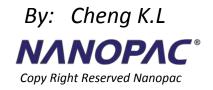
Nano ElectroChemical Waste Water Treatment



(Self Contained and Self Sustainable Toilet)







CLEAN AT SOURCE, SAVE MILLIONS



ΝΛΝΟΡΛΟ

We specialized in nanotechnology and environment engineering











Granted

Pending

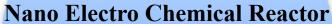








- Cheap, easy, fast & save millions dollars
- Easy & cheaper to operate
- Modular and scalable
- No chemical to induce & environmental friendly



USD 600 billion

market

Source: Lux Research



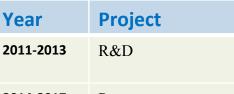














Commercialization

2018 - 2022 Ful1

Commercialization





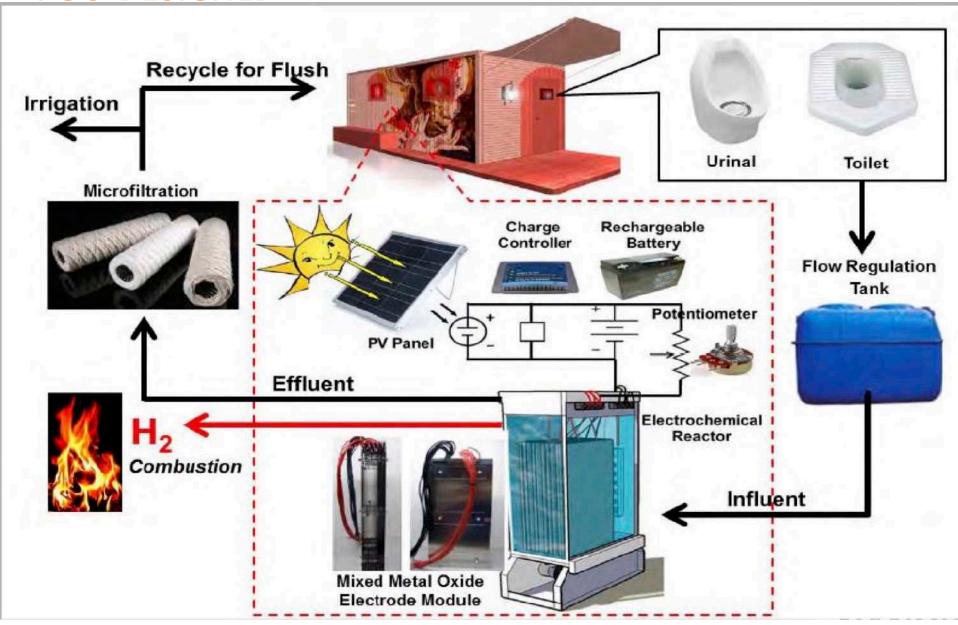








POC DESIGNED

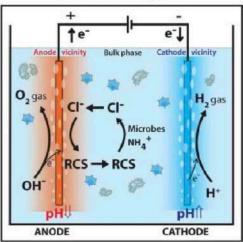




POC DESIGNED



Wastewater Electrolysis Cell



Direct Oxidation/Reduction

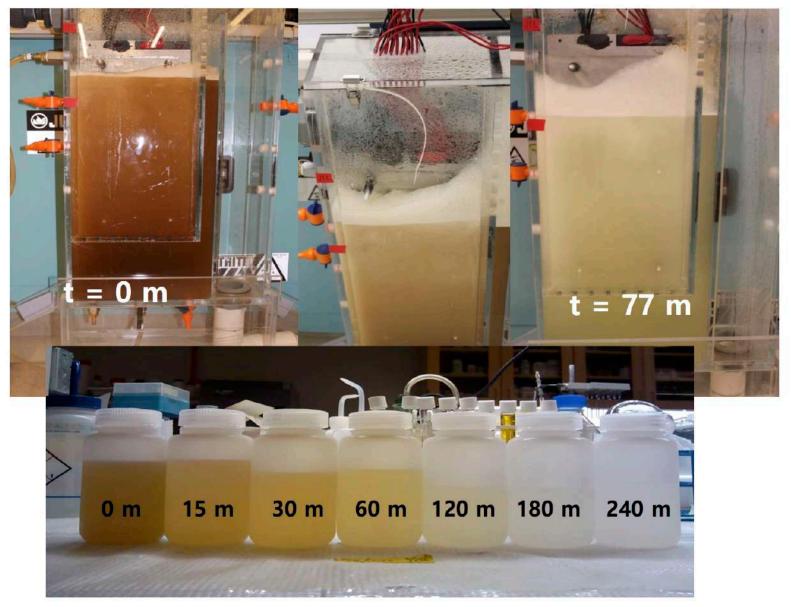
- MO_x(·OH) { h⁺ }
- Stainless Steel Cathodes { e⁻ }

Indirect Oxidation

- Reactive Chlorine Species
- Chlorine (Cl₂, HOCl, ClO⁻)
 Chlorine Radicals (Cl·, Cl₂⁻·)



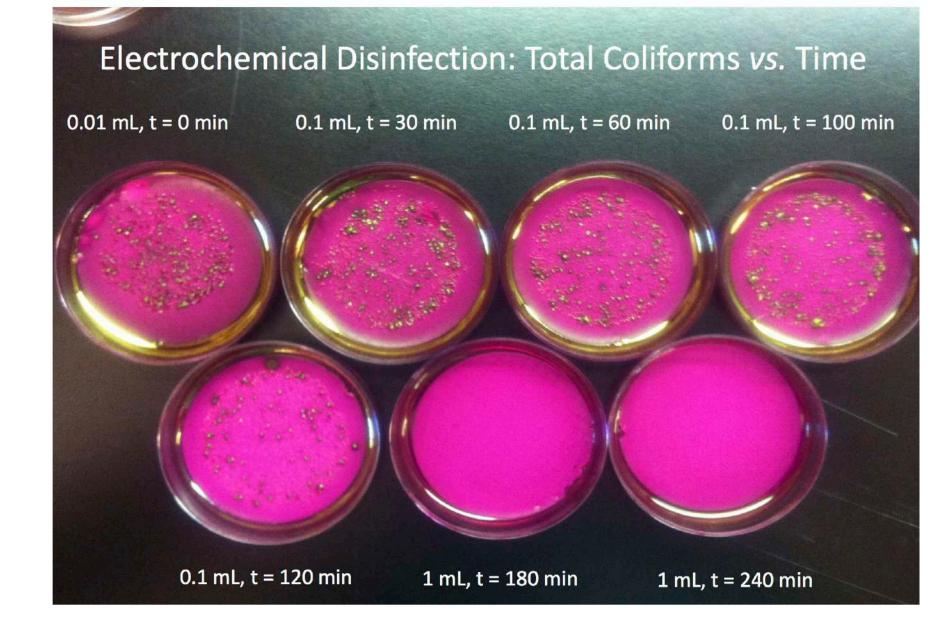
Electrochemical Toilet-waste Treatment





Color Changes & Total Coliform Disinfection vs. Time 15 m 30 m 60 m 120 m 180 m 0 m 240 m 0 min 30 min 100 min 180 min







2013 - 2015

Pilot Scale Experiments (Caltech)





2014-2015

Demonstration Toilet-1









Caltech campus demonstration toilet (USA)
WeCO demonstration toilet (Paris)



Ahmedabad Municipal Park/ Mahatama Gandhi University (India)



Nanopac(M) Green toilet (Malaysia)









Kohler system for houses (USA)

2013 - 2015



Application fields

Environment



Livestock wastewater



Household wastewater



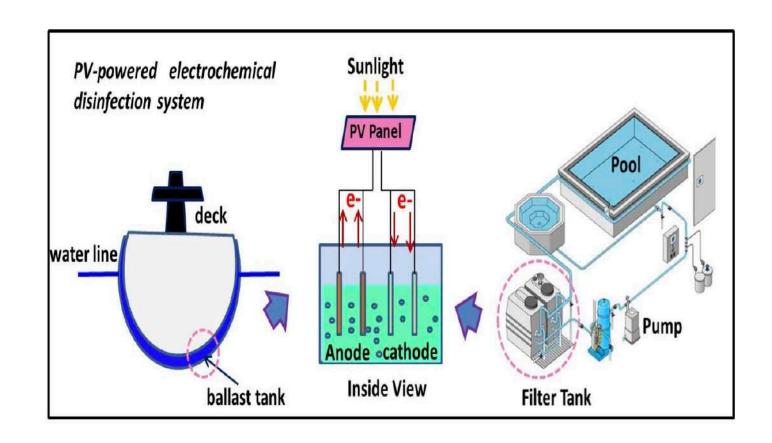
Agriculture and Industry wastewater



Rain treatent



Application Areas





Applications



Anti-microorganism of Toilet Bowl water



Swimming pool water clean



Anti-Bac humidifier



Water clean for fish tank/fish farm



Anti- microorganism water production system



Electrode kit for Customer: Hygienic washing Dish, fruit and vegetables











Kill microorganism in fish tank and remove green algae; Customer kit





Electrode kit for fish tank





Thank you

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