# Claudio Capelli

List of Publications by Year
in descending order



| 16 | 705 | 623188 | 996533 |
|---|---|---|---|
| papers | citations | 14 h-index | 15 g-index |

| 17 | 17 | 17 | 794 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | First-in-man implantation of a novel percutaneous valve: a new approach to medical device development. EuroIntervention, 2010, 5, 745-750. | 1.4 | 117 |
| 2 | Piloting the Use of Patient-Specific Cardiac Models as a Novel Tool to Facilitate Communication During Cinical Consultations. Pediatric Cardiology, 2017, 38, 813-818. | 0.6 | 88 |
| 3 | Use of 3D models of congenital heart disease as an education tool for cardiac nurses. Congenital Heart Disease, 2017, 12, 113-118. | 0.0 | 82 |
| 4 | Patient specific finite element analysis results in more accurate prediction of stent fractures: Application to percutaneous pulmonary valve implantation. Journal of Biomechanics, 2010, 43, 687-693. | 0.9 | 79 |
| 5 | A statistical shape modelling framework to extract 3D shape biomarkers from medical imaging data: assessing arch morphology of repaired coarctation of the aorta. BMC Medical Imaging, 2016, 16, 40. | 1.4 | 65 |
| 6 | Computational modelling for congenital heart disease: how far are we from clinical translation?. Heart, 2017, 103, 98-103. | 1.2 | 55 |
| 7 | Patient-specific reconstructed anatomies and computer simulations are fundamental for selecting medical device treatment: application to a new percutaneous pulmonary valve. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2010, 368, 3027-3038. | 1.6 | 51 |
| 8 | Patient-specific simulations for planning treatment in congenital heart disease. Interface Focus, 2018, 8, 20170021. | 1.5 | 35 |
| 9 | Pledget-Armed Sutures Affect the Haemodynamic Performance of Biologic Aortic Valve Substitutes: A Preliminary Experimental and Computational Study. Cardiovascular Engineering and Technology, 2017, 8, 17-29. | 0.7 | 30 |
| 10 | Patientâ€specific finite element models to support clinical decisions: A lesson learnt from a case study of percutaneous pulmonary valve implantation. Catheterization and Cardiovascular Interventions, 2015, 86, 1120-1130. | 0.7 | 21 |
| 11 | Patient-specific computational models to support interventional procedures: a case study of complex aortic re-coarctation. EuroIntervention, 2015, 11, 669-672. | 1.4 | 20 |
| 12 | Finite Element Strategies to Satisfy Clinical and Engineering Requirements in the Field of Percutaneous Valves. Annals of Biomedical Engineering, 2012, 40, 2663-2673. | 1.3 | 17 |
| 13 | Geometrical and Stress Analysis of Factors Associated With Stent Fracture After Melody Percutaneous Pulmonary Valve Implantation. Circulation: Cardiovascular Interventions, 2014, 7, 510-517. | 1.4 | 17 |
| 14 | How do angioplasty balloons work: a computational study on balloon expansion forces. EuroIntervention, 2010, 6, 638-642. | 1.4 | 16 |
| 15 | Characterization of Flow Dynamics in the Pulmonary Bifurcation of Patients With Repaired Tetralogy of Fallot: A Computational Approach. Frontiers in Cardiovascular Medicine, 2021, 8, 703717. | 1.1 | 12 |
| 16 | Patient-Specific Simulations in Interventional Cardiology Practice: Early Results From a Clinical/Engineering Centre. , 2013, , . | | 0 |