

# Iwona Cicha

## List of Publications by Year in descending order

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112  
papers

3,712  
citations

126708

33  
h-index

149479

56  
g-index

115  
all docs

115  
docs citations

115  
times ranked

5563  
citing authors

#	ARTICLE	IF	CITATIONS
1	Emergence of dendritic cells in rupture-prone regions of vulnerable carotid plaques. <i>Atherosclerosis</i> , 2004, 176, 101-110.	0.4	244
2	Evaluation of Fibroblasts Adhesion and Proliferation on Alginate-Gelatin Crosslinked Hydrogel. <i>PLoS ONE</i> , 2014, 9, e107952.	1.1	201
3	Connective tissue growth factor: Context-dependent functions and mechanisms of regulation. <i>BioFactors</i> , 2009, 35, 200-208.	2.6	125
4	Connective Tissue Growth Factor Is Overexpressed in Complicated Atherosclerotic Plaques and Induces Mononuclear Cell Chemotaxis In Vitro. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2005, 25, 1008-1013.	1.1	120
5	Decrease in Circulating Myeloid Dendritic Cell Precursors in Coronary Artery Disease. <i>Journal of the American College of Cardiology</i> , 2006, 48, 70-80.	1.2	108
6	Differential effects of statins on relevant functions of human monocyte-derived dendritic cells. <i>Journal of Leukocyte Biology</i> , 2006, 79, 529-538.	1.5	107
7	Development of a lauric acid/albumin hybrid iron oxide nanoparticle system with improved biocompatibility. <i>International Journal of Nanomedicine</i> , 2014, 9, 4847.	3.3	105
8	Dextran-coated superparamagnetic iron oxide nanoparticles for magnetic resonance imaging: evaluation of size-dependent imaging properties, storage stability and safety. <i>International Journal of Nanomedicine</i> , 2018, Volume 13, 1899-1915.	3.3	105
9	Early failure of xenogenous de-cellularised pulmonary valve conduits – a word of caution! <i>European Journal of Cardio-thoracic Surgery</i> , 2010, 38, 78-85.	0.6	96
10	Decreased numbers of regulatory T cells are associated with human atherosclerotic lesion vulnerability and inversely correlate with infiltrated mature dendritic cells. <i>Atherosclerosis</i> , 2013, 230, 92-99.	0.4	90
11	Non-immunogenic dextran-coated superparamagnetic iron oxide nanoparticles: a biocompatible, size-tunable contrast agent for magnetic resonance imaging. <i>International Journal of Nanomedicine</i> , 2017, Volume 12, 5223-5238.	3.3	82
12	Carotid Plaque Vulnerability. <i>Stroke</i> , 2011, 42, 3502-3510.	1.0	81
13	O <sub>2</sub> release from erythrocytes flowing in a narrow O <sub>2</sub> -permeable tube: effects of erythrocyte aggregation. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2001, 281, H448-H456.	1.5	72
14	Activated human platelets release connective tissue growth factor. <i>Thrombosis and Haemostasis</i> , 2004, 91, 755-760.	1.8	71
15	Flow cytometry for intracellular SPION quantification: specificity and sensitivity in&nbsp;comparison with spectroscopic methods. <i>International Journal of Nanomedicine</i> , 2015, 10, 4185.	3.3	65
16	Early obstruction of decellularized xenogenic valves in pediatric patients: involvement of inflammatory and fibroproliferative processes. <i>Cardiovascular Pathology</i> , 2011, 20, 222-231.	0.7	64
17	From design to the clinic: practical guidelines for translating cardiovascular nanomedicine. <i>Cardiovascular Research</i> , 2018, 114, 1714-1727.	1.8	63
18	Transient decrease in circulating dendritic cell precursors after acute stroke: potential recruitment into the brain. <i>Clinical Science</i> , 2010, 118, 147-157.	1.8	60

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19	Hybrid hydrogels based on keratin and alginate for tissue engineering. <i>Journal of Materials Chemistry B</i> , 2014, 2, 5441-5451.	2.9	60
20	Actin-dependent regulation of connective tissue growth factor. <i>American Journal of Physiology - Cell Physiology</i> , 2007, 292, C1732-C1738.	2.1	57
21	Nanoparticles for intravascular applications: physicochemical characterization and cytotoxicity testing. <i>Nanomedicine</i> , 2016, 11, 597-616.	1.7	57
22	Shear stress preconditioning modulates endothelial susceptibility to circulating TNF- $\alpha$ and monocytic cell recruitment in a simplified model of arterial bifurcations. <i>Atherosclerosis</i> , 2009, 207, 93-102.	0.4	54
23	Accumulation of immune cells and high expression of chemokines/chemokine receptors in the upstream shoulder of atherosclerotic carotid plaques. <i>Experimental and Molecular Pathology</i> , 2007, 82, 245-255.	0.9	51
24	Iron Oxide Nanoparticles in Regenerative Medicine and Tissue Engineering. <i>Nanomaterials</i> , 2021, 11, 2337.	1.9	48
25	Hydrogel matrices based on elastin and alginate for tissue engineering applications. <i>International Journal of Biological Macromolecules</i> , 2018, 114, 614-625.	3.6	45
26	Predictive value of the decrease in circulating dendritic cell precursors in stable coronary artery disease. <i>Clinical Science</i> , 2009, 116, 353-363.	1.8	44
27	TNF- $\alpha$ in the cardiovascular system: from physiology to therapy. <i>International Journal of Interferon, Cytokine and Mediator Research</i> , 0, , 9.	1.1	44
28	Activated myeloid dendritic cells accumulate and co-localize with CD3+ T cells in coronary artery lesions in patients with Kawasaki disease. <i>Experimental and Molecular Pathology</i> , 2007, 83, 93-103.	0.9	43
29	Pharmacological inhibition of RhoA signaling prevents connective tissue growth factor induction in endothelial cells exposed to non-uniform shear stress. <i>Atherosclerosis</i> , 2008, 196, 136-145.	0.4	43
30	Changes of RBC aggregation in oxygenation-deoxygenation: pH dependency and cell morphology. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2003, 284, H2335-H2342.	1.5	42
31	ACE Inhibition Lowers Angiotensin-II-Induced Monocyte Adhesion to HUVEC by Reduction of p65 Translocation and AT1 Expression. <i>Journal of Vascular Research</i> , 2005, 42, 399-407.	0.6	41
32	Gamma-Ray-Irradiated Red Blood Cells Stored in Mannitol-Adenine-Phosphate Medium: Rheological Evaluation and Susceptibility to Oxidative Stress. <i>Vox Sanguinis</i> , 2000, 79, 75-82.	0.7	39
33	Monitoring the Cellular Effects of HMG-CoA Reductase Inhibitors In Vitro and Ex Vivo. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2004, 24, 2046-2050.	1.1	38
34	Soft-matrices based on silk fibroin and alginate for tissue engineering. <i>International Journal of Biological Macromolecules</i> , 2016, 93, 1420-1431.	3.6	35
35	FoxO Proteins Mediate Hypoxic Induction of Connective Tissue Growth Factor in Endothelial Cells. <i>Journal of Biological Chemistry</i> , 2010, 285, 4328-4336.	1.6	34
36	Nano-biomaterials for cardiovascular applications: Clinical perspective. <i>Journal of Controlled Release</i> , 2016, 229, 23-36.	4.8	34

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37	Macromolecular interactions in alginate-gelatin hydrogels regulate the behavior of human fibroblasts. <i>Journal of Bioactive and Compatible Polymers</i> , 2017, 32, 309-324.	0.8	34
38	HIF-1 $\alpha$ activation results in actin cytoskeleton reorganization and modulation of Rac-1 signaling in endothelial cells. <i>Cell Communication and Signaling</i> , 2013, 11, 80.	2.7	33
39	Endothelial dysfunction and monocyte recruitment in cells exposed to non-uniform shear stress. <i>Clinical Hemorheology and Microcirculation</i> , 2008, 39, 113-119.	0.9	32
40	Drug delivery to atherosclerotic plaques using superparamagnetic iron oxide nanoparticles. <i>International Journal of Nanomedicine</i> , 2018, Volume 13, 8443-8460.	3.3	32
41	Shear stress patterns affect the secreted chemokine profile in endothelial cells. <i>Clinical Hemorheology and Microcirculation</i> , 2012, 50, 143-152.	0.9	31
42	Association of systemic inflammation markers with the presence and extent of coronary artery calcification. <i>Cytokine</i> , 2012, 57, 251-257.	1.4	29
43	Synthesis and Characterization of Tissue Plasminogen Activator-Functionalized Superparamagnetic Iron Oxide Nanoparticles for Targeted Fibrin Clot Dissolution. <i>International Journal of Molecular Sciences</i> , 2017, 18, 1837.	1.8	29
44	Effect of specific surface microstructures on substrate endothelialisation and thrombogenicity: Importance for stent design. <i>Clinical Hemorheology and Microcirculation</i> , 2015, 59, 219-233.	0.9	28
45	Reduced oxygen release from erythrocytes by the acceleration-induced flow shift, observed in an oxygen-permeable narrow tube. <i>Journal of Biomechanics</i> , 2002, 35, 1241-1251.	0.9	27
46	Thrombosis: Novel nanomedical concepts of diagnosis and treatment. <i>World Journal of Cardiology</i> , 2015, 7, 434.	0.5	27
47	Nanomedical innovation: the SEON-concept for an improved cancer therapy with magnetic nanoparticles. <i>Nanomedicine</i> , 2015, 10, 3287-3304.	1.7	25
48	Evaluation of hydrogel matrices for vessel bioplotting: Vascular cell growth and viability. <i>Journal of Biomedical Materials Research - Part A</i> , 2016, 104, 577-585.	2.1	25
49	Impact of telmisartan on the inflammatory state in patients with coronary atherosclerosis - Influence on IP-10, TNF- $\alpha$ and MCP-1. <i>Cytokine</i> , 2013, 62, 290-296.	1.4	24
50	Shell matters: Magnetic targeting of SPIONs and in vitro effects on endothelial and monocytic cell function. <i>Clinical Hemorheology and Microcirculation</i> , 2015, 61, 259-277.	0.9	24
51	Plaque Permeability Assessed With DCE-MRI Associates With USPIO Uptake in Patients With Peripheral Artery Disease. <i>JACC: Cardiovascular Imaging</i> , 2019, 12, 2081-2083.	2.3	24
52	A Print-and-Fuse Strategy for Sacrificial Filaments Enables Biomimetically Structured Perfusable Microvascular Networks with Functional Endothelium Inside 3D Hydrogels. <i>Advanced Materials</i> , 2022, 34, .	11.1	24
53	The Effect of Antibacterial Particle Incorporation on the Mechanical Properties, Biodegradability, and Biocompatibility of PLA and PHBV Composites. <i>Macromolecular Materials and Engineering</i> , 2020, 305, 2000244.	1.7	23
54	Connective tissue growth factor is released from platelets under high shear stress and is differentially expressed in endothelium along atherosclerotic plaques. <i>Clinical Hemorheology and Microcirculation</i> , 2006, 35, 203-6.	0.9	23

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55	Resveratrol Inhibits Monocytic Cell Chemotaxis to MCP-1 and Prevents Spontaneous Endothelial Cell Migration Through Rho Kinase-Dependent Mechanism. <i>Journal of Atherosclerosis and Thrombosis</i> , 2011, 18, 1031-1042.	0.9	22
56	Endothelial biocompatibility and accumulation of SPION under flow conditions. <i>Journal of Magnetism and Magnetic Materials</i> , 2015, 380, 20-26.	1.0	22
57	Rubbing salt into wounded endothelium: Sodium potentiates proatherogenic effects of TNF- $\alpha$ under non-uniform shear stress. <i>Thrombosis and Haemostasis</i> , 2014, 112, 183-195.	1.8	21
58	Optimization of cell seeding on electrospun PCL-silk fibroin scaffolds. <i>European Polymer Journal</i> , 2020, 134, 109838.	2.6	21
59	Mitoxantrone-loaded superparamagnetic iron oxide nanoparticles as drug carriers for cancer therapy: Uptake and toxicity in primary human tubular epithelial cells. <i>Nanotoxicology</i> , 2016, 10, 557-566.	1.6	20
60	Polydopamine and gelatin coating for rapid endothelialization of vascular scaffolds. <i>Materials Science and Engineering C</i> , 2022, 134, 112544.	3.8	20
61	Rheological changes in human red blood cells under oxidative stress. <i>Pathophysiology</i> , 1999, 6, 103-110.	1.0	19
62	Nanomedicine in diagnostics and therapy of cardiovascular diseases: beyond atherosclerotic plaque imaging. <i>Nanotechnology Reviews</i> , 2013, 2, 449-472.	2.6	19
63	Strategies to enhance nanoparticle-endothelial interactions under flow. <i>Journal of Cellular Biotechnology</i> , 2016, 1, 191-208.	0.1	19
64	Suppression of dendritic cell functions contributes to the anti-inflammatory action of granulocyte-colony stimulating factor in experimental stroke. <i>Experimental Neurology</i> , 2012, 237, 379-387.	2.0	18
65	Telmisartan prevents VCAM-1 induction and monocytic cell adhesion to endothelium exposed to non-uniform shear stress and TNF- $\alpha$ . <i>Clinical Hemorheology and Microcirculation</i> , 2011, 48, 65-73.	0.9	17
66	Soy protein isolate/bioactive glass composite membranes: Processing and properties. <i>European Polymer Journal</i> , 2018, 106, 232-241.	2.6	17
67	Synthesis and Characterization of Citrate-Stabilized Gold-Coated Superparamagnetic Iron Oxide Nanoparticles for Biomedical Applications. <i>Molecules</i> , 2020, 25, 4425.	1.7	17
68	VEGFR2 signalling contributes to increased endothelial susceptibility to TNF- $\alpha$ under chronic non-uniform shear stress. <i>Atherosclerosis</i> , 2011, 219, 499-509.	0.4	16
69	A novel human artery model to assess the magnetic accumulation of SPIONs under flow conditions. <i>Scientific Reports</i> , 2017, 7, 42314.	1.6	16
70	Biofabrication of vessel grafts based on natural hydrogels. <i>Current Opinion in Biomedical Engineering</i> , 2017, 2, 83-89.	1.8	16
71	Extramedullary plasmacytoma: Tumor occurrence and therapeutic concepts – A follow-up. <i>Cancer Medicine</i> , 2022, 11, 4743-4755.	1.3	16
72	Cardiovascular therapy through nanotechnology – how far are we still from bedside?. <i>European Journal of Nanomedicine</i> , 2014, 6, .	0.6	15

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73	Endothelial dysfunction and monocyte recruitment in cells exposed to non-uniform shear stress. <i>Clinical Hemorheology and Microcirculation</i> , 2008, 39, 113-9.	0.9	15
74	Soy Protein-Based Composite Hydrogels: Physico-Chemical Characterization and In Vitro Cytocompatibility. <i>Polymers</i> , 2018, 10, 1159.	2.0	14
75	Cardiovascular applications of magnetic particles. <i>Journal of Magnetism and Magnetic Materials</i> , 2021, 518, 167428.	1.0	14
76	Cell type-specific regulation of CCN2 protein expression by PI3Kâ€“AKTâ€“FoxO signaling. <i>Journal of Cell Communication and Signaling</i> , 2009, 3, 79-84.	1.8	13
77	Role of shear stress patterns in the TNF-Î±-induced atherogenic protein expression and monocytic cell adhesion to endothelium. <i>Clinical Hemorheology and Microcirculation</i> , 2010, 46, 203-210.	0.9	12
78	Nanoparticles for regenerative medicine. <i>Nanomedicine</i> , 2019, 14, 1929-1933.	1.7	12
79	Magnetic Accumulation of SPIONs under Arterial Flow Conditions: Effect of Serum and Red Blood Cells. <i>Molecules</i> , 2019, 24, 2588.	1.7	12
80	Differential Responses to Bioink-Induced Oxidative Stress in Endothelial Cells and Fibroblasts. <i>International Journal of Molecular Sciences</i> , 2021, 22, 2358.	1.8	12
81	Cell specificity of magnetic cell seeding approach to hydrogel colonization. <i>Journal of Biomedical Materials Research - Part A</i> , 2017, 105, 2948-2957.	2.1	10
82	Easy-to-Prepare Coating of Standard Cell Culture Dishes for Cell-Sheet Engineering Using Aqueous Solutions of Poly(2-n-propyl-oxazoline). <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 1509-1517.	2.6	10
83	Rheological changes in human red blood cells under oxidative stress: effects of thiol-containing antioxidants. <i>Pathophysiology</i> , 1999, 6, 121-128.	1.0	9
84	Melt Electrowriting of Isomalt for High-Resolution Templating of Embedded Microchannels. <i>Advanced Materials Technologies</i> , 2021, 6, 2100221.	3.0	9
85	Nanomedicine for cardiovascular disorders. <i>Nanomedicine</i> , 2019, 14, 3007-3012.	1.7	8
86	Magnetite-Arginine Nanoparticles as a Multifunctional Biomedical Tool. <i>Nanomaterials</i> , 2020, 10, 2014.	1.9	8
87	Emergence of dendritic cells in the myocardium after acute myocardial infarction - implications for inflammatory myocardial damage. <i>International Journal of Biomedical Science</i> , 2010, 6, 27-36.	0.5	8
88	Hydroxyapatite-Coated SPIONs and Their Influence on Cytokine Release. <i>International Journal of Molecular Sciences</i> , 2021, 22, 4143.	1.8	7
89	Imaging modalities using magnetic nanoparticles â€“ overview of the developments in recent years. <i>Nanotechnology Reviews</i> , 2013, 2, 381-394.	2.6	6
90	Comparative analysis of nanosystemsâ€™ effects on human endothelial and monocytic cell functions. <i>Nanotoxicology</i> , 2018, 12, 957-974.	1.6	6

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91	The Grand Challenges in Cardiovascular Drug Delivery. <i>Frontiers in Drug Delivery</i> , 2021, 1, .	0.4	6
92	Dual inhibition of Src family kinases and Aurora kinases by SU6656 modulates CTGF (connective tissue) Tj ETQq0 0 0 rgBT /Overlock 10 <i>Cell Biology</i> , 2014, 46, 39-48.	1.2	5
93	Different treatment settings of Granulocyte-Colony Stimulating Factor and their impact on T cell-specific immune response in experimental stroke. <i>Immunology Letters</i> , 2014, 158, 95-100.	1.1	3
94	Nanomedicine for neuroprotection. <i>Nanomedicine</i> , 2019, 14, 127-130.	1.7	3
95	Optical Microscopy Systems for the Detection of Unlabeled Nanoparticles. <i>International Journal of Nanomedicine</i> , 0, Volume 17, 2139-2163.	3.3	3
96	Novel nanoparticulate drug delivery systems. <i>Nanomedicine</i> , 2016, 11, 573-576.	1.7	2
97	Journal watch: diagnostic nanoparticles. <i>Nanomedicine</i> , 2017, 12, 181-184.	1.7	2
98	Magnetic nanoparticles for medical applications. <i>Nanomedicine</i> , 2017, 12, 825-829.	1.7	2
99	Nanomedicine for infectious diseases. <i>Nanomedicine</i> , 2020, 15, 1263-1267.	1.7	2
100	Imaging and quantification of SPIONs for cancer therapy with magnetic drug targeting. , 2015, , .		1
101	Modulation of immune responses by nanoparticles. <i>Nanomedicine</i> , 2021, 16, 1925-1929.	1.7	1
102	On-Demand Drug Delivery: Recent Advances in Cardiovascular Applications. <i>Frontiers in Drug Delivery</i> , 0, 2, .	0.4	1
103	Reply to ErdbrÄ½gger and Stein-Konertz. <i>European Journal of Cardio-thoracic Surgery</i> , 2011, 39, 284.	0.6	0
104	TCT-800 Endothelialisation of microstructure-modified surfaces: Importance for stent design. <i>Journal of the American College of Cardiology</i> , 2013, 62, B243.	1.2	0
105	Research Highlights. <i>Nanomedicine</i> , 2014, 9, 189-192.	1.7	0
106	Highlights from the latest articles in nanoparticles, nanomaterials and nanotoxicity testing. <i>Nanomedicine</i> , 2015, 10, 181-184.	1.7	0
107	Recent nanomedicine articles of outstanding interest: nanoparticle functionalization for disease diagnostics and therapy. <i>Nanomedicine</i> , 2015, 10, 2133-2137.	1.7	0
108	Structural reorganization of the cytoskeleton contributes to the induction of pro-fibrotic connective tissue growth factor in tubular epithelial cells. <i>Journal of Cellular Biotechnology</i> , 2016, 2, 23-33.	0.1	0

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109	Treat or track: nanoagents in the service of health. Nanomedicine, 2017, 12, 2715-2719.	1.7	0
110	“Nano-lysing”™ the disease process: A novel diagnostic and therapeutic nanoparticles. Nanomedicine, 2018, 13, 1087-1091.	1.7	0
111	Nanomedicine for vaccination and diagnosis of diseases. Nanomedicine, 2021, 16, 165-169.	1.7	0
112	Intranasal delivery of nanoparticles. Nanomedicine, 2022, , .	1.7	0