

**Intellectual Property Portfolio as of December. 9, 2025****Issued Patents**

	<b>PAT. NO.</b>	<b>Title</b>
37	12392028	Laser Activated Luminescence System
36	12332116	Laser system with self-referencing shaper
35	12308765	Ionic liquid-based piezoelectric apparatus and related methods
34	12019011	Laser system for blood or tissue assessment
33	11502473	Laser apparatus including an optic dispersion compensator
32	11385098	Method and system for characterizing power in a high-power laser
31	11274982	Materials and apparatus with multiple impact level and torque detection
30	10,971,881	Laser pulse including a flat top
29	10,656,062	Materials with detectable compression memory
28	10,598,682	Laser system for measuring fluid dynamics
27	10,444,100	Materials and apparatus with multiple impact level and torque detection
26	10,267,739	Laser system for standoff detection
25	10,130,511	Adaptive laser system for ophthalmic surgery
24	9,202,678	Ultrafast laser system for biological mass spectrometry
23	9,048,632	Ultrafast laser apparatus (for LIBS DOE)
22	9,018,562	Laser material processing system
21	8,861,075	Laser amplification system
20	8,675,699	Laser pulse synthesis system
19	8,633,437	Ultra-fast laser system
18	8,630,322	Laser system for output manipulation
17	8,618,470	Laser based identification of molecular characteristics
16	8,311,069	Direct ultrashort laser system
15	8,300,669	Control system and apparatus for use with ultra-fast laser
14	8,265,110	Laser and environmental monitoring method
13	8,208,505	Laser system employing harmonic generation
12	8,208,504	Laser pulse shaping system
11	8,185,209	Methods to extend vision to infrared wavelengths
10	7,973,936	Control system and apparatus for use with ultra-fast laser
9	7,609,731	Laser system using ultra-short laser pulses
8	7,583,710	Laser and environmental monitoring system
7	7,567,596	Control system and apparatus for use with ultra-fast laser
6	7,450,618	Laser system using ultrashort laser pulses
5	7,439,497	Control system and apparatus for use with laser excitation and ionization
4	7,105,811	Control system and apparatus for use with laser excitation of ionization
3	6,119,567	Method and apparatus for producing a shaped article
2	EP1,723,704	Laser system using ultra-short laser pulses (Europe)
1	JP60048	Laser system using ultra-short laser pulses (Japan)

**Published Pending US Patent Applications**

	<b>PUB. APP. NO.</b>	<b>Title</b>
1	20250369744	MICROSCOPE INCLUDING INTERFEROMETER

## Appendix C – Full Patent Portfolio, M. Dantus

### **MSU Invention Disclosures/Provisional Patent Applications**

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<b>MSUT No.</b>	<b>Title</b>
1	TEC2026-0178 Single shot measurement
2	TEC2025-0186 Infrared and near infra-red-light exposure to improve muscle function during pregnancy, parturition and postpartum
3	TEC2025-0076 Identifying high-frequency features in a broad background (provisional applied)
4	TEC2024-0084 Bichromatic pulse compression (provisional applied)
5	TEC2023-0095 Piezo-pneumatic device (provisional applied)
6	TEC2023-0094 Pressure-Sensitive Charge-Producing device (provisional applied)
7	TEC2022-0135 3D Nanoscope (provisional applied)