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- Title (ascending)
- Open Date (descending)
- Close Date (ascending)
- Release Date (descending)

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Displaying 1 - 10 of 473 results

1. A1.01: Structural Efficiency-Hybrid Nanocomposites

Release Date: 11-14-2014Open Date: 11-14-2014Close Date: 01-28-2015

Lead Center:LaRC Two of the primary goals of the Advanced Air Vehicles program are safety and efficiency, which can be achieved simultaneously through designer materials tailored for future aircraft structures. The SOA for lightweight structures are carbon fiber reinforced polymeric composites which make up approximately 50% of the weight of Boeing's 787. Adoption of all-carbon nanotube (CNT) com ...

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2. A1.02: Aerodynamic Efficiency Drag Reduction Technology

Release Date: 11-14-2014Open Date: 11-14-2014Close Date: 01-28-2015

Lead Center:LaRC The challenge of energy-efficient flight has at its foundation aerodynamic efficiency, and at the foundation of aerodynamic efficiency is low drag. Drag can be broadly decomposed into four components: viscous or skin friction drag, lift-induced drag, wave or compressibility drag, and excrescence drag due to various protruding items such as antennae, wipers, lights, etc. The relat ...

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3. A1.03: Low Emissions Propulsion and Power

Release Date: 11-14-2014Open Date: 11-14-2014Close Date: 01-28-2015

Lead Center:GRCParticipating Center(s):AFRC,ARC,LaRCProposals are sought which support electric propulsion of transport aircraft, including turboelectric propulsion (turbine prime mover with electric distribution of power to propulsors) and various hybrid electric concepts, such as gas turbine engine and battery combinations.Turboelectric propulsion for transport aircraft applications will require ...

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4. A1.04: Quiet Performance

Release Date: 11-14-2014Open Date: 11-14-2014Close Date: 01-28-2015

Lead Center:LaRCParticipating Center(s):GRCInnovative technologies and methods are necessary for the design and development of efficient, environmentally acceptable aircraft. In support of the Advanced Air Vehicles, Integrated Aviation Systems and Transformative Aero Concepts Programs, improvements in noise prediction, acoustic and relevant flow field measurement methods, noise propagation and noi ...

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5. A1.05: Physics-Based Conceptual Aeronautics Design Tools

Release Date: 11-14-2014Open Date: 11-14-2014Close Date: 01-28-2015

Lead Center:GRCParticipating Center(s):LaRCNASA continues to investigate the potential of advanced, innovative propulsion and aircraft concepts to improve fuel efficiency and reduce

the environmental footprint of future generations of commercial transports across the breadth of the flight speed regimes. Propulsion systems, such as open rotors and hybrid-electric propulsion, are viewed as potential ...

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6. A1.06: Vertical Lift

Release Date: 11-14-2014Open Date: 11-14-2014Close Date: 01-28-2015

Lead Center:ARCParticipating Center(s):GRC,LaRCThe Vertical Lift subtopic is primarily interested in the following two areas: The use of small vertical lift UAVs has increased in recent times with many civilian missions being proposed, including autonomous surveillance, mapping, etc. Much of the current research associated with these vehicles has been in the areas of electric propulsion, batterie ...

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7. A1.07: Efficient Propulsion & Power

Release Date: 11-14-2014Open Date: 11-14-2014Close Date: 01-28-2015

Lead Center:GRC For 2014, this sub-topic will focus on propulsion controls and dynamics. Propulsion controls and dynamics research is being done under various projects in the Fundamental Aeronautics Program (FAP) and Aviation Safety Program (ASP). For turbine engines, work on Distributed Engine Control (DEC) and Active Combustion Control (ACC) is currently being done under the Aeronautics Science ...

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8. A1.08: Ground Testing and Measurement Technologies

Release Date: 11-14-2014Open Date: 11-14-2014Close Date: 01-28-2015

Lead Center:LaRCParticipating Center(s):GRCThis subtopic supports the experimental modeling and simulation requirements of NASA's Aeronautics Research Mission Directorate, as well as the testing requirements of other government and commercial entities. The subject facilities are managed by the Aeronautics Evaluation and Test Capability (AETC) Project within the NASA Advanced Air Vehicles Program. ...

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9. A1: Air Vehicle Technology

Release Date: 11-14-2014Open Date: 11-14-2014Close Date: 01-28-2015

The Air Vehicle Technology topic solicits cutting-edge research in aeronautics to overcome technology barriers and challenges in developing safe, new vehicles that will fly faster, cleaner, and quieter, and use fuel far more efficiently. The primary objective is the development of knowledge, technologies, tools, innovative concepts and capabilities needed as the Nation continues to experience grow ...

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10. A2.01: Flight Test and Measurements Technologies

Release Date: 11-14-2014Open Date: 11-14-2014Close Date: 01-28-2015

Lead Center:AFRCParticipating Center(s):LaRCNASA continues to see flight research as a critical element in the maturation of technology. This includes developing test techniques that improve the control of in-flight test conditions, expanding measurement and analysis methodologies, and improving test data acquisition and management with sensors and systems that have fast response, low volume, mini ...

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- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- ...
- Next
- Last

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