Ahyeon Koh

List of Publications by Year
in descending order

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32 papers	2,343 citations	430874 18 h-index	477307 29 g-index
33 all docs	33 docs citations	33 times ranked	3808 citing authors

#	Article	IF	Citations
1	A soft, wearable microfluidic device for the capture, storage, and colorimetric sensing of sweat. Science Translational Medicine, 2016, 8, 366ra165.	12.4	933
2	Biocompatible Materials for Continuous Glucose Monitoring Devices. Chemical Reviews, 2013, 113, 2528-2549.	47.7	276
3	Wearable Technology for Chronic Wound Monitoring: Current Dressings, Advancements, and Future Prospects. Frontiers in Bioengineering and Biotechnology, 2018, 6, 47.	4.1	132
4	Superâ€Absorbent Polymer Valves and Colorimetric Chemistries for Timeâ€Sequenced Discrete Sampling and Chloride Analysis of Sweat via Skinâ€Mounted Soft Microfluidics. Small, 2018, 14, e1703334.	10.0	119
5	Local delivery of nitric oxide: Targeted delivery of therapeutics to bone and connective tissues. Advanced Drug Delivery Reviews, 2012, 64, 1177-1188.	13.7	110
6	Needle-shaped ultrathin piezoelectric microsystem for guided tissue targeting via mechanical sensing. Nature Biomedical Engineering, 2018, 2, 165-172.	22.5	108
7	Stress Monitoring and Recent Advancements in Wearable Biosensors. Frontiers in Bioengineering and Biotechnology, 2020, 8, 1037.	4.1	67
8	Chemical Sensing Systems that Utilize Soft Electronics on Thin Elastomeric Substrates with Open Cellular Designs. Advanced Functional Materials, 2017, 27, 1605476.	14.9	64
9	Skin-inspired, open mesh electrochemical sensors for lactate and oxygen monitoring. Biosensors and Bioelectronics, 2019, 132, 343-351.	10.1	58
10	Fabrication of Nitric Oxide-Releasing Porous Polyurethane Membranes-Coated Needle-type Implantable Glucose Biosensors. Analytical Chemistry, 2013, 85, 10488-10494.	6.5	57
11	The effect of nitric oxide surface flux on the foreign body response to subcutaneous implants. Biomaterials, 2012, 33, 6305-6312.	11.4	56
12	Sweat and saliva cortisol response to stress and nutrition factors. Scientific Reports, 2020, 10, 19050.	3.3	52
13	Ultrathin Injectable Sensors of Temperature, Thermal Conductivity, and Heat Capacity for Cardiac Ablation Monitoring. Advanced Healthcare Materials, 2016, 5, 373-381.	7.6	47
14	Nitric Oxide-Releasing Silica Nanoparticle-Doped Polyurethane Electrospun Fibers. ACS Applied Materials & Interfaces, 2013, 5, 7956-7964.	8.0	43
15	Biopower-on-Skin: Electricity generation from sweat-eating bacteria for self-powered E-Skins. Nano Energy, 2020, 75, 104994.	16.0	43
16	Comparison of Colorimetric Analyses to Determine Cortisol in Human Sweat. ACS Omega, 2020, 5, 8211-8218.	3.5	41
17	Glucose Sensor Membranes for Mitigating the Foreign Body Response. Journal of Diabetes Science and Technology, 2011, 5, 1052-1059.	2.2	36
18	Fabrication of nitric oxide-releasing polyurethane glucose sensor membranes. Biosensors and Bioelectronics, 2011, 28, 17-24.	10.1	34

#	Article	IF	Citations
19	Upcycling Compact Discs for Flexible and Stretchable Bioelectronic Applications. Nature Communications, 2022, 13, .	12.8	16
20	Electronicâ€ECM: A Permeable Microporous Elastomer for an Advanced Bioâ€Integrated Continuous Sensing Platform. Advanced Materials Technologies, 2020, 5, 2000242.	5.8	14
21	A low-cost, composite collagen-PDMS material for extended fluid retention in the skin-interfaced microfluidic devices. Colloids and Interface Science Communications, 2020, 38, 100301.	4.1	11
22	Adhesive-Free, Stretchable, and Permeable Multiplex Wound Care Platform. ACS Sensors, 2022, 7, 1996-2005.	7.8	7
23	Highly Conductive Collagen by Low-Temperature Atomic Layer Deposition of Platinum. ACS Applied Materials & Interfaces, 2020, 12, 44371-44380.	8.0	6
24	Simple and Ultrasensitive Chemically Amplified Electrochemical Detection of Ferrocenemethanol on 4-Nitrophenyl Grafted Glassy Carbon Electrode. Journal of Electrochemical Science and Technology, 2016, 7, 286-292.	2.2	3
25	A Skin-Mountable Bacteria-Powered Battery System for Self-Powered Medical Devices. , 2020, , .		2
26	Covalent Immobilization of Diaphorase in Viologen Polymer Network for Highly Sensitive Detection of NAD⁺and NADH. Journal of Electrochemical Science and Technology, 2014, 5, 19-22.	2.2	2
27	Dietary Factors, Time of the Week, Physical Fitness and Saliva Cortisol: Their Modulatory Effect on Mental Distress and Mood. International Journal of Environmental Research and Public Health, 2022, 19, 7001.	2.6	2
28	Sweat cortisol response to stress, macronutrient consumption and birth control. , 2019, , .		1
29	Biofluidâ€Permeable Electronics: Electronicâ€ECM: A Permeable Microporous Elastomer for an Advanced Bioâ€Integrated Continuous Sensing Platform (Adv. Mater. Technol. 7/2020). Advanced Materials Technologies, 2020, 5, 2070043.	5.8	1
30	Covalent Immobilization of Diaphorase in Viologen Polymer Network for Highly Sensitive Detection of NAD+ and NADH. Journal of Electrochemical Science and Technology, 2014, 5, 19-22.	2.2	1
31	Simple and Ultrasensitive Chemically Amplified Electrochemical Detection of Ferrocenemethanol on 4-Nitrophenyl Grafted Glassy Carbon Electrode. Journal of Electrochemical Science and Technology, 2016, 7, 286-292.	2.2	1
32	Ultrathin Injectable Sensors: Ultrathin Injectable Sensors of Temperature, Thermal Conductivity, and Heat Capacity for Cardiac Ablation Monitoring (Adv. Healthcare Mater. 3/2016). Advanced Healthcare Materials, 2016, 5, 394-394.	7.6	0