Projects at the EPFL Center of MicroNanoTechnology

EPFL-STI-IBI
EPFL - School of Engineering - Interfaculty Institute of Bioengineering

EPFL-STI-IBI-BIOS
EPFL - BIOPHOTONIC SYSTEMS LABORATORY
PROF. H. ALTUG

01 NANO PARTICLE ENHANCED PLASMONIC BIOSENSOR FOR DIGITAL BIOMARKER DETECTION IN A MICROARRAY
02 HIGH-Q DIELECTRIC METASURFACE FOR OPTICAL BIOSENSING APPLICATIONS
03 PLASMON-ENHANCED INFRARED SPECTROSCOPY FOR HIGHLY SENSITIVE MOLECULAR STUDIES IN COMPLEX BIOSYSTEMS
04 IMAGING BASED MOLECULAR BARCODING WITH DIELECTRIC PIXELATED METASURFACES
05 3D OPTOFLUIDIC DEVICE FOR LABEL-FREE HIGH-THROUGHPUT SINGLE-CELL ANALYSIS

EPFL-STI-IBI-CLSE
EPFL - LABORATORY OF LIFE SCIENCES ELECTRONICS
PROF. C. GUIDUCCI

06 ARRAYS OF 3D ELECTRODES FOR PARALLELED SINGLE-CELL ANALYSIS BY ELECTROROTATION
07 SINGLE-CELL SELECTIVE RETRIEVAL FROM MICROFLUIDIC ARRAYS
08 3D ELECTRODES FOR THROUGH PDMS CONTACTS

EPFL-STI-IBI-LBEN
EPFL - LABORATORY OF NANOSCALE BIOTECHNOLOGY
PROF. A. RADENOVIC

09 ELECTRONIC READ-OUT OF THE 2D NANOPORE IONIC CURRENT
10 NANOPORE SENSING USING GLASS CAPILLARIES
11 WAVEGUIDE-BASED LARGE-FOV SUPER-RESOLUTION IMAGING OF OPTICALLY-ACTIVE DEFECTS IN 2D MATERIALS
12 NANOPORE-BASED POWER GENERATION
13 MULTIMODAL SCANNING ION CONDUCTANCE MICROSCOPY USING GLASS NANO CAPILLARIES

EPFL-STI-IBI-LBNC
EPFL - LABORATORY OF BIOLOGICAL NETWORK CHARACTERIZATION
PROF. S. MAERKLI

14 MICROFLUIDICS DEVICE FOR SINGLE T CELL ISOLATION AND RECOVERY
15 HIGH-THROUGHPUT MICROFLUIDIC PLATFORM FOR SYNTHETIC BIOLOGY
16 ENGINEERING DEVICES FOR MICROFLUIDIC STEM CELL CULTURE
17 MICROFLUIDIC PLATFORMS FOR S. CEREVISIAE SINGLE CELL ANALYSIS

EPFL-STI-IBI-LBNI
EPFL - LABORATORY FOR BIO AND NANO INSTRUMENTATION
PROF. G. FANTNER

18 IN-CELL ATOMIC FORCE MICROSCOPY
19 DEVELOPMENT OF OPTIMIZED CANTILEVERS FOR HIGH-SPEED PHOTOTHERMAL-ORT AFM
20 MULTILAYER MEMS DEVICES
21 POLYRETINA: A WIDE-FIELD AND PHOTOVOLTAIC EPIRETINAL PROSTHESIS
22 LOCAL RETURN ELECTRODES FOR OPTIC NERVE IMPLANTS
23 POLYMER-BASED RECORDING DEVICES FOR NEURAL APPLICATIONS

24 MANIPULATION OF INTERLAYER EXCITONS IN VDW HETEROSTRUCTURES
25 CHARGE CARRIER TRANSPORT IN GRAPHENE ON WS₂
26 FERROMAGNETIC CONTACTS FOR SPIN INJECTION INTO WSe₂
27 EXCITONICS IN VAN DER WAALS STRUCTURES
28 DEFECT PROBING OF MOCVD MOS₂ BY CAPACITANCE-VOLTAGE MEASUREMENTS

29 STUDY OF HAFNIUM-BASED RERAM (STAND ALONE AND 1S1R ARCHITECTURE)
30 OFF-CHIP INDUCTOR FABRICATION USING SILICON MICROMACHINING TECHNIQUES

31 LAB-ON-SKITM
32 STUDY ON VANADIUM DIOXIDE METAL INSULATOR TRANSITION
33 HfO₂ DOPED FERROELECTRIC CAPACITORS
34 PHASE CHANGE VANADIUM OXIDE (VO₂) MATERIALS FOR RF APPLICATIONS
35 2D DOUBLE GATE FIELD EFFECT TRANSISTOR
36 INAS-ON-INSULATOR FOR ELECTRONIC AND SENSING APPLICATIONS
37 3D EXTENDED-METAL-GATE ION SENSITIVE FIELD EFFECT TRANSISTOR

38 FULLY-VERTICAL GAN-ON-SI POWER MOSFETS
39 MULTICHANNEL IN-PLANE GATE FIELD EFFECT TRANSISTORS
40 NEW DIELECTRIC MATERIALS FOR GATE AND PASSIVATION OF GAN DEVICES
41 VERTICAL GAN-ON-SI MOSFET WITH MONOLITHICALLY INTEGRATED FREEWHEELING SCHOTTKY BARRIER DIODE
42 MULTI-CHANNEL TRI-GATE GAN POWER DEVICES
43 E-MODE NANOSTRUCTURED ALGaN/GaN HEMT
44 ON-CHIP HIGH-VOLTAGE SENSORS BASED ON TRAP-ASSISTED 2DEG CHANNEL CONTROL
45 III-NITRIDE-BASED NW-FERS FOR ZERO-BIAS RF POWER DETECTION
46 NEAR-JUNCTION COOLING OF POWER SEMICONDUCTOR ELECTRONIC DEVICES
47 NEAR-JUNCTION LIQUID COOLING OF GALLIUM NITRIDE ELECTRONICS
48 NOMALLY-OFF TRI-GATE GAN POWER MOSFETS
<table>
<thead>
<tr>
<th>Project Code</th>
<th>Department</th>
<th>Research Area</th>
<th>Principal Investigator</th>
</tr>
</thead>
<tbody>
<tr>
<td>EPFL-STI-IEL-SCI</td>
<td>EPFL - IEL SCIENTISTS GROUP</td>
<td>MER. J.-M. SALLESE</td>
<td>P-N JUNCTIONS FOR SEMI-COMPACT MODEL VALIDATION</td>
</tr>
<tr>
<td>EPFL-STI-IGM</td>
<td>EPFL - School of Engineering - Institute of Mechanical Engineering</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EPFL-STI-IGM-FLEXLAB</td>
<td>EPFL - LABORATORY OF FLEXIBLE STRUCTURES</td>
<td>PROF. P. M. REIS</td>
<td>MOLDS FOR FLEXIBLE POROUS STRIPS</td>
</tr>
<tr>
<td>EPFL-STI-IGM-LFMI</td>
<td>EPFL - LABORATORY OF FLUID MECHANICS AND INSTABILITIES</td>
<td>PROF. F. GALLAIRE</td>
<td>HYDRO-ELASTO-CAPILLARY INTERACTIONS FOR PROGRAMMABLE MICROFLUIDICS</td>
</tr>
<tr>
<td>EPFL-STI-IGM-LRESE</td>
<td>EPFL - LABORATORY OF RENEWABLE ENERGY SCIENCE AND ENGINEERING</td>
<td>PROF. S. HAUSSENER</td>
<td>MICRO-STRUCTURED THIN FILM PHOTOANODES FOR WATER SPLITTING</td>
</tr>
<tr>
<td>EPFL-STI-IGM-MICROBS</td>
<td>EPFL - LABORATORY OF MICROBIOROBOTIC SYSTEMS</td>
<td>PROF. S. SAKAR</td>
<td>CELL NUCLEUS MECHANICS UNDER CYTOSKELETAL COMPRESSION</td>
</tr>
<tr>
<td>EPFL-STI-IGM-NEMS</td>
<td>EPFL - ADVANCED NANO-ELECTROMECHANICAL SYSTEMS LABORATORY</td>
<td>PROF. G. VILLANUEVA</td>
<td>LARGE GRAPHENE MEMBRANE</td>
</tr>
<tr>
<td>EPFL-STI-IMT</td>
<td>EPFL - School of Engineering - Institute of Microengineering</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EPFL-STI-IMT-AQUA</td>
<td>EPFL – ADVANCED QUANTUM ARCHITECTURE LAB</td>
<td>PROF. E. CHARBON</td>
<td>FABRICATION AND CHARACTERIZATION OF INGAAS/INP PHOTODIODES</td>
</tr>
</tbody>
</table>
EPFL-STI-IMT-GR-QUA
EPFL - QUACK GROUP
PROF. N. QUACK

65 MICRO- AND NANOSTRUCTURING OF SINGLE CRYSTALLINE DIAMOND
66 FABRICATION OF ULTRA-SMOOTH DIAMOND MEMBRANE
67 DIAMOND DIFFRACTION GRATINGS FABRICATED BY CRYSTALLOGRAPHIC ETCHING
68 MASK-FREE NANOPATTERNING OF SINGLE CRYSTAL DIAMOND FOR CONTROLLED DEWETTING OF NANOPIERCLES
69 INNOVATIVE DIAMOND MICRO-OPTICS ENABLED BY 3D MICRO PRINTING
70 BISTABLE SILICON PHOTONIC MEMS SWITCHES
71 SILICON PHOTONIC MEMS
72 PRECISION MICRO-MECHANICAL COMPONENTS IN SINGLE CRYSTAL DIAMOND BY DEEP REACTIVE ION ETCHING
73 DIAMOND DIFFRACTIVE BEAM SHAPERS

EPFL-STI-IMT-LAI
EPFL - INTEGRATED ACTUATORS LABORATORY LAI
PROF. Y. PERRIARD

74 LARGE FLEXIBLE ELECTRODES FOR TUBULAR DEA

EPFL-STI-IMT-LAPD
EPFL - LABORATORY OF APPLIED PHOTONICS DEVICES
PROF. CH. MOSER

75 DEPTH-CONTROLLED LASER-INDUCED JET INJECTION FOR DIRECT THREE-DIMENSIONAL LIQUID DELIVERY
76 TWO-PHOTON POLYMERIZATION FOR MICROFABRICATION

EPFL-STI-IMT-LMIS1
EPFL - LABORATORY OF MICROSYSYEMS
PROF. J. BRUGGER

77 FABRICATION OF MULTILAYER MICROMOLDS FOR POLYMER-DERIVED CERAMIC CASTING
78 FABRICATION OF A MEMS GLASSY CARBON STRAIN SENSOR
79 3D PRINTED MICRO-SCAFFOLD FOR DRUG DELIVERY INTO COCHLEA
80 INKJET PRINTING POLYMER COMPOSITES FOR VOC SENSING APPLICATION
81 EDGE-CONTACTED GRAPHENE WITH SLOPE ENGINEERING BY STENCIL LITHOGRAPHY
82 BIODEGRADABLE FREQUENCY-SELECTIVE MAGNESIUM MICRORESONATORS AS POWER RECEIVERS AND MICROHEATERS FOR TRANSIENT BIOMEDICAL IMPLANTS
83 TRANSFER PRINTING OF SILICON NANOEMBRANE
84 FABRICATING HOLLOW MICROVESSELS AND ANALYSIS OF INKJETTED DROPLETS
85 MOIRE-BASED OPTICALLY-VARIABLE DEVICES
86 FABRICATION AND CHARACTERIZATION OF BIODEGRADABLE, THERMAL-RESPONSIVE SILK COMPOSITE MEMBRANE
87 FUNCTIONAL DEVICE TRANSFER USING LASER-INDUCED FORWARD TRANSFER (LIFT) TECHNIQUE
88 TUNABLE TUNNELING NANOGAP ELECTRODES ON PDMS SUBSTRATES
89 EXPLORING SILK FIBROIN AS A WATER-DEVELOPABLE T-SPL RESIST
EPFL-STI-IMT-LMIS2
EPFL - LABORATORY OF MICROSYSTEMS
PROF. M. GIJS

90 THREE-DIMENSIONAL SHORT-TERM AND REVERSIBLE CONFINEMENT OF C. ELEGANS FOR FULL LIFE IMAGING
91 MICROFLUIDIC REACTOR FOR NANOMATERIALS SYNTHESIS
92 CALORIMETRY IN MICROFLUIDIC CHIPS
93 STUDY OF BACTERIAL MOTILITY USING MICROFLUIDIC CHIPS MADE OF OPTICAL ADHESIVE MEMBRANES
94 INTEGRATION OF HIGHLY-REFRACTIVE SPHERES IN MICROSTRUCTURED PDMS MEMBRANES
95 AN IN VIVO MICROFLUIDIC METHOD FOR STUDY OF BACTERIAL DIGESTION INSIDE C. ELEGANS ROUNDWORMS

EPFL-STI-IMT-LMIS4
EPFL - LABORATORY OF MICROSYSTEMS
PROF. PH. RENAUD

96 MICROFLUIDIC CHIP FOR CREATION OF CELL AGGREGATES BY DIELECTROPHORESIS AND CELL COUNTING AND SIZING BY IMPEDANCE SPECTROSCOPY
97 MASTER PROJECT ON REVERSIBLE CELL BLOCKING OF CAPILLARY FOR APPLICATION ON DETERMINISTIC CELL ENCAPSULATION ON DROPLET MICROFLUIDICS DEVICE
98 ION BEAM ETCHING REDEPOSITION FOR 3D MULTIMATERIAL NANOSTRUCTURE MANUFACTURING
99 DESIGN OF A MICROFLUIDIC DEVICE FOR T CELL ACTIVATION DETECTION FOR IMMUNOTHERAPY APPLICATIONS
100 MICROFLUIDIC CHIPS FOR IMPLANTABLE PUMPS
101 FABRICATION OF VERTICAL CELL TRAPS IN TRANSPARENT SUBSTRATE
102 3D NANOPATTERNING FOR INTRACELLULAR ELECTROCHEMISTRY
103 MICROFLUIDIC CELL CONCENTRATOR
104 A MULTIMODAL NEURAL INTERFACE ENABLING ON-DEMAND DROPLET MICROSAMPLING TO PROBE THE BIOCHEMISTRY OF THE BRAIN
105 ACCURATE AND HIGH THROUGHPUT SINGLE CELL PAIRING USING DROPLET MICROFLUIDICS FOR IMMUNOTHERAPY APPLICATION

EPFL-STI-IMT-LMTS
EPFL – SOFT TRANSDUCERS LABORATORY
PROF. H. SHEA

106 METAL-OXIDE TFT PROCESSED AT LOW TEMPERATURE ON FLEXIBLE SUBSTRATES

EPFL-STI-IMT-LO
EPFL - LABORATORY OF OPTICS
PROF. D. PSALTIS

107 3D-PRINTED PHASE MASK STACK
108 LEARNING FLOW RATE USING MICROFLUIDICS
109 PDMS OPTICAL WAVEGUIDES RECORDING THROUGH MULTI-PHOTON POLYMERIZATION
110 MICROCAVITY WITH NANOSCRIBE

EPFL-STI-IMT-LSBI
EPFL - LABORATORY FOR SOFT BIOELECTRONIC INTERFACES
PROF. S. LACOUR

111 LIQUID METAL THIN FILMS FOR WEARABLE ELECTRONICS
112 NERVE-ON-A-CHIP FOR HIGH RESOLUTION RECORDING
113 SOFT OPTOELECTRONIC IMPLANTS FOR NEURAL STIMULATION OF THE PERIPHERAL NERVES
114 SILICONE-ON-SILICON WAFER-SCALE PROCESS FOR SOFT BIOELECTRONICS
115 Metasurface sail for controlling optical forces
116 Visualization of optical trapping using fluorescence resonance energy transfer (FRET)
117 Optical trapping of nanoparticles with plasmonic antennas
118 Plasmonic nanostructures with noble metal alloys nanostructures and metasurfaces with Au-Ag alloys
119 Fabrication of plasmonic structures for efficient nanoscale trapping
120 Extraction of plasmonic hot electrons
121 Surface plasmon enhanced upconversion fluorescence

122 Template assisted fabrication of chalcogenide metasurface: applications in electro-optics modulation and biosensing
123 Chalcogenide-based metasurfaces via templated fluid instabilities
124 Chalcogenide based polymer fibres

125 MEMS-chip for electrochemical experiments in TEM
126 Design and fabrication of MEMS-based chips for liquid cell TEM
127 Glassy carbon microelectrodes for in-situ TEM

128 Periodic and aperiodic spin-wave nanograting coupler
129 Insulating chiral magnet structured by FIB and photolithography
130 Ferromagnetic 3D nanostructures
131 Fabrication and characterization of FeGe nano- and micro-structures on graphene
132 Fabrication of flip-chip Cu2OSeO3 lamella for spin wave spectroscopy
133 Characterization of ferrimagnetic nanoparticles decorated yttrium iron garnet thin film
134 Two-dimensional artificial ferromagnetic quasicrystals

135 Heat transfer at the interface between a metal and a non-metal

136 Patterning of self-assembled monolayers for guided wetting and tribology control
137 II-V EARTH ABONDANT THIN FILMS
138 III-V NANOWIRE HETEROSTRUCTURES ON SILICON
139 CHARACTERIZATION OF FEGE NANO- AND MICRO-STRUCTURES GROWN BY VAN DER WAALS EPITAXY
140 GROWTH OF ZINC PHOSPHIDE NANOWIRES FOR PHOTOVOLTAIC APPLICATIONS
141 SELECTIVE-AREA-GROWN INAS NANOWIRES FOR QUANTUM COMPUTING
142 CHARACTERIZATION OF A LAYER TRANSFERRED GERMANIUM GROWN BY VAN DER WAALS INTERACTION ON GRAPHENE
143 DROPLET STABILITY ON NANOWIRES (NWS) TIP
144 FABRICATION OF GERMANIUM-TIN THIN FILMS
145 III-V PATTERNED GROWTH ON SILICON (100) NANOPILLARS
146 STUDIES OF NANOWIRES BASED SOLAR CELLS
147 GALLIUM ARSENIDE NANOLEDGES GROWN ON (100) SILICON
148 GROWTH OF ZN3P2 FLAKES ON GRAPHENE VIA VAN DER WAALS EPITAXY
149 PHASE TRANSFORMATION IN THIN FILMS UPON ANNEALING
150 ZINC PHOSPHIDE ETCHING AND SURFACE CHARACTERIZATION
151 OPTIMISATION OF THE NANOscale PILLAR FORMATION PROCESS FOR IMPROVED NANOWIRES AND NANOTREES GROWTH
152 ZINC PHOSPHIDE FOR THIN FILM PHOTOVOLTAICS

153 BI METASTABLE QUANTUM SWITCH

154 PIEZOELECTRIC MEMBRANE RESONATORS

155 STRUCTURED HYDROGELS
156 SURFACE ACOUSTIC WAVE (SAW)-ASSISTED SYNTHESIS OF ADDITIVE-FUNCTIONALIZED INORGANIC NANOPARTICLES
157 PRODUCTION OF CAPSULE PARTICLES FOR BIOACTIVES
158 DROPLET-BASED MICROFLUIDICS FOR MONODISPERSED DOUBLE EMULSIONS
159 SURFACE ACOUSTIC WAVE ATOMIZER

160 ULTRAFLAT GOLD THIN FILM WITH MARKERS FOR PLASMONIC NANOCAVITIES
161 ALUMINUM UV GRATING COUPLER FOR III-NITRIDE POLARITON WAVEGUIDES

162 WAVEGUIDE-PAINT OPEN PLATFORM FOR FLUORESCENCE MICROSCOPY

163 LAYERED COMPOUND BASED LIQUID GATED FIELD EFFECT TRANSISTOR

164 SU-8 CANTILEVERS FOR NANOMECHANICAL MOTION DETECTION

165 FUNCTIONALIZATION OF PROBES FOR SCANNING NEAR-FIELD OPTICAL MICROSCOPE

166 ADVANCED PHOTONIC NANOSTRUCTURES
EPFL-SB-ISIC
EPFL - School of Basic Sciences - Institute of Chemical Sciences and Engineering

EPFL-SB-ISIC-LAS
EPFL - GAZNAT CHAIR FOR ADVANCED SEPARATIONS
PROF. K.V. AGRAWAL
175 COPPER ENGINEERING FOR GRAPHENE SYNTHESIS

EPFL-SB-ISIC-LND
EPFL - LABORATORY OF MOLECULAR NANODYNAMICS
PROF. U. LORENZ
176 DEWETTING DYNAMICS OF GOLD NANOPRISMS

EPFL-SB-ISIC-LPDC
EPFL - LABORATORY OF SUSTAINABLE AND CATALYTIC PROCESSING
PROF. J. LUTERBACHER
177 ATOMIC LAYER DEPOSITION ON DISPERSED MATERIALS

EPFL-SB-ISIC-LSPM
EPFL - LABORATORY OF PHOTOMOLECULAR SCIENCE
PROF. A. HAGFELDT
178 CU-BASE PHOTOCATHODE FOR PHOTOELECTROCHEMICAL WATER SPLITTING

EPFL-SV-BMI
EPFL - School of Life Sciences – Brain Mind Institute

EPFL-SV-BMI-UPRAMDYA
EPFL – PROF. RAMDYA GROUP
PROF. P. RAMDYA
179 UV EXCIMER LASER OPENING OF FLIES CUTICLE

EPFL-SV-GHI
EPFL - School of Life Sciences - Global Health Institute

EPFL-SV-GHI-UPKIN
EPFL - LABORATORY OF MICROBIOLOGY AND MICROSYSTEMS
PROF. J. D. MCKINNEY
180 SINGLE-CELL DYNAMICS OF HOST-PATHOGEN INTERATIONS
181 PHOTOLITHOGRAPHY FOR MICROFLUIDICS MOLDS

EPFL-SV-IBI
EPFL - School of Life Sciences - Interschool Institute of Bioengineering

EPFL-SV-IBI-UPDEPLA
EPFL - LABORATORY OF SYSTEMS BIOLOGY AND GENETICS
PROF. B. DEPLANCKE
182 USING HIGH THROUGHPUT DROPLET MICROFLUIDICS FOR SINGLE CELL TRAPPING
EPFL-SV-IBI-UPLUT
EPFL - STEM CELL BIOENGINEERING LABORATORY
PROF. M.P. LUTOLF

183 LASER MICROMACHINED HYDROGELS
184 MICROSTRUCTURED SILICON MOLDS FOR SINGLE LIVE CELL IMAGING
185 STEM CELL NICHE-ON-A-CHIP

EPFL-SV-ISREC
EPFL - School of Life Sciences - Swiss Institute for Experimental Cancer Research

EPFL-SV-ISREC-UPHUELSKEN
EPFL - PROF. HUELSKEN GROUP
PROF. J. HUELSKEN

186 DROP-SEQ CHIP PRODUCTION

EPFL-IC-IINFCOM
EPFL - School of Computer and Communication Sciences - Institute of Computer and Communication Sciences

EPFL-IC-IINFCOM-LSI1
EPFL - LABORATORY OF INTEGRATED SYSTEMS
PROF. G. DE MICHELI

187 PLATINUM ELECTRODES FOR CHLORINE DETERMINATION IN DRINKING WATER [1]
188 WEARABLE FLEXIBLE PLATFORM FOR SWEAT SENSING

EXTERNAL LABORATORIES

ETH ZURICH
ADVANCED POWER SEMICONDUCTOR LABORATORY
PROF. U. GROSSNER

189 SILICON CARBIDE MOSFET GATE OXIDATION METHOD

HEPIA GENEVA
PROF. L. STOPPINI

190 POROUS AND FLEXIBLE POLYIMIDE MICROELECTRODE ARRAYS

UNIVERSITY OF FRIBOURG
SOFT MATTER PHYSICS
PROF. U. STEINER

191 MULTI-LAYER METASURFACES VIA A THIN FILM SELF-ROLLING TECHNIQUE
UNIVERSITY OF FRIBOURG
BIOPHYSICS GROUP
PROF. M. MAYER
192 PLASMONIC OPTICAL TWEEZER FOR PROTEIN SENSING

UNIVERSITY OF GENEVA
PROF. H. ZBINDEN
193 SUPERCONDUCTING NANOWIRE SINGLE-PHOTON DETECTORS
194 SUPERCONDUCTING NANOWIRE SINGLE-PHOTON DETECTORS
195 SUPERCONDUCTING NANOWIRE SINGLE-PHOTON DETECTORS

KOC UNIVERSITY, ISTANBUL
PROF. M.C. ONBASLI
196 MAGNETIC IRON GARNET THIN FILMS FOR MOSLM APPLICATIONS

CERN, GENEVA
197 SILICON MICROCHANNEL COOLING FRAMES FOR HIGH ENERGY PHYSICS EXPERIMENTS AT CERN
198 PROTON BEAM PROFILE MONITORS FOR THE CERN IRRADIATION FACILITY
199 EMBEDDING MICROFLUIDICS INTO MICROELECTRONICS
200 METALLIZATION OF AVALANCHE PHOTODIODES FOR PARTICLE TIMING
201 TRANSITION EDGE SENSORS (TES) FOR SECOND SOUND DETECTION AND QUENCH LOCALIZATION ON SUPERCONDUCTING RADIOFREQUENCY (SRF) CAVITIES
202 RADIATION MONITORING TECHNOLOGIES FOR THE FUTURE CIRCULAR COLLIDER AT CERN
203 MICROFABRICATION AT CERN

CSEM SA, BASEL
204 REALISATION 3D STRUCTURES IN FUSED SILICA

CSEM SA, MUTTENZ
205 SMARTPHONE-BASED AUTHENTICATION WITH RESONANT WAVEGUIDE GRATINGS

EMPA, DUBENDORF
206 SI-NEMS: DISTRIBUTION MAPS OF LATTICE STRAIN AND TILT OF A SUSPENDED MONOLITHIC SILICON NANOWIRE BY HRXRD
207 IN-SITU MECHANICAL TESTING OF MICROFABRICATION MICRO/NANOPILLARS
208 HIGH STRAIN RATE IN SITU TESTING OF SILICON MICROPILLARS
209 MICROTENSILE TESTING OF BRITTLE MATERIALS USING CUSTOM FABRICATED SELF-ALIGNING SILICON GRIPPERS

METAS, BERN
210 IMPEDANCE STANDARDS FOR SCANNING MICROWAVE MICROSCOPE
COMPANIES

ALEVA NEUROTHERAPEUTICS SA, LAUSANNE
211 NEUROSTIMULATION AND RECORDING ELECTRODES

BRUKER BIOSPIN GROUP, FALLANDEN
212 MICROMACHINING TECHNOLOGIES FOR NUCLEAR MAGNETIC RESONANCE BASED TECHNIQUES AND DEVICES

H. GLASS SA, VILLAZ-ST-PIERRE
213 GRID ELECTRODES

LAKEDIAMOND SA, LAUSANNE
214 TOWARDS DEEP DIAMOND ETCHING WITH SMOOTH AND VERTICAL SIDEWALLS

LIGENTEC SA, LAUSANNE
215 LOW-LOSS INTEGRATED PHOTONICS

LSPR AG, ZURICH
216 BIOLOGICAL INTERACTIONS AT THE MOLECULAR SCALE ON MICROPLATE READERS. LABEL FREE

MACKINAC MICROOPTICS SA, NEUCHATEL
217 MICRO-OPTICAL ELEMENTS

MORPHOTONIX SARL, LAUSANNE
218 SWISS HOLOGRAPHIC CHOCOLATE

PRECIFLEX SA, NEUCHATEL
219 DROPLET ACTUATION USING ELECTROWETTING DEVICES

SPRYNGS SAS, GRENOBLE, FRANCE
220 ZERO POWER, LOW RESOLUTION CMOS INERTIAL SENSORS