

# Wong Yee-Shian

## List of Publications by Year in descending order

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78  
papers

2,323  
citations

257357

24  
h-index

233338

45  
g-index

78  
all docs

78  
docs citations

78  
times ranked

2263  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Hybrid system up-flow constructed wetland integrated with microbial fuel cell for simultaneous wastewater treatment and electricity generation. <i>Bioresource Technology</i> , 2015, 186, 270-275.  | 4.8 | 196       |
| 2  | Coagulation-flocculation of azo dye Acid Orange 7 with green refined laterite soil. <i>Chemical Engineering Journal</i> , 2014, 246, 383-390.  | 6.6 | 145       |
| 3  | Role of macrophyte and effect of supplementary aeration in up-flow constructed wetland-microbial fuel cell for simultaneous wastewater treatment and energy recovery. <i>Bioresource Technology</i> , 2017, 224, 265-275.                        | 4.8 | 138       |
| 4  | Degradation of cationic and anionic dyes in coagulation-flocculation process using bi-functionalized silica hybrid with aluminum-ferric as auxiliary agent. <i>RSC Advances</i> , 2015, 5, 34206-34215.  | 1.7 | 122       |
| 5  | Synergistic effect of up-flow constructed wetland and microbial fuel cell for simultaneous wastewater treatment and energy recovery. <i>Bioresource Technology</i> , 2016, 203, 190-197.   | 4.8 | 113       |
| 6  | Constructed wetland-microbial fuel cell for azo dyes degradation and energy recovery: Influence of molecular structure, kinetics, mechanisms and degradation pathways. <i>Science of the Total Environment</i> , 2020, 720, 137370.              | 3.9 | 100       |
| 7  | A highly efficient single chambered up-flow membrane-less microbial fuel cell for treatment of azo dye Acid Orange 7-containing wastewater. <i>Bioresource Technology</i> , 2015, 197, 284-288.  | 4.8 | 75        |
| 8  | Microbial fuel cell operation using monoazo and diazo dyes as terminal electron acceptor for simultaneous decolourisation and bioelectricity generation. <i>Journal of Hazardous Materials</i> , 2017, 325, 170-177.                             | 6.5 | 67        |
| 9  | Up-flow constructed wetland-microbial fuel cell for azo dye, saline, nitrate remediation and bioelectricity generation: From waste to energy approach. <i>Bioresource Technology</i> , 2018, 266, 97-108.  | 4.8 | 67        |
| 10 | Enhanced electricity generation and degradation of the azo dye Reactive Green 19 in a photocatalytic fuel cell using ZnO/Zn as the photoanode. <i>Journal of Cleaner Production</i> , 2016, 127, 579-584.  | 4.6 | 66        |
| 11 | Disclosing the synergistic mechanisms of azo dye degradation and bioelectricity generation in a microbial fuel cell. <i>Chemical Engineering Journal</i> , 2018, 344, 236-245.   | 6.6 | 64        |
| 12 | A highly efficient immobilized ZnO/Zn photoanode for degradation of azo dye Reactive Green 19 in a photocatalytic fuel cell. <i>Chemosphere</i> , 2017, 166, 118-125.  | 4.2 | 63        |
| 13 | Evaluation of integrated anaerobic-aerobic biofilm reactor for degradation of azo dye methyl orange. <i>Bioresource Technology</i> , 2013, 143, 104-111.   | 4.8 | 60        |
| 14 | Biodegradation of Acid Orange 7 in a combined anaerobic-aerobic up-flow membrane-less microbial fuel cell: Mechanism of biodegradation and electron transfer. <i>Chemical Engineering Journal</i> , 2018, 336, 397-405.                          | 6.6 | 59        |
| 15 | Biological kinetics evaluation of anaerobic stabilization pond treatment of palm oil mill effluent. <i>Bioresource Technology</i> , 2009, 100, 4969-4975.  | 4.8 | 52        |
| 16 | Comparative Study on Photocatalytic Degradation of Mono Azo Dye Acid Orange 7 and Methyl Orange under Solar Light Irradiation. <i>Water, Air, and Soil Pollution</i> , 2012, 223, 5483-5493.   | 1.1 | 49        |
| 17 | Up-flow constructed wetland-microbial fuel cell: Influence of floating plant, aeration and circuit connection on wastewater treatment performance and bioelectricity generation. <i>Journal of Water Process Engineering</i> , 2020, 36, 101371. | 2.6 | 49        |
| 18 | Optimization of degradation of Reactive Black 5 (RB5) and electricity generation in solar photocatalytic fuel cell system. <i>Chemosphere</i> , 2017, 184, 112-119.  | 4.2 | 46        |

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|----|---|-----|-----------|
| 19 | Role of dissolved oxygen on the degradation mechanism of Reactive Green 19 and electricity generation in photocatalytic fuel cell. <i>Chemosphere</i> , 2018, 194, 675-681.   | 4.2 | 37        |
| 20 | Hybrid system of photocatalytic fuel cell and Fenton process for electricity generation and degradation of Reactive Black 5. <i>Separation and Purification Technology</i> , 2017, 177, 135-141.  | 3.9 | 34        |
| 21 | Performance and Kinetic Study on Bioremediation of Diazo Dye (Reactive Black 5) in Wastewater Using Spent GAC in Biofilm Sequencing Batch Reactor. <i>Water, Air, and Soil Pollution</i> , 2012, 223, 1615-1623.                              | 1.1 | 32        |
| 22 | Solar photocatalytic degradation of mono azo methyl orange and diazo reactive green 19 in single and binary dye solutions: adsorbability vs photodegradation rate. <i>Environmental Science and Pollution Research</i> , 2013, 20, 3405-3413. | 2.7 | 32        |
| 23 | Photocatalytic activity of zinc oxide (ZnO) synthesized through different methods. <i>Desalination and Water Treatment</i> , 2016, 57, 12496-12507.   | 1.0 | 31        |
| 24 | Evaluation of biodegradation process: Comparative study between suspended and hybrid microorganism growth system in sequencing batch reactor (SBR) for removal of phenol. <i>Biochemical Engineering Journal</i> , 2016, 115, 14-22.          | 1.8 | 30        |
| 25 | Decolorization and Mineralization of Batik Wastewater through Solar Photocatalytic Process. <i>Sains Malaysiana</i> , 2015, 44, 607-612.  | 0.3 | 26        |
| 26 | Production of Biofloculant by <i>Staphylococcus cohnii</i> ssp. from Palm Oil Mill Effluent (POME). <i>Water, Air, and Soil Pollution</i> , 2012, 223, 3775-3781.   | 1.1 | 25        |
| 27 | Simultaneous Wastewater Treatment and Power Generation with Innovative Design of an Upflow Membrane-Less Microbial Fuel Cell. <i>Water, Air, and Soil Pollution</i> , 2015, 226, 1.   | 1.1 | 24        |
| 28 | Exploring the relationship between molecular structure of dyes and light sources for photodegradation and electricity generation in photocatalytic fuel cell. <i>Chemosphere</i> , 2018, 209, 935-943.  | 4.2 | 24        |
| 29 | Anaerobic Acidogenesis Biodegradation of Palm Oil Mill Effluent Using Suspended Closed Anaerobic Bioreactor (SCABR) at Mesophilic Temperature. <i>Procedia Environmental Sciences</i> , 2013, 18, 433-441.                                    | 1.3 | 23        |
| 30 | Long-term operation of double chambered microbial fuel cell for bio-electro denitrification. <i>Bioprocess and Biosystems Engineering</i> , 2016, 39, 893-900.  | 1.7 | 23        |
| 31 | Influence of supporting electrolyte in electricity generation and degradation of organic pollutants in photocatalytic fuel cell. <i>Environmental Science and Pollution Research</i> , 2016, 23, 16716-16721.                                 | 2.7 | 22        |
| 32 | Influence of Amaranth dye concentration on the efficiency of hybrid system of photocatalytic fuel cell and Fenton process. <i>Environmental Science and Pollution Research</i> , 2017, 24, 23331-23340.                                       | 2.7 | 19        |
| 33 | Development of simultaneous photo-biodegradation in the photocatalytic hybrid sequencing batch reactor (PHSBR) for mineralization of phenol. <i>Biochemical Engineering Journal</i> , 2018, 138, 131-140.                                     | 1.8 | 19        |
| 34 | Suspended growth kinetic analysis on biogas generation from newly isolated anaerobic bacterial communities for palm oil mill effluent at mesophilic temperature. <i>RSC Advances</i> , 2014, 4, 64659-64667.                                  | 1.7 | 18        |
| 35 | Methane gas production from palm oil wastewater – An anaerobic methanogenic degradation process in continuous stirrer suspended closed anaerobic reactor. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2014, 45, 896-900.   | 2.7 | 18        |
| 36 | Enhancement of simultaneous batik wastewater treatment and electricity generation in photocatalytic fuel cell. <i>Environmental Science and Pollution Research</i> , 2018, 25, 35164-35175.   | 2.7 | 18        |

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|----|--|-----|-----------|
| 37 | Adsorption Behavior of Cationic and Anionic Dyes onto Acid Treated Coconut Coir. Separation Science and Technology, 2013, 48, 2125-2131.   | 1.3 | 17        |
| 38 | Start-up Operation of Anaerobic Degradation Process for Palm Oil Mill Effluent in Anaerobic Bench Scale Reactor (ABSR). Procedia Environmental Sciences, 2013, 18, 442-450.  | 1.3 | 17        |
| 39 | Comparison on biodegradation of anionic dye orange II and cationic dye methylene blue by immobilized microorganisms on spent granular activated carbon. Desalination and Water Treatment, 2015, 54, 557-561.                       | 1.0 | 17        |
| 40 | Comparison between the photocatalytic degradation of single and binary azo dyes in TiO <sub>2</sub> suspensions under solar light irradiation. Journal of Water Reuse and Desalination, 2015, 5, 579-591.                          | 1.2 | 16        |
| 41 | Reactive Black 5 as electron donor and/or electron acceptor in dual chamber of solar photocatalytic fuel cell. Chemosphere, 2018, 202, 467-475.  | 4.2 | 16        |
| 42 | The reaction of wastewater treatment and power generation of single chamber microbial fuel cell against substrate concentration and anode distributions. Journal of Environmental Health Science & Engineering, 2020, 18, 793-807. | 1.4 | 15        |
| 43 | Microbial fuel cell operation using nitrate as terminal electron acceptor for simultaneous organic and nutrient removal. International Journal of Environmental Science and Technology, 2017, 14, 2435-2442.                       | 1.8 | 14        |
| 44 | Haldane-Andrews substrate inhibition kinetics for pilot scale thermophilic anaerobic degradation of sugarcane vinasse. Bioresource Technology, 2021, 336, 125319.  | 4.8 | 14        |
| 45 | Photocatalytic mineralization of azo dye Acid Orange 7 under solar light irradiation. Desalination and Water Treatment, 2012, 48, 245-251.   | 1.0 | 13        |
| 46 | Sustainable green technology on wastewater treatment: The evaluation of enhanced single chambered up-flow membrane-less microbial fuel cell. Journal of Environmental Sciences, 2018, 66, 295-300.                                 | 3.2 | 13        |
| 47 | Comprehensive Review and Compilation of Treatment for Azo Dyes Using Microbial Fuel Cells. Water Environment Research, 2013, 85, 270-277.  | 1.3 | 12        |
| 48 | Performance of the hybrid growth sequencing batch reactor (HG-SBR) for biodegradation of phenol under various toxicity conditions. Journal of Environmental Sciences, 2019, 75, 64-72.   | 3.2 | 12        |
| 49 | Photocatalytic Degradation of Sugarcane Vinasse Using ZnO Photocatalyst: Operating Parameters, Kinetic Studies, Phytotoxicity Assessments, and Reusability. International Journal of Environmental Research, 2022, 16, 3.          | 1.1 | 12        |
| 50 | Decolorization of methyl orange using upflow anaerobic sludge blanket (UASB) reactor—An investigation of co-substrate and dye degradation kinetics. Desalination and Water Treatment, 2013, 51, 7621-7630.                         | 1.0 | 11        |
| 51 | Comparative Study of Photocatalytic Fuel Cell for Degradation of Methylene Blue under Sunlight and Ultra-Violet Light Irradiation. Water, Air, and Soil Pollution, 2016, 227, 1.   | 1.1 | 11        |
| 52 | Comparative study on the biodegradation of mixed remazol dyes wastewater between integrated anaerobic/aerobic and aerobic sequencing batch reactors. Rendiconti Lincei, 2017, 28, 497-501.   | 1.0 | 11        |
| 53 | Degradation of phenol through solar-photocatalytic treatment by zinc oxide in aqueous solution. Desalination and Water Treatment, 0, , 1-8.  | 1.0 | 10        |
| 54 | Degradation reaction of Diazo reactive black 5 dye with copper (II) sulfate catalyst in thermolysis treatment. Environmental Science and Pollution Research, 2018, 25, 7067-7075.  | 2.7 | 10        |

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| 55 | Evaluation on the molecular structure of azo dye in photocatalytic mineralization under solar light irradiation. <i>Desalination and Water Treatment</i> , 2015, 55, 2229-2236.  | 1.0 | 8         |
| 56 | Revealing the influences of functional groups in azo dyes on the degradation efficiency and power output in solar photocatalytic fuel cell. <i>Journal of Environmental Health Science &amp; Engineering</i> , 2020, 18, 769-777.                          | 1.4 | 8         |
| 57 | Bioelectricity Generation in Batch-Fed Up-Flow Membrane-Less Microbial Fuel Cell: Effect of Surface Morphology of Carbon Materials as Aqueous Biocathodes. <i>Water, Air, and Soil Pollution</i> , 2016, 227, 1.   | 1.1 | 7         |
| 58 | Solar photocatalytic degradation of azo dye Reactive Black 5 in aqueous suspension of TiO <sub>2</sub> . <i>Journal of Water Reuse and Desalination</i> , 2011, 1, 202-207.  | 1.2 | 6         |
| 59 | Mineralization of diazo dye (Reactive Black 5) in wastewater using recirculated up-flow constructed wetland reactor. <i>Desalination and Water Treatment</i> , 2012, 46, 312-320.  | 1.0 | 6         |
| 60 | Multiple aerobic and anaerobic baffled constructed wetlands for simultaneous nitrogen and organic compounds removal. <i>Desalination and Water Treatment</i> , 2016, 57, 29160-29167.  | 1.0 | 6         |
| 61 | Catalytic thermolysis in treating Cibacron Blue in aqueous solution: Kinetics and degradation pathway. <i>Chemosphere</i> , 2016, 146, 503-510.  | 4.2 | 6         |
| 62 | Decolourization and mineralization of Acid Red 27 metabolites by using multiple zoned aerobic and anaerobic constructed wetland reactor. , 0, 160, 81-93.  |     | 6         |
| 63 | Insights into modified sequencing batch reactor for the treatment of sugarcane vinasse: role of recirculation process. <i>International Journal of Environmental Science and Technology</i> , 0, , 1.  | 1.8 | 6         |
| 64 | Mineralization of Methyl Orange-containing wastewater by integrated anaerobic and aerobic processes using spent granular activated carbon biofilm under sequencing batch reactor operation. <i>Desalination and Water Treatment</i> , 2013, 51, 2813-2819. | 1.0 | 5         |
| 65 | Intermolecular mechanistic treatment of recalcitrant environmental pollutants: Azo, benzene, naphthalene and vinyl sulfone. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2017, 76, 27-34.  | 2.7 | 5         |
| 66 | Decolorization and mineralization of Amaranth dye using multiple zoned aerobic and anaerobic baffled constructed wetland. <i>International Journal of Phytoremediation</i> , 2017, 19, 725-731.  | 1.7 | 5         |
| 67 | Enhancement of mass and charge transport in scaled-up microbial fuel cell by using innovative configuration of bioanode. <i>International Journal of Environmental Science and Technology</i> , 2019, 16, 8175-8184.                                       | 1.8 | 4         |
| 68 | Theoretical development of biofilm in hybrid growth sequencing batch reactor (HG-SBR) for degradation of phenol. , 0, 107, 100-108.  |     | 4         |
| 69 | Effects of cationization hybridized biopolymer from <i>Bacillus subtilis</i> on flocculating properties. <i>Desalination and Water Treatment</i> , 2016, 57, 16086-16095.  | 1.0 | 3         |
| 70 | Pilot scale single chamber up-flow membrane-less microbial fuel cell for wastewater treatment and electricity generation. <i>AIP Conference Proceedings</i> , 2017, , .  | 0.3 | 3         |
| 71 | Kinetic model discrimination on the biogas production in thermophilic co-digestion of sugarcane vinasse and water hyacinth. <i>Environmental Science and Pollution Research</i> , 2022, 29, 61298-61306.   | 2.7 | 3         |
| 72 | Effect of operating temperature in the anaerobic degradation of palm oil mill effluent: Process performance, microbial community, and biokinetic evaluation. <i>Chemical Papers</i> , 2022, 76, 5399-5410.   | 1.0 | 2         |

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|----|---|-----|-----------|
| 73 | Comparison the performance of carbon plate and Pt-loaded carbon in photocatalytic fuel cell (PFC) process. AIP Conference Proceedings, 2017, , .  | 0.3 | 1         |
| 74 | Simultaneous heavy metal reduction and voltage generation with synergy membrane-less microbial fuel cell. IOP Conference Series: Earth and Environmental Science, 2020, 463, 012067.  | 0.2 | 1         |
| 75 | Intermolecular degradation of aromatic compound and its derivatives via combined sequential and hybridized process. Bioprocess and Biosystems Engineering, 2023, 46, 359-371.   | 1.7 | 1         |
| 76 | Integrated photocatalytic and sequencing batch reactor (SBR) treatment system for degradation of phenol. AIP Conference Proceedings, 2017, , .  | 0.3 | 0         |
| 77 | Treatment of Textile Industry Wastewater Using Combined Process of Thermolysis and Coagulation-Flocculation: A Comparison between the Use of Magnesium Chloride Coagulant and Magnesium Chloride-Organic Hybrid Polymer as Coagulant. , 2015, , . |     | 0         |
| 78 | Effect of Tosyl Group on Dye Degradation Rate by Using Laterite Soil as Natural Coagulant-Flocculant. , 2015, , .   |     | 0         |