

# Alexander Aranyosi

## List of Publications by Year in descending order

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Version: 2024-02-01

31  
papers

2,032  
citations

394421

19  
h-index

580821

25  
g-index

31  
all docs

31  
docs citations

31  
times ranked

2477  
citing authors

#	ARTICLE	IF	CITATIONS
1	Battery-free, skin-interfaced microfluidic/electronic systems for simultaneous electrochemical, colorimetric, and volumetric analysis of sweat. <i>Science Advances</i> , 2019, 5, eaav3294.	10.3	497
2	Soft, Skin-Integrated Multifunctional Microfluidic Systems for Accurate Colorimetric Analysis of Sweat Biomarkers and Temperature. <i>ACS Sensors</i> , 2019, 4, 379-388.	7.8	239
3	Longitudinally propagating traveling waves of the mammalian tectorial membrane. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 16510-16515.	7.1	155
4	Tunable Nanostructured Coating for the Capture and Selective Release of Viable Circulating Tumor Cells. <i>Advanced Materials</i> , 2015, 27, 1593-1599.	21.0	144
5	Skin-interfaced microfluidic system with personalized sweating rate and sweat chloride analytics for sports science applications. <i>Science Advances</i> , 2020, 6, .	10.3	110
6	Soft Wearable Systems for Colorimetric and Electrochemical Analysis of Biofluids. <i>Advanced Functional Materials</i> , 2020, 30, 1907269.	14.9	92
7	Directional decisions during neutrophil chemotaxis inside bifurcating channels. <i>Integrative Biology (United Kingdom)</i> , 2010, 2, 639.	1.3	85
8	Soft, skin-interfaced wearable systems for sports science and analytics. <i>Current Opinion in Biomedical Engineering</i> , 2019, 9, 47-56.	3.4	84
9	Soft, skin-interfaced microfluidic systems with integrated immunoassays, fluorometric sensors, and impedance measurement capabilities. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 27906-27915.	7.1	84
10	Tectorial membrane travelling waves underlie abnormal hearing in <i>Tectb</i> mutant mice. <i>Nature Communications</i> , 2010, 1, 96.	12.8	79
11	Epithelial cell guidance by self-generated EGF gradients. <i>Integrative Biology (United Kingdom)</i> , 2012, 4, 259.	1.3	79
12	Soft, skin-interfaced microfluidic systems with integrated enzymatic assays for measuring the concentration of ammonia and ethanol in sweat. <i>Lab on A Chip</i> , 2020, 20, 84-92.	6.0	67
13	Soft, skin-interfaced sweat stickers for cystic fibrosis diagnosis and management. <i>Science Translational Medicine</i> , 2021, 13, .	12.4	65
14	Skin-Interfaced Microfluidic Systems that Combine Hard and Soft Materials for Demanding Applications in Sweat Capture and Analysis. <i>Advanced Healthcare Materials</i> , 2021, 10, e2000722.	7.6	40
15	Frequency-Dependent Shear Impedance of the Tectorial Membrane. <i>Biophysical Journal</i> , 2008, 95, 2529-2538.	0.5	32
16	Sound-Induced Motions of Individual Cochlear Hair Bundles. <i>Biophysical Journal</i> , 2004, 87, 3536-3546.	0.5	30
17	Skin-interfaced soft microfluidic systems with modular and reusable electronics for <i>in situ</i> capacitive sensing of sweat loss, rate and conductivity. <i>Lab on A Chip</i> , 2020, 20, 4391-4403.	6.0	23
18	Col11a2 Deletion Reveals the Molecular Basis for Tectorial Membrane Mechanical Anisotropy. <i>Biophysical Journal</i> , 2009, 96, 4717-4724.	0.5	20

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19	Skin-Interfaced Microfluidic System with Machine Learning-Enabled Image Processing of Sweat Biomarkers in Remote Settings. <i>Advanced Materials Technologies</i> , 2022, 7, .	5.8	20
20	Tectorial Membrane Material Properties in Tecta1870/+ Heterozygous Mice. <i>Biophysical Journal</i> , 2010, 99, 3274-3281.	0.5	18
21	Microfluidic mazes to characterize T-cell exploration patterns following activation in vitro. <i>Integrative Biology (United Kingdom)</i> , 2015, 7, 1423-1431.	1.3	18
22	Rapid Capture and Extraction of Sweat for Regional Rate and Cytokine Composition Analysis Using a Wearable Soft Microfluidic System. <i>Journal of Investigative Dermatology</i> , 2021, 141, 433-437.e3.	0.7	17
23	A neutrophil treadmill to decouple spatial and temporal signals during chemotaxis. <i>Lab on A Chip</i> , 2015, 15, 549-556.	6.0	15
24	Two modes of motion of the alligator lizard cochlea: Measurements and model predictions. <i>Journal of the Acoustical Society of America</i> , 2005, 118, 1585-1592.	1.1	8
25	Sweating Rate and Sweat Chloride Concentration of Elite Male Basketball Players Measured With a Wearable Microfluidic Device Versus the Standard Absorbent Patch Method. <i>International Journal of Sport Nutrition and Exercise Metabolism</i> , 2022, 32, 342-349.	2.1	4
26	A 'TWIN-ENGINE' MODEL OF LEVEL-DEPENDENT COCHLEAR MOTION. , 2006, , .		3
27	TRAVELING WAVES ON THE TECTORIAL MEMBRANE. , 2009, , .		1
28	TECTORIAL MEMBRANE TRAVELING WAVES: A NEW MECHANISM FOR LONGITUDINAL COUPLING. , 2009, , .		1
29	Stiffness vs Damping in the Cochlea: A Negative Conclusion?. , 2011, , .		1
30	MEASURED AND MODELED MOTION OF FREE-STANDING HAIR BUNDLES IN RESPONSE TO SOUND STIMULATION. , 2003, , .		1
31	Tectorial Membrane Traveling Waves Underlie Impaired Hearing in Tectb Mutant Mice. , 2011, , .		0