

## Peer Reviewed User Publications

- On Mitral Valve Dynamics and its Connection to Early Diastolic Flow:* Arash Kheradvar and Morteza Gharib; *Annals of Biomedical Engineering*: 37, Issue 1; 2009.
- A Novel, Low Cost, Disposable, Pediatric Pulsatile Rotary Ventricular Pump For Cardiac Surgery that Provides a Physiological Flow Pattern:* Mazur, Daniel E.; Osterholzer, Kathryn R.; Toomasian, John M.; Merz, Scott I.; *ASAIO Journal*: 54, Issue 5; 523-528; 2008.
- Effect of oscillation on elevating shear stresses:* A. A. Sakhaeimanesh; *Journal of Medical Engineering & Technology*: 32, Issue 6; 434 – 439; 2008.
- Systemic pressure does not directly affect pressure gradient and valve area estimates in aortic stenosis in vitro:* Julia Mascherbauer, Christina Fuchs, Martin Stoiber, Heinrich Schima, Elisabeth Pernicka, Gerald Maurer and Helmut Baumgartner; *European Heart Journal*: 29, Issue 16; 2049-2057; 2008.
- Correlation Between Vortex Ring Formation and Mitral Annulus Dynamics During Ventricular Rapid Filling:* Kheradvar, Arash; Milano, Michele; Gharib, Morteza; *ASAIO Journal*: 53, Issue 1; 8-16; 2007.
- Flow Visualization Through Two Types of Aortic Prosthetic Heart Valves Using Stereoscopic High-speed Particle Image Velocimetry:* Radoslav Kaminsky, Stephan Kallweit, Hans-Joachim Weber, Tom Claessens, Krzysztof Jozwik, and Pascal Verdonck; *Artificial Organs*: 31, Issue 12; 869 - 879; 2007.
- Influence of Ventricular Pressure Drop on Mitral Annulus Dynamics Through the Process of Vortex Ring Formation:* Arash Kheradvar and Morteza Gharib; *Annals of Biomedical Engineering*: 35, Issue 12; 2050-2064; 2007.
- Shear Stress Investigation Across Mechanical Heart Valve:* Zhang, Pei; Yeo, Joon Hock; Qian, Ping; Hwang, Ned H. C.; *ASAIO Journal*: 53, Issue 5; 530-536; 2007.
- An In Vitro Study of Changing Profile Heights in Mitral Bioprostheses and Their Influence on Flow:* Kheradvar, Arash; Kasalko, Jeff; Johnson, Derrick; Gharib, Morteza; *ASAIO Journal*: 52, Issue 1; 34-38; 2006.
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- Cavitation Behavior of Three Monoleaflet Valves Under Accelerated Testing:* Lo, Chi-Wen; Liu, Jia-Shing; Lu, Po-Chien; Hwang, Ned H; *ASAIO Journal*: 52, Issue 2; 1A; 2006.
- Development of Squeeze Flow in Mechanical Heart Valve: A Particle Image Velocimetry Investigation:* Zhang, Pei; Yeo, Joon Hock; Hwang, N H. C.; *ASAIO Journal*: 52, Issue 4; 391-397; 2006.

- Faster flow quantification using sensitivity encoding for velocity-encoded cine magnetic resonance imaging: In vitro and in vivo validation:* Ashwin Prakash, MD, Ruchira Garg, MD, Edward N. Marcus, MSc, Glenn Reynolds, PhD, Tal Geva, MD, Andrew J. Powell, MD; *Journal of Magnetic Resonance Imaging*: 24, Issue 3; 676 - 682; 2006.
- In Vitro 3D High Speed Piv Measurements Behind An Aortic Artificial Heart Valve:* Kaminsky, Radoslav; Kallweit, Stephan; Weber, Hans J.; Simons, Antoine P.; Verdonck, Pascal; *ASAIO Journal*: 52, Issue 2; 4A; 2006.
- Morphologic Evaluation of Autologous in Situ Tissue-Engineered Small Intestine:* Nakase, Yuen; Hagiwara, Akeo; Nakamura, Tatsuo; Nakashima, Susumu; Ikada, Yoshihito; Yamagishi, Hisakazu; *ASAIO Journal*: 52, Issue 2; 3A; 2006.
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