

# Michael J Greenberg

## List of Publications by Year in descending order

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37  
papers

1,593  
citations

304602

22  
h-index

345118

36  
g-index

48  
all docs

48  
docs citations

48  
times ranked

1704  
citing authors

#	ARTICLE	IF	CITATIONS
1	Myofilament glycation in diabetes reduces contractility by inhibiting tropomyosin movement, is rescued by cMyBPC domains. <i>Journal of Molecular and Cellular Cardiology</i> , 2022, 162, 1-9.	0.9	12
2	A pathogenic mechanism associated with myopathies and structural birth defects involves TPM2-directed myogenesis. <i>JCI Insight</i> , 2022, 7, .	2.3	4
3	Beyond genomics—technological advances improving the molecular characterization and precision treatment of heart failure. <i>Heart Failure Reviews</i> , 2021, 26, 405-415.	1.7	7
4	Complexity in genetic cardiomyopathies and new approaches for mechanism-based precision medicine. <i>Journal of General Physiology</i> , 2021, 153, .	0.9	25
5	SARS-CoV-2 Infects Human Engineered Heart Tissues and Models COVID-19 Myocarditis. <i>JACC Basic To Translational Science</i> , 2021, 6, 331-345.	1.9	121
6	Mechanical dysfunction of the sarcomere induced by a pathogenic mutation in troponin T drives cellular adaptation. <i>Journal of General Physiology</i> , 2021, 153, .	0.9	13
7	A troponin T variant linked with pediatric dilated cardiomyopathy reduces the coupling of thin filament activation to myosin and calcium binding. <i>Molecular Biology of the Cell</i> , 2021, 32, 1677-1689.	0.9	6
8	Resident cardiac macrophages mediate adaptive myocardial remodeling. <i>Immunity</i> , 2021, 54, 2072-2088.e7.	6.6	76
9	Computational Tool for Ensemble Averaging of Single-Molecule Data. <i>Biophysical Journal</i> , 2021, 120, 10-20.	0.2	11
10	Cardiac myosin contraction and mechanotransduction in health and disease. <i>Journal of Biological Chemistry</i> , 2021, 297, 101297.	1.6	36
11	Variant R94C in <i>TNNT2</i> Encoded Troponin T Predisposes to Pediatric Restrictive Cardiomyopathy and Sudden Death Through Impaired Thin Filament Relaxation Resulting in Myocardial Diastolic Dysfunction. <i>Journal of the American Heart Association</i> , 2020, 9, e015111.	1.6	17
12	Conformational distributions of isolated myosin motor domains encode their mechanochemical properties. <i>ELife</i> , 2020, 9, .	2.8	28
13	Computational Tool to Study Perturbations in Muscle Regulation and Its Application to Heart Disease. <i>Biophysical Journal</i> , 2019, 116, 2246-2252.	0.2	16
14	Cooperative Changes in Solvent Exposure Identify Cryptic Pockets, Switches, and Allosteric Coupling. <i>Biophysical Journal</i> , 2019, 116, 818-830.	0.2	42
15	Disrupted mechanobiology links the molecular and cellular phenotypes in familial dilated cardiomyopathy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 17831-17840.	3.3	46
16	Positive cardiac inotrope omecamtiv mecarbil activates muscle despite suppressing the myosin working stroke. <i>Nature Communications</i> , 2018, 9, 3838.	5.8	107
17	Genetic and Tissue Engineering Approaches to Modeling the Mechanics of Human Heart Failure for Drug Discovery. <i>Frontiers in Cardiovascular Medicine</i> , 2018, 5, 120.	1.1	13
18	Measuring the Kinetic and Mechanical Properties of Non-processive Myosins Using Optical Tweezers. <i>Methods in Molecular Biology</i> , 2017, 1486, 483-509.	0.4	21

#	ARTICLE	IF	CITATIONS
19	MEMLET: An Easy-to-Use Tool for Data Fitting and Model Comparison Using Maximum-Likelihood Estimation. <i>Biophysical Journal</i> , 2016, 111, 273-282.	0.2	58
20	A Perspective on the Role of Myosins as Mechanosensors. <i>Biophysical Journal</i> , 2016, 110, 2568-2576.	0.2	64
21	An Actin Filament Population Defined by the Tropomyosin Tpm3.1 Regulates Glucose Uptake. <i>Traffic</i> , 2015, 16, 691-711.	1.3	61
22	Mechanochemical tuning of myosin-I by the N-terminal region. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E3337-44.	3.3	38
23	A vertebrate myosin-I structure reveals unique insights into myosin mechanochemical tuning. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 2116-2121.	3.3	41
24	Inherent Force-Dependent Properties of $\hat{I}^2$ -Cardiac Myosin Contribute to the Force-Velocity Relationship of Cardiac Muscle. <i>Biophysical Journal</i> , 2014, 107, L41-L44.	0.2	98
25	Regulation and control of myosin-I by the motor and light chain-binding domains. <i>Trends in Cell Biology</i> , 2013, 23, 81-89.	3.6	52
26	Myosin IC generates power over a range of loads via a new tension-sensing mechanism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, E2433-40.	3.3	78
27	Kinetic Schemes for Post-Synchronized Single Molecule Dynamics. <i>Biophysical Journal</i> , 2012, 102, L23-L25.	0.2	24
28	Calcium Regulation of Myosin-I Tension Sensing. <i>Biophysical Journal</i> , 2012, 102, 2799-2807.	0.2	27
29	A Hearing Loss-Associated <i>myo1c</i> Mutation (R156W) Decreases the Myosin Duty Ratio and Force Sensitivity. <i>Biochemistry</i> , 2011, 50, 1831-1838.	1.2	33
30	The molecular basis of frictional loads in the in vitro motility assay with applications to the study of the loaded mechanochemistry of molecular motors. <i>Cytoskeleton</i> , 2010, 67, 273-285.	1.0	71
31	Cardiomyopathy-linked myosin regulatory light chain mutations disrupt myosin strain-dependent biochemistry. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 17403-17408.	3.3	76
32	The direct molecular effects of fatigue and myosin regulatory light chain phosphorylation on the actomyosin contractile apparatus. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2010, 298, R989-R996.	0.9	31
33	Actin in action and inaction: The differential effects of hypertrophic and dilated cardiomyopathy actin mutations on thin filament regulation. <i>Journal of Molecular and Cellular Cardiology</i> , 2010, 48, 277-278.	0.9	2
34	Removal of the cardiac myosin regulatory light chain increases isometric force production. <i>FASEB Journal</i> , 2009, 23, 3571-3580.	0.2	46
35	The molecular effects of skeletal muscle myosin regulatory light chain phosphorylation. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2009, 297, R265-R274.	0.9	56
36	Regulatory light chain mutations associated with cardiomyopathy affect myosin mechanics and kinetics. <i>Journal of Molecular and Cellular Cardiology</i> , 2009, 46, 108-115.	0.9	53

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37	Observation of Magnetoreceptive Behavior in a Multicellular Magnetotactic Prokaryote in Higher than Geomagnetic Fields. <i>Biophysical Journal</i> , 2005, 88, 1496-1499.	0.2	62