List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Epidermal Electronics. Science, 2011, 333, 838-843.	6.0	3,944
2	3D multifunctional integumentary membranes for spatiotemporal cardiac measurements and stimulation across the entire epicardium. Nature Communications, 2014, 5, 3329.	5.8	485
3	Electronic transport properties of amorphous indium-gallium-zinc oxide semiconductor upon exposure to water. Applied Physics Letters, 2008, 92, .	1.5	461
4	Flexible electronics under strain: a review of mechanical characterization and durability enhancement strategies. Journal of Materials Science, 2016, 51, 2771-2805.	1.7	295
5	SMART biochar technology—A shifting paradigm towards advanced materials and healthcare research. Environmental Technology and Innovation, 2015, 4, 206-209.	3.0	206
6	Materials for Bioresorbable Radio Frequency Electronics. Advanced Materials, 2013, 25, 3526-3531.	11.1	189
7	3.1: <i>Distinguished Paper</i> : 12.1â€Inch WXGA AMOLED Display Driven by Indiumâ€Galliumâ€Zinc Oxide TFTs Array. Digest of Technical Papers SID International Symposium, 2008, 39, 1-4.	0.1	180
8	Self-Regulated Structures in Nanocomposites by Directed Nanoparticle Assembly. Nano Letters, 2005, 5, 1878-1882.	4.5	149
9	Stretchable, Multiplexed pH Sensors With Demonstrations on Rabbit and Human Hearts Undergoing Ischemia. Advanced Healthcare Materials, 2014, 3, 59-68.	3.9	105
10	Flexible and Self-Healing Aqueous Supercapacitors for Low Temperature Applications: Polyampholyte Gel Electrolytes with Biochar Electrodes. Scientific Reports, 2017, 7, 1685.	1.6	102
11	Criteria for Quick and Consistent Synthesis of Poly(glycerol sebacate) for Tailored Mechanical Properties. Biomacromolecules, 2015, 16, 1525-1533.	2.6	92
12	Immunologic and Tissue Biocompatibility of Flexible/Stretchable Electronics and Optoelectronics. Advanced Healthcare Materials, 2014, 3, 515-525.	3.9	90
13	A study of alkaline gel polymer electrolytes for rechargeable zinc–air batteries. Electrochimica Acta, 2019, 327, 135021.	2.6	88
14	Two‣ayered and Stretchable eâ€Textile Patches for Wearable Healthcare Electronics. Advanced Healthcare Materials, 2018, 7, e1801033.	3.9	86
15	Highly Flexible, Multipixelated Thermosensitive Smart Windows Made of Tough Hydrogels. ACS Applied Materials & Interfaces, 2017, 9, 33100-33106.	4.0	85
16	Controlling the Location of Nanoparticles in Polymer Blends by Tuning the Length and End Group of Polymer Brushes. ACS Macro Letters, 2012, 1, 252-256.	2.3	78
17	Magnetically Controlled Soft Robotics Utilizing Elastomers and Gels in Actuation: A Review. Advanced Intelligent Systems, 2021, 3, 2000186.	3.3	74
18	Reinforced Gels and Elastomers for Biomedical and Soft Robotics Applications. ACS Applied Polymer Materials, 2020, 2, 1073-1091.	2.0	67

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19	12.1â€in. WXGA AMOLED display driven by InGaZnO thinâ€film transistors. Journal of the Society for Information Display, 2009, 17, 95-100.	0.8	65
20	Preparation of fabric strain sensor based on graphene for human motion monitoring. Journal of Materials Science, 2018, 53, 9026-9033.	1.7	65
21	Porous Polydimethylsiloxane–Silver Nanowire Devices for Wearable Pressure Sensors. ACS Applied Nano Materials, 2019, 2, 4869-4878.	2.4	64
22	Sponge-Templated Macroporous Graphene Network for Piezoelectric ZnO Nanogenerator. ACS Applied Materials & Interfaces, 2015, 7, 20753-20760.	4.0	59
23	A pH-Indicating Colorimetric Tough Hydrogel Patch towards Applications in a Substrate for Smart Wound Dressings. Polymers, 2017, 9, 558.	2.0	59
24	Fabrication of Releasable Singleâ€Crystal Silicon–Metal Oxide Fieldâ€Effect Devices and Their Deterministic Assembly on Foreign Substrates. Advanced Functional Materials, 2011, 21, 3029-3036.	7.8	56
25	Mobile nanoparticles and their effect on phase separation dynamics in thin-film polymer blends. Europhysics Letters, 2004, 68, 219-225.	0.7	53
26	A jamming morphology map of polymer blend nanocomposite films. Soft Matter, 2011, 7, 7262.	1.2	52
27	Irreversible bonding of polyimide and polydimethylsiloxane (PDMS) based on a thiol-epoxy click reaction. Journal of Micromechanics and Microengineering, 2016, 26, 105019.	1.5	52
28	Comprehensive Study on the Transport Mechanism of Amorphous Indium-Gallium-Zinc Oxide Transistors. Journal of the Electrochemical Society, 2008, 155, H873.	1.3	50
29	Bulk-Limited Current Conduction in Amorphous InGaZnO Thin Films. Electrochemical and Solid-State Letters, 2008, 11, H51.	2.2	50
30	Breakdown of Dynamic Scaling in Thin Film Binary Liquids Undergoing Phase Separation. Physical Review Letters, 2004, 92, 185704.	2.9	47
31	Thermochromic and Piezocapacitive Flexible Sensor Array by Combining Composite Elastomer Dielectrics and Transparent Ionic Hydrogel Electrodes. Advanced Materials Technologies, 2019, 4, 1900327.	3.0	44
32	Epidermal electronics for electromyography: An application to swallowing therapy. Medical Engineering and Physics, 2016, 38, 807-812.	0.8	43
33	Internal Phase Separation Drives Dewetting in Polymer Blend and Nanocomposite Films. Macromolecules, 2007, 40, 384-388.	2.2	42
34	Low-Temperature Ionic Conductivity Enhanced by Disrupted Ice Formation in Polyampholyte Hydrogels. Macromolecules, 2018, 51, 2723-2731.	2.2	39
35	A Morphology Map Based on Phase Evolution in Polymer Blend Films. Macromolecules, 2006, 39, 153-161.	2.2	38
36	Mimicking "J-Shaped―and Anisotropic Stress–Strain Behavior of Human and Porcine Aorta by Fabric-Reinforced Elastomer Composites. ACS Applied Materials & Interfaces, 2019, 11, 33323-33335.	4.0	38

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37	Thin Film Receiver Materials for Deterministic Assembly by Transfer Printing. Chemistry of Materials, 2014, 26, 3502-3507.	3.2	35
38	Deterministic assembly of releasable single crystal silicon-metal oxide field-effect devices formed from bulk wafers. Applied Physics Letters, 2013, 102, .	1.5	34
39	Investigation of Epidermal Loop Antennas for Biotelemetry IoT Applications. IEEE Access, 2018, 6, 15806-15815.	2.6	34
40	Effects of Crosslinker Concentration in Poly(Acrylic Acid)â€KOH Gel Electrolyte on Performance of Zincâ€Air Batteries. Batteries and Supercaps, 2020, 3, 409-416.	2.4	34
41	22.1: <i>Invited Paper</i> : Technological Challenges for Largeâ€Size AMOLED Display. Digest of Technical Papers SID International Symposium, 2008, 39, 291-294.	0.1	33
42	Compositional Effects of Gel Polymer Electrolyte and Battery Design for Zincâ€Air Batteries. Batteries and Supercaps, 2020, 3, 917-927.	2.4	32
43	A highly deformable conducting traces for printed antennas and interconnects: silver/fluoropolymer composite amalgamated by triethanolamine. Flexible and Printed Electronics, 2017, 2, 045001.	1.5	30
44	Self-reinforcing graphene coatings on 3D printed elastomers for flexible radio frequency antennas and strain sensors. Flexible and Printed Electronics, 2017, 2, 035001.	1.5	29
45	Specific Ion Effects in Polyampholyte Hydrogels Dialyzed in Aqueous Electrolytic Solutions. Langmuir, 2019, 35, 1526-1533.	1.6	27
46	Thermodynamic Investigation of the Effect of Interface Curvature on the Solid–Liquid Equilibrium and Eutectic Point of Binary Mixtures. Journal of Physical Chemistry B, 2017, 121, 9452-9462.	1.2	26
47	All-Solid-State Sodium-Selective Electrode with a Solid Contact of Chitosan/Prussian Blue Nanocomposite. Sensors, 2017, 17, 2536.	2.1	26
48	Silicone-based adhesives for long-term skin application: cleaning protocols and their effect on peel strength. Biomedical Physics and Engineering Express, 2018, 4, 015004.	0.6	26
49	The effect of oxygen flow rate on metal–insulator transition (MIT) characteristics of vanadium dioxide (VO2) thin films by pulsed laser deposition (PLD). Applied Surface Science, 2020, 529, 146995.	3.1	25
50	Potassium Ion Selective Electrode Using Polyaniline and Matrix-Supported Ion-Selective PVC Membrane. IEEE Sensors Journal, 2018, 18, 9081-9087.	2.4	19
51	Emerging Technologies for the Commercialization of AMOLED TVs. Information Display, 2009, 25, 18-22.	0.1	18
52	Electrical Contact at the Interface between Silicon and Transfer-Printed Gold Films by Eutectic Joining. ACS Applied Materials & Interfaces, 2013, 5, 6061-6065.	4.0	18
53	A tri-electrode configuration for zinc-air batteries using gel polymer electrolytes. Electrochimica Acta, 2020, 357, 136865.	2.6	16
54	Freezing of Aqueous Electrolytes in Zinc–Air Batteries: Effect of Composition and Nanoscale Confinement. ACS Applied Energy Materials, 2018, 1, 1489-1495.	2.5	12

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55	Smart personal protective equipment (PPE): current PPE needs, opportunities for nanotechnology and e-textiles. Flexible and Printed Electronics, 2021, 6, 043004.	1.5	11
56	Selective oil/water filter paper via a scalable one-pot hydrothermal growth of ZnO nanowires. RSC Advances, 2015, 5, 91001-91005.	1.7	10
57	Investigation of the accelerated thermal aging behavior of polyetherimide and lifetime prediction at elevated temperature. Journal of Applied Polymer Science, 2022, 139, 51955.	1.3	10
58	A regenerable copper mesh based oil/water separator with switchable underwater oleophobicity. RSC Advances, 2016, 6, 92833-92838.	1.7	8
59	Normothermic Ex Situ Heart Perfusion in Working Mode: Assessment of Cardiac Function and Metabolism. Journal of Visualized Experiments, 2019, , .	0.2	8
60	Deterministically assigned directional sensing of a nanoscale crack based pressure sensor by anisotropic Poisson ratios of the substrate. Journal of Materials Chemistry C, 2021, 9, 5154-5161.	2.7	8
61	A novel investigation on printed stretchable WLAN antennas. , 2017, , .		6
62	Colorimetric Voltmeter Using Colloidal Fe ₃ O ₄ @SiO ₂ Nanoparticles as an Overpotential Alarm System for Zinc–Air Batteries. ACS Applied Nano Materials, 2019, 2, 6982-6988.	2.4	6
63	Hydrothermal aging of <scp>fireâ€protective</scp> fabrics. Journal of Applied Polymer Science, 2022, 139, .	1.3	6
64	Mechanically and electrically robust stretchable e-textiles by controlling the permeation depth of silver-based conductive Inks. Flexible and Printed Electronics, 2019, 4, 025006.	1.5	5
65	A model for hyperelastic materials reinforced with fibers resistance to extension and flexure. International Journal of Solids and Structures, 2020, 193-194, 418-433.	1.3	5
66	Hydrothermal aging of polyimide film. Journal of Applied Polymer Science, 0, , 52183.	1.3	5
67	Flexible printed square loop antennas for wearable applications. , 2016, , .		4
68	Direct visualization of nano and microscale polymer morphologies in as-prepared and dialyzed polyampholyte hydrogels by electron microscopy techniques. MRS Communications, 2018, 8, 1079-1084.	0.8	4
69	Electrical conduction of reduced graphene oxide coated meta-aramid textile and its evolution under aging conditions. Journal of Industrial Textiles, 2021, 50, 1330-1347.	1.1	4
70	Sensors: Stretchable, Multiplexed pH Sensors With Demonstrations on Rabbit and Human Hearts Undergoing Ischemia (Adv. Healthcare Mater. 1/2014). Advanced Healthcare Materials, 2014, 3, 2-2.	3.9	3
71	The Position of the Heart During Normothermic Ex Situ Heart Perfusion is an Important Factor in Preservation and Recovery of Myocardial Function. ASAIO Journal, 2021, 67, 1222-1231.	0.9	3
72	The technological trends of future AMOLED. Proceedings of SPIE, 2009, , .	0.8	2

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73	Polymer Blend Systems With an Added Solvent. RSC Soft Matter, 2020, , 73-113.	0.2	2
74	Photoinduced Multistable Resonance Frequency Switching of Phase Change Microstring at Room Temperature. Advanced Electronic Materials, 2022, 8, 2100819.	2.6	2
75	Epidermal Loop Antenna Design at 900 MHz for Biotelemetry. , 2018, , .		1
76	Effect of water immersion, laundering, and abrasion on the conductivity of reduced graphene oxide coatings on aramid fabrics. IOP Conference Series: Materials Science and Engineering, 2020, 827, 012028.	0.3	1
77	Effect of Surface and Interfacial Tension on the Resonance Frequency of Microfluidic Channel Cantilever. Sensors, 2020, 20, 6459.	2.1	1
78	Bidirectional Frequency Tuning of Vanadium Dioxide (VO2) Microstring Resonator by Optothermal Excitation. , 2020, , .		1
79	Elastomeric tubes with self-regulated distension. IScience, 2022, 25, 104369.	1.9	1