Omolola Eniola-Adefeso

List of Publications by Citations

47 papers	1,602 citations	23 h-index	39 g-index
50 ext. papers	1,906 ext. citations	9.6 avg, IF	5.01 L-index

#	Paper	IF	Citations
47	Extracellular vesicles as drug delivery systems: lessons from the liposome field. *Journal of Controlled Release*, **2014**, 195, 72-85	11.7	287
46	Potential role of size and hemodynamics in the efficacy of vascular-targeted spherical drug carriers. *Biomaterials*, **2010**, 31, 1392-402	15.6	149
45	Margination propensity of vascular-targeted spheres from blood flow in a microfluidic model of human microvessels. *Langmuir*, **2013**, 29, 2530-5	4	101
44	The margination propensity of ellipsoidal micro/nanoparticles to the endothelium in human blood flow. *Biomaterials*, **2013**, 34, 5863-71	15.6	91
43	Targeting therapeutics to the vascular wall in atherosclerosis--carrier size matters. *Atherosclerosis*, **2011**, 217, 364-70	3.1	85
42	3005 Integrin Mac-1 Potentiates Neutrophil Adhesion and NET Release in Antiphospholipid Syndrome. *Journal of Clinical and Translational Science*, **2019**, 3, 14-14	0.4	78
41	Fabrication of biodegradable spheroidal microparticles for drug delivery applications. *Journal of Controlled Release*, **2009**, 138, 235-42	11.7	55
40	Particle-cell dynamics in human blood flow: implications for vascular-targeted drug delivery. *Journal of Biomechanics*, **2012**, 45, 2822-8	2.9	51
39	Neutrophil-Particle Interactions in Blood Circulation Drive Particle Clearance and Alter Neutrophil Responses in Acute Inflammation. *ACS Nano*, **2017**, 11, 10797-10807	16.7	49
38	Emergence and Utility of Nonspherical Particles in Biomedicine. *Industrial & Engineering Chemistry Research*, **2015**, 54, 4043-4059	3.9	47
37	Fund Black scientists. *Cell*, **2021**, 184, 561-565	56.2	42
36	Dynamic and cellular interactions of nanoparticles in vascular-targeted drug delivery. *Molecular Membrane Biology*, **2010**, 27, 312-27	3.4	41
35	Shear stress modulation of IL-1□nduced E-selectin expression in human endothelial cells. *PLoS ONE*, **2012**, 7, e31874	3.7	40
34	Exploring deformable particles in vascular-targeted drug delivery: Softer is only sometimes better. *Biomaterials*, **2017**, 124, 169-179	15.6	36
33	Vascular-targeted nanocarriers: design considerations and strategies for successful treatment of atherosclerosis and other vascular diseases. *Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology*, **2016**, 8, 909-926	9.2	36
32	Dynamic and cellular interactions of nanoparticles in vascular-targeted drug delivery (review). *Molecular Membrane Biology*, **2010**, 27, 190-205	3.4	35
31	PEGylation of model drug carriers enhances phagocytosis by primary human neutrophils. *Acta Biomaterialia*, **2018**, 79, 283-293	10.8	35

30	Neutrophils preferentially phagocytose elongated particles-An opportunity for selective targeting in acute inflammatory diseases. *Science Advances*, **2020**, 6, eaba1474	14.3	33
29	In vivo evaluation of vascular-targeted spheroidal microparticles for imaging and drug delivery application in atherosclerosis. *Atherosclerosis*, **2014**, 237, 279-86	3.1	30
28	Plasma protein corona modulates the vascular wall interaction of drug carriers in a material and donor specific manner. *PLoS ONE*, **2014**, 9, e107408	3.7	28
27	Increased Adhesive Potential of Antiphospholipid Syndrome Neutrophils Mediated by β2 Integrin Mac-1. *Arthritis and Rheumatology*, **2020**, 72, 114-124	9.5	27
26	Dense nanoparticles exhibit enhanced vascular wall targeting over neutrally buoyant nanoparticles in human blood flow. *Acta Biomaterialia*, **2015**, 21, 99-108	10.8	24
25	Effect of PEGylation on ligand-based targeting of drug carriers to the vascular wall in blood flow. *Langmuir*, **2013**, 29, 11127-34	4	23
24	Effect of anticoagulants on the protein corona-induced reduced drug carrier adhesion efficiency in human blood flow. *Acta Biomaterialia*, **2017**, 48, 186-194	10.8	19
23	The influence of red blood cell deformability on hematocrit profiles and platelet margination. *PLoS Computational Biology*, **2020**, 16, e1007716	5	18
22	Evaluation of Receptor-Ligand Mechanisms of Dual-Targeted Particles to an Inflamed Endothelium. *Bioengineering and Translational Medicine*, **2016**, 1, 103-115	14.8	18
21	Presence of Rigid Red Blood Cells in Blood Flow Interferes with the Vascular Wall Adhesion of Leukocytes. *Langmuir*, **2018**, 34, 2363-2372	4	17
20	Differential Impact of Plasma Proteins on the Adhesion Efficiency of Vascular-Targeted Carriers (VTCs) in Blood of Common Laboratory Animals. *Bioconjugate Chemistry*, **2015**, 26, 2419-28	6.3	15
19	Kinetics of LFA-1 mediated adhesion of human neutrophils to ICAM-1--role of E-selectin signaling post-activation. *Annals of Biomedical Engineering*, **2009**, 37, 737-48	4.7	10
18	IgA and IgM protein primarily drive plasma corona-induced adhesion reduction of PLGA nanoparticles in human blood flow. *Bioengineering and Translational Medicine*, **2017**, 2, 180-190	14.8	9
17	Design of nanovectors for therapy and imaging of cardiovascular diseases. *Methodist DeBakey Cardiovascular Journal*, **2012**, 8, 13-7	2.1	9
16	Deformable microparticles for shuttling nanoparticles to the vascular wall. *Science Advances*, **2021**, 7,	14.3	9
15	Drug carrier interaction with blood: a critical aspect for high-efficient vascular-targeted drug delivery systems. *Therapeutic Delivery*, **2015**, 6, 915-34	3.8	8
14	Laminar shear stress elicit distinct endothelial cell E-selectin expression pattern via TNFα and IL-1β activation. *Biotechnology and Bioengineering*, **2013**, 110, 999-1003	4.9	8
13	One-step fabrication of agent-loaded biodegradable microspheroids for drug delivery and imaging applications. *Colloids and Surfaces B: Biointerfaces*, **2014**, 116, 55-62	6	7

12	Modified two-step emulsion solvent evaporation technique for fabricating biodegradable rod-shaped particles in the submicron size range. *Journal of Colloid and Interface Science*, **2018**, 518, 174-183	9.2	6
11	Vascular-targeted particle binding efficacy in the presence of rigid red blood cells: Implications for performance in diseased blood. *Biomicrofluidics*, **2018**, 12, 042217	3.2	4
10	Interaction of Extracellular Vesicles with Endothelial Cells Under Physiological Flow Conditions. *Methods in Molecular Biology*, **2017**, 1545, 205-213	1.4	3
9	PLGA's Plight and the Role of Stealth Surface Modification Strategies in Its Use for Intravenous Particulate Drug Delivery.. *Advanced Healthcare Materials*, **2022**, e2101536	10.1	3
8	Effects of shape, rigidity, size, and flow on targeting **2020**, 55-66		3
7	Biodegradable, bile salt microparticles for localized fat dissolution. *Science Advances*, **2020**, 6,	14.3	3
6	Perspectives on disparities in scientific visibility. *Nature Reviews Materials*, **2021**, 6, 556-559	73.3	3
5	Model Particulate Drug Carriers Modulate Leukocyte Adhesion in Human Blood Flows. *ACS Biomaterials Science and Engineering*, **2019**, 5, 6530-6540	5.5	3
4	Characterizing bulk rigidity of rigid red blood cell populations in sickle-cell disease patients. *Scientific Reports*, **2021**, 11, 7909	4.9	2
3	Poly-salicylic Acid Polymer Microparticle Decoys Therapeutically Treat Acute Respiratory Distress Syndrome. *Advanced Healthcare Materials*, **2021**, e2101534	10.1	1
2	Dual Coating of Chitosan and Albumin Negates the Protein Corona-Induced Reduced Vascular Adhesion of Targeted PLGA Microparticles in Human Blood. *Pharmaceutics*, **2022**, 14, 1018	6.4	1
1	Method article: an blood flow model to advance the study of platelet adhesion utilizing a damaged endothelium.. *Platelets*, **2021**, 1-8	3.6	0