

Omer Berenfeld

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142
papers

9,459
citations

47
h-index

96
g-index

159
ext. papers

10,903
ext. citations

7.1
avg, IF

5.59
L-index

#	Paper	IF	Citations
142	Spectral analysis identifies sites of high-frequency activity maintaining atrial fibrillation in humans. <i>Circulation</i> , 2005 , 112, 789-97	16.7	659
141	Stable microreentrant sources as a mechanism of atrial fibrillation in the isolated sheep heart. <i>Circulation</i> , 2000 , 101, 194-9	16.7	584
140	A novel form of short QT syndrome (SQT3) is caused by a mutation in the KCNJ2 gene. <i>Circulation Research</i> , 2005 , 96, 800-7	15.7	495
139	Mother rotors and fibrillatory conduction: a mechanism of atrial fibrillation. <i>Cardiovascular Research</i> , 2002 , 54, 204-16	9.9	397
138	Spatiotemporal periodicity during atrial fibrillation in the isolated sheep heart. <i>Circulation</i> , 1998 , 98, 1236-48	16.7	393
137	Mechanisms of wave fractionation at boundaries of high-frequency excitation in the posterior left atrium of the isolated sheep heart during atrial fibrillation. <i>Circulation</i> , 2006 , 113, 626-33	16.7	339
136	Left-to-right gradient of atrial frequencies during acute atrial fibrillation in the isolated sheep heart. <i>Circulation</i> , 2001 , 103, 2631-6	16.7	303
135	Intra-atrial pressure increases rate and organization of waves emanating from the superior pulmonary veins during atrial fibrillation. <i>Circulation</i> , 2003 , 108, 668-71	16.7	268
134	Spatial distribution of fibrosis governs fibrillation wave dynamics in the posterior left atrium during heart failure. <i>Circulation Research</i> , 2007 , 101, 839-47	15.7	253
133	Rectification of the background potassium current: a determinant of rotor dynamics in ventricular fibrillation. <i>Circulation Research</i> , 2001 , 89, 1216-23	15.7	251
132	Real-time dominant frequency mapping and ablation of dominant frequency sites in atrial fibrillation with left-to-right frequency gradients predicts long-term maintenance of sinus rhythm. <i>Heart Rhythm</i> , 2009 , 6, 33-40	6.7	244
131	Purkinje-muscle reentry as a mechanism of polymorphic ventricular arrhythmias in a 3-dimensional model of the ventricles. <i>Circulation Research</i> , 1998 , 82, 1063-77	15.7	229
130	Activation of inward rectifier potassium channels accelerates atrial fibrillation in humans: evidence for a reentrant mechanism. <i>Circulation</i> , 2006 , 114, 2434-42	16.7	219
129	Arrhythmogenic mechanisms in a mouse model of catecholaminergic polymorphic ventricular tachycardia. <i>Circulation Research</i> , 2007 , 101, 1039-48	15.7	215
128	Distribution of excitation frequencies on the epicardial and endocardial surfaces of fibrillating ventricular wall of the sheep heart. <i>Circulation Research</i> , 2000 , 86, 408-17	15.7	205
127	Ionic determinants of functional reentry in a 2-D model of human atrial cells during simulated chronic atrial fibrillation. <i>Biophysical Journal</i> , 2005 , 88, 3806-21	2.9	190
126	Electrotonic myofibroblast-to-myocyte coupling increases propensity to reentrant arrhythmias in two-dimensional cardiac monolayers. <i>Biophysical Journal</i> , 2008 , 95, 4469-80	2.9	175

125	Frequency-dependent breakdown of wave propagation into fibrillatory conduction across the pectinate muscle network in the isolated sheep right atrium. <i>Circulation Research</i> , 2002 , 90, 1173-80	15.7	165
124	High-frequency periodic sources underlie ventricular fibrillation in the isolated rabbit heart. <i>Circulation Research</i> , 2000 , 86, 86-93	15.7	149
123	Spatially distributed dominant excitation frequencies reveal hidden organization in atrial fibrillation in the Langendorff-perfused sheep heart. <i>Journal of Cardiovascular Electrophysiology</i> , 2000 , 11, 869-79	2.7	139
122	Cholinergic atrial fibrillation: I(K,ACh) gradients determine unequal left/right atrial frequencies and rotor dynamics. <i>Cardiovascular Research</i> , 2003 , 59, 863-73	9.9	137
121	Rotor meandering contributes to irregularity in electrograms during atrial fibrillation. <i>Heart Rhythm</i> , 2008 , 5, 846-54	6.7	136
120	Blockade of the inward rectifying potassium current terminates ventricular fibrillation in the guinea pig heart. <i>Journal of Cardiovascular Electrophysiology</i> , 2003 , 14, 621-31	2.7	116
119	Up-regulation of the inward rectifier K ⁺ current (I K1) in the mouse heart accelerates and stabilizes rotors. <i>Journal of Physiology</i> , 2007 , 578, 315-26	3.9	113
118	Dominant frequency increase rate predicts transition from paroxysmal to long-term persistent atrial fibrillation. <i>Circulation</i> , 2014 , 129, 1472-82	16.7	112
117	KCNJ2 mutation in short QT syndrome 3 results in atrial fibrillation and ventricular proarrhythmia. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 4291-6	11.5	108
116	Mechanisms of atrial fibrillation termination by pure sodium channel blockade in an ionically-realistic mathematical model. <i>Circulation Research</i> , 2005 , 96, e35-47	15.7	107
115	. <i>IEEE Journal of Solid-State Circuits</i> , 2015 , 50, 375-390	5.5	102
114	Simulation of high-resolution QRS complex using a ventricular model with a fractal conduction system. Effects of ischemia on high-frequency QRS potentials. <i>Circulation Research</i> , 1991 , 68, 1751-60	15.7	99
113	AF Ablation Guided by Spatiotemporal Electrogram Dispersion Without Pulmonary Vein Isolation: A Wholly Patient-Tailored Approach. <i>Journal of the American College of Cardiology</i> , 2017 , 69, 303-321	15.1	97
112	Wavebreak formation during ventricular fibrillation in the isolated, regionally ischemic pig heart. <i>Circulation Research</i> , 2003 , 92, 546-53	15.7	92
111	Mechanisms of fractionated electrograms formation in the posterior left atrium during paroxysmal atrial fibrillation in humans. <i>Journal of the American College of Cardiology</i> , 2011 , 57, 1081-92	15.1	89
110	Heterogeneous atrial wall thickness and stretch promote scroll waves anchoring during atrial fibrillation. <i>Cardiovascular Research</i> , 2012 , 94, 48-57	9.9	89
109	Body surface localization of left and right atrial high-frequency rotors in atrial fibrillation patients: a clinical-computational study. <i>Heart Rhythm</i> , 2014 , 11, 1584-91	6.7	87
108	Dynamics of wavelets and their role in atrial fibrillation in the isolated sheep heart. <i>Cardiovascular Research</i> , 2000 , 48, 220-32	9.9	87

107	Noninvasive localization of maximal frequency sites of atrial fibrillation by body surface potential mapping. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2013 , 6, 294-301	6.4	83
106	Dynamics of intramural scroll waves in three-dimensional continuous myocardium with rotational anisotropy. <i>Journal of Theoretical Biology</i> , 1999 , 199, 383-94	2.3	81
105	From mouse to whale: a universal scaling relation for the PR Interval of the electrocardiogram of mammals. <i>Circulation</i> , 2004 , 110, 2802-8	16.7	79
104	Altered right atrial excitation and propagation in connexin40 knockout mice. <i>Circulation</i> , 2005 , 112, 2245-53	16.7	78
103	Synthesis of voltage-sensitive fluorescence signals from three-dimensional myocardial activation patterns. <i>Biophysical Journal</i> , 2003 , 85, 2673-83	2.9	71
102	Minimal principle for rotor filaments. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 8015-8	11.5	71
101	Left versus right atrial difference in dominant frequency, K(+) channel transcripts, and fibrosis in patients developing atrial fibrillation after cardiac surgery. <i>Heart Rhythm</i> , 2009 , 6, 1415-22	6.7	70
100	Galectin-3 Regulates Atrial Fibrillation Remodeling and Predicts Catheter Ablation Outcomes. <i>JACC Basic To Translational Science</i> , 2016 , 1, 143-154	8.7	70
99	Atrial septopulmonary bundle of the posterior left atrium provides a substrate for atrial fibrillation initiation in a model of vagally mediated pulmonary vein tachycardia of the structurally normal heart. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2008 , 1, 175-83	6.4	60
98	Long-term frequency gradients during persistent atrial fibrillation in sheep are associated with stable sources in the left atrium. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2012 , 5, 1160-7	6.4	58
97	Mechanisms of stretch-induced atrial fibrillation in the presence and the absence of adrenergic stimulation: interplay between rotors and focal discharges. <i>Heart Rhythm</i> , 2009 , 6, 1009-17	6.7	55
96	Fast, accurate, and fully automatic segmentation of the right ventricle in short-axis cardiac MRI. <i>Computerized Medical Imaging and Graphics</i> , 2014 , 38, 190-201	7.6	47
95	Specific residues of the cytoplasmic domains of cardiac inward rectifier potassium channels are effective antifibrillatory targets. <i>FASEB Journal</i> , 2010 , 24, 4302-12	0.9	46
94	A major role for HERG in determining frequency of reentry in neonatal rat ventricular myocyte monolayer. <i>Circulation Research</i> , 2010 , 107, 1503-11	15.7	41
93	Universal scaling law of electrical turbulence in the mammalian heart. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 20985-9	11.5	39
92	Presence and stability of rotors in atrial fibrillation: evidence and therapeutic implications. <i>Cardiovascular Research</i> , 2016 , 109, 480-92	9.9	37
91	Effect of remodelling, stretch and ischaemia on ventricular fibrillation frequency and dynamics in a heart failure model. <i>Cardiovascular Research</i> , 2005 , 65, 158-66	9.9	37
90	Molecular mechanisms and global dynamics of fibrillation: an integrative approach to the underlying basis of vortex-like reentry. <i>Journal of Theoretical Biology</i> , 2004 , 230, 475-87	2.3	34

89	The ionic bases of the action potential in isolated mouse cardiac Purkinje cell. <i>Heart Rhythm</i> , 2013 , 10, 80-7	6.7	33
88	Chloroquine terminates stretch-induced atrial fibrillation more effectively than flecainide in the sheep heart. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2012 , 5, 561-70	6.4	33
87	Eplerenone Reduces Atrial Fibrillation Burden Without Preventing Atrial Electrical Remodeling. <i>Journal of the American College of Cardiology</i> , 2017 , 70, 2893-2905	15.1	30
86	Mechanistic Approaches to Detect, Target, and Ablate the Drivers of Atrial Fibrillation. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2016 , 9, e002481	6.4	29
85	Targeting atrioventricular differences in ion channel properties for terminating acute atrial fibrillation in pigs. <i>Cardiovascular Research</i> , 2011 , 89, 843-51	9.9	29
84	Time- and frequency-domain analyses of atrial fibrillation activation rate: the optical mapping reference. <i>Heart Rhythm</i> , 2011 , 8, 1758-65	6.7	28
83	Letter by Jalife et al Regarding Article, "Quantitative Analysis of Localized Sources Identified by Focal Impulse and Rotor Modulation Mapping in Atrial Fibrillation". <i>Circulation: Arrhythmia and Electrophysiology</i> , 2015 , 8, 1296-8	6.4	26
82	2014 ,		26
81	Attraction of rotors to the pulmonary veins in paroxysmal atrial fibrillation: a modeling study. <i>Biophysical Journal</i> , 2014 , 106, 1811-21	2.9	26
80	Shaping of a scroll wave filament by cardiac fibers. <i>Physical Review E</i> , 2001 , 63, 061901	2.4	26
79	Factors affecting basket catheter detection of real and phantom rotors in the atria: A computational study. <i>PLoS Computational Biology</i> , 2018 , 14, e1006017	5	25
78	Technical Considerations on Phase Mapping for Identification of Atrial Reentrant Activity in Direct- and Inverse-Computed Electrograms. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2017 , 10,	6.4	25
77	Ectopic and reentrant activation patterns in the posterior left atrium during stretch-related atrial fibrillation. <i>Progress in Biophysics and Molecular Biology</i> , 2012 , 110, 269-77	4.7	24
76	Complex fractionated atrial electrograms: properties of time-domain versus frequency-domain methods. <i>Heart Rhythm</i> , 2009 , 6, 1475-82	6.7	24
75	Noninvasive Estimation of Epicardial Dominant High-Frequency Regions During Atrial Fibrillation. <i>Journal of Cardiovascular Electrophysiology</i> , 2016 , 27, 435-42	2.7	23
74	Spatial gradients in action potential duration created by regional magnetofection of hERG are a substrate for wavebreak and turbulent propagation in cardiomyocyte monolayers. <i>Journal of Physiology</i> , 2012 , 590, 6363-79	3.9	23
73	Mechanisms underlying the antifibrillatory action of hyperkalemia in Guinea pig hearts. <i>Biophysical Journal</i> , 2010 , 98, 2091-101	2.9	22
72	Quantifying activation frequency in atrial fibrillation to establish underlying mechanisms and ablation guidance. <i>Heart Rhythm</i> , 2007 , 4, 1225-34	6.7	22

71	Simulation of cardiac activity and the ECG using a heart model with a reaction-diffusion action potential. <i>Medical Engineering and Physics</i> , 1996 , 18, 615-25	2.4	22
70	2009 ,		22
69	Predicting filament drift in twisted anisotropy. <i>Physical Review E</i> , 2000 , 61, 1845-50	2.4	21
68	Relative contribution of changes in sodium current versus intercellular coupling on reentry initiation in 2-dimensional preparations of plakophilin-2-deficient cardiac cells. <i>Heart Rhythm</i> , 2011 , 8, 1740-8	6.7	20
67	High-rate pacing-induced atrial fibrillation effectively reveals properties of spontaneously occurring paroxysmal atrial fibrillation in humans. <i>Europace</i> , 2012 , 14, 1560-6	3.9	20
66	Endoscopic fluorescence mapping of the left atrium: a novel experimental approach for high resolution endocardial mapping in the intact heart. <i>Heart Rhythm</i> , 2007 , 4, 916-24	6.7	20
65	Mechanisms of atrial fibrillation: rotors, ionic determinants, and excitation frequency. <i>Cardiology Clinics</i> , 2014 , 32, 495-506	2.5	18
64	Cell-selective arrhythmia ablation for photomodulation of heart rhythm. <i>Science Translational Medicine</i> , 2015 , 7, 311ra172	17.5	16
63	Identification of Dominant Excitation Patterns and Sources of Atrial Fibrillation by Causality Analysis. <i>Annals of Biomedical Engineering</i> , 2016 , 44, 2364-2376	4.7	16
62	Effects of fibrosis morphology on reentrant ventricular tachycardia inducibility and simulation fidelity in patient-derived models. <i>Clinical Medicine Insights: Cardiology</i> , 2014 , 8, 1-13	3.2	15
61	Highest dominant frequency and rotor positions are robust markers of driver location during noninvasive mapping of atrial fibrillation: A computational study. <i>Heart Rhythm</i> , 2017 , 14, 1224-1233	6.7	14
60	Reentry in an accessory atrioventricular pathway as a trigger for atrial fibrillation initiation in manifest Wolff-Parkinson-White syndrome: a matter of reflection?. <i>Heart Rhythm</i> , 2008 , 5, 1238-47	6.7	13
59	Automated segmentation and reconstruction of patient-specific cardiac anatomy and pathology from in vivo MRI*. <i>Measurement Science and Technology</i> , 2012 , 23, 125405	2	12
58	Toward an understanding of the molecular mechanisms of ventricular fibrillation. <i>Journal of Interventional Cardiac Electrophysiology</i> , 2003 , 9, 119-29	2.4	12
57	A 120nW 8b Sub-ranging SAR ADC with Signal-Dependent Charge Recycling for Biomedical Applications 2015 , 2015, C60-C61		11
56	High-resolution endocardial and epicardial optical mapping in a sheep model of stretch-induced atrial fibrillation. <i>Journal of Visualized Experiments</i> , 2011 ,	1.6	11
55	The muscular network of the sheep right atrium and frequency-dependent breakdown of wave propagation. <i>The Anatomical Record</i> , 2004 , 280, 1053-61		11
54	Mechanisms of Atrial Fibrillation: Rotors, Ionic Determinants, and Excitation Frequency. <i>Heart Failure Clinics</i> , 2016 , 12, 167-78	3.3	10

53	Minimal configuration of body surface potential mapping for discrimination of left versus right dominant frequencies during atrial fibrillation. <i>PACE - Pacing and Clinical Electrophysiology</i> , 2017 , 40, 940-946	1.6	9
52	Optical Mapping. <i>Cardiac Electrophysiology Clinics</i> , 2019 , 11, 495-510	1.4	9
51	Bimodal classification algorithm for atrial fibrillation detection from m-health ECG recordings. <i>Computers in Biology and Medicine</i> , 2019 , 104, 310-318	7	9
50	Mechanisms by Which Ranolazine Terminates Paroxysmal but Not Persistent Atrial Fibrillation. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2019 , 12, e005557	6.4	8
49	Accurate reconstruction of 3D cardiac geometry from coarsely-sliced MRI. <i>Computer Methods and Programs in Biomedicine</i> , 2014 , 113, 483-93	6.9	8
48	Reduced Ventricular Arrhythmogeneity and Increased Electrical Complexity in Normal Exercised Rats. <i>PLoS ONE</i> , 2013 , 8, e66658	3.7	8
47	Far-field contributions in multi-electrodes atrial recordings blur distinction between anatomical and functional reentries and may cause imaginary phase singularities - A computational study. <i>Computers in Biology and Medicine</i> , 2019 , 108, 276-287	7	7
46	Ventricular Tachycardia and Early Fibrillation in Patients With Brugada Syndrome and Ischemic Cardiomyopathy Show Predictable Frequency-Phase Properties on the Precordial ECG Consistent With the Respective Arrhythmogenic Substrate. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2015 , 8, 1133-43	6.4	7
45	Toward discerning the mechanisms of atrial fibrillation from surface electrocardiogram and spectral analysis. <i>Journal of Electrocardiology</i> , 2010 , 43, 509-14	1.4	7
44	Modeling of the heart's ventricular conduction system using fractal geometry: spectral analysis of the QRS complex. <i>Annals of Biomedical Engineering</i> , 1993 , 21, 125-34	4.7	7
43	Ionic and substrate mechanism of atrial fibrillation: rotors and the exitacit frequency approach. <i>Archivos De Cardiologia De Mexico</i> , 2010 , 80, 301-14	0.2	7
42	Spectral analysis-based risk score enables early prediction of mortality and cerebral performance in patients undergoing therapeutic hypothermia for ventricular fibrillation and comatose status. <i>International Journal of Cardiology</i> , 2015 , 186, 250-8	3.2	6
41	Frontiers in Non-invasive Cardiac Mapping: Rotors in Atrial Fibrillation-Body Surface Frequency-Phase Mapping. <i>Cardiac Electrophysiology Clinics</i> , 2015 , 7, 59-69	1.4	6
40	Interdependence of virtual electrode polarization and conduction velocity during premature stimulation. <i>Journal of Electrocardiology</i> , 2006 , 39, S13-8	1.4	5
39	Mechanistic Comparison of "Nearly Missed" Versus "On-Target" Rotor Ablation. <i>JACC: Clinical Electrophysiology</i> , 2015 , 1, 256-269	4.6	4
38	Surface and intramural reentrant patterns during atrial fibrillation in the sheep. <i>Methods of Information in Medicine</i> , 2014 , 53, 314-9	1.5	4
37	The Major Role of in Mechanisms of Rotor Drift in the Atria: A Computational Study. <i>Clinical Medicine Insights: Cardiology</i> , 2016 , 10, 71-79	3.2	4
36	Letter by Berenfeld and Jalife regarding article "dominant frequency of atrial fibrillation correlates poorly with atrial fibrillation cycle length". <i>Circulation: Arrhythmia and Electrophysiology</i> , 2010 , 3, e1; author reply e2-3	6.4	3

35	Theory of Reentry 2004 , 317-326		3
34	To the Editor- Concerns in multi-electrode and phase mapping of AF. <i>Heart Rhythm</i> , 2018 , 15, e3-e4	6.7	3
33	Atrial sources identification by causality analysis during atrial fibrillation. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2015 , 2015, 3783-6	0.9	2
32	EQUILIBRATION OF SCROLL WAVE FILAMENTS IN THE VENTRICULAR WALL AND THE MINIMAL PRINCIPLE. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2003 , 13, 3723-3731	2	2
31	Electrocardiographic Imaging for Atrial Fibrillation: A Perspective From Computer Models and Animal Experiments to Clinical Value. <i>Frontiers in Physiology</i> , 2021 , 12, 653013	4.6	2
30	Impulse Initiation and Propagation in Cardiac Muscle92-120		2
29	Rotors, Spirals, and Scroll Waves in the Heart191-223		2
28	Rotors in Animal Models of Atrial Fibrillation 2019 , 330-342		1
27	Causality analysis of leading singular value decomposition modes identifies rotor as the dominant driving normal mode in fibrillation. <i>Chaos</i> , 2018 , 28, 013128	3.3	1
26	Are multi-electrode arrays able to differentiate anatomical from functional reentries in an excitable sheet? 2015 ,		1
25	Dominant Frequency and the Mechanisms of Initiation and Maintenance of Atrial Fibrillation 2014 , 419-432		1
24	Action potential alternans in LQT3 syndrome: a simulation study. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2007 , 2007, 640-3		1
23	Overexpression of the inward rectifier K+ current (IK1) accelerates and stabilizes rotors. <i>FASEB Journal</i> , 2007 , 21, A1157	0.9	1
22	Dominant Frequency Mapping to Assess the Consequences of Remodeling in the Mechanism of Atrial Fibrillation 2008 , 77-100		1
21	Computational Approaches for Accurate Rotor Localization in the Human Atria 2018 , 335-344		1
20	Short-wave infrared light imaging measures tissue moisture and distinguishes superficial from deep burns. <i>Wound Repair and Regeneration</i> , 2020 , 28, 185-193	3.6	1
19	Inheritable Arrhythmogenic Diseases276-315		1
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- 16 Panoramic Endocardial Optical Mapping Demonstrates Serial Rotors Acceleration and Increasing Complexity of Activity During Onset of Cholinergic Atrial Fibrillation. *Journal of the American Heart Association*, **2021**, 10, e022300 6 0
- 15 Phase Mapping of Human Atrial Fibrillation **2019**, 652-659
- 14 Mapping of Rotors in Atrial Fibrillation: From Animal Models to Humans **2012**, 108-118
- 13 Spatiotemporal and spectral characteristics of atrial fibrillation waves across atrial walls and remodeling. *Heart Rhythm*, **2010**, 7, 518-9 6.7
- 12 Reentry in Cardioversion: We can see it from here... *Heart Rhythm*, **2009**, 6, 98-9 6.7
- 11 Turning on/off the dome in phase 2 reentry: the switching wave hypothesis. *Heart Rhythm*, **2009**, 6, 823-4 6.7
- 10 Mechanisms of Atrial Fibrillation in Animals and Humans **2009**, 61-74
- 9 Frontiers in noninvasive cardiac mapping rotors in atrial fibrillation-body surface frequency-phase mapping. *Cardiac Electrophysiology Clinics*, **2015**, 7, 59-69 1.4
- 8 Ionic Channels and Fibrillation. *Basic Science for the Cardiologist*, **2002**, 335-359
- 7 Mechanisms of Maintenance of Atrial Fibrillation **2004**, 363-374
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