Total Organic Carbon (TOC) Sensor

- UV Catalyzed Organic Carbon Oxidation Causes pH shift.
- Totally Inert Materials:
  - PECVD Silicon Carbide Gasketed Channels
  - Iridium Microelectrodes
- Fabrication Challenges Overcome
  - Lithography over DRIE Channels
  - Patterning of High Stress Ir
- Applications
  - Organic Contamination in DI Recycle Water Loop
  - Pre-screening for Life Detection

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