



NASA Invention of the Year

Year	Title(s)	Center
2013	CheMin (“Chemistry and Mineralogy”) X-Ray Diffraction/ X-Ray Fluorescence Instrument	Ames Research Center
	An Infrasonic Array For Aerospace	Langley Research Center
2012	High Sensitivity Nano Sensors for Trace Chemical Detection	Ames Research Center
	Toughened Uni-piece Fibrous Reduced Oxidation Ceramic (TUFROC) Thermal Protection System	Ames Research Center
2011	Toughened Uni-piece Fibrous Reduced Oxidation Ceramic (TURFOC) Light-Weight Thermal Protection System for Use on Space Vehicles during Atmospheric Entry at Hypersonic Speed	Ames Research Center
	Solar-Powered Refrigeration System	Johnson Space Center
2010	Future ATM Concepts Evaluation Tool (FACET)	Ames Research Center
	Powder Vibration System for Portable X-ray Diffraction Instruments	
2009	Ultrasonic Wire Crimp Inspection Technology	Langley Research Center
2008	High Speed Three-Dimensional Laser Scanner with Real Time Processing	Ames Research Center
	Composition of and Method for Making High Performance Resins for Infusion and Transfer Molding Processes	Langley Research Center
2007	PICA and SIRCA Low-Density Resin Impregnated Ceramic Article	Ames Research Center
	LAR-16615-1&2 “FPF-44 Polyimide Foams”	Langley Research Center
2006	The MacroFiber Composite Actuator and Sensor (MFC)	Langley Research Center
2005	Zero-Valent Metal Emulsion for Reductive Dehalogenation of DNAPL-Phase Environmental Contaminants	Kennedy Space Center
2004	LARC RP46: High-Temperature Polyimide Resin System	Langley Research Center
	Rocket Motor Joint Construction Including Thermal Barrier	Glenn Research Center
2003	Personal Cabin Pressure Altitude Monitor and Warning System	Kennedy Space Center
2002	Computer Implemented Empirical Mode Decomposition Method, Apparatus, and Article of Manufacture	Goddard Space Flight Center
	Video Image Stabilization and Registration (VISAR)	Marshall Space Flight Center
2001	Hollow Cathode Assembly for the ISS Plasma Contactor and Hollow Cathode Technology	Glenn Research Center
	Rotary Blood Pump (Ventricular Assist Device-VAD)	Johnson Space Center
2000	Optical Fiber Cable Chemical Stripping Fixture	Goddard Space Flight Center
	A New Process and Equipment for Conversion of NOx Scrubber Liquor to Fertilizer	Kennedy Space Center

1999	Method and Apparatus for Ultra-High-Sensitivity, Incremental and Absolute Optical Encoding	Goddard Space Flight Center
	Product and Process for Preparing Highly Optically Transparent/Colorless Aromatic Polyimide Film; Structures from Low Dielectric Polyimides	Langley Research Center
1998	Reaction/Momentum Wheel: Apparatus for Providing Torque and for Storing Momentum Energy	Goddard Space Flight Center
	Composite Matrix Resins and Adhesives (PETI-5)	Langley Research Center
1997	No Winner	n/a
1996	High Temperature, Flexible Fiber Preform Seal	Glenn Research Center
1995	Method for Coding Low Entropy Data	Goddard Space Flight Center
	Engines-Only Flight Control System	Dryden Flight Research Center
1994	Intelligent Computer-Aided Training	Johnson Space Center
1993	Regenerable Biocide Delivery Unit	Johnson Space Center
1992	Water Window Imaging X-Ray Microscope	Marshall Space Flight Center
1991	Horizontally Rotated Cell Culture System with a Coaxial Tubular Oxygenator	Johnson Space Center
	Sprayable Lightweight Ablative Coating	Marshall Space Flight Center
1990	Docking Alignment System	Johnson Space Center