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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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all docs

185
docs citations

185
times ranked

8591
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	Facile discovery of a therapeutic agent for NK-mediated synergistic antitumor effects using a patient-derived 3D platform. <i>Biomaterials Science</i> , 2022, 10, 678-691.	5.4	2
4	Short-chain fluorocarbon-based polymeric coating with excellent nonwetting ability against chemical warfare agents. <i>RSC Advances</i> , 2022, 12, 7773-7779.	3.6	2
5	VEGF-overexpressed Human Tonsil-derived Mesenchymal Stem Cells with PEG/HA-based Cryogels for Therapeutic Angiogenesis. <i>Biotechnology and Bioprocess Engineering</i> , 2022, 27, 17-29.	2.6	3
6	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
7	Engineering of Surface Energy of Cell Culture Platform to Enhance the Growth and Differentiation of Dendritic Cells via Vapor-Phase Synthesized Functional Polymer Films. <i>Small</i> , 2022, 18, e2106648.	10.0	2
8	Functional polymeric passivation-led improvement of bias stress with long-term durability of edge-rich nanoporous MoS ₂ thin-film transistors. <i>Npj 2D Materials and Applications</i> , 2022, 6, .	7.9	5
9	Vertically stacked, low-voltage organic ternary logic circuits including nonvolatile floating-gate memory transistors. <i>Nature Communications</i> , 2022, 13, 2305.	12.8	23
10	Highly Reliable Synaptic Cell Array Based on Organic-Inorganic Hybrid Bilayer Stack toward Precise Offline Learning. <i>Advanced Intelligent Systems</i> , 2022, 4, .	6.1	4
11	A highly bendable thin film encapsulation by the modulation of thermally induced interfacial residual stress. <i>Applied Surface Science</i> , 2022, 598, 153874.	6.1	5
12	Tunable and Reconfigurable Logic Gates With Electrolyte-Gated Transistor Array Co-Integrated With Neuromorphic Synapses. <i>IEEE Transactions on Electron Devices</i> , 2022, 69, 4231-4235.	3.0	2
13	Wettability-Based Cell Sorting: Exploring Label-Free Isolation Strategy for Mixed Primary Glial Cell Population. <i>Advanced Materials Interfaces</i> , 2022, 9, .	3.7	1
14	Biodegradable Aromatic-Aliphatic Copolyesters Derived from Bis(2-Hydroxyethyl) Terephthalate for Sustainable Flexible Packaging Applications. <i>ACS Applied Polymer Materials</i> , 2022, 4, 5298-5307.	4.4	4
15	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
16	Ultrathin and Bifunctional Polymer-Nanolayer-Embedded Separator to Simultaneously Alleviate Li Dendrite Growth and Polysulfide Crossover in Li-S Batteries. <i>ACS Applied Energy Materials</i> , 2021, 4, 611-622.	5.1	20
17	Heparin-mediated electrostatic immobilization of bFGF via functional polymer films for enhanced self-renewal of human neural stem cells. <i>Journal of Materials Chemistry B</i> , 2021, 9, 2084-2091.	5.8	4
18	Multi-functional logic circuits composed of ultra-thin electrolyte-gated transistors with wafer-scale integration. <i>Journal of Materials Chemistry C</i> , 2021, 9, 7222-7227.	5.5	3

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19	Synthesis of a Stretchable but Superhydrophobic Polymer Thin Film with Conformal Coverage and Optical Transparency. <i>Chemistry of Materials</i> , 2021, 33, 1314-1320.	6.7	21
20	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
21	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
22	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
23	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
24	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
25	Hybrid Gate Dielectric of MoS ₂ Transistors for Enhanced Photo-Electronic Stability. <i>Advanced Materials Interfaces</i> , 2021, 8, 2100599.	3.7	3
26	Highly Pure, Length-Sorted Boron Nitride Nanotubes by Gel Column Chromatography. <i>Chemistry of Materials</i> , 2021, 33, 4723-4732.	6.7	7
27	Foldable and washable textile-based OLEDs with a multi-functional near-room-temperature encapsulation layer for smart e-textiles. <i>Npj Flexible Electronics</i> , 2021, 5, .	10.7	27
28	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
29	Performance enhancement of p-type organic thin-film transistors by surface modification of hybrid dielectrics. <i>Organic Electronics</i> , 2021, 96, 106250.	2.6	1
30	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
31	Systematic Control of Negative Transconductance in Organic Heterojunction Transistor for High-Performance, Low-Power Flexible Ternary Logic Circuits. <i>Small</i> , 2021, 17, e2103365.	10.0	20
32	3D Hierarchical Polyaniline-Metal Hybrid Nanopillars: Morphological Control and Its Antibacterial Application. <i>Nanomaterials</i> , 2021, 11, 2716.	4.1	6
33	Transparent, Ultrahigh-Refractive Index Polymer Film ($n \approx 1.97$) with Minimal Birefringence ($n_x - n_y < 0.0010$). <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 61629-61637.	8.0	18
34	Direct Solvent-Free Modification of the Inner Wall of the Microchip for Rapid DNA Extraction with Enhanced Capturing Efficiency. <i>Macromolecular Research</i> , 2020, 28, 249-256.	2.4	23
35	Surface-Modified Filter-Based Continuous Recovery of Microalgal Lipid-in-Solvent with High Recovery Efficiency, Long-Term Stability, and Cost Competitiveness. <i>ACS Applied Bio Materials</i> , 2020, 3, 263-272.	4.6	2
36	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

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37	Heavily Crosslinked, High- <i>k</i> Ultrathin Polymer Dielectrics for Flexible, Low-Power Organic Thin-Film Transistors (OTFTs). <i>Advanced Electronic Materials</i> , 2020, 6, 2000314.	5.1	25
38	Antibacterial Nanopillar Array for an Implantable Intraocular Lens. <i>Advanced Healthcare Materials</i> , 2020, 9, e2000447.	7.6	19
39	Remodeling of Adhesion Network within Cancer Spheroids via Cell-Polymer Interaction. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 5632-5644.	5.2	4
40	Multi-Stage Organic Logic Circuits Using Via-Hole-Less Metal Interconnects. <i>IEEE Electron Device Letters</i> , 2020, 41, 1685-1687.	3.9	6
41	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
42	Nanoadhesive layer to prevent protein absorption in a poly(dimethylsiloxane) microfluidic device. <i>BioTechniques</i> , 2020, 69, 46-51.	1.8	8
43	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
44	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
45	One-step vapor-phase synthesis of transparent high refractive index sulfur-containing polymers. <i>Science Advances</i> , 2020, 6, eabb5320.	10.3	71
46	Prior acquired resistance to paclitaxel relays diverse EGFR-targeted therapy persistence mechanisms. <i>Science Advances</i> , 2020, 6, eaav7416.	10.3	29
47	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
48	High-Fidelity, Sub-5 nm Patterns from High- <i>k</i> Block Copolymer Films with Vapor-Deposited Ultrathin, Cross-Linked Surface-Modification Layers. <i>Macromolecular Rapid Communications</i> , 2020, 41, e1900514.	3.9	7
49	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
50	An efficient isolation of foodborne pathogen using surface-modified porous sponge. <i>Food Chemistry</i> , 2019, 270, 445-451.	8.2	16
51	In situ solvent recovery by using hydrophobic/oleophilic filter during wet lipid extraction from microalgae. <i>Bioprocess and Biosystems Engineering</i> , 2019, 42, 1447-1455.	3.4	4
52	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. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 29113-29123.	8.0	29
53	Conformal 3D Nanopatterning by Block Copolymer Lithography with Vapor-Phase Deposited Neutral Adlayer. <i>ACS Nano</i> , 2019, 13, 13092-13099.	14.6	15
54	Ultrathin ZrO ₂ -Organic Hybrid Dielectric (EOT 3.2 nm) via Initiated Chemical Vapor Deposition for High-Performance Flexible Electronics. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 44513-44520.	8.0	26

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55	Parylene based thin-film microfluidic lens array fabricated by iCVD nano-adhesive bonding. <i>Polymer</i> , 2019, 181, 121763.	3.8	4
56	High-performance thin H:SiON OLED encapsulation layer deposited by PECVD at low temperature. <i>RSC Advances</i> , 2019, 9, 58-64.	3.6	20
57	A biofunctionalized viral delivery patch for spatially defined transfection. <i>Chemical Communications</i> , 2019, 55, 2317-2320.	4.1	6
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	Antioxidants: Stimulus-Responsive Anti-Oxidizing Drug Crystals and their Ecological Implication (Small) <i>Tj ETQq1_1.0.784314 rgBT</i>	10.0	0
60	P2: A Sticky, Thermo-Curable Nano-Adhesive for Future Flexible Display Applications: Ultrathin, Soft, and Fast-Acting. <i>Digest of Technical Papers SID International Symposium</i> , 2019, 50, 1610-1612.	0.3	1
61	Facile Fabrication of High-Definition Hierarchical Wrinkle Structures for Investigating the Geometry-Sensitive Fate Commitment of Human Neural Stem Cells. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 17247-17255.	8.0	19
62	Neuron-Muscle Interfaces: Matrix Topography Regulates Synaptic Transmission at the Neuromuscular Junction (Adv. Sci. 6/2019). <i>Advanced Science</i> , 2019, 6, 1970032.	11.2	0
63	Matrix Topography Regulates Synaptic Transmission at the Neuromuscular Junction. <i>Advanced Science</i> , 2019, 6, 1801521.	11.2	22
64	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
65	Large-Scale, Low-Power Nonvolatile Memory Based on Few-Layer MoS ₂ and Ultrathin Polymer Dielectrics. <i>Advanced Electronic Materials</i> , 2019, 5, 1800688.	5.1	23
66	Stimulus-Responsive Anti-Oxidizing Drug Crystals and their Ecological Implication. <i>Small</i> , 2019, 15, e1900765.	10.0	10
67	Low-Power, Flexible Nonvolatile Organic Transistor Memory Based on an Ultrathin Bilayer Dielectric Stack. <i>Advanced Electronic Materials</i> , 2019, 5, 1800799.	5.1	23
68	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
69	A Sub-minute Curable Nanoadhesive with High Transparency, Strong Adhesion, and Excellent Flexibility. <i>Macromolecules</i> , 2018, 51, 992-1001.	4.8	22
70	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
71	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
72	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

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73	Memristive Logic-in-Memory Integrated Circuits for Energy-Efficient Flexible Electronics. <i>Advanced Functional Materials</i> , 2018, 28, 1704725.	14.9	57
74	Initiated Chemical Vapor Deposition: A Versatile Tool for Various Device Applications. <i>Advanced Engineering Materials</i> , 2018, 20, 1700622.	3.5	93
75	Graphene electrode with tunable charge transport in thin-film transistors. <i>Nano Research</i> , 2018, 11, 274-286.	10.4	14
76	Selective Pore-Sealing of Highly Porous Ultralow-k dielectrics for ULSI Interconnects by Cyclic Initiated Chemical Vapor Deposition Process. , 2018, , .		0
77	Conformal, Wafer-Scale and Controlled Nanoscale Doping of Semiconductors Via the iCVD Process. , 2018, , .		2
78	Stretchable active matrix of oxide thin-film transistors with monolithic liquid metal interconnects. <i>Applied Physics Express</i> , 2018, 11, 126501.	2.4	17
79	Novel Vapor-Phase Synthesis of Flexible, Homogeneous Organic-Inorganic Hybrid Gate Dielectric with sub 5 nm Equivalent Oxide Thickness. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 37326-37334.	8.0	26
80	Polymer Thin Film-Induced Tumor Spheroids Acquire Cancer Stem Cell-like Properties. <i>Cancer Research</i> , 2018, 78, 6890-6902.	0.9	20
81	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
82	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
83	A hydrogel-coated membrane for highly efficient separation of microalgal bio-lipid. <i>Korean Journal of Chemical Engineering</i> , 2018, 35, 1319-1327.	2.7	18
84	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
85	Springtail-inspired superomniphobic surface with extreme pressure resistance. <i>Science Advances</i> , 2018, 4, eaat4978.	10.3	112
86	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
87	Rollable Microfluidic Systems with Microscale Bending Radius and Tuning of Device Function with Reconfigurable 3D Channel Geometry. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 11156-11166.	8.0	18
88	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.	8.2	35
89	Zero-static-power nonvolatile logic-in-memory circuits for flexible electronics. <i>Nano Research</i> , 2017, 10, 2459-2470.	10.4	39
90	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

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91	Chondroitin Sulfate-Based Biomineralizing Surface Hydrogels for Bone Tissue Engineering. ACS Applied Materials & Interfaces, 2017, 9, 21639-21650.	8.0	118
92	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
93	Initiated Chemical Vapor Deposition of Polymer Films at High Process Temperature for the Fabrication of Organic/Inorganic Multilayer Thin Film Encapsulation. Advanced Engineering Materials, 2017, 19, 1600870.	3.5	9
94	Vapor-phase synthesis of sub-15 nm hybrid gate dielectrics for organic thin film transistors. Journal of Materials Chemistry C, 2017, 5, 4463-4470.	5.5	14
95	Facilitated embedding of silver nanowires into conformally-coated iCVD polymer films deposited on cloth for robust wearable electronics. Nanoscale, 2017, 9, 3399-3407.	5.6	16
96	Hydrogel Functionalized Janus Membrane for Skin Regeneration. Advanced Healthcare Materials, 2017, 6, 1600795.	7.6	46
97	Organic/inorganic multilayer thin film encapsulation via initiated chemical vapor deposition and atomic layer deposition for its application to organic solar cells. Korean Journal of Chemical Engineering, 2017, 34, 892-897.	2.7	32
98	Organic flash memory on various flexible substrates for foldable and disposable electronics. Nature Communications, 2017, 8, 725.	12.8	88
99	Thermally Fast-Curable, "Sticky" Noadhesive for Strong Adhesion on Arbitrary Substrates. ACS Applied Materials & Interfaces, 2017, 9, 40868-40877.	8.0	7
100	Low-Power Nonvolatile Charge Storage Memory Based on MoS ₂ and an Ultrathin Polymer Tunneling Dielectric. Advanced Functional Materials, 2017, 27, 1703545.	14.9	43
101	Functional Circuitry on Commercial Fabric via Textile-Compatible Nanoscale Film Coating Process for Fibertronics. Nano Letters, 2017, 17, 6443-6452.	9.1	62
102	Surface-Localized Sealing of Porous Ultralow-k Dielectric Films with Ultrathin (≤ 2 nm) Polymer Coating. ACS Nano, 2017, 11, 7841-7847.	14.6	19
103	Surface-Modified Mesh Filter for Direct Nucleic Acid Extraction and its Application to Gene Expression Analysis. Advanced Healthcare Materials, 2017, 6, 1700642.	7.6	14
104	Electroconductive nanoscale topography for enhanced neuronal differentiation and electrophysiological maturation of human neural stem cells. Nanoscale, 2017, 9, 18737-18752.	5.6	72
105	Thermosensitive, Stretchable, and Piezoelectric Substrate for Generation of Myogenic Cell Sheet Fragments from Human Mesenchymal Stem Cells for Skeletal Muscle Regeneration. Advanced Functional Materials, 2017, 27, 1703853.	14.9	42
106	Flexible, Low-Power Thin-Film Transistors Made of Vapor-Phase Synthesized High-k, Ultrathin Polymer Gate Dielectrics. ACS Applied Materials & Interfaces, 2017, 9, 20808-20817.	8.0	61
107	Influence of adjusting the inlet channel confluence angle on mixing behaviour in inertial microfluidic mixers. Microfluidics and Nanofluidics, 2017, 21, 1.	2.2	18
108	A Highly Sensitive Molecular Detection Platform for Robust and Facile Diagnosis of Middle East Respiratory Syndrome (MERS) Corona Virus. Advanced Healthcare Materials, 2016, 5, 2168-2173.	7.6	40

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109	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
110	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
111	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
112	Triboelectric energy harvester with an ultra-thin tribo-dielectric layer by initiated CVD and investigation of underlying physics in the triboelectricity. , 2016, , .		1
113	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
114	Microfluidics-Based Pathogen Detection: A Highly Sensitive Molecular Detection Platform for Robust and Facile Diagnosis of Middle East Respiratory Syndrome (MERS) Corona Virus (<i>Adv. Healthcare Tj ETQqO O O rgBT. Overlock 10 Tf 50</i>)		
115	Thin-Film Transistors: Synthesis of Ultrathin, Homogeneous Copolymer Dielectrics to Control the Threshold Voltage of Organic Thin-Film Transistors (<i>Adv. Funct. Mater.</i> 36/2016). <i>Advanced Functional Materials</i> , 2016, 26, 6672-6672.	14.9	0
116	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
117	Electroconductive Nanopatterned Substrates for Enhanced Myogenic Differentiation and Maturation. <i>Advanced Healthcare Materials</i> , 2016, 5, 137-145.	7.6	71
118	Floating gate memory based on MoS ₂ channel and iCVD polymer tunneling dielectric. , 2016, , .		2
119	A Superamphiphobic Sponge with Mechanical Durability and a Self-Cleaning Effect. <i>Scientific Reports</i> , 2016, 6, 29993.	3.3	28
120	Efficient organic photomemory with photography-ready programming speed. <i>Scientific Reports</i> , 2016, 6, 30536.	3.3	12
121	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
122	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
123	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
124	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
125	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
126	Control of Reversible Self-Bending Behavior in Responsive Janus Microstrips. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 8782-8788.	8.0	28

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127	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
128	Extracellular matrix-immobilized nanotopographical substrates for enhanced myogenic differentiation. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2015, 103, 1258-1266.	3.4	10
129	A Surface Tailoring Method of Ultrathin Polymer Gate Dielectrics for Organic Transistors: Improved Device Performance and the Thermal Stability Thereof. Advanced Functional Materials, 2015, 25, 4462-4469.	14.9	56
130	Application of Monodirectional Janus Patch to Oromucosal Delivery System. Advanced Healthcare Materials, 2015, 4, 2229-2236.	7.6	21
131	Three-dimensional clustering of Janus cylinders by convex curvature and hydrophobic interactions. Soft Matter, 2015, 11, 4952-4961.	2.7	6
132	Hydrogel-laden paper scaffold system for origami-based tissue engineering. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 15426-15431.	7.1	87
133	Ultra-low power, highly uniform polymer memory by inserted multilayer graphene electrode. 2D Materials, 2015, 2, 044013.	4.4	21
134	Organic thin film photomemory with isolated photo-active charge storage. , 2015, , .		0
135	PDMS-based turbulent microfluidic mixer. Lab on A Chip, 2015, 15, 1727-1735.	6.0	61
136	Biofunctionalized titanium with anti-fouling resistance by grafting thermo-responsive polymer brushes for the prevention of peri-implantitis. Journal of Materials Chemistry B, 2015, 3, 5161-5165.	5.8	32
137	Series of Liquid Separation System Made of Homogeneous Copolymer Films with Controlled Surface Wettability. Chemistry of Materials, 2015, 27, 3441-3449.	6.7	58
138	Synthesis of ultrathin polymer insulating layers by initiated chemical vapour deposition for low-power soft electronics. Nature Materials, 2015, 14, 628-635.	27.5	229
139	Nanothin Coculture Membranes with Tunable Pore Architecture and Thermoresponsive Functionality for Transfer-Printable Stem Cell-Derived Cardiac Sheets. ACS Nano, 2015, 9, 10186-10202.	14.6	44
140	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
141	A monolithic integration of robust, water-/oil-repellent layer onto multilayer encapsulation films for organic electronic devices. RSC Advances, 2015, 5, 68485-68492.	3.6	12
142	Initiated Chemical Vapor Deposition (iCVD) of Highly Cross-Linked Polymer Films for Advanced Lithium-Ion Battery Separators. ACS Applied Materials & Interfaces, 2015, 7, 18849-18855.	8.0	40
143	Generation of functionalized polymer nanolayer on implant surface via initiated chemical vapor deposition (iCVD). Journal of Colloid and Interface Science, 2015, 439, 34-41.	9.4	29
144	A Conformal Vapor-Phase Deposition of Poly(2-(perfluorohexyl)ethyl methacrylate) and the Hydrophobic Properties Thereof. Nanoscience and Nanotechnology Letters, 2015, 7, 45-49.	0.4	2

#	ARTICLE	IF	CITATIONS
145	Hoop stress-assisted three-dimensional particle focusing under viscoelastic flow. <i>Rheologica Acta</i> , 2014, 53, 927-933.	2.4	42
146	Nanopatterning: Scalable Nanopillar Arrays with Layer-by-Layer Patterned Overt and Covert Images (<i>Adv. Mater.</i> 35/2014). <i>Advanced Materials</i> , 2014, 26, 6200-6200.	21.0	0
147	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
148	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
149	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
150	A thin film encapsulation layer fabricated via initiated chemical vapor deposition and atomic layer deposition. <i>Journal of Applied Polymer Science</i> , 2014, 131, .	2.6	18
151	Scalable Nanopillar Arrays with Layer-by-Layer Patterned Overt and Covert Images. <i>Advanced Materials</i> , 2014, 26, 6119-6124.	21.0	42
152	Site-specific immobilization of proteins on non-conventional substrates via solvent-free initiated chemical vapour deposition (iCVD) process. <i>Polymer Chemistry</i> , 2014, 5, 4459.	3.9	20
153	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
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157	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
158	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
159	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
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161	A stacked polymer film for robust superhydrophobic fabrics. <i>Polymer Chemistry</i> , 2013, 4, 1664.	3.9	98
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164	Chondrogenic Priming Adipose-Mesenchymal Stem Cells for Cartilage Tissue Regeneration. <i>Pharmaceutical Research</i> , 2011, 28, 1395-1405.	3.5	50
165	Direct Monolithic Integration of Organic Photovoltaic Circuits on Unmodified Paper. <i>Advanced Materials</i> , 2011, 23, 3500-3505.	21.0	243
166	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
167	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
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176	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
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