

Andrea Remuzzi

List of Publications by Citations

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154
papers

9,289
citations

49
h-index

94
g-index

162
ext. papers

10,683
ext. citations

7.1
avg, IF

7.27
L-index

| # | Paper | IF | Citations |
|-----|---|------|-----------|
| 154 | COVID-19 and Italy: what next?. <i>Lancet, The</i> , 2020 , 395, 1225-1228 | 40 | 1727 |
| 153 | An image-based modeling framework for patient-specific computational hemodynamics. <i>Medical and Biological Engineering and Computing</i> , 2008 , 46, 1097-112 | 3.1 | 479 |
| 152 | Mechanisms of progression and regression of renal lesions of chronic nephropathies and diabetes. <i>Journal of Clinical Investigation</i> , 2006 , 116, 288-96 | 15.9 | 418 |
| 151 | Nitric oxide synthesis by cultured endothelial cells is modulated by flow conditions. <i>Circulation Research</i> , 1995 , 76, 536-43 | 15.7 | 371 |
| 150 | Human bone marrow mesenchymal stem cells accelerate recovery of acute renal injury and prolong survival in mice. <i>Stem Cells</i> , 2008 , 26, 2075-82 | 5.8 | 326 |
| 149 | Chronic kidney disease and cardiovascular risk in six regions of the world (ISN-KDDC): a cross-sectional study. <i>The Lancet Global Health</i> , 2016 , 4, e307-19 | 13.6 | 195 |
| 148 | A framework for geometric analysis of vascular structures: application to cerebral aneurysms. <i>IEEE Transactions on Medical Imaging</i> , 2009 , 28, 1141-55 | 11.7 | 193 |
| 147 | Safety and efficacy of long-acting somatostatin treatment in autosomal-dominant polycystic kidney disease. <i>Kidney International</i> , 2005 , 68, 206-16 | 9.9 | 189 |
| 146 | Effect of longacting somatostatin analogue on kidney and cyst growth in autosomal dominant polycystic kidney disease (ALADIN): a randomised, placebo-controlled, multicentre trial. <i>Lancet, The</i> , 2013 , 382, 1485-95 | 40 | 180 |
| 145 | Effects of combined ACE inhibitor and angiotensin II antagonist treatment in human chronic nephropathies. <i>Kidney International</i> , 2003 , 63, 1094-103 | 9.9 | 140 |
| 144 | Recellularization of well-preserved acellular kidney scaffold using embryonic stem cells. <i>Tissue Engineering - Part A</i> , 2014 , 20, 1486-98 | 3.9 | 134 |
| 143 | Sirolimus therapy to halt the progression of ADPKD. <i>Journal of the American Society of Nephrology: JASN</i> , 2010 , 21, 1031-40 | 12.7 | 127 |
| 142 | Computational geometry for patient-specific reconstruction and meshing of blood vessels from MR and CT angiography. <i>IEEE Transactions on Medical Imaging</i> , 2003 , 22, 674-84 | 11.7 | 127 |
| 141 | Orientation of endothelial cells in shear fields in vitro. <i>Biorheology</i> , 1984 , 21, 617-30 | 1.7 | 122 |
| 140 | The molecular mechanisms of hemodialysis vascular access failure. <i>Kidney International</i> , 2016 , 89, 303-316 | 9.9 | 119 |
| 139 | Pathophysiologic implications of reduced podocyte number in a rat model of progressive glomerular injury. <i>American Journal of Pathology</i> , 2006 , 168, 42-54 | 5.8 | 116 |
| 138 | Bone marrow-derived mesenchymal stem cells improve islet graft function in diabetic rats. <i>Transplantation Proceedings</i> , 2009 , 41, 1797-800 | 1.1 | 113 |

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| 137 | Disturbed flow in radial-cephalic arteriovenous fistulae for haemodialysis: low and oscillating shear stress locates the sites of stenosis. <i>Nephrology Dialysis Transplantation</i> , 2012 , 27, 358-68 | 4.3 | 112 |
| 136 | Small diameter electrospun silk fibroin vascular grafts: Mechanical properties, in vitro biodegradability, and in vivo biocompatibility. <i>Materials Science and Engineering C</i> , 2015 , 54, 101-11 | 8.3 | 107 |
| 135 | Reducing polycystic liver volume in ADPKD: effects of somatostatin analogue octreotide. <i>Clinical Journal of the American Society of Nephrology: CJASN</i> , 2010 , 5, 783-9 | 6.9 | 104 |
| 134 | Sex related differences in glomerular ultrafiltration and proteinuria in Munich-Wistar rats. <i>Kidney International</i> , 1988 , 34, 481-6 | 9.9 | 101 |
| 133 | Unlike each drug alone, lisinopril if combined with avosentan promotes regression of renal lesions in experimental diabetes. <i>American Journal of Physiology - Renal Physiology</i> , 2009 , 297, F1448-56 | 4.3 | 97 |
| 132 | Angiotensin converting enzyme inhibition improves glomerular size-selectivity in IgA nephropathy. <i>Kidney International</i> , 1991 , 39, 1267-73 | 9.9 | 97 |
| 131 | Nature and extent of glomerular injury induced by cyclosporine in heart transplant patients. <i>Kidney International</i> , 1991 , 40, 243-50 | 9.9 | 96 |
| 130 | Inhibiting angiotensin-converting enzyme promotes renal repair by limiting progenitor cell proliferation and restoring the glomerular architecture. <i>American Journal of Pathology</i> , 2011 , 179, 628-38 | 5.8 | 90 |
| 129 | Effect of angiotensin-converting enzyme inhibition on glomerular basement membrane permeability and distribution of zonula occludens-1 in MWF rats. <i>Journal of the American Society of Nephrology: JASN</i> , 2000 , 11, 477-489 | 12.7 | 89 |
| 128 | ACE inhibition reduces glomerulosclerosis and regenerates glomerular tissue in a model of progressive renal disease. <i>Kidney International</i> , 2006 , 69, 1124-30 | 9.9 | 86 |
| 127 | Podocyte repopulation contributes to regression of glomerular injury induced by ACE inhibition. <i>American Journal of Pathology</i> , 2009 , 174, 797-807 | 5.8 | 85 |
| 126 | Shear stress downregulation of platelet-derived growth factor receptor-beta and matrix metalloprotease-2 is associated with inhibition of smooth muscle cell invasion and migration. <i>Circulation</i> , 2000 , 102, 225-30 | 16.7 | 84 |
| 125 | Mechanobiology of engineered cartilage cultured under a quantified fluid-dynamic environment. <i>Biomechanics and Modeling in Mechanobiology</i> , 2002 , 1, 69-82 | 3.8 | 83 |
| 124 | Verotoxin-1-induced up-regulation of adhesive molecules renders microvascular endothelial cells thrombogenic at high shear stress. <i>Blood</i> , 2001 , 98, 1828-35 | 2.2 | 81 |
| 123 | Effect of anastomosis angle on the localization of disturbed flow in side-to-end fistulae for haemodialysis access. <i>Nephrology Dialysis Transplantation</i> , 2013 , 28, 997-1005 | 4.3 | 80 |
| 122 | Regenerative medicine as applied to general surgery. <i>Annals of Surgery</i> , 2012 , 255, 867-80 | 7.8 | 79 |
| 121 | Permselective dysfunction of podocyte-podocyte contact upon angiotensin II unravels the molecular target for renoprotective intervention. <i>American Journal of Pathology</i> , 2006 , 168, 1073-85 | 5.8 | 74 |
| 120 | Automatic Segmentation of Kidneys using Deep Learning for Total Kidney Volume Quantification in Autosomal Dominant Polycystic Kidney Disease. <i>Scientific Reports</i> , 2017 , 7, 2049 | 4.9 | 72 |

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|-----|--|------|----|
| 119 | Imaging of the porous ultrastructure of the glomerular epithelial filtration slit. <i>Journal of the American Society of Nephrology: JASN</i> , 2010 , 21, 2081-9 | 12.7 | 70 |
| 118 | The effect of media perfusion on three-dimensional cultures of human chondrocytes: integration of experimental and computational approaches. <i>Biorheology</i> , 2004 , 41, 401-10 | 1.7 | 65 |
| 117 | Effect of angiotensin II antagonism on the regression of kidney disease in the rat. <i>Kidney International</i> , 2002 , 62, 885-94 | 9.9 | 64 |
| 116 | Radial artery remodeling in response to shear stress increase within arteriovenous fistula for hemodialysis access. <i>Endothelium: Journal of Endothelial Cell Research</i> , 2003 , 10, 95-102 | | 63 |
| 115 | Geometric reconstruction for computational mesh generation of arterial bifurcations from CT angiography. <i>Computerized Medical Imaging and Graphics</i> , 2002 , 26, 227-35 | 7.6 | 57 |
| 114 | ACE inhibition improves glomerular size selectivity in patients with idiopathic membranous nephropathy and persistent nephrotic syndrome. <i>American Journal of Kidney Diseases</i> , 2000 , 35, 381-91 | 7.4 | 57 |
| 113 | The response of endothelial cells to fluid shear stress using a co-culture model of the arterial wall. <i>Endothelium: Journal of Endothelial Cell Research</i> , 2002 , 9, 11-23 | | 56 |
| 112 | Prevention of inappropriate prescribing in hospitalized older patients using a computerized prescription support system (INTERcheck(®)). <i>Drugs and Aging</i> , 2013 , 30, 821-8 | 4.7 | 55 |
| 111 | Vascular smooth muscle cells on hyaluronic acid: culture and mechanical characterization of an engineered vascular construct. <i>Tissue Engineering</i> , 2004 , 10, 699-710 | | 55 |
| 110 | Novel paradigms for dialysis vascular access: upstream hemodynamics and vascular remodeling in dialysis access stenosis. <i>Clinical Journal of the American Society of Nephrology: CJASN</i> , 2013 , 8, 2186-93 | 6.9 | 54 |
| 109 | ACE inhibition induces regression of proteinuria and halts progression of renal damage in a genetic model of progressive nephropathy. <i>American Journal of Kidney Diseases</i> , 1999 , 34, 626-32 | 7.4 | 54 |
| 108 | Computational fluid dynamics of a vascular access case for hemodialysis. <i>Journal of Biomechanical Engineering</i> , 2001 , 123, 284-92 | 2.1 | 53 |
| 107 | Validation of a patient-specific hemodynamic computational model for surgical planning of vascular access in hemodialysis patients. <i>Kidney International</i> , 2013 , 84, 1237-45 | 9.9 | 52 |
| 106 | Burden of CKD, proteinuria, and cardiovascular risk among Chinese, Mongolian, and Nepalese participants in the International Society of Nephrology screening programs. <i>American Journal of Kidney Diseases</i> , 2010 , 56, 915-27 | 7.4 | 51 |
| 105 | Three-dimensional analysis of glomerular morphology in patients with subtotal nephrectomy. <i>Kidney International</i> , 1995 , 48, 155-62 | 9.9 | 45 |
| 104 | Glomerular size-selective dysfunction in NIDDM is not ameliorated by ACE inhibition or by calcium channel blockade. <i>Kidney International</i> , 1999 , 55, 984-94 | 9.9 | 44 |
| 103 | Biocompatibility and function of microencapsulated pancreatic islets. <i>Acta Biomaterialia</i> , 2006 , 2, 221-7 | 10.8 | 43 |
| 102 | Radial artery wall shear stress evaluation in patients with arteriovenous fistula for hemodialysis access. <i>Biorheology</i> , 2003 , 40, 423-30 | 1.7 | 43 |

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| 101 | Low-protein diet prevents glomerular damage in adriamycin-treated rats. <i>Kidney International</i> , 1985 , 28, 21-7 | 9.9 | 42 |
| 100 | A double mechanism for the mesenchymal stem cells positive effect on pancreatic islets. <i>PLoS ONE</i> , 2014 , 9, e84309 | 3.7 | 41 |
| 99 | Geometry of the internal carotid artery and recurrent patterns in location, orientation, and rupture status of lateral aneurysms: an image-based computational study. <i>Neurosurgery</i> , 2011 , 68, 1270-85; discussion 1285 | 3.2 | 40 |
| 98 | Angiotensin-converting enzyme inhibition prevents glomerular-tubule disconnection and atrophy in passive Heymann nephritis, an effect not observed with a calcium antagonist. <i>American Journal of Pathology</i> , 2001 , 159, 1743-50 | 5.8 | 39 |
| 97 | Transitional Flow in the Venous Side of Patient-Specific Arteriovenous Fistulae for Hemodialysis. <i>Annals of Biomedical Engineering</i> , 2016 , 44, 2388-2401 | 4.7 | 38 |
| 96 | Mesenchymal stem cells help pancreatic islet transplantation to control type 1 diabetes. <i>World Journal of Stem Cells</i> , 2014 , 6, 163-72 | 5.6 | 38 |
| 95 | Effects of MCP-1 inhibition by bindarit therapy in a rat model of polycystic kidney disease. <i>Nephron</i> , 2015 , 129, 52-61 | 3.3 | 35 |
| 94 | Effect of micro- and macroencapsulation on oxygen consumption by pancreatic islets. <i>Cell Transplantation</i> , 2009 , 18, 195-201 | 4 | 34 |
| 93 | Prevention of renal injury in diabetic MWF rats by angiotensin II antagonism. <i>Nephron Experimental Nephrology</i> , 1998 , 6, 28-38 | | 34 |
| 92 | Experimental Evaluation of Kidney Regeneration by Organ Scaffold Recellularization. <i>Scientific Reports</i> , 2017 , 7, 43502 | 4.9 | 33 |
| 91 | Direct podocyte damage in the single nephron leads to albuminuria in vivo. <i>Kidney International</i> , 1995 , 47, 1078-86 | 9.9 | 32 |
| 90 | Renoprotective effect of low iron diet and its consequence on glomerular hemodynamics. <i>Kidney International</i> , 1991 , 39, 647-52 | 9.9 | 32 |
| 89 | Developing regulatory-compliant electronic case report forms for clinical trials: experience with the demand trial. <i>Journal of the American Medical Informatics Association: JAMIA</i> , 2009 , 16, 404-8 | 8.6 | 31 |
| 88 | Disturbed flow in a patient-specific arteriovenous fistula for hemodialysis: Multidirectional and reciprocating near-wall flow patterns. <i>Journal of Biomechanics</i> , 2015 , 48, 2195-200 | 2.9 | 30 |
| 87 | In vivo regeneration of elastic lamina on fibroin biodegradable vascular scaffold. <i>International Journal of Artificial Organs</i> , 2013 , 36, 166-74 | 1.9 | 30 |
| 86 | Regression of Renal Disease by Angiotensin II Antagonism Is Caused by Regeneration of Kidney Vasculature. <i>Journal of the American Society of Nephrology: JASN</i> , 2016 , 27, 699-705 | 12.7 | 29 |
| 85 | Regression of diabetic complications by islet transplantation in the rat. <i>Diabetologia</i> , 2009 , 52, 2653-61 | 10.3 | 29 |
| 84 | Computed tomography evaluation of autosomal dominant polycystic kidney disease progression: a progress report. <i>Clinical Journal of the American Society of Nephrology: CJASN</i> , 2006 , 1, 754-60 | 6.9 | 28 |

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| 83 | Effect of Sirolimus on Disease Progression in Patients with Autosomal Dominant Polycystic Kidney Disease and CKD Stages 3b-4. <i>Clinical Journal of the American Society of Nephrology: CJASN</i> , 2016 , 11, 785-94 | 6.9 | 26 |
| 82 | Three-dimensional morphometric analysis of segmental glomerulosclerosis in the rat. <i>Kidney International</i> , 1990 , 38, 851-6 | 9.9 | 26 |
| 81 | Two-photon polymerized "nichoid" substrates maintain function of pluripotent stem cells when expanded under feeder-free conditions. <i>Stem Cell Research and Therapy</i> , 2016 , 7, 132 | 8.3 | 26 |
| 80 | Bioengineering Organs for Blood Detoxification. <i>Advanced Healthcare Materials</i> , 2018 , 7, e1800430 | 10.1 | 26 |
| 79 | Endothelial cell activation by hemodynamic shear stress derived from arteriovenous fistula for hemodialysis access. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2016 , 310, H49-59 ^{5.2} | | 25 |
| 78 | The effect of sodium ascorbate on the mechanical properties of hyaluronan-based vascular constructs. <i>Biomaterials</i> , 2006 , 27, 623-30 | 15.6 | 25 |
| 77 | Post-transplant renal artery stenosis: the hemodynamic response to revascularization. <i>Kidney International</i> , 2001 , 60, 309-18 | 9.9 | 25 |
| 76 | Shear stress-induced cytoskeleton rearrangement mediates NF-kappaB-dependent endothelial expression of ICAM-1. <i>Microvascular Research</i> , 2000 , 60, 182-8 | 3.7 | 25 |
| 75 | Engineering the vasculature of decellularized rat kidney scaffolds using human induced pluripotent stem cell-derived endothelial cells. <i>Scientific Reports</i> , 2019 , 9, 8001 | 4.9 | 24 |
| 74 | Computational model for simulation of vascular adaptation following vascular access surgery in haemodialysis patients. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2014 , 17, 1358-67 ^{2.1} | | 23 |
| 73 | Decision time for pancreatic islet-cell transplantation. <i>Lancet, The</i> , 2008 , 371, 883-4 | 4.0 | 23 |
| 72 | Rotating versus perfusion bioreactor for the culture of engineered vascular constructs based on hyaluronic acid. <i>Biotechnology and Bioengineering</i> , 2008 , 100, 988-97 | 4.9 | 23 |
| 71 | Automatic generation of glomerular capillary topological organization. <i>Microvascular Research</i> , 2001 , 62, 346-54 | 3.7 | 23 |
| 70 | Biological and Physical Factors Involved in the Maturation of Arteriovenous Fistula for Hemodialysis. <i>Cardiovascular Engineering and Technology</i> , 2017 , 8, 273-279 | 2.2 | 22 |
| 69 | Is shear stress the key factor for AVF maturation?. <i>Journal of Vascular Access</i> , 2017 , 18, 10-14 | 1.8 | 22 |
| 68 | Clinical study protocol for the ARCH project - computational modeling for improvement of outcome after vascular access creation. <i>Journal of Vascular Access</i> , 2011 , 12, 369-76 | 1.8 | 22 |
| 67 | Subcutaneous xenotransplantation of bovine pancreatic islets. <i>Biomaterials</i> , 2005 , 26, 5640-7 | 15.6 | 22 |
| 66 | Glomerular perm-selective function. <i>Kidney International</i> , 1994 , 45, 398-402 | 9.9 | 22 |

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|----|--|------|----|
| 65 | Renal protective effect of angiotensin-converting enzyme inhibition in aging rats. <i>American Journal of Medicine</i> , 1992 , 92, 60S-63S | 2.4 | 22 |
| 64 | Octreotide-LAR in later-stage autosomal dominant polycystic kidney disease (ALADIN 2): A randomized, double-blind, placebo-controlled, multicenter trial. <i>PLoS Medicine</i> , 2019 , 16, e1002777 | 11.6 | 21 |
| 63 | Decellularized kidney matrix as functional material for whole organ tissue engineering. <i>Journal of Applied Biomaterials and Functional Materials</i> , 2017 , 15, e326-e333 | 1.8 | 21 |
| 62 | Effect of high dose ramipril with or without indomethacin on glomerular selectivity. <i>Kidney International</i> , 2002 , 62, 1010-9 | 9.9 | 20 |
| 61 | Design of a cone-and-plate device for controlled realistic shear stress stimulation on endothelial cell monolayers. <i>Cytotechnology</i> , 2016 , 68, 1885-96 | 2.2 | 19 |
| 60 | ACE inhibition and ANG II receptor blockade improve glomerular size-selectivity in IgA nephropathy. <i>American Journal of Physiology - Renal Physiology</i> , 1999 , 276, F457-66 | 4.3 | 19 |
| 59 | ACE inhibition prevents renal failure and death in uninephrectomized MWF/Ztm rats. <i>Kidney International</i> , 1995 , 47, 1319-26 | 9.9 | 19 |
| 58 | Numerical Evaluation and Experimental Validation of Pressure Drops Across a Patient-Specific Model of Vascular Access for Hemodialysis. <i>Cardiovascular Engineering and Technology</i> , 2013 , 4, 485-499 ^{2.2} | 2.2 | 18 |
| 57 | Blood Flow in Idealized Vascular Access for Hemodialysis: A Review of Computational Studies. <i>Cardiovascular Engineering and Technology</i> , 2017 , 8, 295-312 | 2.2 | 17 |
| 56 | An adaptive mesh refinement solver for large-scale simulation of biological flows. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2010 , 26, 86-100 | 2.6 | 17 |
| 55 | Vascular tissue engineering. <i>Cell Transplantation</i> , 2006 , 15 Suppl 1, S119-25 | 4 | 17 |
| 54 | Kidney volume measurement methods for clinical studies on autosomal dominant polycystic kidney disease. <i>PLoS ONE</i> , 2017 , 12, e0178488 | 3.7 | 16 |
| 53 | Therapeutic potential of Mesenchymal Stem Cells for the treatment of diabetic peripheral neuropathy. <i>Experimental Neurology</i> , 2017 , 288, 75-84 | 5.7 | 16 |
| 52 | Shear stress reverses dome formation in confluent renal tubular cells. <i>Cellular Physiology and Biochemistry</i> , 2011 , 28, 673-82 | 3.9 | 16 |
| 51 | A novel hybrid silk-fibroin/polyurethane three-layered vascular graft: towards in situ tissue-engineered vascular accesses for haemodialysis. <i>Biomedical Materials (Bristol)</i> , 2019 , 14, 025007 | 3.5 | 16 |
| 50 | Patient-specific model of arterial circulation for surgical planning of vascular access. <i>Journal of Vascular Access</i> , 2013 , 14, 180-92 | 1.8 | 14 |
| 49 | Cytokines and cell adhesion molecules in tumor-endothelial cell interaction and metastasis. <i>Cell Adhesion and Communication</i> , 1994 , 2, 219-24 | | 14 |
| 48 | pyNS: an open-source framework for 0D haemodynamic modelling. <i>Annals of Biomedical Engineering</i> , 2015 , 43, 1461-73 | 4.7 | 13 |

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| 47 | Renal bioengineering with scaffolds generated from rat and pig kidneys. <i>Nephron Experimental Nephrology</i> , 2014 , 126, 113 | | 13 |
| 46 | Effect of ACE inhibition on glomerular permselectivity and tubular albumin concentration in the renal ablation model. <i>American Journal of Physiology - Renal Physiology</i> , 2011 , 300, F1291-300 | 4.3 | 12 |
| 45 | Influence of donor age on bovine pancreatic islet isolation. <i>Transplantation</i> , 2000 , 70, 1032-7 | 1.8 | 12 |
| 44 | Preliminary detection of lung hypoperfusion in discharged Covid-19 patients during recovery. <i>European Journal of Radiology</i> , 2020 , 129, 109121 | 4.7 | 12 |
| 43 | Clinical use of computational modeling for surgical planning of arteriovenous fistula for hemodialysis. <i>BMC Medical Informatics and Decision Making</i> , 2017 , 17, 26 | 3.6 | 11 |
| 42 | Isolation of Langerhans islets by dielectrophoresis. <i>Electrophoresis</i> , 2013 , 34, 1068-75 | 3.6 | 11 |
| 41 | Potential protective effects of telmisartan on renal function deterioration. <i>JRAAS - Journal of the Renin-Angiotensin-Aldosterone System</i> , 2006 , 7, 185-91 | 3 | 11 |
| 40 | Effects of rosuvastatin on glomerular capillary size-selectivity function in rats with renal mass ablation. <i>American Journal of Nephrology</i> , 2007 , 27, 630-8 | 4.6 | 11 |
| 39 | Numerical analysis of blood flow in reconstructed glomerular capillary segments. <i>Microvascular Research</i> , 1995 , 49, 1-11 | 3.7 | 11 |
| 38 | Effect of the 3D Artificial Nichoid on the Morphology and Mechanobiological Response of Mesenchymal Stem Cells Cultured In Vitro. <i>Cells</i> , 2020 , 9, | 7.9 | 11 |
| 37 | Phase-contrast magnetic resonance imaging to assess renal perfusion: a systematic review and statement paper. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2020 , 33, 3-21 | 2.8 | 10 |
| 36 | Toward longitudinal studies of hemodynamically induced vessel wall remodeling. <i>International Journal of Artificial Organs</i> , 2018 , 41, 714-722 | 1.9 | 9 |
| 35 | Intermediate volume on computed tomography imaging defines a fibrotic compartment that predicts glomerular filtration rate decline in autosomal dominant polycystic kidney disease patients. <i>American Journal of Pathology</i> , 2011 , 179, 619-27 | 5.8 | 9 |
| 34 | Computational model for prediction of fistula outcome. <i>Journal of Vascular Access</i> , 2014 , 15 Suppl 7, S64-9 | 1.8 | 7 |
| 33 | Toxicological evaluation of airborne particulate matter. Are cell culture technologies ready to replace animal testing?. <i>Journal of Applied Toxicology</i> , 2019 , 39, 1484-1491 | 4.1 | 6 |
| 32 | Determination of cardiovascular mechanics evolution in the presence of the arteriovenous fistula. <i>ASAIO Journal</i> , 2009 , 55, 484-93 | 3.6 | 6 |
| 31 | Identification of a novel gene--SSK1--in human endothelial cells exposed to shear stress. <i>Biochemical and Biophysical Research Communications</i> , 1998 , 246, 881-7 | 3.4 | 6 |
| 30 | Does MRI trump pathology? A new era for staging and monitoring of kidney fibrosis. <i>Kidney International</i> , 2020 , 97, 442-444 | 9.9 | 6 |

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| 29 | Copper-dependent biological effects of particulate matter produced by brake systems on lung alveolar cells. <i>Archives of Toxicology</i> , 2020 , 94, 2965-2979 | 5.8 | 5 |
| 28 | Islet transplantation and insulin administration relieve long-term complications and rescue the residual endogenous pancreatic β cells. <i>American Journal of Pathology</i> , 2013 , 183, 1527-38 | 5.8 | 5 |
| 27 | Cell transplantation for diabetes therapy [Authors'Reply. <i>Lancet, The</i> , 2008 , 372, 29-30 | 4.0 | 5 |
| 26 | Islet transplantation: need for a time-out?. <i>Nature Clinical Practice Nephrology</i> , 2008 , 4, 660-1 | | 5 |
| 25 | Basic principles and new advances in kidney imaging. <i>Kidney International</i> , 2021 , 100, 1001-1011 | 9.9 | 5 |
| 24 | Localization of cerebral arteriovenous malformations using digital angiography. <i>Medical Physics</i> , 2000 , 27, 2024-30 | 4.4 | 4 |
| 23 | Numerical analysis of viscous flow through fibrous media: a model for glomerular basement membrane permeability. <i>American Journal of Physiology - Renal Physiology</i> , 1998 , 274, F223-31 | 4.3 | 4 |
| 22 | Theoretical effects of a distribution of capillary dimensions on glomerular ultrafiltration. <i>Microvascular Research</i> , 1986 , 32, 131-44 | 3.7 | 4 |
| 21 | Role of ultrastructural determinants of glomerular permeability in ultrafiltration function loss. <i>JCI Insight</i> , 2020 , 5, | 9.9 | 4 |
| 20 | A Novel Hybrid Silk Fibroin/Polyurethane Arteriovenous Graft for Hemodialysis: Proof-of-Concept Animal Study in an Ovine Model. <i>Advanced Healthcare Materials</i> , 2020 , 9, e2000794 | 10.1 | 4 |
| 19 | Recellularization of Kidney Scaffold With Stem Cells 2017 , 877-886 | | 3 |
| 18 | Comment on: Robertson (2010) Islet transplantation a decade later and strategies for filling a half-full glass. <i>Diabetes</i> ;59:1285-1291. <i>Diabetes</i> , 2010 , 59, e13; author reply e14 | 0.9 | 3 |
| 17 | Mathematical description of transport of water and macromolecules through the glomerular capillary wall. <i>Current Opinion in Nephrology and Hypertension</i> , 1995 , 4, 343-8 | 3.5 | 3 |
| 16 | Arteriovenous access in hemodialysis: A multidisciplinary perspective for future solutions. <i>International Journal of Artificial Organs</i> , 2021 , 44, 3-16 | 1.9 | 3 |
| 15 | An opto-structural method to estimate the stress-strain field induced by cell contraction on substrates of controlled stiffness in vitro. <i>Journal of Applied Biomaterials and Functional Materials</i> , 2013 , 11, e143-50 | 1.8 | 2 |
| 14 | Effect of islet transplantation on metabolic glucose control in rats with diabetes. <i>Diabetes Technology and Therapeutics</i> , 2009 , 11, 805-11 | 8.1 | 2 |
| 13 | Protective Effect of Human Mesenchymal Stem Cells on the Survival of Pancreatic Islets. <i>International Journal of Stem Cells</i> , 2020 , 13, 116-126 | 3 | 2 |
| 12 | Improving the user experience of televisits and telemonitoring for heart failure patients in less than 6 months: a methodological approach.. <i>International Journal of Medical Informatics</i> , 2022 , 161, 104717 | 5.3 | 2 |

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|----|--|------|---|
| 11 | Functional Magnetic Resonance Imaging Versus Kidney Biopsy to Assess Response to Therapy in Nephrotic Syndrome: A Case Report. <i>Kidney Medicine</i> , 2020 , 2, 804-809 | 2.8 | 1 |
| 10 | Artificial organs: current status and future directions. <i>International Journal of Artificial Organs</i> , 2017 , 39, 587-589 | 1.9 | 1 |
| 9 | Letter from the editor in chief. <i>International Journal of Artificial Organs</i> , 2014 , 37, 275-6 | 1.9 | 1 |
| 8 | Updating the journal sections for the evolution of research and clinical applications in artificial organs. <i>International Journal of Artificial Organs</i> , 2016 , 39, 261-4 | 1.9 | 1 |
| 7 | The use of AVF.SIM system for the surgical planning of arteriovenous fistulae in routine clinical practice.. <i>Journal of Vascular Access</i> , 2022 , 11297298211062695 | 1.8 | 0 |
| 6 | Insights into Glomerular Filtration and Albuminuria. <i>New England Journal of Medicine</i> , 2021 , 385, 477 | 59.2 | 0 |
| 5 | Arteriovenous fistula creation with VasQ device: A feasibility study to reveal hemodynamic implications.. <i>Journal of Vascular Access</i> , 2022 , 11297298221087160 | 1.8 | 0 |
| 4 | Current Status of Islet Transplantation 2014 , 583-598 | | |
| 3 | Blood pressure and cholesterol levels in an Italian outpatient cohort of type 2 diabetic patients: comparison with the general population. <i>Nutrition, Metabolism and Cardiovascular Diseases</i> , 2006 , 16, e1-3 | 4.5 | |
| 2 | Characterization of the Microflow Through 3D Synthetic Niche Microenvironments Hosted in a Millifluidic Bioreactor.. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021 , 9, 799594 | 5.8 | |
| 1 | Automatic cyst and kidney segmentation in autosomal dominant polycystic kidney disease: Comparison of U-Net based methods. <i>Computers in Biology and Medicine</i> , 2022 , 105431 | 7 | |