Photonic Integration for BioPhotonics

Medical Instrumentation
- Confocal and multiphoton imaging
- Fluorescence for DNA Sequencers
- Optical coherence tomography
- Respiratory gas monitors
- Raman Spectroscopy
- Glucose monitors
- Flow Cytometry

Photonic Lab-on-a-Chip
- Rapid and automated analysis of small sample volumes
- In-vitro and in-vivo monitoring
- Implantable biofluorointegration
- Digital electrowetting
- Drug discovery

Analytics and Diagnostics
- Immunoassays
- Raman Scattering
- Veterinary diagnosis
- Refractive index change
- Proteomics and genomics
- Evanescent wave detection
- Surface plasmon resonance

Optical Biosensors
- PH changes
- Fluorescence
- Phosphorescence
- Colorimetric probes
- Chemiluminescence
- Metabolites monitoring
- Photonic sensor networks
- Photosynthesis measurements
- Monitoring of environmental toxins
- Global carbon and hydrological cycles
- Greenhouse and trace gases monitoring

APPLICATION EXAMPLE

TECHNOLOGY REVIEW ON

PH changes
Fluorescence
Phosphorescence
Colorimetric probes
Chemiluminescence
Metabolites monitoring
Photonic sensor networks
Photosynthesis measurements
Monitoring of environmental toxins
Global carbon and hydrological cycles
Greenhouse and trace gases monitoring

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