

Stanford

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Publications

PUBLICATIONS

- **Elevated uptake of plasma macromolecules by regions of arterial wall predisposed to plaque instability in a mouse model.** *PLoS one*
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- **Computation in the rabbit aorta of a new metric - the transverse wall shear stress - to quantify the multidirectional character of disturbed blood flow.** *Journal of biomechanics*
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2013; 46 (15): 2651-8
- **Does low and oscillatory wall shear stress correlate spatially with early atherosclerosis? A systematic review.** *Cardiovascular research*
Peiffer, V., Sherwin, S. J., Weinberg, P. D.
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- **Variability of computational fluid dynamics solutions for pressure and flow in a giant aneurysm: the ASME 2012 Summer Bioengineering Conference CFD Challenge.** *Journal of biomechanical engineering*
Steinman, D. A., Hoi, Y., Fahy, P., Morris, L., Walsh, M. T., Aristokleous, N., Anayiotis, A. S., Papaharilaou, Y., Arzani, A., Shadden, S. C., Berg, P., Janiga, G., Bols, et al
2013; 135 (2): 021016-?
- **A novel method for quantifying spatial correlations between patterns of atherosclerosis and hemodynamic factors.** *Journal of biomechanical engineering*
Peiffer, V., Bharath, A. A., Sherwin, S. J., Weinberg, P. D.
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- **Effect of aortic taper on patterns of blood flow and wall shear stress in rabbits: association with age.** *Atherosclerosis*
Peiffer, V., Rowland, E. M., Cremers, S. G., Weinberg, P. D., Sherwin, S. J.
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- **Reducing the data: Analysis of the role of vascular geometry on blood flow patterns in curved vessels** *PHYSICS OF FLUIDS*
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- **A hybrid bioregulatory model of angiogenesis during bone fracture healing.** *Biomechanics and modeling in mechanobiology*
Peiffer, V., Gerisch, A., Vandepitte, D., Van Oosterwyck, H., Geris, L.
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