



Select physical-science technologies available for licensing. For more information please contact Paul-Valentin Pitou (pmp43@pitt.edu). LAST UPDATED: 10/12/2021

Ref#	Project Name	Description	Sector	Therapeutic Area	Tag	Lead PI Last Name	Lead PI First Name	PI Department	Stage of Development	IP Status	Commercialization Focus
Recently Added	4912	Voxelated Molecular Patterning in 3-Dimensional Freeforms	Physical Science - Additive Manufacturing			Shankar	Ravi	Engineering/Industrial Engineering	Concept	Provisional patent filed	License
Recently Added	4835	Pressure Sensor with Corrugated Sidewall	Physical Science - Sensors			Cho	Sung Kwon	Mechanical Engineering & Materials Sc	In vitro data	Patent application filed	License
Recently Added	4747	Novel Composite for Atmospheric Condensable Gas Recovery	Physical Science - Materials science			McCarthy	Joseph	Chem/Petroleum Engineering	Prototype	PCT patent application in prosecution	License
Recently Added	4723	Functional Poly(Hydroxylsulfone)-Based Microbial Nanoculture Systems	Physical Science - Materials science	Gastroenterology		Nepa	Tagbo	Chem/Petroleum Engineering	In vitro data	Patent application filed	License
Recently Added	4488	MiniSTORM: Super Resolution Microscopy at Minimized Cost and Maximized Performance	Physical Science - Hardware	Other	Microscopy	Ma	Honggiang	Med-Medicine	Prototype	National, PCT patent application filed	NewCo
Recently Added	4391	Method for Modeling Solid-Liquid Filtration Process and Estimating Permeability of Porous Material	Physical Science - Materials science			McCarthy	Joseph	Chem/Petroleum Engineering	Prototype		License
Recently Added	4277	Additive Manufacturing of Liquid Crystal Elastomers	Physical Science - Additive Manufacturing			Shankar	Ravi	Engineering/Industrial Engineering		US-2019-007701-A1 (non-provisional); provisional patent filed	License
Recently Added	4204	Flexible Perovskite Solar Cells	Physical Science - Energy		Photovoltaics/Electronics	Lee	Jung-Kun	Mechanical Engineering & Materials Sc	Prototype	WO/2019/023052	License
Recently Added	4192	Sensors Based on Carbon Nanomaterials	Physical Science - Sensors	Platform Technology		Star	Alex	Arts & Sciences/Chemistry	Prototype (device)	US 2010-0100239 A1 US 2013-040283 A1 US 2015-008697 A1 US 2019-000398 A1	License
Recently Added	4137	Fiber Optics for Use in Gas Sensing and Monitoring Applications	Physical Science - Sensors			Chen	Kevin	Engineering/Computer Engineering	Prototype	7,239,778 7,349,600 7,792,392	NewCo
Recently Added	4097	Nano-Eclipse				Kim	Hong Koo	Engineering/Computer Engineering	Light emission and low voltage operation confirmed; currently optimizing hole-spacing and charge-conducting layer to achieve theoretical efficiency.	US-2013-0299773-A1 US-2018-0337359-A1	License
Recently Added	3805	Ensuring the Stability of Perovskite-Based Solar Cells Using Organic Light-Curable Sealing Layer	Physical Science - Energy		Photovoltaics/Electronics	Lee	Jung-Kun	Mechanical Engineering & Materials Sc	Prototype	Patent application filed	License
Recently Added	3655	Using Composite Sealing to Augment Solar Cell Durability and Lifespan	Physical Science - Energy		Photovoltaics/Electronics	Lee	Jung-Kun	Mechanical Engineering & Materials Sc	Prototype	US non-provisional patent filed	License
Recently Added	2852	Flexible Molecular Piezoelectric Device	Physical Science - Sensors			Hutcheon	Geoffrey	Arts & Sciences/Chemistry	Prototype	US 9,985,197 B2	License