

Kevin Cassel

List of Publications by Year in descending order

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31
papers

561
citations

759233

12
h-index

642732

23
g-index

33
all docs

33
docs citations

33
times ranked

402
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent progress in neutrino factory and muon collider research within the Muon Collaboration. <i>Physical Review Special Topics: Accelerators and Beams</i> , 2003, 6, .	1.8	123
2	The onset of instability in unsteady boundary-layer separation. <i>Journal of Fluid Mechanics</i> , 1996, 315, 223-256.	3.4	53
3	Navier–Stokes solutions of unsteady separation induced by a vortex. <i>Journal of Fluid Mechanics</i> , 2002, 465, 99-130.	3.4	39
4	An instability in supersonic boundary-layer flow over a compression ramp. <i>Journal of Fluid Mechanics</i> , 1995, 300, 265-285.	3.4	38
5	Hemodynamics in the cephalic arch of a brachiocephalic fistula. <i>Medical Engineering and Physics</i> , 2014, 36, 822-830.	1.7	34
6	Characteristic differences in cephalic arch geometry for diabetic and non-diabetic ESRD patients. <i>Nephrology Dialysis Transplantation</i> , 2009, 24, 2190-2194.	0.7	27
7	Analysis of complex singularities in high-Reynolds-number Navier–Stokes solutions. <i>Journal of Fluid Mechanics</i> , 2014, 747, 381-421.	3.4	25
8	Increased Inlet Blood Flow Velocity Predicts Low Wall Shear Stress in the Cephalic Arch of Patients with Brachiocephalic Fistula Access. <i>PLoS ONE</i> , 2016, 11, e0152873.	2.5	23
9	A comparison of Navier-Stokes solutions with the theoretical description of unsteady separation. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2000, 358, 3207-3227.	3.4	21
10	The influence of wall cooling on hypersonic boundary-layer separation and stability. <i>Journal of Fluid Mechanics</i> , 1996, 321, 189-216.	3.4	14
11	Unsteady separation in vortex-induced boundary layers. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2014, 372, 20130348.	3.4	14
12	On the origins of vortex shedding in two-dimensional incompressible flows. <i>Theoretical and Computational Fluid Dynamics</i> , 2016, 30, 511-527.	2.2	14
13	On the ejection-induced instability in Navier–Stokes solutions of unsteady separation. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2005, 363, 1189-1198.	3.4	12
14	A pressure-gradient mechanism for vortex shedding in constricted channels. <i>Physics of Fluids</i> , 2013, 25, 123603.	4.0	12
15	Detachment of the Dynamic-Stall Vortex Above a Moving Surface. <i>AIAA Journal</i> , 2002, 40, 1811-1822.	2.6	10
16	A predictive framework to elucidate venous stenosis: CFD & shape optimization. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2017, 321, 46-69.	6.6	9
17	A cohort study showing correspondence of low wall shear stress and cephalic arch stenosis in brachiocephalic arteriovenous fistula access. <i>Journal of Vascular Access</i> , 2021, 22, 380-387.	0.9	8
18	The effect of convective heat transfer on unsteady boundary-layer separation. <i>Journal of Fluid Mechanics</i> , 2001, 428, 107-131.	3.4	7

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19	A Rayleigh instability in a vortex-induced unsteady boundary layer. <i>Physica Scripta</i> , 2010, T142, 014006.	2.5	7
20	Are Non-Newtonian Effects Important in Hemodynamic Simulations of Patients With Autogenous Fistula?. <i>Journal of Biomechanical Engineering</i> , 2017, 139, .	1.3	6
21	Restoration of wall shear stress in the cephalic vein during extreme hemodynamics. <i>Journal of Medical Engineering and Technology</i> , 2018, 42, 617-627.	1.4	6
22	Energy absorber R&D. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2001, 472, 632-638.	1.6	4
23	Current LH2-absorber R&D in MuCool. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2003, 29, 1689-1692.	3.6	4
24	Viscous-Inviscid Interactions in a Boundary-Layer Flow Induced by a Vortex Array. <i>Acta Applicandae Mathematicae</i> , 2014, 132, 295-305.	1.0	4
25	Instabilities and Vorticity Shedding in Wall-Bounded Flows. , 2004, , .		1
26	Detachment of the dynamic-stall vortex above a moving surface. <i>AIAA Journal</i> , 2002, 40, 1811-1822.	2.6	1
27	Detachment of the dynamic-stall vortex above a moving surface. , 2001, , .		0
28	A Rayleigh Instability in Navier-Stokes Solutions of an Unsteady Boundary Layer. , 2005, , .		0
29	Introduction: 23rd Annual Gallery of Fluid Motion (Chicago, Illinois, 2005). <i>Physics of Fluids</i> , 2006, 18, 091101.	4.0	0
30	Suppression of Unsteady Boundary-Layer Separation Using Sub-Optimal Control. , 2009, , .		0
31	Vortex-Shedding Mechanisms in Internal Flows. , 2010, , .		0