

# Robert G Mannino

## List of Publications by Year in descending order

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Version: 2024-02-01

32  
papers

1,100  
citations

516710

16  
h-index

552781

26  
g-index

33  
all docs

33  
docs citations

33  
times ranked

2020  
citing authors

#	ARTICLE	IF	CITATIONS
1	Covid-19 will not "magically disappear": Why access to widespread testing is paramount. American Journal of Hematology, 2021, 96, 174-178.	4.1	5
2	The RADx Tech Test Verification Core and the ACME POCT in the Evaluation of COVID-19 Testing Devices: A Model for Progress and Change. IEEE Open Journal of Engineering in Medicine and Biology, 2021, 2, 142-151.	2.3	11
3	A blueprint for academic laboratories to produce SARS-CoV-2 quantitative RT-PCR test kits. Journal of Biological Chemistry, 2020, 295, 15438-15453.	3.4	31
4	Microfluidic platform for studying osteocyte mechanoregulation of breast cancer bone metastasis. Integrative Biology (United Kingdom), 2019, 11, 119-129.	1.3	61
5	Enabling mesenchymal stromal cell immunomodulatory analysis using scalable platforms. Integrative Biology (United Kingdom), 2019, 11, 154-162.	1.3	3
6	Integrated automated particle tracking microfluidic enables high-throughput cell deformability cytometry for red cell disorders. American Journal of Hematology, 2019, 94, 189-199.	4.1	26
7	Stiff Erythrocyte Subpopulations Biomechanically Induce Endothelial Inflammation in Sickle Cell Disease. Blood, 2019, 134, 3560-3560.	1.4	4
8	Protein Corona in Response to Flow: Effect on Protein Concentration and Structure. Biophysical Journal, 2018, 115, 209-216.	0.5	48
9	Microvasculature-on-a-chip for the long-term study of endothelial barrier dysfunction and microvascular obstruction in disease. Nature Biomedical Engineering, 2018, 2, 453-463.	22.5	118
10	A microengineered vascularized bleeding model that integrates the principal components of hemostasis. Nature Communications, 2018, 9, 509.	12.8	70
11	Thrombosis-on-a-chip: Prospective impact of microphysiological models of vascular thrombosis. Current Opinion in Biomedical Engineering, 2018, 5, 29-34.	3.4	31
12	Engineering "endothelialized" microfluidics for investigating vascular and hematologic processes using non-traditional fabrication techniques. Current Opinion in Biomedical Engineering, 2018, 5, 13-20.	3.4	10
13	Endothelial cell culture in microfluidic devices for investigating microvascular processes. Biomicrofluidics, 2018, 12, 042203.	2.4	21
14	3D in vitro microvascular model-based lymphoma model. Methods in Cell Biology, 2018, 146, 149-158.	1.1	2
15	Interdigitated microelectronic bandage augments hemostasis and clot formation at low applied voltage <i>in vitro</i> and <i>in vivo</i> . Lab on A Chip, 2018, 18, 2985-2993.	6.0	7
16	Integrated Microfluidic Automated Particle Tracking Enables High-Throughput Cell Deformability Cytometry for Red Cell Disorders. Blood, 2018, 132, 1033-1033.	1.4	1
17	3D microvascular model recapitulates the diffuse large B-cell lymphoma tumor microenvironment in vitro. Lab on A Chip, 2017, 17, 407-414.	6.0	60
18	Extracellular fluid tonicity impacts sickle red blood cell deformability and adhesion. Blood, 2017, 130, 2654-2663.	1.4	47

#	ARTICLE	IF	CITATIONS
19	Single-platelet nanomechanics measured by high-throughput cytometry. <i>Nature Materials</i> , 2017, 16, 230-235.	27.5	88
20	Cellular softening mediates leukocyte demargination and trafficking, thereby increasing clinical blood counts. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 1987-1992.	7.1	82
21	“Do-it-yourself in vitro vasculature that recapitulates in vivo geometries for investigating endothelial-blood cell interactions” <i>Scientific Reports</i> , 2015, 5, 12401.	3.3	100
22	Vessel Geometry Interacts with Red Blood Cell Stiffness to Promote Endothelial Dysfunction in Sickle Cell Disease. <i>Blood</i> , 2015, 126, 965-965.	1.4	4
23	Commonly Used Clinical Intravenous Fluid Formulations Differentially Affect Sickle Red Blood Cell Stiffness and Transit Time. <i>Blood</i> , 2015, 126, 2164-2164.	1.4	0
24	Platelet mechanosensing of substrate stiffness during clot formation mediates adhesion, spreading, and activation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 14430-14435.	7.1	166
25	Disposable platform provides visual and color-based point-of-care anemia self-testing. <i>Journal of Clinical Investigation</i> , 2014, 124, 4387-4394.	8.2	48
26	Platelet Adhesion, Spreading and Activation Are Mediated By Mechanosensing of Matrix Stiffness. <i>Blood</i> , 2014, 124, 1438-1438.	1.4	0
27	Vascular Geometry and Flow Profile Mediate Pathological Cell-Cell Interactions in Sickle Cell Disease As Measured with "Do-It-Yourself" "Endothelial-ized" Microfluidics. <i>Blood</i> , 2014, 124, 454-454.	1.4	3
28	Biomechanics of haemostasis and thrombosis in health and disease: from the macro to molecular scale. <i>Journal of Cellular and Molecular Medicine</i> , 2013, 17, 579-596.	3.6	35
29	Increased Erythrocyte Rigidity Is Sufficient to Cause Endothelial Dysfunction in Sickle Cell Disease. <i>Blood</i> , 2012, 120, 818-818.	1.4	12
30	Platelet Mechanosensing: Adhesion and Spreading On Immobilized Fibrinogen Depends On Substrate Stiffness. <i>Blood</i> , 2012, 120, 384-384.	1.4	1
31	An “Endothelialized” Microfluidic System That Distinguishes Procoagulant Mechanisms in Arterial and Venous Thrombosis. <i>Blood</i> , 2012, 120, 1071-1071.	1.4	0
32	High-Throughput Nanomechanical Platelet Contraction Measurements Using Patterned Hydrogels.. <i>Blood</i> , 2012, 120, 2172-2172.	1.4	0