chemical Engineering Journal</i> , 2019, 359, 1224-1233.	12.7	11
60	Enhancing solar disinfection of water in PET bottles by optimized in-situ formation of iron oxide films. From heterogeneous to homogeneous action modes with H ₂ O ₂ vs. O ₂ – Part 2: Direct use of (natural) iron oxides. <i>Chemical Engineering Journal</i> , 2019, 360, 1051-1062.	12.7	6
61	Iron-coated polymer films with high antibacterial activity under indoor and outdoor light, prepared by different facile pre-treatment and deposition methods. <i>Applied Catalysis B: Environmental</i> , 2019, 243, 161-174.	20.2	0
62	A systematic investigation on the bactericidal transient species generated by photo-sensitization of natural organic matter (NOM) during solar and photo-Fenton disinfection of surface waters. <i>Applied Catalysis B: Environmental</i> , 2019, 244, 983-995.	20.2	45
63	Enhancing solar disinfection of water in PET bottles by optimized in-situ formation of iron oxide films. From heterogeneous to homogeneous action modes with H ₂ O ₂ vs. O ₂ – Part 1: Iron salts as oxide precursors. <i>Chemical Engineering Journal</i> , 2019, 358, 211-224.	12.7	17
64	Wastewater and urine treatment by UVC-based advanced oxidation processes: Implications from the interactions of bacteria, viruses, and chemical contaminants. <i>Chemical Engineering Journal</i> , 2018, 343, 270-282.	12.7	36
65	Bacterial disinfection by the photo-Fenton process: Extracellular oxidation or intracellular photo-catalysis?. <i>Applied Catalysis B: Environmental</i> , 2018, 227, 285-295.	20.2	75
66	Analogies and differences among bacterial and viral disinfection by the photo-Fenton process at neutral pH: a mini review. <i>Environmental Science and Pollution Research</i> , 2018, 25, 27676-27692.	5.3	57
67	Fe and Cu in humic acid extracts modify bacterial inactivation pathways during solar disinfection and photo-Fenton processes in water. <i>Applied Catalysis B: Environmental</i> , 2018, 235, 75-83.	20.2	41
68	Effect of 1/4M Fe addition, mild heat and solar UV on sulfate radical-mediated inactivation of bacteria, viruses, and micropollutant degradation in water. <i>Water Research</i> , 2018, 140, 220-231.	11.3	79
69	Evidence for the degradation of an emerging pollutant by a mechanism involving iso-energetic charge transfer under visible light. <i>Applied Catalysis B: Environmental</i> , 2018, 233, 175-183.	20.2	47
70	Solar light and the photo-Fenton process against antibiotic resistant bacteria in wastewater: A kinetic study with a Streptomycin-resistant strain. <i>Catalysis Today</i> , 2018, 313, 86-93.	4.4	41
71	Photoinduced disinfection in sunlit natural waters: Measurement of the second order inactivation rate constants between <i>E. coli</i> and photogenerated transient species. <i>Water Research</i> , 2018, 147, 242-253.	11.3	29
72	Solar photo-Fenton disinfection of 11 antibiotic-resistant bacteria (ARB) and elimination of representative AR genes. Evidence that antibiotic resistance does not imply resistance to oxidative treatment. <i>Water Research</i> , 2018, 143, 334-345.	11.3	133

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73	Modeling and treatment optimization of pharmaceutically active compounds by the photo-Fenton process: The case of the antidepressant Venlafaxine. <i>Journal of Environmental Chemical Engineering</i> , 2017, 5, 818-828.	6.7	18
74	Effect of reactor material and its reuse on photo-Fenton process efficiency at near-neutral pH: Alterations in <i>E. coli</i> inactivation and resorcinol degradation kinetics in water. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2017, 344, 228-237.	3.9	12
75	New evidence for disinfection, self-cleaning and pollutant degradation mediated by GF-TiO ₂ -Cu mats under solar/visible light in mild oxidative conditions. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2017, 346, 351-363.	3.9	7
76	Remarkable enhancement of bacterial inactivation in wastewater through promotion of solar photo-Fenton at near-neutral pH by natural organic acids. <i>Applied Catalysis B: Environmental</i> , 2017, 205, 219-227.	20.2	54
77	Phototransformation of Acesulfame K in surface waters: Comparison of two techniques for the measurement of the second-order rate constants of indirect photodegradation, and modelling of photoreaction kinetics. <i>Chemosphere</i> , 2017, 186, 185-192.	8.2	23
78	Iron oxide-mediated semiconductor photocatalysis vs. heterogeneous photo-Fenton treatment of viruses in wastewater. Impact of the oxide particle size. <i>Journal of Hazardous Materials</i> , 2017, 339, 223-231.	12.4	111
79	Effect of Fe(II)/Fe(III) species, pH, irradiance and bacterial presence on viral inactivation in wastewater by the photo-Fenton process: Kinetic modeling and mechanistic interpretation. <i>Applied Catalysis B: Environmental</i> , 2017, 204, 156-166.	20.2	77
80	FeOx magnetization enhancing <i>E. coli</i> inactivation by orders of magnitude on Ag-TiO ₂ nanotubes under sunlight. <i>Applied Catalysis B: Environmental</i> , 2017, 202, 438-445.	20.2	57
81	Iohexol degradation in wastewater and urine by UV-based Advanced Oxidation Processes (AOPs): Process modeling and by-products identification. <i>Journal of Environmental Management</i> , 2017, 195, 174-185.	7.8	42
82	Comparative effect of growth media on the monitoring of <i>E. coli</i> inactivation and regrowth after solar and photo-Fenton treatment. <i>Chemical Engineering Journal</i> , 2017, 313, 109-120.	12.7	32
83	Solar photo-Fenton and UV/H ₂ O ₂ processes against the antidepressant Venlafaxine in urban wastewaters and human urine. Intermediates formation and biodegradability assessment. <i>Chemical Engineering Journal</i> , 2017, 308, 492-504.	12.7	63
84	A green solar photo-Fenton process for the elimination of bacteria and micropollutants in municipal wastewater treatment using mineral iron and natural organic acids. <i>Applied Catalysis B: Environmental</i> , 2017, 219, 538-549.	20.2	96
85	Light-Assisted Advanced Oxidation Processes for the Elimination of Chemical and Microbiological Pollution of Wastewaters in Developed and Developing Countries. <i>Molecules</i> , 2017, 22, 1070.	3.8	93
86	Self-Sterilizing Sputtered Films for Applications in Hospital Facilities. <i>Molecules</i> , 2017, 22, 1074.	3.8	19
87	Complex Treatment for the Disposal and Utilization of Process Wastewaters of the Pharmaceutical Industry. <i>Periodica Polytechnica: Chemical Engineering</i> , 2017, , .	1.1	3
88	Micropollutant degradation, bacterial inactivation and regrowth risk in wastewater effluents: Influence of the secondary (pre)treatment on the efficiency of Advanced Oxidation Processes. <i>Water Research</i> , 2016, 102, 505-515.	11.3	81
89	Solar disinfection is an augmentable, in situ-generated photo-Fenton reaction—Part 1: A review of the mechanisms and the fundamental aspects of the process. <i>Applied Catalysis B: Environmental</i> , 2016, 199, 199-223.	20.2	253
90	Solar disinfection is an augmentable, in situ-generated photo-Fenton reaction—Part 2: A review of the applications for drinking water and wastewater disinfection. <i>Applied Catalysis B: Environmental</i> , 2016, 198, 431-446.	20.2	160

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91	Supported TiO ₂ films deposited at different energies: Implications of the surface compactness on the catalytic kinetics. Applied Catalysis B: Environmental, 2016, 191, 42-52.	20.2	46
92	Castles fall from inside: Evidence for dominant internal photo-catalytic mechanisms during treatment of <i>Saccharomyces cerevisiae</i> by photo-Fenton at near-neutral pH. Applied Catalysis B: Environmental, 2016, 185, 150-162.	20.2	53
93	Insight on the photocatalytic bacterial inactivation by co-sputtered TiO ₂ -Cu in aerobic and anaerobic conditions. Applied Catalysis B: Environmental, 2016, 182, 277-285.	20.2	49
94	Light wavelength-dependent <i>E. coli</i> survival changes after simulated solar disinfection of secondary effluent. Photochemical and Photobiological Sciences, 2015, 14, 2238-2250.	2.9	12
95	Temperature-dependent change of light dose effects on <i>E. coli</i> inactivation during simulated solar treatment of secondary effluent. Chemical Engineering Science, 2015, 126, 483-487.	3.8	24
96	Effect of advanced oxidation processes on the micropollutants and the effluent organic matter contained in municipal wastewater previously treated by three different secondary methods. Water Research, 2015, 84, 295-306.	11.3	174
97	Solar disinfection modeling and post-irradiation response of <i>Escherichia coli</i> in wastewater. Chemical Engineering Journal, 2015, 281, 588-598.	12.7	40
98	Environmental considerations on solar disinfection of wastewater and the subsequent bacterial (re)growth. Photochemical and Photobiological Sciences, 2015, 14, 618-625.	2.9	24
99	Ultrasound enhancement of near-neutral photo-Fenton for effective <i>E. coli</i> inactivation in wastewater. Ultrasonics Sonochemistry, 2015, 22, 515-526.	8.2	31
100	The antagonistic and synergistic effects of temperature during solar disinfection of synthetic secondary effluent. Journal of Photochemistry and Photobiology A: Chemistry, 2014, 280, 14-26.	3.9	37
101	Elucidating bacterial regrowth: Effect of disinfection conditions in dark storage of solar treated secondary effluent. Journal of Photochemistry and Photobiology A: Chemistry, 2014, 290, 43-53.	3.9	35
102	Monitoring the post-irradiation <i>E. coli</i> survival patterns in environmental water matrices: Implications in handling solar disinfected wastewater. Chemical Engineering Journal, 2014, 253, 366-376.	12.7	39
103	Impact of different light intermittence regimes on bacteria during simulated solar treatment of secondary effluent: Implications of the inserted dark periods. Solar Energy, 2013, 98, 572-581.	6.1	28
104	Creativity and Innovation Skills in University STEM Education: The CHET Project Approach. , 0, , .		1