

Chronological Index

- B07-043 Effect of Pulse Length and Ejector Radius on Unsteady Ejector Performance.** Jack Wilson, *QSS Group, Inc.* (23, 2, p. 345) Article based on AIAA Paper 2005-3829
 Technical Comment by W. H. Heiser, *U.S. Air Force Academy* (24, 1, p. 158)
 Technical Reply by Jack Wilson, *WingCo, Ltd.* (24, 1, p. 158)
- B07-127 Homogenous-Dilution Model of Partially Fueled Simplified Pulse Detonation Engines.** Takuma Endo, Tomoaki Yatsufusa, and Shiro Taki, *Hiroshima University, Japan*; Akiko Matsuo, *Keio University, Japan*; Kazuaki Inaba, *Tokyo University of Science, Japan*; and Jiro Kasahara, *University of Tsukuba, Japan* (23, 5, p. 1033) Article based on AIAA Paper 2004-1214
 Technical Comment by W. H. Heiser, *U.S. Air Force Academy*; and D. T. Pratt, *University of Washington* (24, 5, p. 1151)
 Technical Reply by Takuma Endo, Tomoaki Yatsufusa, and Shiro Taki, *Hiroshima University, Japan*; Akiko Matsuo, *Keio University, Japan*; Kazuaki Inaba, *Tokyo University of Science, Japan*; and Jiro Kasahara, *University of Tsukuba, Japan* (24, 5, p. 1152)
- B08-001 Turbulence Models Assessment for Large-Scale Tip Vortices in an Axial Compressor Rotor.** Yangwei Liu, Xianjun Yu, and Baojie Liu, *Beijing University of Aeronautics and Astronautics, China (ROC)* (24, 1, p. 15) Article
- B08-002 Effects of Tip Clearance on Aerodynamic Damping in a Linear Turbine Cascade.** Xiuquan Huang and Li He, *University of Durham, United Kingdom*; and David L. Bell, *ALSTOM Power, Ltd, United Kingdom* (24, 1, p. 26) Article
- B08-003 Computational Study of the Propulsive Characteristics of a Shramjet Engine.** Derrick C. Alexander and Jean P. Sislian, *University of Toronto, Canada* (24, 1, p. 34) Article
- B08-004 Numerical Simulation of Transverse Injection of Circular Jets into Turbulent Supersonic Streams.** A. T. Sriram and Joseph Mathew, *Indian Institute of Science, India* (24, 1, p. 45) Article
- B08-005 Additives to Improve Fuel Heat Sink Capacity in Air/Fuel Heat Exchangers.** David T. Wickham, Jeffrey R. Engel, and Sean Rooney, *TDA Research, Inc.*; and Bradley D. Hitch, *Reaction Systems, LLC* (24, 1, p. 55) Article based on AIAA Paper 2005-3916
- B08-006 Concentration Distribution in Supersonic Flow Recirculation Region.** Amit Thakur and Corin Segal, *University of Florida* (24, 1, p. 64) Article
- B08-007 Studies on Spray Behavior of a Pressure Swirl Atomizer in Transition Regime.** K. U. Reddy and D. P. Mishra, *Indian Institute of Technology Kanpur, India* (24, 1, p. 74) Article
- B08-008 Single-Cycle Impulse from Detonation Tubes with Nozzles.** M. Cooper, *Sandia National Laboratories*; and J. E. Shepherd, *California Institute of Technology* (24, 1, p. 81) Article
- B08-009 Effect of High-Voltage Pulsed Discharges on Deflagration to Detonation Transition.** V. P. Zhukov, A. E. Rakitin, and A. Yu. Starikovskii, *Moscow Institute of Physics and Technology, Russia* (24, 1, p. 88) Article
- B08-010 Study of Heat Transfer Correlations for Supercritical Hydrogen in Regenerative Cooling Channels.** Justin M. Locke and D. Brian Landrum, *University of Alabama in Huntsville* (24, 1, p. 94) Article
- B08-011 Microgravity Geyser and Flowfield Prediction.** J. I. Hochstein and J. G. Marchetta, *University of Memphis*; and R. J. Thornton, *NASA Marshall Space Flight Center* (24, 1, p. 104) Article
- B08-012 Plume Expansion and Ionization in a Microlaser Plasma Thruster.** Michael P. Reilly and George H. Miley, *University of Illinois at Urbana-Champaign*; and William A. Hargus Jr., *U.S. Air Force Research Laboratory* (24, 1, p. 111) Article based on AIAA Paper 2005-4072
- B08-013 Magnetic Sensing of Azimuthal Current in Hall Thrusters: In-Flight Diagnostic Potential.** Binyamin Rubin, Alexander Kapulkin, and Moshe Guelman, *Technion-Israel Institute of Technology, Israel* (24, 1, p. 118) Article
- B08-014 Near Exit Plane Velocity Field of a 200-Watt Hall Thruster.** William A. Hargus Jr. and Christopher S. Charles, *U.S. Air Force Research Laboratory* (24, 1, p. 127) Article
- B08-015 Testing a Helicon Double Layer Thruster Immersed in a Space-Simulation Chamber.** Michael D. West, Christine Charles, and Rod W. Boswell, *Australian National University, Australia* (24, 1, p. 134) Article
- B08-016 Bismuth Hollow Cathode for Hall Thrusters.** Jason M. Makela, Dean R. Massey, and Lyon B. King, *Michigan Technological University* (24, 1, p. 142) Technical Note based on AIAA Paper 2006-4634
- B08-017 Charged Nanoparticle Source for High Thrust Level Colloid Thruster.** W. Song and U. Shumlak, *University of Washington* (24, 1, p. 146) Technical Note
- B08-018 Magnetic Flowmeter Burner Measurement of a Solid Propellant Pressure-Coupled Imaginary Response.** Michael M. Micci, *Pennsylvania State University* (24, 1, p. 149) Technical Note
- B08-019 Silanes/H₂O₂: A High-Performance Synthetic Bipropellant for Chemical Space Propulsion.** B. Hidding, *Heinrich-Heine-University, Germany*; M. Pfitzner, *Universitaet der Bundeswehr Muenchen, Germany*; C. Bruno and D. Simone, *University of Rome "La Sapienza," Italy* (24, 1, p. 150) Technical Note
- B08-020 Microstructure of Composite Propellants Using Simulated Packings and X-Ray Tomography.** Stany Gallier and Fabrice Hiernard, *SNPE Matériaux Energétiques, France* (24, 1, p. 154) Technical Note
- B08-021 Multidimensional Numerical Simulation of Ammonium-Perchlorate-Based Propellant Combustion with Fine/Ultrafine Aluminum.** L. Massa and T. L. Jackson, *University of Illinois at Urbana-Champaign* (24, 2, p. 161) Article
- B08-022 Use of Condensed-Phase Reaction Models in Combustion Simulation of Energetic Materials.** Jun Wang and Charles A. Wight, *University of Utah* (24, 2, p. 175) Article
- B08-023 Combustion of Boron-Titanium Nanocomposite Powders in Different Environments.** Mikhaylo A. Trunov, Vern K. Hoffmann, Mirko Schoenitz, and Edward L. Dreizin, *New Jersey Institute of Technology* (24, 2, p. 184) Article based on AIAA Paper 2006-4809
- B08-024 Aluminum-Rich Al-MoO₃ Nanocomposite Powders Prepared by Arrested Reactive Milling.** Swati M. Umbrajkar, Soumitri Seshadri, Mirko Schoenitz, Vern K. Hoffmann, and Edward L. Dreizin, *New Jersey Institute of Technology* (24, 2, p. 192) Article based on AIAA Paper 2007-294
- B08-025 Heating and Ignition of Metallic Particles by a CO₂ Laser.** Salil Mohan, Mikhaylo A. Trunov, and Edward L. Dreizin, *New Jersey Institute of Technology* (24, 2, p. 199) Article
- B08-026 Laboratory-Scale Thermal Stability Experiments on RP-1 and RP-2.** Sarah P. Brown and Robert A. Frederick Jr., *UAH Propulsion Research Center* (24, 2, p. 206) Article based on AIAA Paper 2005-3850

- B08-027 Analysis of Injecting Wall Inclination on Segmented Solid Rocket Motor Instability.** Chi Cong Nguyen, Frédéric Plourde, and Son Kim Doan, *Ecole Nationale Supérieure de Mécanique et d'Aérotechnique, France* (24, 2, p. 213) Article
- B08-028 Boundary-Layer Effects on Internal Flow Choking in Dual-Thrust Solid Rocket Motors.** V. R. Sanal Kumar, *Vikram Sarabhai Space Centre, India*; B. N. Raghunandan, *Indian Institute of Science, India*; T. Kawakami, *Hosei University, Japan*; H. D. Kim, *Andong National University, Republic of Korea*; T. Setoguchi, *Saga University, Japan*; and S. Raghunathan, *Queens University Belfast, United Kingdom* (24, 2, p. 224) Article based on AIAA Paper 2006-4432
- B08-029 Experimental Study of Chin Intakes for Airbreathing Missiles with High Agility.** Dirk Herrmann, Klaus Triesch, and Ali Gülhan, *DLR, German Aerospace Center, Germany* (24, 2, p. 236) Article
- B08-030 Preliminary Study of Shock Train in a Curved Variable-Section Diffuser.** Hui-jun Tan and Shu Sun, *Nanjing University of Aeronautics and Astronautics, China (ROC)* (24, 2, p. 245) Article
- B08-031 Breakup of Aerated Liquid Jets in Subsonic Crossflow.** B. Miller and K. A. Sallam, *Oklahoma State University*; M. Bingabr, *University of Central Oklahoma*; K.-C. Lin, *Taitech, Inc.*; and C. Carter, *U.S. Air Force Research Laboratory* (24, 2, p. 253) Article based on AIAA Paper 2007-1342
- B08-032 Flush-Wall, Diamond-Shaped Fuel Injector for High Mach Number Scramjets.** Peter M. Grossman, Luca Maddalena, and Joseph A. Schetz, *Virginia Polytechnic Institute and State University* (24, 2, p. 259) Article
- B08-033 Dual-Mode Combustion Experiments with an Integrated Aeroramp-Injector/Plasma-Torch Igniter.** Aristides M. Bonanos, Joseph A. Schetz, and Walter F. O'Brien, *Virginia Polytechnic Institute and State University*; and Christopher P. Goynes, *University of Virginia* (24, 2, p. 267) Article
- B08-034 Liquid-Fueled Strut-Based Scramjet Combustor Design: A Computational Fluid Dynamics Approach.** P. Manna, Ramesh Behera, and Debasis Chakraborty, *Defense Research and Development Laboratory, India* (24, 2, p. 274) Article
- B08-035 Real-Gas Effects in Organic Rankine Cycle Turbine Nozzles.** P. Colonna and J. Harinck, *Delft University of Technology, The Netherlands*; S. Rebay, *Università Degli Studi di Brescia, Italy*; and A. Guardone, *Politecnico di Milano, Italy* (24, 2, p. 282) Article
- B08-036 Strongly Swirling Turbulent Sink Flow Between Two Stationary Disks.** G. H. Vatistas, M. Fayed, and J. U. Soroardy, *Concordia University, Canada* (24, 2, p. 295) Article
- B08-037 Multiple Surrogate Modeling for Axial Compressor Blade Shape Optimization.** Abdus Samad and Kwang-Yong Kim, *Inha University, Republic of Korea*; Tushar Goel and Raphael T. Haftka, *University of Florida*; and Wei Shyy, *University of Michigan* (24, 2, p. 302) Article
- B08-038 Examination of a Collision-Limiter Direct Simulation Monte Carlo Method for Micropropulsion Applications.** E. Titov, A. Gallagher-Rogers, and D. Levin, *Pennsylvania State University*; and Brian Reed, *NASA John H. Glenn Research Center at Lewis Field* (24, 2, p. 311) Article
- B08-039 Time-Resolved Measurements of Impulse Generation in Pulsed Laser-Ablative Propulsion.** Kohei Anju and Keisuke Sawada, *Tohoku University, Japan*; Akihiro Sasoh and Koichi Mori, *Nagoya University, Japan*; and Eugene Zaretsky, *Ben-Gurion University of the Negev, Israel* (24, 2, p. 322) Article based on AIAA Paper 2007-4389
- B08-040 Testing of a 250-Kilowatt Fault-Tolerant Permanent Magnet Power Generation System for Aeroengines.** Z. Sun, J. D. Ede, J. Wang, and G. W. Jewell, *University of Sheffield, United Kingdom*; J. J. A. Cullen, and A. J. Mitcham, *Rolls-Royce plc, United Kingdom* (24, 2, p. 330) Article based on AIAA Paper 2007-4829
- B08-041 Multicyclic-Detonation-Initiation Studies in Valveless Pulsed Detonation Combustors.** Masayoshi Shimo and Stephen D. Heister, *Purdue University* (24, 2, p. 336) Article based on AIAA Paper 2006-4308
- B08-042 Wave Reverberations in Multitube Pulse Detonation Engines.** Houshang B. Ebrahimi, *Aerospace Testing Alliance*; and Charles L. Merkle, *Purdue University* (24, 2, p. 345) Article
- B08-043 Thermoelectric Properties of β -Zn₄Sb₃ Synthesized by Mechanical Alloying and Pulse Discharge Sintering.** Takashi Itoh, Jiayi Shan, and Kuniyuki Kitagawa, *Nagoya University, Japan* (24, 2, p. 353) Article based on AIAA Paper 2004-5564
- B08-044 Thermoelectric Properties of Iron-and Lanthanum-Doped CoSb₃ Compounds by Pulse Discharge Sintering.** Takashi Itoh, Eiji Hattori, and Kuniyuki Kitagawa, *Nagoya University, Japan* (24, 2, p. 359) Article
- B08-045 Slight-Premixing Effects on Oxidation/Formation of Polycyclic Aromatic Hydrocarbon in Counterflow Flames.** Yuji Nakamura, *Hokkaido University, Japan*; Daisuke Ishii, Shingo Satake, and Hiroshi Yamashita, *Nagoya University, Japan* (24, 2, p. 365) Article
- B08-046 Investigation of Active Flow Control on Diesel Engine Aftertreatment.** Ming Zheng, Graham T. Reader, and Meiping Wang, *University of Windsor, Canada* (24, 2, p. 376) Article based on AIAA Paper OS2-2-3
- B08-047 Metal-CO₂ Propulsion for Mars Missions: Current Status and Opportunities.** Evgeny Shafirovich and Arvind Varma, *Purdue University* (24, 3, p. 385) Survey Paper based on AIAA Paper 2007-5126
- B08-048 Low-Heat-Load-Vane Profile Optimization, Part 1: Code Validation and Airfoil Redesign.** Jamie J. Johnson and Paul I. King, *Air Force Institute of Technology*; and John P. Clark, *U.S. Air Force Research Laboratory* (24, 3, p. 395) Article based on AIAA Paper 2006-3386
- B08-049 Low-Heat-Load-Vane Profile Optimization, Part 2: Short-Duration Shock-Tunnel Experiments.** Jamie J. Johnson, Paul I. King, John P. Clark, Michael J. Flanagan, and Ryan P. Lemaire, *Air Force Institute of Technology* (24, 3, p. 403) Article based on AIAA Paper 2006-3386
- B08-050 Experimental Evaluation of a Turbine Blade with Potassium Evaporative Cooling.** Jessica L. Townsend, Franklin W. Olin College of Engineering; Jack Kerrebrock, Massachusetts Institute of Technology; and David Stickler, *Aerodyne Research, Inc.* (24, 3, p. 410) Article based on AIAA Paper 2004-3571
- B08-051 Loss Mechanisms of High-Turning Supercritical Compressor Cascades.** Bo Song, *Gardner Denver, Inc.*; Wing Ng, *Virginia Polytechnic Institute and State University*; Toyota Sonoda and Toshiyuki Arima, *Honda R&D Co., Ltd., Japan* (24, 3, p. 416) Article
- B08-052 Experimental Investigation of Unsteady Transition Processes on High-Lift T106A Turbine Blades.** M. M. Opoka and H. P. Hodson, *Cambridge University, United Kingdom* (24, 3, p. 424) Article based on AIAA Paper 2005-1227
- B08-053 Rotordynamic Analysis of a Turbopump with the Casing Structural Flexibility.** Seong Min Jeon, Hyun Duck Kwak, Suk Hwan Yoon, and Jinhan Kim, *Korea Aerospace Research Institute, Republic of Korea* (24, 3, p. 433) Article based on AIAA Paper 2007-5543
- B08-054 Aerodynamics of Fan Flow Deflectors for Jet Noise Suppression.** Dimitri Papamoschou and Feng Liu, *University of California, Irvine* (24, 3, p. 437) Article based on AIAA Paper 2005-0994
- B08-055 Investigation of Two-Dimensional Scramjet Inlet Flowfield at Mach 7.** Jürgen Häberle and Ali Gülhan, *DLR, German Aerospace Center, Germany* (24, 3, p. 446) Article based on AIAA Paper 2007-5068

- B08-056 Experimental Studies of Pylon-Aided Fuel Injection into a Supersonic Crossflow.** Mark R. Gruber and Campbell D. Carter, *U.S. Air Force Research Laboratory*; Daniel R. Montes, Lane C. Haubelt, and Paul I. King, *Air Force Institute of Technology*; and Kaung-Yu Hsu, *Innovative Scientific Solutions, Inc.* (24, 3, p. 460) Article
- B08-057 Matched Pressure Injections into a Supersonic Crossflow Through Diamond-Shaped Orifices.** Sadatake Tomioka and Muneo Izumikawa, *Japan Aerospace Exploration Agency, Japan*; Toshinori Kouchi and Goro Masuya, *Tohoku University, Japan*; Kohshi Hirano and Akiko Matsuo, *Keio University, Japan* (24, 3, p. 471) Article based on AIAA Paper 2007-5402
- B08-058 Internal Flow Dynamics in a Valveless Airbreathing Pulse Detonation Engine.** Fuhua Ma, Jeong-Yeol Choi, and Vigor Yang, *Pennsylvania State University* (24, 3, p. 479) Article based on AIAA Paper 2007-1251
- B08-059 Optimal Design of Hybrid Rocket Motors for Microgravity Platform.** Lorenzo Casalino and Dario Pastrone, *Politecnico di Torino, Italy* (24, 3, p. 491) Article
- B08-060 Burning Rate Characteristics of Ammonium Perchlorate-Based Composite Propellant Using Bimodal Ammonium Perchlorate.** Makoto Kohga, *National Defense Academy, Japan* (24, 3, p. 499) Article based on AIAA Paper 2006-4924
- B08-061 Testing and Characterization of a Hydrogen Peroxide Monopropellant Thruster.** A. Pasini, L. Torre, L. Romeo, A. Cervone, and L. d'Agostino, *ALTA S.p.A., Italy* (24, 3, p. 507) Article based on AIAA Paper 2007-5465
- B08-062 Prediction of the Efficiency of Acoustic Damping Cavities.** Geoffrey Searby, *Centre National de la Recherche Scientifique and Aix-Marseille University, France*; Aurélie Nicole, Mohammed Habiballah, and Emmanuel Laroche, *ONERA, France* (24, 3, p. 516) Article
- B08-063 Resonance Frequencies and Damping of a Combustor Acoustically Coupled to an Absorber.** Michael Oschwald and Zoltan Farago, *DLR, German Aerospace Center, Germany*; Geoff Searby and Francois Cheuret, *Centre National de la Recherche Scientifique and Aix-Marseille Université, France* (24, 3, p. 524) Article
- B08-064 Laboratory Scale Survey of Pentad Injector Stability Characteristics.** Ryan C. Cavitt and Robert A. Frederick, *University of Alabama in Huntsville*; and Vladimir G. Bazarov, *Moscow Aviation Institute* (24, 3, p. 534) Article based on AIAA Paper 2007-5587
- B08-065 Outlet-Boundary-Condition Influence for Large Eddy Simulation of Combustion Instabilities in Gas Turbines.** S. Roux, *Centre Europeen de Recherche et de Avancee en Calcul Scientifique, France*; M. Cazalens, *Societe Nationale d'Etude et de Construction de Moteurs d'Aviation, France*; and T. Poinso, *Institut des Mecanique des Fluides de Toulouse, France* (24, 3, p. 541) Article
- B08-066 Ultrasonic Propulsion.** Eric M. Allison, George S. Springer, and Jacques Van Dam, *Stanford University* (24, 3, p. 547) Article
- B08-067 Particle Simulation of Plume Flows from an Anode-Layer Hall Thruster.** Yongjun Choi, Michael Keidar, and Iain D. Boyd, *University of Michigan* (24, 3, p. 554) Article based on AIAA Paper 2006-5026
- B08-068 Numerical and Experimental Investigations of Crossover Ion Impingement for Subscale Ion Optics.** Joseph J. Wang, Yong Cao, and Raed Kafafy, *Virginia Polytechnic Institute and State University*; Rafael Martinez and John Williams, *Colorado State University* (24, 3, p. 562) Article based on AIAA Paper 2007-5244
- B08-069 Relationship Between Anode Spots and Onset Voltage Hash in Magnetoplasmadynamic Thrusters.** Luke Uribarri and Edgar Y. Choueiri, *Princeton University* (24, 3, p. 571) Article
- B08-070 Compact Reverse Water-Gas-Shift Reactor for Extraterrestrial In Situ Resource Utilization.** J. D. Holladay, K. P. Brooks, P. Humble, and J. Hu, *Pacific Northwest National Laboratory*; and T. M. Simon, *NASA Johnson Space Center* (24, 3, p. 578) Article
- B08-071 Hydrogen-Peroxide-Based Fuel Cells for Space Power Systems.** Nie Luo, George H. Miley, Richard J. Gimlin, and Rodney L. Burton, *University of Illinois*; John Rusek, *Swift Enterprises, Ltd.*; and Frank Holcomb, *U.S. Army Engineer Research and Development Center* (24, 3, p. 583) Article based on AIAA Paper 2005-5755
- B08-072 Microphysical Modeling of Ground-Level Aircraft-Emitted Aerosol Formation: Roles of Sulfur-Containing Species.** Hsi-Wu Wong, Paul E. Yelvington, Michael T. Timko, Timothy B. Onasch, and Richard C. Miake-Lye, *Aerodyne Research, Inc.*; Jianye Zhang and Ian A. Waitz, *Massachusetts Institute of Technology* (24, 3, p. 590) Article
- B08-073 Effect of Biodiesel Fuel on Direct Injection Diesel Engine Performance.** M. Arai, T. Saito, and T. Furuhashi, *Gunma University, Japan* (24, 3, p. 603) Article
- B08-074 Expectations of Closed-Brayton-Cycle Heat Exchangers in Space Power Systems.** Michael J. Barrett, *NASA John H. Glenn Research Center at Lewis Field*; and Paul K. Johnson, *Analex Corporation* (24, 3, p. 609) Technical Note based on AIAA Paper 2004-5652
- B08-074E Erratum on Expectations of Closed-Brayton-Cycle Heat Exchangers in Space Power Systems.** Michael J. Barrett, *NASA John H. Glenn Research Center at Lewis Field*; and Paul K. Johnson, *Analex Corporation* (24, 4, p. 896)
- B08-075 Infrared Signature Suppression of Helicopter Engine Duct Based on "Conceal and Camouflage."** S. P. Mahulikar, H. S. S. Prasad, and S. K. Potnuru, *Indian Institute of Technology, Bombay, India* (24, 3, p. 613) Technical Note
- B08-076 Application of a Composition-Explicit Distillation Curve Metrology to Mixtures of Jet-A and S-8.** Beverly L. Smith and Thomas J. Bruno, *National Institute of Standards and Technology* (24, 3, p. 618) Technical Note
- B08-077 Implications of Day Temperature for a High-Pressure-Turbine Blade's Low-Cycle-Fatigue Life Consumption.** Muhammad Naeem, *National University of Sciences and Technology Pakistan* (24, 3, p. 624) Technical Note
- B08-078 Nonlinear Interactions Between Forced and Self-Excited Acoustic Oscillations in Premixed Combustor.** Benjamin D. Bellows, Alex Hreiz, and Tim Lieuwen, *Georgia Institute of Technology* (24, 3, p. 628) Technical Note based on AIAA Paper 2006-0755
- B08-079 A Starting Procedure of Supersonic Ejector to Minimize Primary Pressure Load.** Geunhong Park, Sehoon Kim, and Sejin Kwon, *Korea Advanced Institute of Science and Technology, Republic of Korea* (24, 3, p. 631) Technical Note
- B08-080 Performance of Aft-Ramp Cavities for Flame Stabilization in Supersonic Flows.** M. C. Mohamed Ali, *Thangul Kunju Musaliar College of Engineering, India*; and Job Kurian, *Indian Institute of Technology, India* (24, 3, p. 635) Technical Note
- B08-081 Corruption of Pulsed Electric Thruster Voltage Fluctuation Measurements by Transmission Line Resonances.** Luke Uribarri and E. Y. Choueiri, *Princeton University* (24, 3, p. 637) Technical Note based on AIAA Paper 2007-5295
- B08-082 Plasma-Assisted Ignition in Scramjets.** Lance S. Jacobsen, Campbell D. Carter, Thomas A. Jackson, Skip Williams, and Jack Barnett, *U.S. Air Force Research Laboratory*; Chung-Jen Tam and Robert Baurle, *Tiatch, Inc.*; Daniel Bivolaru and Spencer Kuo, *Polytechnic University* (24, 4, p. 641) Article based on AIAA Paper 2003-871

- B08-083 Analytical Computation of Leading-Edge Truncation Effects on Inviscid Busemann-Inlet Performance.** Timothy F. O'Brien and Jesse R. Colville, *Aerojet* (24, 4, p. 655) Article based on AIAA Paper 2007-26
- B08-084 Experimental Study of a Scramjet Nozzle Flow Using the Pressure-Sensitive-Paint Method.** C. Hirschen, A. Gülhan, W. H. Beck, and U. Henne, *DLR, German Aerospace Center, Germany* (24, 4, p. 662) Article based on AIAA Paper 2007-5088
- B08-085 Complex Wall Injector Array for High-Speed Combustors.** Joseph A. Schetz, Luca Maddalena, and Ryan Throckmorton, *Virginia Polytechnic Institute and State University*; and Reece Neel, *Aerosoft, Inc.* (24, 4, p. 673) Article based on AIAA Paper 2008-105
- B08-086 Effect of Liquid Injection on Acoustic Field from Supersonic Flow Past Cavities.** T. K. Ganesh Anavaradham, *Defence Research and Development Laboratory, India*; R. I. Sujith, O. J. Shreenivasan, and S. R. Chakravarthy, *Indian Institute of Technology Madras, India*; and S. Panneerselvam, *Defence Research and Development Laboratory, India* (24, 4, p. 681) Article
- B08-087 Flame Characteristics in Supersonic Combustor with Hydrogen Injection Upstream of Cavity Flameholder.** Ming-Bo Sun, Zhen-Guo Wang, Jian-Han Liang, and Hui Geng, *National University of Defense Technology, China (ROC)* (24, 4, p. 688) Article
- B08-088 Passive Control Techniques to Alleviate Supersonic Cavity Flow Oscillation.** Youngki Lee, *Poongsan Company, Republic of Korea*; Minsung Kang and Heuydong Kim, *Andong National University, Republic of Korea*; and Toshiaki Setoguchi, *Saga University, Japan* (24, 4, p. 697) Article
- B08-089 Extraction of One-Dimensional Flow Properties from Multidimensional Data Sets.** R. A. Baurle and R. L. Gaffney, *NASA Langley Research Center* (24, 4, p. 704) Article based on AIAA Paper 2007-0639
- B08-090 Computational Study on the Critical Nozzle Flow of High-Pressure Hydrogen Gas.** Jae-hyung Kim and Heuy-dong Kim, *Andong National University, Republic of Korea*; Toshiaki Setoguchi and Sigeru Matsuo, *Saga University, Japan* (24, 4, p. 715) Article
- B08-091 Unsteady Strong Shock Interactions in a Transonic Turbine: Experimental and Numerical Analysis.** Guillermo Paniagua, Tolga Yasa, and Adres de la Loma, *von Karman Institute, Belgium*; Lionel Castillon, *ONERA, France*; and Thomas Coton, *Societe Nationale d'Etude et de Construction de Moteurs d'Aviation, France* (24, 4, p. 722) Article based on AIAA Paper 2007-1218
- B08-092 Leakage Assessment of Pressure-Exchange Wave Rotors.** P. Akbari and M. R. Nalim, *Indiana University-Purdue University at Indianapolis*; E. S. Donovan and P. H. Snyder, *Rolls-Royce North American Technologies, Inc.—LibertyWorks* (24, 4, p. 732) Article based on AIAA Paper 2006-4449
- B08-093 Increasing Gas Turbine Blade Damping Through Cavities Filled with Viscoelastic Materials.** A. Nashif and P. Torvik, *Universal Technology Corporation*; U. Desai, *PPG Industries, Inc.*; J. Hansel and J. Henderson, *Universal Technology Corporation* (24, 4, p. 741) Article based on AIAA Paper 2007-5037
- B08-094 Exploring the Effects of Removing Process-Intrinsic Constraints on Gas Turbine Design.** Theo A. Bell, Jerome P. Jarrett, and P. John Clarkson, *University of Cambridge, United Kingdom* (24, 4, p. 751) Article
- B08-095 Adaptive Estimation Algorithm for Aircraft Engine Performance Monitoring.** Olivier Léonard, Sébastien Borguet, and Pierre Dewallef, *University of Liège, Belgium* (24, 4, p. 763) Article
- B08-096 Combustion Instability Problems Analysis for High-Pressure Jet Engine Cores.** Michel Cazalens, *Societe Nationale d'Etude et de Construction de Moteurs d'Aviation, France*; Sébastien Roux and Claude Sensiau, *Centre Europeen de Recherche et de Formation Avancee en Calcul Scientifique, France*; and Thierry Poinsot, *Institut de Mecanique des Fluides de Toulouse* (24, 4, p. 770) Article
- B08-097 Computational Methodology for Carbon Monoxide Emission for Aeroengine Combustor Design.** Michel Cazalens, Matthieu Rullaud, and Jean Philippe Frenillot, *Societe Nationale d'Etude et de Construction de Moteurs d'Aviation, France* (24, 4, p. 779) Article
- B08-098 Hydrocarbon Fuel Flash Vaporization for Pulsed Detonation Combustion.** K. C. Tucker, *U.S. Air Force Research Laboratory*; Paul I. King, *Air Force Institute of Technology*; and Frederick R. Schauer, *U.S. Air Force Research Laboratory* (24, 4, p. 788) Article
- B08-099 Experimental and Numerical Investigation of n-Heptane/Air Counterflow Nonpremixed Flame Structure.** P. Berta and S. K. Aggarwal, *University of Illinois at Chicago*; Ishwar K. Puri, *Virginia Polytechnic Institute and State University*; S. Granata, T. Faravelli, and E. Ranzi, *Politecnico di Milano, Italy* (24, 4, p. 797) Article
- B08-100 Ignition of Iron-Coated and Nickel-Coated Aluminum Particles Under Normal- and Reduced-Gravity Conditions.** Timothy A. Andrzejak, Evgeny Shafirovich, and Arvind Varma, *Purdue University* (24, 4, p. 805) Article based on AIAA Paper 2007-5646
- B08-101 Effects of Propellant Gases on Thermal Response of Solid Rocket Nozzle Liners.** Ki-Young Hwang and Yoo-Jin Yim, *Agency for Defense Development, Republic of Korea* (24, 4, p. 814) Article based on AIAA Paper 2008-4791
- B08-102 Chemical Erosion of Carbon-Carbon/Graphite Nozzles in Solid-Propellant Rocket Motors.** Piyush Thakre and Vigor Yang, *Pennsylvania State University*. (24, 4, p. 822) Article based on AIAA Paper 2007-5777
- B08-103 Ablative Impulse Characteristics of Polyacetal with Repetitive CO₂ Laser Pulses.** Koji Suzuki and Keisuke Sawada, *Tohoku University, Japan*; Ryota Takaya and Akihiro Sasoh, *Nagoya University, Japan* (24, 4, p. 834) Article based on AIAA Paper 2007-4389
- B08-104 Electron Dynamics After Exit Plane of Stationary Plasma Thruster Discharge Chamber.** Vyacheslav I. Kozlov, *Research Institute of Applied Mechanics and Electrodynamics, Russia* (24, 4, p. 842) Article
- B08-105 Role of Superconducting Shields in Electrodynamic Propulsion.** Juan R. Sanmartin, *Universidad Politecnica de Madrid, Spain*; and Enrico C. Lorenzini, *Universita di Padova, Italy* (24, 4, p. 851) Article
- B08-106 Wear Mechanisms in Electron Sources for Ion Propulsion, 1: Neutralizer Hollow Cathode.** Ioannis G. Mikellides and Ira Katz, *Jet Propulsion Laboratory, California Institute of Technology* (24, 4, p. 855) Article based on AIAA Paper 2007-5168
- B08-107 Wear Mechanisms in Electron Sources for Ion Propulsion, 2: Discharge Hollow Cathode.** Ioannis G. Mikellides, Ira Katz, Dan M. Goebel, Kristina K. Jameson, and James E. Polk, *Jet Propulsion Laboratory, California Institute of Technology* (24, 4, p. 866) Article based on AIAA Paper 2007-5192
- B08-108 Ion-Collision Emission Excitation Cross Sections for Xenon Electric Thruster Plasmas.** Jason D. Sommerville and Lyon B. King, *Michigan Technological University*; Yu-Hui Chiu and Rainer A. Dressler, *U.S. Air Force Research Laboratory*. (24, 4, p. 880) Article
- B08-109 Observation of Unsteady Cryogenic Flows from a Characteristic Coaxial Rocket Injector.** V. Gautam, M. B. Linck, and A. K. Gupta, *University of Maryland* (24, 4, p. 889) Technical Note

- B08-110 Inexpensive Optically Isolated Nanoammeter for Use with Micro-Newton Electric Propulsion Technology.** Karen L. Aplin, *Rutherford Appleton Laboratory, United Kingdom*; Katharine L. Smith, *University of London, United Kingdom*; John G. Firth and Barry J. Kent, *Rutherford Appleton Laboratory, United Kingdom*; Matthew S. Alexander and John P. Stark, *University of London, United Kingdom* (24, 4, p. 892) Technical Note
- B08-111 Virtual Shapes in Supersonic Flow Control with Energy Addition.** M. N. Shneider, S. O. Macheret, S. H. Zaidi, I. Girgis, and R. B. Miles, *Princeton University* (24, 5, p. 900) Article based on AIAA Paper 2003-3862
- B08-112 Numerical Simulation of Direct Current Glow Discharges for High-Speed Flow Control.** Jonathan Poggie, *U.S. Air Force Research Laboratory* (24, 5, p. 916) Article
- B08-113 Hypersonic Flow Control Using Surface Plasma Actuator.** J. S. Shang, *Wright State University*; R. L. Kimmel, *U.S. Air Force Research Laboratory*; J. Menart, *Wright State University*; and S. T. Surzhikov, *Russian Academy of Sciences, Russia* (24, 5, p. 923) Article
- B08-114 Single-Dielectric Barrier Discharge Plasma Enhanced Aerodynamics: Concepts, Optimization, and Applications.** Thomas C. Corke, *University of Notre Dame*; Martiqua L. Post and Dmitriy M. Orlov, *U.S. Air Force Academy* (24, 5, p. 935) Article
- B08-115 High-Speed Magnetohydrodynamic Flow Control Analyses with Three-Dimensional Simulations.** Datta V. Gaitonde, *U.S. Air Force Research Laboratory* (24, 5, p. 946) Article
- B08-116 Microwave Discharges and Possible Applications in Aerospace Technologies.** Kirill V. Khodataev, *Russian Academy of Sciences, Russia* (24, 5, p. 962) Article
- B08-117 Measurement of 30-Centimeter Ion Thruster Discharge Cathode Erosion.** G. J. Williams Jr., *Ohio Aerospace Institute*; T. B. Smith and A. D. Gallimore, *University of Michigan* (24, 5, p. 973) Article
- B08-118 Molecular Dynamics Simulation of Ion Emission from Nanodroplets of Ionic Liquids.** John W. Daily, *University of Colorado* (24, 5, p. 981) Article
- B08-119 Hybrid Particle-in-Cell Erosion Modeling of Two Hall Thrusters.** Shannon Y. Cheng and Manuel Martinez-Sanchez, *Massachusetts Institute of Technology* (24, 5, p. 987) Article
- B08-120 Numerical Analyses of Exhaust and Refill Processes of a Laser Pulse Jet.** Hiroshi Katsurayama, *Japan Aerospace Exploration Agency, Japan*; Kimiya Komurasaki, Yasuro Hirooka, Koichi Mori, and Yoshihiro Arakawa, *University of Tokyo, Japan* (24, 5, p. 999) Article
- B08-121 Performance Modeling of a Coaxial Radio-Frequency Gas-Discharge Microthruster.** William B. Stein, Alina A. Alexeenko, and Ivana Hrbud, *Purdue University* (24, 5, p. 1007) Article based on AIAA Paper 2007-5292
- B08-122 Solar Cell Modeling and Parameter Optimization Using Simulated Annealing.** Samina Asif and Yun Li, *University of Glasgow, United Kingdom* (24, 5, p. 1018) Article based on AIAA Paper 2007-4770
- B08-123 Experimental Investigation of a Two-Dimensional and a Three-Dimensional Scramjet Inlet at Mach 7.** J. Häberle and A. Gülhan, *DLR, German Aerospace Center, Germany* (24, 5, p. 1023) Article
- B08-124 Shock Train Leading-Edge Detection in a Dual-Mode Scramjet.** D. B. Le, C. P. Goyne, and R. H. Krauss, *University of Virginia* (24, 5, p. 1035) Article based on AIAA Paper 2006-0815
- B08-125 Limiting Contractions for Starting Simple Ramp-Type Scramjet Intakes with Overboard Spillage.** Xavier Veillard, Rabi Tahir, and Evgeny Timofeev, *McGill University, Canada*; and Sannu Molder, *Smart Aeronautics, Canada* (24, 5, p. 1042) Article
- B08-126 Experimental Study of a Dual-Mode Scramjet Isolator.** D. B. Le, C. P. Goyne, R. H. Krauss, and J. C. McDaniel, *University of Virginia* (24, 5, p. 1050) Article based on AIAA Paper 2005-0023
- B08-127 Analytical Solution for Pressure-Coupled Combustion Response Functions of Composite Solid Propellants.** Michael Shusser and Fred E. C. Culick, *California Institute of Technology*; and Norman S. Cohen, *Cohen Professional Services* (24, 5, p. 1058) Article based on AIAA Paper 2001-3426
- B08-128 Combustion Mechanism of Ammonium-Nitrate-Based Propellants.** Valery P. Sinditskii and Viacheslav Y. Egorshv, *Mendeleev University of Chemical Technology, Russia*; Derek Tomasi and Luigi T. DeLuca, *Politecnico di Milano, Italy* (24, 5, p. 1068) Article
- B08-129 Chemi-Ion-Current-Induced Dissociative Recombination in Premixed Hydrocarbon/Air Flames.** David L. Wisman, *UES, Inc.*; S. D. Marcum, *Miami University*; and Biswa N. Ganguly, *U.S. Air Force Research Laboratory* (24, 5, p. 1079) Article
- B08-130 Elevated Pressure Thermal Experiments and Modeling Studies on the Water-Gas Shift Reaction.** Brad Culbertson, Raghu Sivaramakrishnan, and Kenneth Brezinsky, *University of Illinois at Chicago* (24, 5, p. 1085) Article
- B08-131 Multiple Objective Optimization and Inverse Design of Axial Turbomachinery Blades.** Francesco Larocca, *Politecnico di Torino, Italy* (24, 5, p. 1093) Article
- B08-132 Parametric Study of Injection Angle Effects on Stability of Transonic Axial Compressors.** H. Khaleghi, *Amirkabir University of Technology, Iran*; J. A. Teixeira, *Cranfield University, United Kingdom*; A. M. Tousi and M. Boroomand, *Amirkabir University of Technology, Iran* (24, 5, p. 1100) Article
- B08-133 Desensitization of the Flowfield from Rotor Tip-Gap Height by Casing-Air Injection.** Thomas Behr, *ETH Zurich, Switzerland*; Anestis I. Kalfas, *Aristotle University of Thessaloniki, Greece*; and Reza S. Abhari, *ETH Zurich, Switzerland* (24, 5, p. 1108) Article based on AIAA Paper 2007-1221
- B08-134 Flow Study of a Redesigned High-Pressure-Ratio Centrifugal Compressor.** H. Krain and B. Hoffmann, *DLR, German Aerospace Center, Germany* (24, 5, p. 1117) Article based on AIAA Paper 2007-1223
- B08-135 Characterization of a Prefilming Airblast Atomizer in a Strong Swirl Flowfield.** R. Kumara Gurubaran, R. I. Sujith, and S. R. Chakravarthy, *Indian Institute of Technology, India* (24, 5, p. 1124) Article based on AIAA Paper 2005-4148
- B08-136 Detached-Eddy Simulation of a Louver-Cooling Scheme for Turbine Blades.** C. X-Z. Zhang, S. I. Kim, and I. Hassan, *Concordia University, Canada* (24, 5, p. 1133) Article
- B08-137 Electromagnetic Flow Sensor for Liquid Metal-Fed Electric Propulsion.** Kurt A. Polzin, Thomas E. Markusic, Boris J. Stanojev, Chris Dodson, and Amado DeHoyos, *NASA Marshall Space Flight Center* (24, 5, p. 1141) Technical Note
- B08-138 Moderate-Acceleration Launch Using Repetitive-Pulse Laser Ablation in a Tube.** Akihiro Sasoh and Shingo Suzuki, *Nagoya University, Japan*; Masaya Shimono and Keisuke Sawada, *Tohoku University, Japan* (24, 5, p. 1144) Technical Note based on AIAA Paper 2008-1088
- B08-139 Ducted Wind/Water Turbines and Propellers Revisited.** M. J. Werle and W. M. Presz Jr., *FloDesign Inc.* (24, 5, p. 1146) Technical Note
- B08-143 Survey of Aerodynamic Drag Reduction at High Speed by Energy Deposition.** D. Knight, *Rutgers University* (24, 6, p. 1153) Article
- B08-144 Near-Surface Electrical Discharge in Supersonic Airflow: Properties and Flow Control.** Sergey B. Leonov and Dmitry A. Yarantsev, *Russian Academy of Sciences, Russia* (24, 6, p. 1168) Article

- B08-145 Nanosecond-Pulsed Discharges for Plasma-Assisted Combustion and Aerodynamics.** Andrei Y. Starikovskii, Nikolai B. Anikin, Ilya N. Kosarev, Eugeny I. Mintousov, Maria M. Nudnova, Alexander E. Rakitin, Dmitry V. Roupasov, Svetlana M. Starikovskaia, and Victor P. Zhukov, *Moscow Institute of Physics and Technology, Russia* (24, 6, p. 1182) Article
- B08-146 Repetitively Pulsed Nonequilibrium Plasmas for Magneto-hydrodynamic Flow Control and Plasma-Assisted Combustion.** Igor V. Adamovich, Walter R. Lempert, Munetake Nishihara, J William Rich, and Yurii G. Utkin, *The Ohio State University* (24, 6, p. 1198) Article
- B08-147 Characteristics of Gliding Arc and its Application in Combustion Enhancement.** Alexander Fridman, Alexander Gutsol, and Shailesh Gangoli, *Drexel University*; Yiguang Ju and Timothy Ombrello, *Princeton University* (24, 6, p. 1216) Article
- B08-148 Atmospheric Cruise Flight Challenges for Hypersonic Vehicles Under the Ajax Concept.** Alexander Kuranov and Alexey Korabelnikov, *Leninetz Holding Company, Russia* (24, 6, p. 1229) Article
- B08-149 Radical-Farm Ignition Processes in Two-Dimensional Supersonic Combustion.** J. R. McGuires, R. R. Boyce, and N. R. Mudford, *University of New South Wales, Australian Defense Force Academy, Australia* (24, 6, p. 1248) Article
- B08-150 Investigation of Supersonic Combustion with Angled Injection in a Cavity-Based Combustor.** Eunju Jeong and In-Seuck Jeung, *Seoul National University, Republic of Korea*; Sean O'Byrne, *University of New South Wales, Australian Defense Force Academy, Australia*; and A. F. P. Houwing, *Australian National University, Australia* (24, 6, p. 1258) Article based on AIAA Paper 2006-7918
- B08-151 Contrarotating Turbine Aerodesign for an Advanced Hypersonic Propulsion System.** Guillermo Paniagua and Szabolcs Szokol, *von Karman Institute, Belgium*; Hiromasa Kato and Giovanni Manzini, *Cenaero, Belgium*; and Richard Varvill, *Reaction Engines, Ltd., United Kingdom* (24, 6, p. 1269) Article based on AIAA Paper 2007-1341
- B08-152 Spanwise Wake and Discrete Jet Disturbances on a Separating Turbine Blade.** D. Reimann, M. Bloxham, J. Pluim, and J. Bons, *Brigham Young University* (24, 6, p. 1278) Article based on AIAA Paper 2007-0525
- B08-153 Detached-Eddy Simulation Procedure Targeted for Design.** Roger L. Davis, *University of California, Davis*; and John F. Dannenhoffer III, *Syracuse University* (24, 6, p. 1287) Article based on AIAA Paper 2008-534
- B08-154 Tip Clearance Effect on the Performance of a Shrouded Supersonic Impulse Turbine.** Eunhwan Jeong, Hang-Gi Lee, Pyun-Goo Park, and Jinhan Kim, *Korea Aerospace Research Institute, Republic of Korea* (24, 6, p. 1295) Article
- B08-155 Flow Structure of Short-Length-Scale Disturbance in an Axial-Flow Compressor.** Feng Lin, *Chinese Academy of Sciences, China (ROC)*; Jingxuan Zhang, *Beijing University of Aeronautics and Astronautics, China (ROC)*; Jingyi Chen and Chaoqun Nie, *Chinese Academy of Sciences, China (ROC)* (24, 6, p. 1301) Article
- B08-156 Simulation of Icing on a Cascade of Stator Blades.** Sang Lee and Eric Loth, *University of Illinois-Champaign* (24, 6, p. 1309) Article based on AIAA Paper 2006-208
- B08-157 Performance Studies of Pulse Detonation Engine Ejectors.** Daniel Allgood and Ephraim Gutmark, *University of Cincinnati*; John Hoke and Royce Bradley, *Innovative Scientific Solutions, Inc.*; and Fred Schauer, *U.S. Air Force Research Laboratory* (24, 6, p. 1317) Article based on AIAA Paper 2005-0223
- B08-158 Study on the Operation of Pulse-Detonation Engine-Driven Ejectors.** Aaron J. Glaser, Nicholas Caldwell, and Ephraim Gutmark, *University of Cincinnati*; John Hoke and Royce Bradley, *Innovative Scientific Solutions, Inc.*; and Frederick Schauer, *U.S. Air Force Research Laboratory* (24, 6, p. 1324) Article based on AIAA Paper 2007-0447
- B08-159 Spray Characteristics of Recessed Gas-Liquid Coaxial Swirl Injector.** Li-jun Yang and Ming-he Ge, *Beijing University, China (ROC)*; Meng-zheng Zhang, *Northwestern Polytechnical University, China (ROC)*; Qing-fei Fu and Guo-biao Cai, *Beijing University, China (ROC)* (24, 6, p. 1332) Article
- B08-160 Opportunities for a Liquid Rocket Feed System Based on Electric Pumps.** N. Solda and D. Lentini, *University of Rome "La Sapienza," Italy* (24, 6, p. 1340) Article
- B08-161 Inert Particles for Axial-Combustion-Instability Suppression in a Solid Rocket Motor.** David R. Greatrix, *Ryerson University, Canada* (24, 6, p. 1347) Article based on AIAA Paper 2007-5804
- B08-162 Laser-Assisted Combustion of Solid Propellants at Low Pressures.** Akira Kakami and Ryoma Hiyamizu, *Kyushu Institute of Technology, Japan*; Kiyotaka Shuzenji, *Fukuoka Industrial Technology Center, Japan*; and Takeshi Tachibana, *Kyushu Institute of Technology, Japan* (24, 6, p. 1355) Article based on AIAA Paper 2007-5783
- B08-163 Dormant Cathode Erosion in a Multiple-Cathode Gridded Ion Thruster.** Joshua L. Rovey and Alec D. Gallimore, *University of Michigan* (24, 6, p. 1361) Article
- B08-164 Geosynchronous-Earth-Orbit Communication Satellite Deliveries with Integrated Electric Propulsion.** John W. Dankanich, *Gray Research, Inc.*; and David C. Byers (24, 6, p. 1369) Article
- B08-165 Thrust Stand Micromass Balance for the Direct Measurement of Specific Impulse.** Andrew D. Ketsdever, *University of Colorado at Colorado Springs*; Brian C. D'Souza and Riki H. Lee, *University of Southern California, Los Angeles* (24, 6, p. 1376) Article based on AIAA Paper 2007-5300
- B08-166 Characterization of an Acoustically Self-Excited Combustor for Spray Evaporation.** R. Balachandran, S. R. Chakravarthy, and R. I. Sujith, *Indian Institute of Technology Madras, India* (24, 6, p. 1382) Article based on AIAA Paper 2003-0502
- B08-167 Dynamics of Laminar Premixed Flames Forced by Harmonic Velocity Disturbances.** Preetham, *GE Global Research*; Santosh Hemchandra and Tim Lieuwen, *Georgia Institute of Technology* (24, 6, p. 1390) Article
- B08-168 Combustion of Decane-Based Slurries with Metallic Fuel Additives.** E. Beloni, V. K. Hoffmann, and E. L. Dreizin, *New Jersey Institute of Technology* (24, 6, p. 1403) Article based on AIAA Paper 2007-1431
- B08-169 Exact Navier-Stokes Solution for the Pulsatory Viscous Channel Flow with Arbitrary Pressure Gradient.** J. Majdalani, *University of Tennessee Space Institute* (24, 6, p. 1412) Article