

Hyun-Joong Chung

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/7453554/hyun-joong-chung-publications-by-year.pdf>

Version: 2024-04-23

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.

75
papers

6,518
citations

32
h-index

80
g-index

82
ext. papers

7,414
ext. citations

5.7
avg, IF

5.66
L-index

#	Paper	IF	Citations
75	Photoinduced Multistable Resonance Frequency Switching of Phase Change Microstring at Room Temperature. <i>Advanced Electronic Materials</i> , 2022 , 8, 2100819	6.4	1
74	Elastomeric Tubes with Self-Regulated Distension. <i>IScience</i> , 2022 , 104369	6.1	
73	The Position of the Heart During Normothermic Ex Situ Heart Perfusion is an Important Factor in Preservation and Recovery of Myocardial Function. <i>ASAIO Journal</i> , 2021 , 67, 1222-1231	3.6	0
72	Magnetically Controlled Soft Robotics Utilizing Elastomers and Gels in Actuation: A Review. <i>Advanced Intelligent Systems</i> , 2021 , 3, 2000186	6	25
71	Electrical conduction of reduced graphene oxide coated meta-aramid textile and its evolution under aging conditions. <i>Journal of Industrial Textiles</i> , 2021 , 50, 1330-1347	1.6	2
70	Deterministically assigned directional sensing of a nanoscale crack based pressure sensor by anisotropic Poisson ratios of the substrate. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 5154-5161	7.1	3
69	Compositional Effects of Gel Polymer Electrolyte and Battery Design for Zinc-Air Batteries. <i>Batteries and Supercaps</i> , 2020 , 3, 917-927	5.6	8
68	The effect of oxygen flow rate on metal-insulator transition (MIT) characteristics of vanadium dioxide (VO ₂) thin films by pulsed laser deposition (PLD). <i>Applied Surface Science</i> , 2020 , 529, 146995	6.7	10
67	Effects of Crosslinker Concentration in Poly(Acrylic Acid)-KOH Gel Electrolyte on Performance of Zinc-Air Batteries. <i>Batteries and Supercaps</i> , 2020 , 3, 409-416	5.6	17
66	A model for hyperelastic materials reinforced with fibers resistance to extension and flexure. <i>International Journal of Solids and Structures</i> , 2020 , 193-194, 418-433	3.1	2
65	Bidirectional Frequency Tuning of Vanadium Dioxide (VO ₂) Microstring Resonator by Optothermal Excitation 2020 ,		1
64	CHAPTER 4: Polymer Blend Systems With an Added Solvent. <i>RSC Soft Matter</i> , 2020 , 73-113	0.5	2
63	A tri-electrode configuration for zinc-air batteries using gel polymer electrolytes. <i>Electrochimica Acta</i> , 2020 , 357, 136865	6.7	6
62	Effect of water immersion, laundering, and abrasion on the conductivity of reduced graphene oxide coatings on aramid fabrics. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020 , 827, 012028	0.4	
61	Reinforced Gels and Elastomers for Biomedical and Soft Robotics Applications. <i>ACS Applied Polymer Materials</i> , 2020 , 2, 1073-1091	4.3	40
60	Mimicking "J-Shaped" and Anisotropic Stress-Strain Behavior of Human and Porcine Aorta by Fabric-Reinforced Elastomer Composites. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 33323-33335	9.5	16
59	Thermochromic and Piezocapacitive Flexible Sensor Array by Combining Composite Elastomer Dielectrics and Transparent Ionic Hydrogel Electrodes. <i>Advanced Materials Technologies</i> , 2019 , 4, 1900327	6.8	25

58	Mechanically and electrically robust stretchable e-textiles by controlling the permeation depth of silver-based conductive Inks. <i>Flexible and Printed Electronics</i> , 2019 , 4, 025006	3.1	5
57	Normothermic Ex Situ Heart Perfusion in Working Mode: Assessment of Cardiac Function and Metabolism. <i>Journal of Visualized Experiments</i> , 2019 ,	1.6	5
56	Porous Polydimethylsiloxane/Silver Nanowire Devices for Wearable Pressure Sensors. <i>ACS Applied Nano Materials</i> , 2019 , 2, 4869-4878	5.6	32
55	A study of alkaline gel polymer electrolytes for rechargeable zinc/air batteries. <i>Electrochimica Acta</i> , 2019 , 327, 135021	6.7	41
54	Colorimetric Voltmeter Using Colloidal Fe ₃ O ₄ @SiO ₂ Nanoparticles as an Overpotential Alarm System for Zinc/Air Batteries. <i>ACS Applied Nano Materials</i> , 2019 , 2, 6982-6988	5.6	3
53	Specific Ion Effects in Polyampholyte Hydrogels Dialyzed in Aqueous Electrolytic Solutions. <i>Langmuir</i> , 2019 , 35, 1526-1533	4	18
52	Investigation of Epidermal Loop Antennas for Biotelemetry IoT Applications. <i>IEEE Access</i> , 2018 , 6, 158063-158152	3.5	20
51	Freezing of Aqueous Electrolytes in Zinc/Air Batteries: Effect of Composition and Nanoscale Confinement. <i>ACS Applied Energy Materials</i> , 2018 , 1, 1489-1495	6.1	8
50	Low-Temperature Ionic Conductivity Enhanced by Disrupted Ice Formation in Polyampholyte Hydrogels. <i>Macromolecules</i> , 2018 , 51, 2723-2731	5.5	28
49	Preparation of fabric strain sensor based on graphene for human motion monitoring. <i>Journal of Materials Science</i> , 2018 , 53, 9026-9033	4.3	44
48	Direct visualization of nano and microscale polymer morphologies in as-prepared and dialyzed polyampholyte hydrogels by electron microscopy techniques. <i>MRS Communications</i> , 2018 , 8, 1079-1084	2.7	4
47	Silicone-based adhesives for long-term skin application: cleaning protocols and their effect on peel strength. <i>Biomedical Physics and Engineering Express</i> , 2018 , 4, 015004	1.5	16
46	Epidermal Loop Antenna Design at 900 MHz for Biotelemetry 2018 ,		1
45	Two-Layered and Stretchable e-Textile Patches for Wearable Healthcare Electronics. <i>Advanced Healthcare Materials</i> , 2018 , 7, e1801033	10.1	56
44	Potassium Ion Selective Electrode Using Polyaniline and Matrix-Supported Ion-Selective PVC Membrane. <i>IEEE Sensors Journal</i> , 2018 , 18, 9081-9087	4	12
43	Flexible and Self-Healing Aqueous Supercapacitors for Low Temperature Applications: Polyampholyte Gel Electrolytes with Biochar Electrodes. <i>Scientific Reports</i> , 2017 , 7, 1685	4.9	77
42	Thermodynamic Investigation of the Effect of Interface Curvature on the Solid-Liquid Equilibrium and Eutectic Point of Binary Mixtures. <i>Journal of Physical Chemistry B</i> , 2017 , 121, 9452-9462	3.4	21
41	A highly deformable conducting traces for printed antennas and interconnects: silver/fluoropolymer composite amalgamated by triethanolamine. <i>Flexible and Printed Electronics</i> , 2017 , 2, 045001	3.1	17

40	All-Solid-State Sodium-Selective Electrode with a Solid Contact of Chitosan/Prussian Blue Nanocomposite. <i>Sensors</i> , 2017 , 17,	3.8	18
39	A novel investigation on printed stretchable WLAN antennas 2017 ,		4
38	Highly Flexible, Multipixelated Thermosensitive Smart Windows Made of Tough Hydrogels. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 33100-33106	9.5	61
37	Self-reinforcing graphene coatings on 3D printed elastomers for flexible radio frequency antennas and strain sensors. <i>Flexible and Printed Electronics</i> , 2017 , 2, 035001	3.1	19
36	Tough Hydrogels: Toughening Mechanisms and Their Utilization in Stretchable Electronics and in Regenerative Medicines 2017 , 535-580		2
35	A pH-Indicating Colorimetric Tough Hydrogel Patch towards Applications in a Substrate for Smart Wound Dressings. <i>Polymers</i> , 2017 , 9,	4.5	31
34	Epidermal electronics for electromyography: An application to swallowing therapy. <i>Medical Engineering and Physics</i> , 2016 , 38, 807-12	2.4	31
33	Flexible electronics under strain: a review of mechanical characterization and durability enhancement strategies. <i>Journal of Materials Science</i> , 2016 , 51, 2771-2805	4.3	219
32	Irreversible bonding of polyimide and polydimethylsiloxane (PDMS) based on a thiol-epoxy click reaction. <i>Journal of Micromechanics and Microengineering</i> , 2016 , 26, 105019	2	37
31	Flexible printed square loop antennas for wearable applications 2016 ,		3
30	A regenerable copper mesh based oil/water separator with switchable underwater oleophobicity. <i>RSC Advances</i> , 2016 , 6, 92833-92838	3.7	4
29	Criteria for Quick and Consistent Synthesis of Poly(glycerol sebacate) for Tailored Mechanical Properties. <i>Biomacromolecules</i> , 2015 , 16, 1525-33	6.9	72
28	Selective oil/water filter paper via a scalable one-pot hydrothermal growth of ZnO nanowires. <i>RSC Advances</i> , 2015 , 5, 91001-91005	3.7	9
27	Sponge-Templated Macroporous Graphene Network for Piezoelectric ZnO Nanogenerator. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 20753-60	9.5	51
26	SMART biochar technology: A shifting paradigm towards advanced materials and healthcare research. <i>Environmental Technology and Innovation</i> , 2015 , 4, 206-209	7	155
25	3D multifunctional integumentary membranes for spatiotemporal cardiac measurements and stimulation across the entire epicardium. <i>Nature Communications</i> , 2014 , 5, 3329	17.4	384
24	Stretchable, multiplexed pH sensors with demonstrations on rabbit and human hearts undergoing ischemia. <i>Advanced Healthcare Materials</i> , 2014 , 3, 59-68	10.1	87
23	Thin Film Receiver Materials for Deterministic Assembly by Transfer Printing. <i>Chemistry of Materials</i> , 2014 , 26, 3502-3507	9.6	32

22	Sensors: Stretchable, Multiplexed pH Sensors With Demonstrations on Rabbit and Human Hearts Undergoing Ischemia (Adv. Healthcare Mater. 1/2014). <i>Advanced Healthcare Materials</i> , 2014 , 3, 2-2	10.1	3
21	Immunologic and tissue biocompatibility of flexible/stretchable electronics and optoelectronics. <i>Advanced Healthcare Materials</i> , 2014 , 3, 515-25	10.1	80
20	Deterministic assembly of releasable single crystal silicon-metal oxide field-effect devices formed from bulk wafers. <i>Applied Physics Letters</i> , 2013 , 102, 182104	3.4	29
19	Materials for bioresorbable radio frequency electronics. <i>Advanced Materials</i> , 2013 , 25, 3526-31	24	154
18	Electrical contact at the interface between silicon and transfer-printed gold films by eutectic joining. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 6061-5	9.5	16
17	Controlling the Location of Nanoparticles in Polymer Blends by Tuning the Length and End Group of Polymer Brushes.. <i>ACS Macro Letters</i> , 2012 , 1, 252-256	6.6	66
16	Epidermal electronics. <i>Science</i> , 2011 , 333, 838-43	33.3	3216
15	Fabrication of Releasable Single-Crystal Silicon-Metal Oxide Field-Effect Devices and Their Deterministic Assembly on Foreign Substrates. <i>Advanced Functional Materials</i> , 2011 , 21, 3029-3036	15.6	52
14	A jamming morphology map of polymer blend nanocomposite films. <i>Soft Matter</i> , 2011 , 7, 7262	3.6	46
13	Emerging Technologies for the Commercialization of AMOLED TVs. <i>Information Display</i> , 2009 , 25, 18-22	0.8	13
12	Comprehensive Study on the Transport Mechanism of Amorphous Indium-Gallium-Zinc Oxide Transistors. <i>Journal of the Electrochemical Society</i> , 2008 , 155, H873	3.9	47
11	3.1: Distinguished Paper: 12.1-Inch WXGA AMOLED Display Driven by Indium-Gallium-Zinc Oxide TFTs Array. <i>Digest of Technical Papers SID International Symposium</i> , 2008 , 39, 1	0.5	146
10	Electronic transport properties of amorphous indium-gallium-zinc oxide semiconductor upon exposure to water. <i>Applied Physics Letters</i> , 2008 , 92, 072104	3.4	416
9	Bulk-Limited Current Conduction in Amorphous InGaZnO Thin Films. <i>Electrochemical and Solid-State Letters</i> , 2008 , 11, H51		46
8	22.1: Invited Paper: Technological Challenges for Large-Size AMOLED Display. <i>Digest of Technical Papers SID International Symposium</i> , 2008 , 39, 291	0.5	32
7	Internal Phase Separation Drives Dewetting in Polymer Blend and Nanocomposite Films. <i>Macromolecules</i> , 2007 , 40, 384-388	5.5	37
6	A Morphology Map Based on Phase Evolution in Polymer Blend Films. <i>Macromolecules</i> , 2006 , 39, 153-161	5.5	37
5	Self-regulated structures in nanocomposites by directed nanoparticle assembly. <i>Nano Letters</i> , 2005 , 5, 1878-82	11.5	140

4	Breakdown of dynamic scaling in thin film binary liquids undergoing phase separation. <i>Physical Review Letters</i> , 2004 , 92, 185704	7.4	42
3	Mobile nanoparticles and their effect on phase separation dynamics in thin-film polymer blends. <i>Europhysics Letters</i> , 2004 , 68, 219-225	1.6	51
2	Hydrothermal aging of polyimide film. <i>Journal of Applied Polymer Science</i> , 52183	2.9	1
1	Investigation of the accelerated thermal aging behavior of polyetherimide and lifetime prediction at elevated temperature. <i>Journal of Applied Polymer Science</i> , 51955	2.9	1