Woon-Hong Yeo

List of Publications by Citations

Source: https://exaly.com/author-pdf/5041544/woon-hong-yeo-publications-by-citations.pdf

Version: 2024-04-10

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

113
papers5,881
citations28
h-index75
g-index138
ext. papers7,246
ext. citations9.5
avg, IF5.88
L-index

#	Paper	IF	Citations
113	Ultrathin conformal devices for precise and continuous thermal characterization of humanskin. <i>Nature Materials</i> , 2013 , 12, 938-44	27	826
112	Fractal design concepts for stretchable electronics. <i>Nature Communications</i> , 2014 , 5, 3266	17.4	625
111	Multifunctional epidermal electronics printed directly onto the skin. Advanced Materials, 2013, 25, 277	3- 8 4	590
110	Materials and optimized designs for human-machine interfaces via epidermal electronics. <i>Advanced Materials</i> , 2013 , 25, 6839-46	24	509
109	Advanced Soft Materials, Sensor Integrations, and Applications of Wearable Flexible Hybrid Electronics in Healthcare, Energy, and Environment. <i>Advanced Materials</i> , 2020 , 32, e1901924	24	305
108	Rugged and breathable forms of stretchable electronics with adherent composite substrates for transcutaneous monitoring. <i>Nature Communications</i> , 2014 , 5, 4779	17.4	245
107	Soft, curved electrode systems capable of integration on the auricle as a persistent brain-computer interface. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 3920-5	11.5	238
106	Experimental and Theoretical Studies of Serpentine Microstructures Bonded To Prestrained Elastomers for Stretchable Electronics. <i>Advanced Functional Materials</i> , 2014 , 24, 2028-2037	15.6	220
105	Capacitive epidermal electronics for electrically safe, long-term electrophysiological measurements. <i>Advanced Healthcare Materials</i> , 2014 , 3, 642-8	10.1	200
104	Multifunctional skin-like electronics for quantitative, clinical monitoring of cutaneous wound healing. <i>Advanced Healthcare Materials</i> , 2014 , 3, 1597-607	10.1	175
103	An Epidermal Stimulation and Sensing Platform for Sensorimotor Prosthetic Control, Management of Lower Back Exertion, and Electrical Muscle Activation. <i>Advanced Materials</i> , 2016 , 28, 4462-71	24	173
102	Soft Material-Enabled, Flexible Hybrid Electronics for Medicine, Healthcare, and Human-Machine Interfaces. <i>Materials</i> , 2018 , 11,	3.5	108
101	Epidermal differential impedance sensor for conformal skin hydration monitoring. <i>Biointerphases</i> , 2012 , 7, 52	1.8	103
100	Wireless, intraoral hybrid electronics for real-time quantification of sodium intake toward hypertension management. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 5377-5382	11.5	92
99	Immunologic and tissue biocompatibility of flexible/stretchable electronics and optoelectronics. <i>Advanced Healthcare Materials</i> , 2014 , 3, 515-25	10.1	80
98	Mechanically transformative electronics, sensors, and implantable devices. <i>Science Advances</i> , 2019 , 5, eaay0418	14.3	7º
97	Soft, wireless periocular wearable electronics for real-time detection of eye vergence in a virtual reality toward mobile eye therapies. <i>Science Advances</i> , 2020 , 6, eaay1729	14.3	61

(2021-2020)

96	All-printed nanomembrane wireless bioelectronics using a biocompatible solderable graphene for multimodal human-machine interfaces. <i>Nature Communications</i> , 2020 , 11, 3450	17.4	60
95	Fully portable and wireless universal brainhachine interfaces enabled by flexible scalp electronics and deep learning algorithm. <i>Nature Machine Intelligence</i> , 2019 , 1, 412-422	22.5	58
94	Soft, conformal bioelectronics for a wireless human-wheelchair interface. <i>Biosensors and Bioelectronics</i> , 2017 , 91, 796-803	11.8	56
93	All-in-One, Wireless, Stretchable Hybrid Electronics for Smart, Connected, and Ambulatory Physiological Monitoring. <i>Advanced Science</i> , 2019 , 6, 1900939	13.6	55
92	Immunosensor towards low-cost, rapid diagnosis of tuberculosis. <i>Lab on A Chip</i> , 2012 , 12, 1437-40	7.2	51
91	Recent advances in salivary cancer diagnostics enabled by biosensors and bioelectronics. <i>Biosensors and Bioelectronics</i> , 2016 , 81, 181-197	11.8	42
90	Fully Integrated, Stretchable, Wireless Skin-Conformal Bioelectronics for Continuous Stress Monitoring in Daily Life. <i>Advanced Science</i> , 2020 , 7, 2000810	13.6	40
89	Manipulation of nanoparticles and biomolecules by electric field and surface tension. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2008 , 197, 2156-2172	5.7	32
88	Printed, Soft, Nanostructured Strain Sensors for Monitoring of Structural Health and Human Physiology. <i>ACS Applied Materials & Amp; Interfaces</i> , 2020 , 12, 25020-25030	9.5	31
87	Size-specific concentration of DNA to a nanostructured tip using dielectrophoresis and capillary action. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 10849-58	3.4	31
86	Advances in Materials for Recent Low-Profile Implantable Bioelectronics. <i>Materials</i> , 2018 , 11,	3.5	26
85	Fully Printed, Wireless, Stretchable Implantable Biosystem toward Batteryless, Real-Time Monitoring of Cerebral Aneurysm Hemodynamics. <i>Advanced Science</i> , 2019 , 6, 1901034	13.6	26
84	Ultrahigh Conductivity and Superior Interfacial Adhesion of a Nanostructured, Photonic-Sintered Copper Membrane for Printed Flexible Hybrid Electronics. <i>ACS Applied Materials & Competed Materials &</i>	9.5	26
83	Soft Electronics Enabled Ergonomic Human-Computer Interaction for Swallowing Training. <i>Scientific Reports</i> , 2017 , 7, 46697	4.9	25
82	Recent Advances in Wearable Sensors and Integrated Functional Devices for Virtual and Augmented Reality Applications. <i>Advanced Functional Materials</i> , 2020 , 31, 2005692	15.6	23
81	Rapid detection of Mycobacterium tuberculosis cells by using microtip-based immunoassay. <i>Analytical and Bioanalytical Chemistry</i> , 2009 , 393, 1593-600	4.4	21
80	Advances in Screen Printing of Conductive Nanomaterials for Stretchable Electronics. <i>ACS Omega</i> , 2021 , 6, 9344-9351	3.9	21
79	Recent advances in wearable sensors and portable electronics for sleep monitoring. <i>IScience</i> , 2021 , 24, 102461	6.1	21

78	Recent advances in graphene-based nanobiosensors for salivary biomarker detection. <i>Biosensors and Bioelectronics</i> , 2021 , 171, 112723	11.8	19
77	Electrospun CuS/PVP Nanowires and Superior Near-Infrared Filtration Efficiency for Thermal Shielding Applications. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 6575-6580	9.5	18
76	Dielectrophoretic concentration of low-abundance nanoparticles using a nanostructured tip. <i>Nanotechnology</i> , 2012 , 23, 485707	3.4	18
75	Stretchable Nanocomposite Sensors, Nanomembrane Interconnectors, and Wireless Electronics toward Feedback-Loop Control of a Soft Earthworm Robot. <i>ACS Applied Materials & Discrete Sensors</i> , 2020 , 12, 43388-43397	9.5	17
74	Skin-conformal, soft material-enabled bioelectronic system with minimized motion artifacts for reliable health and performance monitoring of athletes. <i>Biosensors and Bioelectronics</i> , 2020 , 151, 11198	11.8	16
73	Printed, Wireless, Soft Bioelectronics and Deep Learning Algorithm for Smart Human-Machine Interfaces. <i>ACS Applied Materials & Samp; Interfaces</i> , 2020 , 12, 49398-49406	9.5	16
72	Stretchable, Implantable, Nanostructured Flow-Diverter System for Quantification of Intra-aneurysmal Hemodynamics. <i>ACS Nano</i> , 2018 , 12, 8706-8716	16.7	15
71	Electrostatic dimension of aligned-array carbon nanotube field-effect transistors. <i>ACS Nano</i> , 2013 , 7, 1299-308	16.7	15
70	Recent Advances in Portable Biosensors for Biomarker Detection in Body Fluids. <i>Biosensors</i> , 2020 , 10,	5.9	15
69	Soft Materials, Stretchable Mechanics, and Optimized Designs for Body-Wearable Compliant Antennas. <i>ACS Applied Materials & amp; Interfaces</i> , 2020 , 12, 3059-3067	9.5	14
68	Advanced Nanomaterials, Printing Processes, and Applications for Flexible Hybrid Electronics. <i>Materials</i> , 2020 , 13,	3.5	14
67	Wireless Soft Scalp Electronics and Virtual Reality System for Motor Imagery-Based Brain-Machine Interfaces. <i>Advanced Science</i> , 2021 , 8, e2101129	13.6	14
66	Breathable, large-area epidermal electronic systems for recording electromyographic activity during operant conditioning of H-reflex. <i>Biosensors and Bioelectronics</i> , 2020 , 165, 112404	11.8	13
65	Nanoscale sensor analysis using the immersed molecular electrokinetic finite element method. <i>Nanoscale</i> , 2012 , 4, 5189-94	7.7	13
64	Multi-Functional Electronics: Multifunctional Epidermal Electronics Printed Directly Onto the Skin (Adv. Mater. 20/2013). <i>Advanced Materials</i> , 2013 , 25, 2772-2772	24	13
63	Microstructured Thin Film Nitinol for a Neurovascular Flow-Diverter. <i>Scientific Reports</i> , 2016 , 6, 23698	4.9	13
62	Wireless, Flexible, Ion-Selective Electrode System for Selective and Repeatable Detection of Sodium. <i>Sensors</i> , 2020 , 20,	3.8	12
61	Size-selective immunofluorescence of Mycobacterium tuberculosis cells by capillary- and viscous forces. <i>Lab on A Chip</i> , 2010 , 10, 3178-81	7.2	12

(2013-2009)

60	Nanostructured biosensing platform-shadow edge lithography for high-throughput nanofabrication. <i>Lab on A Chip</i> , 2009 , 9, 449-55	7.2	12
59	All-in-one, wireless, fully flexible sodium sensor system with integrated Au/CNT/Au nanocomposites. <i>Sensors and Actuators B: Chemical</i> , 2021 , 331, 129416	8.5	12
58	Recent advances in wearable biosensing gloves and sensory feedback biosystems for enhancing rehabilitation, prostheses, healthcare, and virtual reality. <i>Biosensors and Bioelectronics</i> , 2021 , 190, 1134	4 ¹ 3 ^{1.8}	12
57	Recent Advances in Nanoparticle Concentration and Their Application in Viral Detection Using Integrated Sensors. <i>Sensors</i> , 2017 , 17,	3.8	11
56	Electric field-induced concentration and capture of DNA onto microtips. <i>Microfluidics and Nanofluidics</i> , 2012 , 13, 217-225	2.8	11
55	Phase Behavior for the Poly(phenyl methacrylate) and Phenyl Methacrylate in Supercritical Carbon Dioxide and Dimethyl Ether. <i>Journal of Chemical & Dioxide and Dimethyl Ether</i> . <i>Journal of Chemical & Dioxide and Dimethyl Ether</i> .	2.8	10
54	Nanotip analysis for dielectrophoretic concentration of nanosized viral particles. <i>Nanotechnology</i> , 2013 , 24, 185502	3.4	10
53	Ultrahigh Sensitive Au-Doped Silicon Nanomembrane Based Wearable Sensor Arrays for Continuous Skin Temperature Monitoring with High Precision. <i>Advanced Materials</i> , 2021 , e2105865	24	10
52	Wireless, Skin-Like Membrane Electronics With Multifunctional Ergonomic Sensors for Enhanced Pediatric Care. <i>IEEE Transactions on Biomedical Engineering</i> , 2020 , 67, 2159-2165	5	10
51	Strain-Isolating Materials and Interfacial Physics for Soft Wearable Bioelectronics and Wireless, Motion Artifact-Controlled Health Monitoring. <i>Advanced Functional Materials</i> , 2021 , 31, 2104070	15.6	10
50	Ultrathin, long-term stable, solid-state reference electrode enabled by enhanced interfacial adhesion and conformal coating of AgCl. <i>Sensors and Actuators B: Chemical</i> , 2020 , 309, 127761	8.5	9
49	Soft Nanomembrane Sensors and Flexible Hybrid Bioelectronics for Wireless Quantification of Blepharospasm. <i>IEEE Transactions on Biomedical Engineering</i> , 2020 , 67, 3094-3100	5	9
48	Thin dielectric-layer-enabled low-voltage operation of fully printed flexible carbon nanotube thin-film transistors. <i>Nanotechnology</i> , 2020 , 31, 235301	3.4	9
47	Enhanced bioreaction efficiency of a microfluidic mixer toward high-throughput and low-cost bioassays. <i>Microfluidics and Nanofluidics</i> , 2012 , 12, 143-156	2.8	9
46	Epidermal Electronics: Materials and Optimized Designs for Human-Machine Interfaces Via Epidermal Electronics (Adv. Mater. 47/2013). <i>Advanced Materials</i> , 2013 , 25, 6776-6776	24	9
45	Wireless, continuous monitoring of daily stress and management practice via soft bioelectronics. <i>Biosensors and Bioelectronics</i> , 2020 , 173, 112764	11.8	8
44	Green Manufacturing of Highly Conductive Cu2O and Cu Nanoparticles for Photonic-Sintered Printed Electronics. <i>ACS Applied Electronic Materials</i> , 2019 , 1, 2069-2075	4	7
43	Rapid extraction and preservation of genomic DNA from human samples. <i>Analytical and Bioanalytical Chemistry</i> , 2013 , 405, 1977-83	4.4	7

42	Recent Advances in Printing Technologies of Nanomaterials for Implantable Wireless Systems in Health Monitoring and Diagnosis. <i>Advanced Healthcare Materials</i> , 2021 , 10, e2100158	10.1	7
41	Development of Flexible Ion-Selective Electrodes for Saliva Sodium Detection. <i>Sensors</i> , 2021 , 21,	3.8	7
40	At-home wireless monitoring of acute hemodynamic disturbances to detect sleep apnea and sleep stages via a soft sternal patch <i>Science Advances</i> , 2021 , 7, eabl4146	14.3	7
39	Fully implantable wireless batteryless vascular electronics with printed soft sensors for multiplex sensing of hemodynamics <i>Science Advances</i> , 2022 , 8, eabm1175	14.3	7
38	Challenges and Advances in Aerosol Jet Printing of Regenerated Silk Fibroin Solutions. <i>Advanced Materials Interfaces</i> , 2020 , 7, 1902005	4.6	6
37	Hybrid nanofibril assembly using an alternating current electric field and capillary action. <i>Journal of Nanoscience and Nanotechnology</i> , 2009 , 9, 7288-92	1.3	6
36	Development of 60-GHz millimeter wave, electromagnetic bandgap ground planes for multiple-input multiple-output antenna applications. <i>Scientific Reports</i> , 2020 , 10, 8541	4.9	6
35	Flexible Electronics: An Epidermal Stimulation and Sensing Platform for Sensorimotor Prosthetic Control, Management of Lower Back Exertion, and Electrical Muscle Activation (Adv. Mater. 22/2016). <i>Advanced Materials</i> , 2016 , 28, 4563	24	6
34	Soft Wireless Bioelectronics and Differential Electrodermal Activity for Home Sleep Monitoring. <i>Sensors</i> , 2021 , 21,	3.8	6
33	Soft Material-Enabled, Active Wireless, Thin-Film Bioelectronics for Quantitative Diagnostics of Cervical Dystonia. <i>Advanced Materials Technologies</i> , 2019 , 4, 1900458	6.8	5
32	An electromechanical, patient positioning system for head and neck radiotherapy. <i>Physics in Medicine and Biology</i> , 2017 , 62, 7520-7531	3.8	5
31	Wearable Flexible Hybrid Electronics: Advanced Soft Materials, Sensor Integrations, and Applications of Wearable Flexible Hybrid Electronics in Healthcare, Energy, and Environment (Adv. Mater. 15/2020). <i>Advanced Materials</i> , 2020 , 32, 2070116	24	5
30	Fabrication and Characterization of a Conformal Skin-like Electronic System for Quantitative, Cutaneous Wound Management. <i>Journal of Visualized Experiments</i> , 2015 ,	1.6	4
29	Phase behaviour of binary and ternary mixtures for the poly(methyl methacrylate-co-hexafluorobutyl methacrylate) [P(MMA-co-HFBMA)] in supercritical fluorine solvents. <i>Journal of Chemical Thermodynamics</i> , 2015 , 82, 76-87	2.9	3
28	Use of Superelastic Nitinol and Highly-Stretchable Latex to Develop a Tongue Prosthetic Assist Device and Facilitate Swallowing for Dysphagia Patients. <i>Materials</i> , 2019 , 12,	3.5	3
27	Breathable, Wireless, Thin-Film Wearable Biopatch Using Noise-Reduction Mechanisms. <i>ACS Applied Electronic Materials</i> , 2022 , 4, 503-512	4	3
26	Real-Time Functional Assay of Volumetric Muscle Loss Injured Mouse Masseter Muscles via Nanomembrane Electronics. <i>Advanced Science</i> , 2021 , 8, e2101037	13.6	3
25	Soft Wireless Bioelectronics Designed for Real-Time, Continuous Health Monitoring of Farmworkers <i>Advanced Healthcare Materials</i> , 2022 , e2200170	10.1	3

24	Smart bioelectronic pacifier for real-time continuous monitoring of salivary electrolytes <i>Biosensors and Bioelectronics</i> , 2022 , 210, 114329	11.8	3
23	Assessment of endothelial cell growth behavior in thin film nitinol. <i>Biochip Journal</i> , 2017 , 11, 39-45	4	2
22	Radiotherapy-Compatible Robotic System for Multi-Landmark Positioning in Head and Neck Cancer Treatments. <i>Scientific Reports</i> , 2019 , 9, 14358	4.9	2
21	Synthesis of a Soft Nanocomposite for Flexible, Wearable Bioelectronics 2017,		2
20	Swallowing detection for game control: Using skin-like electronics to support people with dysphagia 2017 ,		2
19	Aerosol Jet Printing: Challenges and Advances in Aerosol Jet Printing of Regenerated Silk Fibroin Solutions (Adv. Mater. Interfaces 12/2020). <i>Advanced Materials Interfaces</i> , 2020 , 7, 2070065	4.6	2
18	Recent Advances in High-Throughput Nanomaterial Manufacturing for Hybrid Flexible Bioelectronics. <i>Materials</i> , 2021 , 14,	3.5	2
17	A Simulation Study of a Radiofrequency Localization System for Tracking Patient Motion in Radiotherapy. <i>Sensors</i> , 2016 , 16,	3.8	2
16	Bioinspired Soft Robotic Fish for Wireless Underwater Control of Gliding Locomotion. <i>Advanced Intelligent Systems</i> ,2100271	6	2
15	Stretchable Hybrid Electronics: All-in-One, Wireless, Stretchable Hybrid Electronics for Smart, Connected, and Ambulatory Physiological Monitoring (Adv. Sci. 17/2019). <i>Advanced Science</i> , 2019 , 6, 1970104	13.6	1
14	Implantable Electronics: Fully Printed, Wireless, Stretchable Implantable Biosystem toward Batteryless, Real-Time Monitoring of Cerebral Aneurysm Hemodynamics (Adv. Sci. 18/2019). <i>Advanced Science</i> , 2019 , 6, 1970110	13.6	1
13	Fractal-Structured, Wearable Soft Sensors for Control of a Robotic Wheelchair via Electrooculograms 2017 ,		1
12	Bio-integrated electronics and sensor systems 2013 ,		1
11	Ion Diffusion and DNA Stretching in an Open Nanofluidic System. <i>Journal of Nanotechnology in Engineering and Medicine</i> , 2011 , 2,		1
10	Direct concentration of circulating DNA by using a nanostructured tip 2008,		1
9	A novel low-profile flow sensor for monitoring of hemodynamics in cerebral aneurysm. <i>Biomaterials and Biomechanics in Bioengineering</i> , 2015 , 2, 71-84		1
8	Advances in Microsensors and Wearable Bioelectronics for Digital Stethoscopes in Health Monitoring and Disease Diagnosis. <i>Advanced Healthcare Materials</i> , 2021 , 10, e2101400	10.1	1
7	Recent advances in wearable exoskeletons for human strength augmentation. <i>Flexible and Printed Electronics</i> , 2022 , 7, 023002	3.1	1

6	VR-enabled portable brain-computer interfaces via wireless soft bioelectronics <i>Biosensors and Bioelectronics</i> , 2022 , 210, 114333	11.8	1
5	Recent Advances in Wearable Sensors and Integrated Functional Devices for Virtual and Augmented Reality Applications (Adv. Funct. Mater. 39/2021). <i>Advanced Functional Materials</i> , 2021 , 31, 2170289	15.6	O
4	Flexible Electronics: Soft Material-Enabled, Active Wireless, Thin-Film Bioelectronics for Quantitative Diagnostics of Cervical Dystonia (Adv. Mater. Technol. 10/2019). <i>Advanced Materials Technologies</i> , 2019 , 4, 1970055	6.8	
3	Directly Accessible and Transferrable Nanofluidic Systems for Biomolecule Manipulation. <i>ACS Sensors</i> , 2019 , 4, 1417-1423	9.2	
2	Soft Wearable Patch for Continuous Cardiac Biometric Security. <i>Engineering Proceedings</i> , 2021 , 10, 73	0.5	
1	Soft Material-Enabled Packaging for Stretchable and Flexible Hybrid Electronics 2021 , 377-403		