

Patent Recipients July 1, 2022 to June 30, 2023

76 U.S. patents were issued to the University of South Florida

Inventors	Patent #	Title	Date Granted
Justin Nussbaum Nathan Crane	11,376,795	Sintering Monitoring Method	July 5, 2022
Manoj Ram Yogi Goswami Lee Stefanakos	11,385,482	Solid State Touchchromic Device	July 12, 2022
Manoj Ram Yogi Goswami Lee Stefanakos	11,401,426	Composite Conducting Polymer Films	August 2, 2022
Dzung Minh Duc Tran Tansel Yucelen Selahattin Sarsilmaz	11,402,243	Distributed Process State and Input Estimation for Heterogeneous Active/Passive Sensor Networks	August 2, 2022
Manoj Ram Sharan Indrakar Yogi Goswami Lee Stefanakos	11,402,720	Chromatic Devices Comprising a Salt-Based Electrolyte	August 2, 2022
David Morse Robert Gillies Mark McLaughlin Thaddeus Wadas Hyun Joo Kil Narges Tafreshi	11,406,723	Radiotherapeutic and Companion Imaging Agents to Target MC1R	August 9, 2022
Shengqian Ma Feng-Shou Xiao Qi Sun	11,407,770	Amphiphobic Porous Materials	August 9, 2022
Mohamed Rahouti Kaiqi Xiong Yufeng Xin Nasir Ghani	11,411,872	Network Latency Optimization	August 9, 2022
David Morse Josef Vagner Mark McLaughlin Robert Gillies Amanda Huynh Michael Doligalski	11,414,455	Toll-Like Receptor 2 Ligands and Methods of Making and Using Thereof	August 16, 2022
Calvin Perumalla Richard Gitlin Dilranjan Wickramasuriya	11,426,113	System and Method for the Prediction of Atrial Fibrillation (AF)	August 30, 2022
Xingmin Sun Abraham Sonenshein	11,433,127	Non-Toxicigenic <i>Clostridium difficile</i> Spores for use in Oral Vaccination	September 6, 2022
Mohamed Eddaoudi Michael Zaworotko Patrick Nugent Stephen Burd Ryan Luebke Youssef Belmabkhout Osama Shekhah	11,439,944	Metal-Organic Materials for CO ₂ Adsorbtion	September 13, 2022
Todd Sacktor Mildred Acevedo-Duncan	11,446,264	Memory Manipulation via Modification of Protein Kinase C Zeta Activity	September 20, 2022
Chuanhai Cao	11,446,276	Extreme Low Dose THC as a Therapeutic and Phrophylactic Agent for Alzheimer's Disease	September 20, 2022
Alberto Sagues Hani Freij David Dukeman Christopher Alexander	11,448,610	System and Method for Imaging Tendon Cross Sections for Detecting Voids and Other Deficiencies in Grouted External Tendons	September 20, 2022
Sriram Chellappan Balaji Padmanabhan Tanvir Bhuiyan Arup Kanti Dey Shaminur Rahman	11,451,538	Methods and Systems of Authenticating of Personal Communications	September 20, 2022
Andrew Koutnik Dominic D'Agostino	11,452,704	Prevention and Treatment of Muscle Wasting With Ketone Supplementation	September 27, 2022
Hussein Alrobei Manoj Ram	11,453,952	Photoelectrochemical Cells	September 27, 2022
Michael Zaworotko Naga Duggirala Adam Smith Doug Shytle	11,459,341	Organic Anion Lithium Ionic Cocrystal Compounds and Compositions	October 4, 2022

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Daniel Yeh Ivy Cormier Drexler Melanie Pickett David Fulcher	11,459,535	Systems and Methods for Cultivating Algae	October 4, 2022
Vijaykumar Sutariya Priyanka Bhatt Vipul Amin Srinivas Tipparaju	11,471,412	Nanoparticles and Nanogel Drug Compositions for Treatment of Age-Related Macular Degeneration	October 18, 2022
Bill Baker	11,478,524	Methods and Compositions for Modulating Complex Mixtures by Selective Deletion Chromatography	October 25, 2022
Nathan Crane Justin Nussbaum	11,478,992	Projection Material Processing System and Associated Method of Use	October 25, 2022
Roman Manetsch Gloria Ferreira Bosko Stojanovski Katya Nacheva	11,479,532	5-Aminolevulinate Synthase Inhibitors and Methods of Use Thereof	October 25, 2022
Yogi Goswami Diego Guillen Marco Sanjuan	11,480,161	Concentrated Solar Systems Comprising Multiple Solar Receivers at Different Elevations	October 25, 2022
Jay Bieber	11,480,696	Ultrahigh Surface Area Materials and Methods of Making Same	October 25, 2022
Christos Tsokos Freeh Alenezi	11,483,335	Cybersecurity: Reliability of a Computer Network	October 25, 2022
Ashwin Parthasarathy Arindam Biswas Arash Takshi	11,487,255	Integrated Detection Scheme for Fats Blood Flow Measurement	November 1, 2022
Ashwin Parthasarathy Arindam Biswas Arash Takshi	11,489,543	Lossless Data Comopression for Sensors	November 1, 2022
Longfei Wang S. Karen Khatamifard Ulya Karpuzcu Selcuk Kose	11,493,945	Method and Apparatus for Mitigating Performance Degradation in Digital Low-Dropout Voltage Regulators (DLDOS)	November 8, 2022
Valentina Moran	11,497,739	Materials and Methods for Diagnosis, Prevention and/or Treatment of Stress Disorders and Conditions Associated with A-BETA Peptide Aggregation	November 15, 2022
Venkat Bhethanabotla Shuangming Li	11,499,943	Portable Orthogonal Surface Acoustic Wave Sensor, Removal of Nonspecifically Bound Proteins and Mixing.	November 15, 2022
Sriram Chellappan Pratool Bharti Mona Minakshi Willie McClinton Jamshidbek Mirzakhalov	11,501,113	Leveraging Smart-Phone Cameras and Image Processing Techniques to Classify Mosquito Genus and Species	November 15, 2022
Murat Karabacak Liza Afeef Huseyin Arslan	11,509,365	System and Method for Dynamic Sidelobe Multiplexing in Beamspace Mimo Systems	November 22, 2022
Summer Decker Jonathan Ford Jessica Ching	11,517,464	Reduction Splint for Edentulous Patients	December 6, 2022
Redwan Alqasemi Paul Mitzlaff Andoni Aguirrezabal Lei Wu Karl Rothe Rajiv Dubey	11,518,045	Robotic End Effectors for Use With Robotic Manipulators	December 6, 2022
Manoj Ram	11,520,203	Multicolor, Single Active Layer Electrochromic Devices	December 6, 2022
Summer Decker Jonathan Ford Todd Hazelton Todd Goldstein Kami Kim Michael Teng John Sinnott	DES972,130	Swab	December 6, 2022
Yicheng Tu Ran Rui	11,526,960	GPU-Based Data Join	December 13, 2022
Sara SmithMaria Carlo Sanghoon Park Howard Kaplan	11,527,170	System of Language Learning With Augmented Reality	December 13, 2022

Inventors	Patent #	Title	Date Granted
Keven Hong	11,529,128	Spring-Loaded Device for Eliciting Deep Tendon Reflexes	December 20, 2022
Samuel Wickline Hua Pan Christine Pham Huimin Yan	11,529,388	Peptide-Polynucleotide-Hyaluronic Acid Nanoparticles and Methods for Polynucleotide Transfection	December 20, 2022
Jia-Wang Wang Richard Lockey	11,530,424	Efficient Crispr/HDR-Mediated Knock-In System and Method of Use	December 20, 2022
Kevin Nash Edwin Weeber Jennifer Daily	11,534,500	Modified UBE3A Gene for a Gene Therapy Approach for Angelman Syndrome	December 27, 2022
Arash Takshi Sabrina Marie Rosa-Ortiz	11,535,947	Electrochemical Three-Dimensional Printing and Soldering	December 27, 2022
Stephen Selph Andreas Niederer Cristofer Jacinto-Garcia	11,536,527	Cartridge Magazine Loading Optimization Device	December 27, 2022
Srinivas Katkoori Rohith Challa Sheikh Islam	11,537,755	SR Flip-Flop Based Physical Unclonable Functions for Hardware Security	December 27, 2022
Dennis Killinger	11,543,528	System and Method of Dynamic Light Source Control	January 3, 2023
Saud Aldossari	11,546,070	Method of Selecting an Optimal Propagated Base Signal Using Artificial Neural Networks	January 3, 2023
Bill Baker Lindsey Shaw Andrew Shilling Alexandre Bory Jessie Allen Adams Charles Amsler, Jr. James McClintock	11,547,691	Dendrilla Membranosa Compounds, Derivatives Thereof, and Uses Thereof	January 10, 2023
Venkat Bhethanabotla Thomas Weller Roger Tipton John Bentley Eduardo Rojas	11,561,343	Digital Fabrication of a Small Diameter Polymer Optical Waveguide	January 24, 2023
Selahattin Sarsilmaz Tansel Yuçelen Tyler Oswald	11,562,269	Distributed Control of Multiagent Systems With Heterogeneity in Synchronization Roles	January 24, 2023
Kavyashree Puttananjegowda Sylvia Thomas Arash Takshi	11,571,148	CMOS-Based Low-Power, Low-Noise Potentiostat Circuit and its Integration with an ENFM-Based Glucose Sensor	February 7, 2023
Selcuk Kose Longfei Wang S. Karen Khatamifard Ulya Karpuzcu	11,573,586	Method and Apparatus for Mitigating Performance Degradation in Digital Low-Dropout Voltage Regulators (DLDOs) Caused by Limit Cycle Oscillation (LCO) and Other Factors	February 7, 2023
Yicheng Tu Naphath Pitaksiranan	11,573,797	Computing 2-Body Statistics on Graphics Processing Units (GPUS)	February 7, 2023
Andreas Muller Juan Velez	11,579,017	Diode-Pumped Multipass Cavity Raman Gas Sensor and Method of Use	February 14, 2023
Farzad Forouzandeh David Borkholder Robert Frisina Joseph Walton Xiaoxia Zhu	11,583,627	Implantable Drug Storage Devices for Drug Delivery	February 21, 2023
Attila Yavuz	11,588,645	Systems and Methods for Compromise Resilient and Compact Authentication for Digital Forensics	February 21, 2023
Dominic D'Agostino Angela Poff Andrew Koutnik	11,596,616	Compositions and Methods for Weight Loss Maintenance	March 7, 2023
Reese Starowesky Carlos Duran Autar Kaw Ali Yalcin Carla Vandeweerd	11,600,161	Systems and Methods for At-Home Monitoring of an Individual	March 7, 2023
Farzad Forouzandeh David Borkholder Robert Frisina Joseph Walton Xiaoxia Zhu	11,603,254	Miniature Pressure-Driven Pumps	March 14, 2023
Manh-Huong Phan Ongard Thiabgoh Tatiana Eggers	11,607,154	Magneto-LC Resonance Technology For Real-Time Respiratory Motion Monitoring	March 21, 2023
Shyam Mohapatra Subhra Mohapatra	11,607,426	Method of Targeting Oncolytic Viruses to Tumors	March 21, 2023

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Svitlana Garbuzova-Davis Jared Ehrhart Paul Sanberg	11,628,190	Plasma Derived From Human Umbilical Cord Blood for the Treatment of Neurodegenerative Disorders	April 18, 2023
Shengqian Ma Qi Sun Briana Aguila	11,628,419	Functionalized Porous Organic Polymers as Uranium Nano-Traps for Efficient Uranium Extraction	April 18, 2023
Edwin Weeber Qingyou Li Melinda Peters Hana Marie Soueidan	11,629,127	Drug-Induced Activation of the Reelin Signaling System	April 18, 2023
Shengqian Ma Yanming Zhao	11,629,160	Corrole-Based Frameworks and Methods of Use Thereof	April 18, 2023
Peter Mouton Sammie Elkins Md Sirajus Salekin Dmitry Goldgof Yu Sun Thao Ho Ghadh Alzammi	11,631,280	System and Method for Multimodal Spatiotemporal Pain Assessment	April 18, 2023
Turki Sulaiman Alamro Manoj Ram	11,631,551	High Specific Capacitance Solid State Supercapacitor and Method of Manufacture	April 18, 2023
Huseyin Arslan Mehmet Sahin	11,632,281	System and Method for Joint Radar-Sensing and Communication Waveform Utilizing Uniue Word OFDM (UW-OFDM)	April 18, 2023
Mohamed Rahouti Kaiqi Xiong	11,632,385	Computer Networking With Security Features	April 18, 2023
David Eddins Joseph Walton	11,632,633	Device for Targeted Feature-Specific Sensory Therapy	April 18, 2023
Justin Nussbaum Nathan Crane	11,642,839	Layer-Wise Control of Post Condensation for Additive Manufacturing	May 9, 2023
Christopher Gardiner Justin Nussbaum Nathan Crane	11,643,366	Large Area Sintering Test Platform and Associated Method of Use	May 9, 2023
Manoj Ram Sharan Indrakar Yogi Goswami Lee Stefanakos	11,650,474	Chromatic Devices Comprising a Salt-Based Electrolyte	May 16, 2023
Subhra Mohapatra Shyam Mohapatra Tao Wang	11,685,885	4D-Perfused Tumoroid -On-A-Chip Platform for Personalized Cancer Treatment Applications	June 27, 2023