

Hyun-Joong Chung

List of Publications by Citations

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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	Epidermal electronics. <i>Science</i> , 2011 , 333, 838-43	33.3	3216
74	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
73	3D multifunctional integumentary membranes for spatiotemporal cardiac measurements and stimulation across the entire epicardium. <i>Nature Communications</i> , 2014 , 5, 3329	17.4	384
72	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
71	SMART biochar technology—a shifting paradigm towards advanced materials and healthcare research. <i>Environmental Technology and Innovation</i> , 2015 , 4, 206-209	7	155
70	Materials for bioresorbable radio frequency electronics. <i>Advanced Materials</i> , 2013 , 25, 3526-31	24	154
69	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
68	Self-regulated structures in nanocomposites by directed nanoparticle assembly. <i>Nano Letters</i> , 2005 , 5, 1878-82	11.5	140
67	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
66	Immunologic and tissue biocompatibility of flexible/stretchable electronics and optoelectronics. <i>Advanced Healthcare Materials</i> , 2014 , 3, 515-25	10.1	80
65	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
64	Criteria for Quick and Consistent Synthesis of Poly(glycerol sebacate) for Tailored Mechanical Properties. <i>Biomacromolecules</i> , 2015 , 16, 1525-33	6.9	72
63	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
62	Highly Flexible, Multipixelated Thermosensitive Smart Windows Made of Tough Hydrogels. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 33100-33106	9.5	61
61	Two-Layered and Stretchable e-Textile Patches for Wearable Healthcare Electronics. <i>Advanced Healthcare Materials</i> , 2018 , 7, e1801033	10.1	56
60	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
59	Sponge-Templated Macroporous Graphene Network for Piezoelectric ZnO Nanogenerator. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 20753-60	9.5	51

58	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
57	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
56	A jamming morphology map of polymer blend nanocomposite films. <i>Soft Matter</i> , 2011 , 7, 7262	3.6	46
55	Bulk-Limited Current Conduction in Amorphous InGaZnO Thin Films. <i>Electrochemical and Solid-State Letters</i> , 2008 , 11, H51		46
54	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
53	Breakdown of dynamic scaling in thin film binary liquids undergoing phase separation. <i>Physical Review Letters</i> , 2004 , 92, 185704	7.4	42
52	A study of alkaline gel polymer electrolytes for rechargeable zinc-air batteries. <i>Electrochimica Acta</i> , 2019 , 327, 135021	6.7	41
51	Reinforced Gels and Elastomers for Biomedical and Soft Robotics Applications. <i>ACS Applied Polymer Materials</i> , 2020 , 2, 1073-1091	4.3	40
50	Internal Phase Separation Drives Dewetting in Polymer Blend and Nanocomposite Films. <i>Macromolecules</i> , 2007 , 40, 384-388	5.5	37
49	A Morphology Map Based on Phase Evolution in Polymer Blend Films. <i>Macromolecules</i> , 2006 , 39, 153-161	5.5	37
48	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
47	Porous Polydimethylsiloxane/Silver Nanowire Devices for Wearable Pressure Sensors. <i>ACS Applied Nano Materials</i> , 2019 , 2, 4869-4878	5.6	32
46	Thin Film Receiver Materials for Deterministic Assembly by Transfer Printing. <i>Chemistry of Materials</i> , 2014 , 26, 3502-3507	9.6	32
45	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
44	Epidermal electronics for electromyography: An application to swallowing therapy. <i>Medical Engineering and Physics</i> , 2016 , 38, 807-12	2.4	31
43	A pH-Indicating Colorimetric Tough Hydrogel Patch towards Applications in a Substrate for Smart Wound Dressings. <i>Polymers</i> , 2017 , 9,	4.5	31
42	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
41	Low-Temperature Ionic Conductivity Enhanced by Disrupted Ice Formation in Polyampholyte Hydrogels. <i>Macromolecules</i> , 2018 , 51, 2723-2731	5.5	28

40	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
39	Magnetically Controlled Soft Robotics Utilizing Elastomers and Gels in Actuation: A Review. <i>Advanced Intelligent Systems</i> , 2021 , 3, 2000186	6	25
38	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
37	Investigation of Epidermal Loop Antennas for Biotelemetry IoT Applications. <i>IEEE Access</i> , 2018 , 6, 1580631581520	3.1	20
36	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
35	All-Solid-State Sodium-Selective Electrode with a Solid Contact of Chitosan/Prussian Blue Nanocomposite. <i>Sensors</i> , 2017 , 17,	3.8	18
34	Specific Ion Effects in Polyampholyte Hydrogels Dialyzed in Aqueous Electrolytic Solutions. <i>Langmuir</i> , 2019 , 35, 1526-1533	4	18
33	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
32	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
31	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
30	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
29	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
28	Emerging Technologies for the Commercialization of AMOLED TVs. <i>Information Display</i> , 2009 , 25, 18-22	0.8	13
27	Potassium Ion Selective Electrode Using Polyaniline and Matrix-Supported Ion-Selective PVC Membrane. <i>IEEE Sensors Journal</i> , 2018 , 18, 9081-9087	4	12
26	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
25	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
24	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
23	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

22	A tri-electrode configuration for zinc-air batteries using gel polymer electrolytes. <i>Electrochimica Acta</i> , 2020 , 357, 136865	6.7	6
21	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
20	Normothermic Ex Situ Heart Perfusion in Working Mode: Assessment of Cardiac Function and Metabolism. <i>Journal of Visualized Experiments</i> , 2019 ,	1.6	5
19	A novel investigation on printed stretchable WLAN antennas 2017 ,		4
18	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
17	A regenerable copper mesh based oil/water separator with switchable underwater oleophobicity. <i>RSC Advances</i> , 2016 , 6, 92833-92838	3.7	4
16	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
15	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
14	Flexible printed square loop antennas for wearable applications 2016 ,		3
13	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
12	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
11	Tough Hydrogels: Toughening Mechanisms and Their Utilization in Stretchable Electronics and in Regenerative Medicines 2017 , 535-580		2
10	CHAPTER 4: Polymer Blend Systems With an Added Solvent. <i>RSC Soft Matter</i> , 2020 , 73-113	0.5	2
9	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
8	Bidirectional Frequency Tuning of Vanadium Dioxide (VO ₂) Microstring Resonator by Optothermal Excitation 2020 ,		1
7	Hydrothermal aging of polyimide film. <i>Journal of Applied Polymer Science</i> , 52183	2.9	1
6	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
5	Epidermal Loop Antenna Design at 900 MHz for Biotelemetry 2018 ,		1

4	Photoinduced Multistable Resonance Frequency Switching of Phase Change Microstring at Room Temperature. <i>Advanced Electronic Materials</i> , 2022 , 8, 2100819	6.4	1
3	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
2	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	
1	Elastomeric Tubes with Self-Regulated Distension. <i>IScience</i> , 2022 , 104369	6.1	