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List of Publications by Year in descending order

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181
papers

6,370
citations

61984

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88630

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185
all docs

185
docs citations

185
times ranked

8591
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct Monolithic Integration of Organic Photovoltaic Circuits on Unmodified Paper. <i>Advanced Materials</i> , 2011, 23, 3500-3505.	21.0	243
2	Synthesis of ultrathin polymer insulating layers by initiated chemical vapour deposition for low-power soft electronics. <i>Nature Materials</i> , 2015, 14, 628-635.	27.5	229
3	Oxidative Chemical Vapor Deposition of Electrically Conducting Poly(3,4-ethylenedioxythiophene) Films. <i>Macromolecules</i> , 2006, 39, 5326-5329.	4.8	211
4	Systematic Control of the Electrical Conductivity of Poly(3,4-ethylenedioxythiophene) via Oxidative Chemical Vapor Deposition. <i>Macromolecules</i> , 2007, 40, 6552-6556.	4.8	196
5	Polymer Analog Memristive Synapse with Atomic-Scale Conductive Filament for Flexible Neuromorphic Computing System. <i>Nano Letters</i> , 2019, 19, 839-849.	9.1	139
6	Initiated and oxidative chemical vapor deposition: a scalable method for conformal and functional polymer films on real substrates. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 5227.	2.8	136
7	A Low-Temperature Thin-Film Encapsulation for Enhanced Stability of a Highly Efficient Perovskite Solar Cell. <i>Advanced Energy Materials</i> , 2018, 8, 1701928.	19.5	136
8	Multiscale, Hierarchically Patterned Topography for Directing Human Neural Stem Cells into Functional Neurons. <i>ACS Nano</i> , 2014, 8, 7809-7822.	14.6	132
9	Chondroitin Sulfate-Based Biomineralizing Surface Hydrogels for Bone Tissue Engineering. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 21639-21650.	8.0	118
10	One-Step Synthesis of Cross-Linked Ionic Polymer Thin Films in Vapor Phase and Its Application to an Oil/Water Separation Membrane. <i>Journal of the American Chemical Society</i> , 2017, 139, 2329-2337.	13.7	116
11	Springtail-inspired superomniphobic surface with extreme pressure resistance. <i>Science Advances</i> , 2018, 4, eaat4978.	10.3	112
12	BMP-2 peptide-functionalized nanopatterned substrates for enhanced osteogenic differentiation of human mesenchymal stem cells. <i>Biomaterials</i> , 2013, 34, 7236-7246.	11.4	109
13	Photolithography-Based Patterning of Liquid Metal Interconnects for Monolithically Integrated Stretchable Circuits. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 15459-15465.	8.0	103
14	A stacked polymer film for robust superhydrophobic fabrics. <i>Polymer Chemistry</i> , 2013, 4, 1664.	3.9	98
15	Conformal Coverage of Poly(3,4-ethylenedioxythiophene) Films with Tunable Nanoporosity via Oxidative Chemical Vapor Deposition. <i>ACS Nano</i> , 2008, 2, 1959-1967.	14.6	97
16	Paper-based bioactive scaffolds for stem cell-mediated bone tissue engineering. <i>Biomaterials</i> , 2014, 35, 9811-9823.	11.4	93
17	Initiated Chemical Vapor Deposition: A Versatile Tool for Various Device Applications. <i>Advanced Engineering Materials</i> , 2018, 20, 1700622.	3.5	93
18	A conformal nano-adhesive via initiated chemical vapor deposition for microfluidic devices. <i>Lab on A Chip</i> , 2009, 9, 411-416.	6.0	88

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19	Organic flash memory on various flexible substrates for foldable and disposable electronics. <i>Nature Communications</i> , 2017, 8, 725.	12.8	88
20	Patterning Nanodomains with Orthogonal Functionalities: Solventless Synthesis of Self-Sorting Surfaces. <i>Journal of the American Chemical Society</i> , 2008, 130, 14424-14425.	13.7	87
21	Hydrogel-laden paper scaffold system for origami-based tissue engineering. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 15426-15431.	7.1	87
22	Electrochemical investigation of PEDOT films deposited via CVD for electrochromic applications. <i>Synthetic Metals</i> , 2007, 157, 894-898.	3.9	76
23	Umbilical-cord-blood-derived mesenchymal stem cells seeded onto fibronectin-immobilized polycaprolactone nanofiber improve cardiac function. <i>Acta Biomaterialia</i> , 2014, 10, 3007-3017.	8.3	73
24	Prevention of Bacterial Colonization on Catheters by a One-Step Coating Process Involving an Antibiofouling Polymer in Water. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 19736-19745.	8.0	73
25	Electroconductive nanoscale topography for enhanced neuronal differentiation and electrophysiological maturation of human neural stem cells. <i>Nanoscale</i> , 2017, 9, 18737-18752.	5.6	72
26	Electroconductive Nanopatterned Substrates for Enhanced Myogenic Differentiation and Maturation. <i>Advanced Healthcare Materials</i> , 2016, 5, 137-145.	7.6	71
27	One-step vapor-phase synthesis of transparent high refractive index sulfur-containing polymers. <i>Science Advances</i> , 2020, 6, eabb5320.	10.3	71
28	Doping level and work function control in oxidative chemical vapor deposited poly(3,4-ethylenedioxythiophene). <i>Applied Physics Letters</i> , 2007, 90, 152112.	3.3	67
29	Flexible Nonvolatile Polymer Memory Array on Plastic Substrate via Initiated Chemical Vapor Deposition. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 12951-12958.	8.0	66
30	Functional Circuitry on Commercial Fabric via Textile-Compatible Nanoscale Film Coating Process for Fibertronics. <i>Nano Letters</i> , 2017, 17, 6443-6452.	9.1	62
31	PDMS-based turbulent microfluidic mixer. <i>Lab on A Chip</i> , 2015, 15, 1727-1735.	6.0	61
32	Flexible, Low-Power Thin-Film Transistors Made of Vapor-Phase Synthesized High- <i>k</i> , Ultrathin Polymer Gate Dielectrics. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 20808-20817.	8.0	61
33	An effective, cost-efficient extraction method of biomass from wet microalgae with a functional polymeric membrane. <i>Green Chemistry</i> , 2014, 16, 312-319.	9.0	60
34	Series of Liquid Separation System Made of Homogeneous Copolymer Films with Controlled Surface Wettability. <i>Chemistry of Materials</i> , 2015, 27, 3441-3449.	6.7	58
35	Initiated chemical vapor deposition of thermoresponsive poly(N-vinylcaprolactam) thin films for cell sheet engineering. <i>Acta Biomaterialia</i> , 2013, 9, 7691-7698.	8.3	57
36	Memristive Logic-in-Memory Integrated Circuits for Energy-Efficient Flexible Electronics. <i>Advanced Functional Materials</i> , 2018, 28, 1704725.	14.9	57

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37	A Surface Tailoring Method of Ultrathin Polymer Gate Dielectrics for Organic Transistors: Improved Device Performance and the Thermal Stability Thereof. <i>Advanced Functional Materials</i> , 2015, 25, 4462-4469.	14.9	56
38	Simple and Reliable Method to Incorporate the Janus Property onto Arbitrary Porous Substrates. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 4005-4010.	8.0	55
39	Chondrogenic Priming Adipose-Mesenchymal Stem Cells for Cartilage Tissue Regeneration. <i>Pharmaceutical Research</i> , 2011, 28, 1395-1405.	3.5	50
40	A doubly cross-linked nano-adhesive for the reliable sealing of flexible microfluidic devices. <i>Lab on a Chip</i> , 2013, 13, 1266.	6.0	47
41	Hydrogel Functionalized Janus Membrane for Skin Regeneration. <i>Advanced Healthcare Materials</i> , 2017, 6, 1600795.	7.6	46
42	Systematic control of the electrical conductivity of poly (3,4-ethylenedioxythiophene) via oxidative chemical vapor deposition (oCVD). <i>Surface and Coatings Technology</i> , 2007, 201, 9406-9412.	4.8	45
43	A Vapor-Phase Deposited Polymer Film to Improve the Adhesion of Electroless-Deposited Copper Layer onto Various Kinds of Substrates. <i>Langmuir</i> , 2014, 30, 916-921.	3.5	44
44	Nanothin Coculture Membranes with Tunable Pore Architecture and Thermoresponsive Functionality for Transfer-Printable Stem Cell-Derived Cardiac Sheets. <i>ACS Nano</i> , 2015, 9, 10186-10202.	14.6	44
45	Solvent-free modification of surfaces with polymers: The case for initiated and oxidative chemical vapor deposition (CVD). <i>AIChE Journal</i> , 2011, 57, 276-285.	3.6	43
46	Low-Power Nonvolatile Charge Storage Memory Based on MoS ₂ and an Ultrathin Polymer Tunneling Dielectric. <i>Advanced Functional Materials</i> , 2017, 27, 1703545.	14.9	43
47	Hoop stress-assisted three-dimensional particle focusing under viscoelastic flow. <i>Rheologica Acta</i> , 2014, 53, 927-933.	2.4	42
48	Scalable Nanopillar Arrays with Layer-by-Layer Patterned Overt and Covert Images. <i>Advanced Materials</i> , 2014, 26, 6119-6124.	21.0	42
49	Thermosensitive, Stretchable, and Piezoelectric Substrate for Generation of Myogenic Cell Sheet Fragments from Human Mesenchymal Stem Cells for Skeletal Muscle Regeneration. <i>Advanced Functional Materials</i> , 2017, 27, 1703853.	14.9	42
50	A Directly Patternable, Click-Active Polymer Film via Initiated Chemical Vapor Deposition. <i>Macromolecular Rapid Communications</i> , 2008, 29, 1648-1654.	3.9	40
51	Initiated Chemical Vapor Deposition (iCVD) of Highly Cross-Linked Polymer Films for Advanced Lithium-Ion Battery Separators. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 18849-18855.	8.0	40
52	A Highly Sensitive Molecular Detection Platform for Robust and Facile Diagnosis of Middle East Respiratory Syndrome (MERS) Corona Virus. <i>Advanced Healthcare Materials</i> , 2016, 5, 2168-2173.	7.6	40
53	Zero-static-power nonvolatile logic-in-memory circuits for flexible electronics. <i>Nano Research</i> , 2017, 10, 2459-2470.	10.4	39
54	Simple and facile preparation of recombinant human bone morphogenetic protein-2 immobilized titanium implant via initiated chemical vapor deposition technique to promote osteogenesis for bone tissue engineering application. <i>Materials Science and Engineering C</i> , 2019, 100, 949-958.	7.3	39

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55	Synthesis of Ultrathin, Homogeneous Copolymer Dielectrics to Control the Threshold Voltage of Organic Thin-Film Transistors. <i>Advanced Functional Materials</i> , 2016, 26, 6574-6582.	14.9	38
56	Oxidative chemical vapor deposition (oCVD) of patterned and functional grafted conducting polymer nanostructures. <i>Journal of Materials Chemistry</i> , 2010, 20, 3968.	6.7	37
57	Conformal phase masks made of polyurethane acrylate with optimized elastic modulus for 3D nanopatterning. <i>Journal of Materials Chemistry C</i> , 2014, 2, 2316.	5.5	37
58	Highly stacked 3D organic integrated circuits with via-hole-less multilevel metal interconnects. <i>Nature Communications</i> , 2019, 10, 2424.	12.8	37
59	Paper Electronics: Direct Monolithic Integration of Organic Photovoltaic Circuits on Unmodified Paper (<i>Adv. Mater.</i> 31/2011). <i>Advanced Materials</i> , 2011, 23, 3499-3499.	21.0	36
60	Engineering the xylose-catabolizing Dahms pathway for production of poly(D-lactate-co-glycolate) and poly(D-lactate-co-glycolate-co-D-2-hydroxybutyrate) in <i>Escherichia coli</i> . <i>Microbial Biotechnology</i> , 2017, 10, 1353-1364.	9.2	35
61	Vapor-Phase Deposited Ultrathin Polymer Gate Dielectrics for High-Performance Organic Thin Film Transistors. <i>Advanced Electronic Materials</i> , 2016, 2, 1500209.	5.1	34
62	All-Solid-State Ion Synaptic Transistor for Wafer-Scale Integration with Electrolyte of a Nanoscale Thickness. <i>Advanced Functional Materials</i> , 2021, 31, 2010971.	14.9	34
63	Total integrated slidable and valveless solid phase extraction-polymerase chain reaction-capillary electrophoresis microdevice for mini Y chromosome short tandem repeat genotyping. <i>Biosensors and Bioelectronics</i> , 2016, 78, 489-496.	10.1	33
64	Biofunctionalized titanium with anti-fouling resistance by grafting thermo-responsive polymer brushes for the prevention of peri-implantitis. <i>Journal of Materials Chemistry B</i> , 2015, 3, 5161-5165.	5.8	32
65	Organic/inorganic multilayer thin film encapsulation via initiated chemical vapor deposition and atomic layer deposition for its application to organic solar cells. <i>Korean Journal of Chemical Engineering</i> , 2017, 34, 892-897.	2.7	32
66	Solvent-Free Deposition of Ultrathin Copolymer Films with Tunable Viscoelasticity for Application to Pressure-Sensitive Adhesives. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 32668-32677.	8.0	32
67	Distinct Mechanosensing of Human Neural Stem Cells on Extremely Limited Anisotropic Cellular Contact. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 33891-33900.	8.0	31
68	Robust Thin Film Surface with a Selective Antibacterial Property Enabled via a Cross-Linked Ionic Polymer Coating for Infection-Resistant Medical Applications. <i>ACS Biomaterials Science and Engineering</i> , 2018, 4, 2614-2622.	5.2	31
69	A Surface-Tailoring Method for Rapid Non-Thermosensitive Cell-Sheet Engineering via Functional Polymer Coatings. <i>Advanced Materials</i> , 2020, 32, e1907225.	21.0	31
70	Generation of functionalized polymer nanolayer on implant surface via initiated chemical vapor deposition (iCVD). <i>Journal of Colloid and Interface Science</i> , 2015, 439, 34-41.	9.4	29
71	A Low-Voltage Organic Complementary Inverter with High Operation Stability and Flexibility Using an Ultrathin iCVD Polymer Dielectric and a Hybrid Encapsulation Layer. <i>Advanced Electronic Materials</i> , 2016, 2, 1500385.	5.1	29
72	Logic circuits composed of flexible carbon nanotube thin-film transistor and ultra-thin polymer gate dielectric. <i>Scientific Reports</i> , 2016, 6, 26121.	3.3	29

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73	Spontaneous Generation of a Molecular Thin Hydrophobic Skin Layer on a Sub-20 nm, High- <i>k</i> Polymer Dielectric for Extremely Stable Organic Thin-Film Transistor Operation. ACS Applied Materials & Interfaces, 2019, 11, 29113-29123.	8.0	29
74	Prior acquired resistance to paclitaxel relays diverse EGFR-targeted therapy persistence mechanisms. Science Advances, 2020, 6, eaav7416.	10.3	29
75	A Superamphiphobic Sponge with Mechanical Durability and a Self-Cleaning Effect. Scientific Reports, 2016, 6, 29993.	3.3	28
76	Control of Reversible Self-Bending Behavior in Responsive Janus Microstrips. ACS Applied Materials & Interfaces, 2016, 8, 8782-8788.	8.0	28
77	Foldable and washable textile-based OLEDs with a multi-functional near-room-temperature encapsulation layer for smart e-textiles. Npj Flexible Electronics, 2021, 5, .	10.7	27
78	Effects of interfacial layer wettability and thickness on the coating morphology and sirolimus release for drug-eluting stent. Journal of Colloid and Interface Science, 2015, 460, 189-199.	9.4	26
79	Novel Vapor-Phase Synthesis of Flexible, Homogeneous Organic-Inorganic Hybrid Gate Dielectric with sub 5 nm Equivalent Oxide Thickness. ACS Applied Materials & Interfaces, 2018, 10, 37326-37334.	8.0	26
80	Ultrathin ZrO ₂ -Organic Hybrid Dielectric (EOT 3.2 nm) via Initiated Chemical Vapor Deposition for High-Performance Flexible Electronics. ACS Applied Materials & Interfaces, 2019, 11, 44513-44520.	8.0	26
81	Heavily Crosslinked, High- <i>k</i> Ultrathin Polymer Dielectrics for Flexible, Low-Power Organic Thin-Film Transistors (OTFTs). Advanced Electronic Materials, 2020, 6, 2000314.	5.1	25
82	Large-Scale, Low-Power Nonvolatile Memory Based on Few-Layer MoS ₂ and Ultrathin Polymer Dielectrics. Advanced Electronic Materials, 2019, 5, 1800688.	5.1	23
83	Low-Power, Flexible Nonvolatile Organic Transistor Memory Based on an Ultrathin Bilayer Dielectric Stack. Advanced Electronic Materials, 2019, 5, 1800799.	5.1	23
84	Direct Solvent-Free Modification of the Inner Wall of the Microchip for Rapid DNA Extraction with Enhanced Capturing Efficiency. Macromolecular Research, 2020, 28, 249-256.	2.4	23
85	Vertically stacked, low-voltage organic ternary logic circuits including nonvolatile floating-gate memory transistors. Nature Communications, 2022, 13, 2305.	12.8	23
86	A Single-Chamber System of Initiated Chemical Vapor Deposition and Atomic Layer Deposition for Fabrication of Organic/Inorganic Multilayer Films. Advanced Engineering Materials, 2017, 19, 1600819.	3.5	22
87	A Sub-minute Curable Nanoadhesive with High Transparency, Strong Adhesion, and Excellent Flexibility. Macromolecules, 2018, 51, 992-1001.	4.8	22
88	Matrix Topography Regulates Synaptic Transmission at the Neuromuscular Junction. Advanced Science, 2019, 6, 1801521.	11.2	22
89	A Simple, Cost-Efficient Method to Separate Microalgal Lipids from Wet Biomass Using Surface Energy-Modified Membranes. ACS Applied Materials & Interfaces, 2016, 8, 600-608.	8.0	22
90	Application of Monodirectional Janus Patch to Oromucosal Delivery System. Advanced Healthcare Materials, 2015, 4, 2229-2236.	7.6	21

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91	Ultra-low power, highly uniform polymer memory by inserted multilayer graphene electrode. 2D Materials, 2015, 2, 044013.	4.4	21
92	Synthesis of a Stretchable but Superhydrophobic Polymer Thin Film with Conformal Coverage and Optical Transparency. Chemistry of Materials, 2021, 33, 1314-1320.	6.7	21
93	Site-specific immobilization of proteins on non-conventional substrates via solvent-free initiated chemical vapour deposition (iCVD) process. Polymer Chemistry, 2014, 5, 4459.	3.9	20
94	Polymer Thin Film-Induced Tumor Spheroids Acquire Cancer Stem Cell-like Properties. Cancer Research, 2018, 78, 6890-6902.	0.9	20
95	High-performance thin H:SiON OLED encapsulation layer deposited by PECVD at low temperature. RSC Advances, 2019, 9, 58-64.	3.6	20
96	Ultrathin and Bifunctional Polymer-Nanolayer-Embedded Separator to Simultaneously Alleviate Li Dendrite Growth and Polysulfide Crossover in Li-S Batteries. ACS Applied Energy Materials, 2021, 4, 611-622.	5.1	20
97	Systematic Control of Negative Transconductance in Organic Heterojunction Transistor for High-Performance, Low-Power Flexible Ternary Logic Circuits. Small, 2021, 17, e2103365.	10.0	20
98	Surface-Localized Sealing of Porous Ultralow- κ Dielectric Films with Ultrathin (≤ 2 nm) Polymer Coating. ACS Nano, 2017, 11, 7841-7847.	14.6	19
99	Facile Fabrication of High-Definition Hierarchical Wrinkle Structures for Investigating the Geometry-Sensitive Fate Commitment of Human Neural Stem Cells. ACS Applied Materials & Interfaces, 2019, 11, 17247-17255.	8.0	19
100	Antibacterial Nanopillar Array for an Implantable Intraocular Lens. Advanced Healthcare Materials, 2020, 9, e2000447.	7.6	19
101	Synthesis of single-walled carbon nanotube-incorporated polymer hydrogels via click chemistry. Polymer Chemistry, 2012, 3, 2451.	3.9	18
102	A thin film encapsulation layer fabricated via initiated chemical vapor deposition and atomic layer deposition. Journal of Applied Polymer Science, 2014, 131, .	2.6	18
103	Rollable Microfluidic Systems with Microscale Bending Radius and Tuning of Device Function with Reconfigurable 3D Channel Geometry. ACS Applied Materials & Interfaces, 2017, 9, 11156-11166.	8.0	18
104	Influence of adjusting the inlet channel confluence angle on mixing behaviour in inertial microfluidic mixers. Microfluidics and Nanofluidics, 2017, 21, 1.	2.2	18
105	A hydrogel-coated membrane for highly efficient separation of microalgal bio-lipid. Korean Journal of Chemical Engineering, 2018, 35, 1319-1327.	2.7	18
106	Transparent, Ultrahigh-Refractive Index Polymer Film ($n \approx 1.97$) with Minimal Birefringence ($\Delta n < 0.0010$). ACS Applied Materials & Interfaces, 2021, 13, 61629-61637.	8.0	18
107	A directly patternable click-active polymer film via initiated chemical vapor deposition (iCVD). Thin Solid Films, 2009, 517, 3606-3611.	1.8	17
108	Stretchable active matrix of oxide thin-film transistors with monolithic liquid metal interconnects. Applied Physics Express, 2018, 11, 126501.	2.4	17

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109	Synthesis of a series of biodegradable poly(butylene carbonate-co-isophthalate) random copolymers derived from CO ₂ -based comonomers for sustainable packaging. <i>Green Chemistry</i> , 2020, 22, 4570-4580.	9.0	17
110	Facilitated embedding of silver nanowires into conformally-coated iCVD polymer films deposited on cloth for robust wearable electronics. <i>Nanoscale</i> , 2017, 9, 3399-3407.	5.6	16
111	An efficient isolation of foodborne pathogen using surface-modified porous sponge. <i>Food Chemistry</i> , 2019, 270, 445-451.	8.2	16
112	Electrothermal soft manipulator enabling safe transport and handling of thin cell/tissue sheets and bioelectronic devices. <i>Science Advances</i> , 2020, 6, .	10.3	16
113	A Versatile Surface Modification Method via Vapor-phase Deposited Functional Polymer Films for Biomedical Device Applications. <i>Biotechnology and Bioprocess Engineering</i> , 2021, 26, 165-178.	2.6	16
114	Conformal 3D Nanopatterning by Block Copolymer Lithography with Vapor-Phase Deposited Neutral Adlayer. <i>ACS Nano</i> , 2019, 13, 13092-13099.	14.6	15
115	Reliable Synthesis of Monodisperse Microparticles: Prevention of Oxygen Diffusion and Organic Solvents Using Conformal Polymeric Coating onto Poly(dimethylsiloxane) Micromold. <i>Langmuir</i> , 2013, 29, 3474-3481.	3.5	14
116	Polymer Thin Films with Tunable Acetylcholine-like Functionality Enable Long-Term Culture of Primary Hippocampal Neurons. <i>ACS Nano</i> , 2016, 10, 9909-9918.	14.6	14
117	Vapor-phase synthesis of sub-15 nm hybrid gate dielectrics for organic thin film transistors. <i>Journal of Materials Chemistry C</i> , 2017, 5, 4463-4470.	5.5	14
118	Surface-Modified Mesh Filter for Direct Nucleic Acid Extraction and its Application to Gene Expression Analysis. <i>Advanced Healthcare Materials</i> , 2017, 6, 1700642.	7.6	14
119	A High-Performance Top-Gated Graphene Field-Effect Transistor with Excellent Flexibility Enabled by an iCVD Copolymer Gate Dielectric. <i>Small</i> , 2018, 14, 1703035.	10.0	14
120	Coating of an antimicrobial peptide on solid substrate via initiated chemical vapor deposition. <i>Journal of Industrial and Engineering Chemistry</i> , 2018, 58, 51-56.	5.8	14
121	Graphene electrode with tunable charge transport in thin-film transistors. <i>Nano Research</i> , 2018, 11, 274-286.	10.4	14
122	Long-Term Retention of Low-Power, Nonvolatile Organic Transistor Memory Based on Ultrathin, Trilayered Dielectric Containing Charge Trapping Functionality. <i>Advanced Functional Materials</i> , 2020, 30, 2004665.	14.9	13
123	A monolithic integration of robust, water-/oil-repellent layer onto multilayer encapsulation films for organic electronic devices. <i>RSC Advances</i> , 2015, 5, 68485-68492.	3.6	12
124	Efficient organic photomemory with photography-ready programming speed. <i>Scientific Reports</i> , 2016, 6, 30536.	3.3	12
125	Vapor-phase deposition of the fluorinated copolymer gate insulator for the p-type organic thin-film transistor. <i>Journal of Information Display</i> , 2016, 17, 43-49.	4.0	11
126	Extracellular matrix-immobilized nanotopographical substrates for enhanced myogenic differentiation. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2015, 103, 1258-1266.	3.4	10

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127	Stimulus-Responsive Anti-Oxidizing Drug Crystals and their Ecological Implication. <i>Small</i> , 2019, 15, e1900765.	10.0	10
128	A Sub-Micron-Thick stretchable adhesive layer for the lamination of arbitrary elastomeric substrates with enhanced adhesion stability. <i>Chemical Engineering Journal</i> , 2022, 429, 132250.	12.7	10
129	Tuning the electrode work function via a vapor-phase deposited ultrathin polymer film. <i>Journal of Materials Chemistry C</i> , 2016, 4, 831-839.	5.5	9
130	Initiated Chemical Vapor Deposition of Polymer Films at High Process Temperature for the Fabrication of Organic/Inorganic Multilayer Thin Film Encapsulation. <i>Advanced Engineering Materials</i> , 2017, 19, 1600870.	3.5	9
131	Three-Dimensional Spheroid Culture on Polymer-Coated Surface Potentiate Stem Cell Functions via Enhanced Cell-Extracellular Matrix Interactions. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 2240-2250.	5.2	9
132	Multifunctional Printable Micropattern Array for Digital Nucleic Acid Assay for Microbial Pathogen Detection. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 3098-3108.	8.0	9
133	Nanoadhesive layer to prevent protein absorption in a poly(dimethylsiloxane) microfluidic device. <i>BioTechniques</i> , 2020, 69, 46-51.	1.8	8
134	Hf- and Ti-Based Organic/Inorganic Hybrid Dielectrics Synthesized via Chemical Vapor Phase for Advanced Gate Stack in Flexible Electronic Devices. <i>Advanced Electronic Materials</i> , 2021, 7, 2001197.	5.1	8
135	All-in-One DNA Extraction Tube for Facilitated Real-Time Detection of Infectious Pathogens. <i>Advanced Healthcare Materials</i> , 2021, 10, e2100430.	7.6	8
136	Surface Hydrophobicity Modulates the Key Characteristics of Cancer Spheroids through the Interaction with the Adsorbed Proteins. <i>Advanced Functional Materials</i> , 2021, 31, 2100775.	14.9	8
137	A modulus-engineered multi-layer polymer film with mechanical robustness for the application to highly deformable substrate platform in stretchable electronics. <i>Chemical Engineering Journal</i> , 2022, 431, 134074.	12.7	8
138	Thermally Fast-Curable, "Sticky" Nanoadhesive for Strong Adhesion on Arbitrary Substrates. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 40868-40877.	8.0	7
139	High-Fidelity, Sub-5 nm Patterns from High-Block Copolymer Films with Vapor-Deposited Ultrathin, Cross-Linked Surface Modification Layers. <i>Macromolecular Rapid Communications</i> , 2020, 41, e1900514.	3.9	7
140	Large-Area, Conformal, and Uniform Synthesis of Hybrid Polymeric Film via Initiated Chemical Vapor Deposition. <i>Macromolecular Materials and Engineering</i> , 2021, 306, 2000608.	3.6	7
141	Highly Pure, Length-Sorted Boron Nitride Nanotubes by Gel Column Chromatography. <i>Chemistry of Materials</i> , 2021, 33, 4723-4732.	6.7	7
142	Highly Reliable Charge Trap-Type Organic Non-Volatile Memory Device Using Advanced Band-Engineered Organic-Inorganic Hybrid Dielectric Stacks. <i>Advanced Functional Materials</i> , 2021, 31, 2103291.	14.9	7
143	Polymer-Coated Surface as an Enzyme-Free Culture Platform to Improve Human Mesenchymal Stem Cell (hMSC) Characteristics in Extended Passaging. <i>ACS Applied Bio Materials</i> , 2020, 3, 7654-7665.	4.6	7
144	Synthesis of a Stretchable Polyampholyte Hydrophilic Film with Compositional Gradient for Long-Term Stable, Substrate-Independent Fouling-Resistant Coating. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	7

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145	Three-dimensional clustering of Janus cylinders by convex curvature and hydrophobic interactions. <i>Soft Matter</i> , 2015, 11, 4952-4961.	2.7	6
146	A biofunctionalized viral delivery patch for spatially defined transfection. <i>Chemical Communications</i> , 2019, 55, 2317-2320.	4.1	6
147	Multi-Stage Organic Logic Circuits Using Via-Hole-Less Metal Interconnects. <i>IEEE Electron Device Letters</i> , 2020, 41, 1685-1687.	3.9	6
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