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1. GENSETS: GENerators for Small Electrical and Thermal Systems (GENSETS)

   Release Date: 07-16-2015Open Date: 07-16-2015Due Date: 08-17-2015Close Date: 08-17-2015

   PLEASE NOTE: A prior Letter of Intent is not required for this specific FOA from DOE-ARPA-E. SUMMARY The GENSETS Program – GENerators for Small Electrical and Thermal Systems – seeks to fund the development of potentially disruptive generator technologies that will enable widespread deployment of residential Combined Heat and Power (CHP) systems. Here, CHP is defined as the distributed generat ...

   SBIRSTTR Department of EnergyARPA-E

2. 1: MOSAIC STTR

   Release Date: 12-08-2014Open Date: 12-08-2014Due Date: 01-22-2015Close Date: 01-22-2015

   The MOSAIC (Micro-scale Optimized Solar-cell Arrays with Integrated Concentration) Program will fund potentially disruptive technologies and related system concepts to achieve new performance and cost benchmarks for solar-electric generation from photovoltaics (PV). Specifically, MOSAIC will develop novel concepts that integrate arrays of high-performan ...

   STTR Department of Energy

3.

   Release Date: 11-25-2013Open Date: 11-25-2013Due Date: 02-04-2014Close Date: 02-04-2014

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   SBIR Department of Energy

4. 22: ADVANCED DIAGNOSTIC TECHNIQUES FOR ELECTRIC POWER SYSTEMS – FAULT DETECTION

   Release Date: 11-25-2013Open Date: 11-25-2013Due Date: 02-04-2014Close Date: 02-04-2014

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   SBIR Department of Energy

5. AF141-001: Non-Silicon and Non-Boron based Leading Edges for Hypersonic Vehicles

   Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

   OBJECTIVE: Identify and demonstrate a new material system with suitable material properties to realize the advanced leading edges for use in reusable or long flight time hypersonic vehicles. DESCRIPTION: Air Force-relevant applications include but not limited to sharp leading edges, rocket nozzles, throats and engine combustion parts are key components that

enable hypersonic flight. These lead ...

SBIR Department of DefenseAir Force

6. AF141-002: Epitaxial Technologies for SiGeSn High Performance Optoelectronic Devices

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Develop SiGeSn epitaxy on silicon and germanium substrates for new degrees of freedom in optoelectronic devices operating in the wavelength range between 2.0 and 5.0 micrometers. DESCRIPTION: Conventional mid-infrared materials based on the III-V (GaInSb) and the II-VI (HgCdTe) materials are relatively expensive and incompatible with silicon-based integrated circuit processing. S ...

SBIR Department of DefenseAir Force

7. AF141-003: Variable Precision Filters

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: The development of innovative mathematical techniques for the design of digital filters allowing trade-offs between accuracy, precision and memory. DESCRIPTION: The design of finite impulse response (FIR or non-recursive) and infinite impulse response (IIR or recursive) digital filters has a long history and, over the years, many methods have been developed to design FIR, IIR filt ...

SBIR Department of DefenseAir Force

8. AF141-004: Radio-frequency Micro-electromechanical Systems with Integrated Intelligent Control

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Improve the robustness and reliability of radio-frequency micro-electromechanical systems by orders of magnitude beyond the state of the art, making them suitable for defense applications. DESCRIPTION: Radio-frequency micro-electromechanical systems (RF MEMS) have many performance advantages as microwave switches, tuners, filters and phase shifters with higher linearity, lower los ...

SBIR Department of DefenseAir Force

9. AF141-005: SMART Bandage for Monitoring Wound Perfusion

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Develop and demonstrate an innovative wound dressing that quantitatively reports tissue perfusion for monitoring and optimizing wound healing. DESCRIPTION: The

current standard-of-care for wounds and grafts relies on subjective observations of tissue health that are episodic and can vary greatly between caregivers with different degrees of training (1). For example, measurements o ...

SBIR Department of DefenseAir Force

10. AF141-006: Shockwave Consolidation of Materials

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: To develop materials that are far from thermodynamic equilibrium domain (highly doped polycrystalline materials, nano-structured systems and supersaturated structures, etc.). The processing includes shockwave consolidation and external fields. DESCRIPTION: Conventional processing techniques typically prepare materials from a melt or using powder metallurgy techniques, such as hot ...

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