

Sung Gap Im

List of Publications by Year in Descending Order

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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.

174 papers	4,927 citations	41 h-index	62 g-index
185 ext. papers	5,658 ext. citations	8.9 avg, IF	5.76 L-index

#	Paper	IF	Citations
174	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	14.7	0
173	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	14.7	3
172	Short-chain fluorocarbon-based polymeric coating with excellent nonwetting ability against chemical warfare agents.. <i>RSC Advances</i> , 2022 , 12, 7773-7779	3.7	1
171	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	3.1	0
170	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 , e2106648	11	
169	Vertically stacked, low-voltage organic ternary logic circuits including nonvolatile floating-gate memory transistors.. <i>Nature Communications</i> , 2022 , 13, 2305	17.4	2
168	A highly bendable thin film encapsulation by the modulation of thermally induced interfacial residual stress. <i>Applied Surface Science</i> , 2022 , 598, 153874	6.7	1
167	Systematic Control of Negative Transconductance in Organic Heterojunction Transistor for High-Performance, Low-Power Flexible Ternary Logic Circuits. <i>Small</i> , 2021 , 17, e2103365	11	8
166	3D Hierarchical Polyaniline-Metal Hybrid Nanopillars: Morphological Control and Its Antibacterial Application. <i>Nanomaterials</i> , 2021 , 11,	5.4	1
165	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	6.4	2
164	All-Solid-State Ion Synaptic Transistor for Wafer-Scale Integration with Electrolyte of a Nanoscale Thickness. <i>Advanced Functional Materials</i> , 2021 , 31, 2010971	15.6	13
163	A Versatile Surface Modification Method via Vapor-phase Deposited Functional Polymer Films for Biomedical Device Applications. <i>Biotechnology and Bioprocess Engineering</i> , 2021 , 26, 1-14	3.1	4
162	All-in-One DNA Extraction Tube for Facilitated Real-Time Detection of Infectious Pathogens. <i>Advanced Healthcare Materials</i> , 2021 , 10, e2100430	10.1	1
161	Surface Hydrophobicity Modulates the Key Characteristics of Cancer Spheroids through the Interaction with the Adsorbed Proteins. <i>Advanced Functional Materials</i> , 2021 , 31, 2100775	15.6	2
160	Hybrid Gate Dielectric of MoS ₂ Transistors for Enhanced Photo-Electronic Stability. <i>Advanced Materials Interfaces</i> , 2021 , 8, 2100599	4.6	2
159	Highly Pure, Length-Sorted Boron Nitride Nanotubes by Gel Column Chromatography. <i>Chemistry of Materials</i> , 2021 , 33, 4723-4732	9.6	2
158	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	7

157	Large-Area, Conformal, and Uniform Synthesis of Hybrid Polymeric Film via Initiated Chemical Vapor Deposition. <i>Macromolecular Materials and Engineering</i> , 2021 , 306, 2000608	3.9	3
156	Ultrathin and Bifunctional Polymer-Nanolayer-Embedded Separator to Simultaneously Alleviate Li Dendrite Growth and Polysulfide Crossover in LiS Batteries. <i>ACS Applied Energy Materials</i> , 2021 , 4, 611-622	6.1	8
155	Heparin-mediated electrostatic immobilization of bFGF functional polymer films for enhanced self-renewal of human neural stem cells. <i>Journal of Materials Chemistry B</i> , 2021 , 9, 2084-2091	7.3	2
154	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	7.1	2
153	Synthesis of a Stretchable but Superhydrophobic Polymer Thin Film with Conformal Coverage and Optical Transparency. <i>Chemistry of Materials</i> , 2021 , 33, 1314-1320	9.6	6
152	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	15.6	2
151	Performance enhancement of p-type organic thin-film transistors by surface modification of hybrid dielectrics. <i>Organic Electronics</i> , 2021 , 96, 106250	3.5	
150	Multifunctional Printable Micropattern Array for Digital Nucleic Acid Assay for Microbial Pathogen Detection. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 3098-3108	9.5	3
149	Transparent, Ultrahigh-Refractive Index Polymer Film (~1.97) with Minimal Birefringence (Δn ACS <i>Applied Materials & Interfaces</i> , 2021 , 13, 61629-61637	9.5	3
148	Nanoadhesive layer to prevent protein absorption in a poly(dimethylsiloxane) microfluidic device. <i>BioTechniques</i> , 2020 , 69, 404-409	2.5	4
147	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	10	8
146	A Surface-Tailoring Method for Rapid Non-Thermosensitive Cell-Sheet Engineering via Functional Polymer Coatings. <i>Advanced Materials</i> , 2020 , 32, e1907225	24	18
145	One-step vapor-phase synthesis of transparent high refractive index sulfur-containing polymers. <i>Science Advances</i> , 2020 , 6, eabb5320	14.3	30
144	Prior acquired resistance to paclitaxel relays diverse EGFR-targeted therapy persistence mechanisms. <i>Science Advances</i> , 2020 , 6, eaav7416	14.3	13
143	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	5.5	5
142	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	4.8	4
141	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	4.1	3
140	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	1.9	15

139	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	4.1	2
138	Electrothermal soft manipulator enabling safe transport and handling of thin cell/tissue sheets and bioelectronic devices. <i>Science Advances</i> , 2020 , 6,	14.3	11
137	Heavily Crosslinked, High-k Ultrathin Polymer Dielectrics for Flexible, Low-Power Organic Thin-Film Transistors (OTFTs). <i>Advanced Electronic Materials</i> , 2020 , 6, 2000314	6.4	12
136	Antibacterial Nanopillar Array for an Implantable Intraocular Lens. <i>Advanced Healthcare Materials</i> , 2020 , 9, e2000447	10.1	9
135	Remodeling of Adhesion Network within Cancer Spheroids via Cell-Polymer Interaction. <i>ACS Biomaterials Science and Engineering</i> , 2020 , 6, 5632-5644	5.5	3
134	Multi-Stage Organic Logic Circuits Using Via-Hole-Less Metal Interconnects. <i>IEEE Electron Device Letters</i> , 2020 , 41, 1685-1687	4.4	3
133	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	15.6	7
132	Parylene based thin-film microfluidic lens array fabricated by iCVD nano-adhesive bonding. <i>Polymer</i> , 2019 , 181, 121763	3.9	3
131	A biofunctionalized viral delivery patch for spatially defined transfection. <i>Chemical Communications</i> , 2019 , 55, 2317-2320	5.8	4
130	Highly stacked 3D organic integrated circuits with via-hole-less multilevel metal interconnects. <i>Nature Communications</i> , 2019 , 10, 2424	17.4	19
129	Antioxidants: Stimulus-Responsive Anti-Oxidizing Drug Crystals and their Ecological Implication (Small 21/2019). <i>Small</i> , 2019 , 15, 1970112	11	
128	P-132: 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	0.5	
127	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	9.5	14
126	NeuronMuscle Interfaces: Matrix Topography Regulates Synaptic Transmission at the Neuromuscular Junction (Adv. Sci. 6/2019). <i>Advanced Science</i> , 2019 , 6, 1970032	13.6	78
125	Matrix Topography Regulates Synaptic Transmission at the Neuromuscular Junction. <i>Advanced Science</i> , 2019 , 6, 1801521	13.6	15
124	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	8.3	21
123	Large-Scale, Low-Power Nonvolatile Memory Based on Few-Layer MoS2 and Ultrathin Polymer Dielectrics. <i>Advanced Electronic Materials</i> , 2019 , 5, 1800688	6.4	16
122	Stimulus-Responsive Anti-Oxidizing Drug Crystals and their Ecological Implication. <i>Small</i> , 2019 , 15, e1900765	11	6

121	An efficient isolation of foodborne pathogen using surface-modified porous sponge. <i>Food Chemistry</i> , 2019 , 270, 445-451	8.5	12
120	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	3.7	2
119	Spontaneous Generation of a Molecular Thin Hydrophobic Skin Layer on a Sub-20 nm, High-Polymer Dielectric for Extremely Stable Organic Thin-Film Transistor Operation. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 29113-29123	9.5	23
118	Conformal 3D Nanopatterning by Block Copolymer Lithography with Vapor-Phase Deposited Neutral Adlayer. <i>ACS Nano</i> , 2019 , 13, 13092-13099	16.7	10
117	Ultrathin ZrO-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	9.5	16
116	Low-Power, Flexible Nonvolatile Organic Transistor Memory Based on an Ultrathin Bilayer Dielectric Stack. <i>Advanced Electronic Materials</i> , 2019 , 5, 1800799	6.4	19
115	Polymer Analog Memristive Synapse with Atomic-Scale Conductive Filament for Flexible Neuromorphic Computing System. <i>Nano Letters</i> , 2019 , 19, 839-849	11.5	84
114	High-performance thin H:SiON OLED encapsulation layer deposited by PECVD at low temperature.. <i>RSC Advances</i> , 2018 , 9, 58-64	3.7	15
113	A Sub-minute Curable Nanoadhesive with High Transparency, Strong Adhesion, and Excellent Flexibility. <i>Macromolecules</i> , 2018 , 51, 992-1001	5.5	18
112	A Low-Temperature Thin-Film Encapsulation for Enhanced Stability of a Highly Efficient Perovskite Solar Cell. <i>Advanced Energy Materials</i> , 2018 , 8, 1701928	21.8	98
111	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	11	8
110	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	6.3	9
109	Springtail-inspired superomniphobic surface with extreme pressure resistance. <i>Science Advances</i> , 2018 , 4, eaat4978	14.3	69
108	Memristive Logic-in-Memory Integrated Circuits for Energy-Efficient Flexible Electronics. <i>Advanced Functional Materials</i> , 2018 , 28, 1704725	15.6	37
107	Initiated Chemical Vapor Deposition: A Versatile Tool for Various Device Applications. <i>Advanced Engineering Materials</i> , 2018 , 20, 1700622	3.5	54
106	Graphene electrode with tunable charge transport in thin-film transistors. <i>Nano Research</i> , 2018 , 11, 274-286		14
105	Conformal, Wafer-Scale and Controlled Nanoscale Doping of Semiconductors Via the iCVD Process 2018 ,		2
104	Stretchable active matrix of oxide thin-film transistors with monolithic liquid metal interconnects. <i>Applied Physics Express</i> , 2018 , 11, 126501	2.4	9

103	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	9.5	17
102	Polymer Thin Film-Induced Tumor Spheroids Acquire Cancer Stem Cell-like Properties. <i>Cancer Research</i> , 2018 , 78, 6890-6902	10.1	11
101	Distinct Mechanosensing of Human Neural Stem Cells on Extremely Limited Anisotropic Cellular Contact. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 33891-33900	9.5	18
100	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	9.5	12
99	A hydrogel-coated membrane for highly efficient separation of microalgal bio-lipid. <i>Korean Journal of Chemical Engineering</i> , 2018 , 35, 1319-1327	2.8	13
98	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	5.5	21
97	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	16.4	91
96	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	9.5	16
95	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 Escherichia coli. <i>Microbial Biotechnology</i> , 2017 , 10, 1353-1364	6.3	29
94	Zero-static-power nonvolatile logic-in-memory circuits for flexible electronics. <i>Nano Research</i> , 2017 , 10, 2459-2470	10	31
93	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	9.5	49
92	Chondroitin Sulfate-Based Biomineralizing Surface Hydrogels for Bone Tissue Engineering. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 21639-21650	9.5	78
91	A Single-Chamber System of Initiated Chemical Vapor Deposition and Atomic Layer Deposition for Fabrication of Organic/Inorganic Multilayer Films. <i>Advanced Engineering Materials</i> , 2017 , 19, 1600819	3.5	19
90	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	6
89	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	7.1	13
88	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	7.7	14
87	Hydrogel Functionalized Janus Membrane for Skin Regeneration. <i>Advanced Healthcare Materials</i> , 2017 , 6, 1600795	10.1	32
86	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	2.8	27

85	Organic flash memory on various flexible substrates for foldable and disposable electronics. <i>Nature Communications</i> , 2017 , 8, 725	17.4	62
84	Thermally Fast-Curable, "Sticky" Nanoadhesive for Strong Adhesion on Arbitrary Substrates. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 40868-40877	9.5	3
83	Low-Power Nonvolatile Charge Storage Memory Based on MoS ₂ and an Ultrathin Polymer Tunneling Dielectric. <i>Advanced Functional Materials</i> , 2017 , 27, 1703545	15.6	29
82	Functional Circuitry on Commercial Fabric via Textile-Compatible Nanoscale Film Coating Process for Fibertronics. <i>Nano Letters</i> , 2017 , 17, 6443-6452	11.5	47
81	Surface-Localized Sealing of Porous Ultralow-k Dielectric Films with Ultrathin (. <i>ACS Nano</i> , 2017 , 11, 7841-7847	16.7	15
80	Surface-Modified Mesh Filter for Direct Nucleic Acid Extraction and its Application to Gene Expression Analysis. <i>Advanced Healthcare Materials</i> , 2017 , 6, 1700642	10.1	10
79	Electroconductive nanoscale topography for enhanced neuronal differentiation and electrophysiological maturation of human neural stem cells. <i>Nanoscale</i> , 2017 , 9, 18737-18752	7.7	48
78	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	15.6	24
77	Flexible, Low-Power Thin-Film Transistors Made of Vapor-Phase Synthesized High-k, Ultrathin Polymer Gate Dielectrics. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 20808-20817	9.5	44
76	Influence of adjusting the inlet channel confluence angle on mixing behaviour in inertial microfluidic mixers. <i>Microfluidics and Nanofluidics</i> , 2017 , 21, 1	2.8	13
75	Floating gate memory based on MoS ₂ channel and iCVD polymer tunneling dielectric 2016 ,		2
74	A Superamphiphobic Sponge with Mechanical Durability and a Self-Cleaning Effect. <i>Scientific Reports</i> , 2016 , 6, 29993	4.9	22
73	Efficient organic photomemory with photography-ready programming speed. <i>Scientific Reports</i> , 2016 , 6, 30536	4.9	10
72	Polymer Thin Films with Tunable Acetylcholine-like Functionality Enable Long-Term Culture of Primary Hippocampal Neurons. <i>ACS Nano</i> , 2016 , 10, 9909-9918	16.7	13
71	Photolithography-Based Patterning of Liquid Metal Interconnects for Monolithically Integrated Stretchable Circuits. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 15459-65	9.5	72
70	Vapor-Phase Deposited Ultrathin Polymer Gate Dielectrics for High-Performance Organic Thin Film Transistors. <i>Advanced Electronic Materials</i> , 2016 , 2, 1500209	6.4	31
69	Tuning the electrode work function via a vapor-phase deposited ultrathin polymer film. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 831-839	7.1	9
68	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	11.8	28

67	Control of Reversible Self-Bending Behavior in Responsive Janus Microstrips. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 8782-8	9.5	22
66	A Simple, Cost-Efficient Method to Separate Microalgal Lipids from Wet Biomass Using Surface Energy-Modified Membranes. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 600-8	9.5	20
65	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, 2168-73	10.1	34
64	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	6.4	24
63	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	4.1	8
62	Logic circuits composed of flexible carbon nanotube thin-film transistor and ultra-thin polymer gate dielectric. <i>Scientific Reports</i> , 2016 , 6, 26121	4.9	24
61	Triboelectric energy harvester with an ultra-thin tribo-dielectric layer by initiated CVD and investigation of underlying physics in the triboelectricity 2016 ,		1
60	Flexible Nonvolatile Polymer Memory Array on Plastic Substrate via Initiated Chemical Vapor Deposition. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 12951-8	9.5	49
59	Microfluidics-Based Pathogen Detection: A Highly Sensitive Molecular Detection Platform for Robust and Facile Diagnosis of Middle East Respiratory Syndrome (MERS) Corona Virus (Adv. Healthcare Mater. 17/2016). <i>Advanced Healthcare Materials</i> , 2016 , 5, 2146-2146	10.1	2
58	Thin-Film Transistors: Synthesis of Ultrathin, Homogeneous Copolymer Dielectrics to Control the Threshold Voltage of Organic Thin-Film Transistors (Adv. Funct. Mater. 36/2016). <i>Advanced Functional Materials</i> , 2016 , 26, 6672-6672	15.6	
57	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	15.6	30
56	Electroconductive Nanopatterned Substrates for Enhanced Myogenic Differentiation and Maturation. <i>Advanced Healthcare Materials</i> , 2016 , 5, 137-45	10.1	52
55	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	7.3	26
54	Series of Liquid Separation System Made of Homogeneous Copolymer Films with Controlled Surface Wettability. <i>Chemistry of Materials</i> , 2015 , 27, 3441-3449	9.6	47
53	Synthesis of ultrathin polymer insulating layers by initiated chemical vapour deposition for low-power soft electronics. <i>Nature Materials</i> , 2015 , 14, 628-35	27	184
52	Nanothin Coculture Membranes with Tunable Pore Architecture and Thermoresponsive Functionality for Transfer-Printable Stem Cell-Derived Cardiac Sheets. <i>ACS Nano</i> , 2015 , 9, 10186-202	16.7	37
51	Effects of interfacial layer wettability and thickness on the coating morphology and sirolimus release for drug-eluting stent. <i>Journal of Colloid and Interface Science</i> , 2015 , 460, 189-99	9.3	20
50	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	3.7	11

49	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, 18849-55	9.5	26
48	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	9.3	26
47	Extracellular matrix-immobilized nanotopographical substrates for enhanced myogenic differentiation. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2015 , 103, 1258-66	3.5	9
46	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	15.6	48
45	Application of monodirectional Janus patch to oromucosal delivery system. <i>Advanced Healthcare Materials</i> , 2015 , 4, 2229-36	10.1	18
44	Three-dimensional clustering of Janus cylinders by convex curvature and hydrophobic interactions. <i>Soft Matter</i> , 2015 , 11, 4952-61	3.6	6
43	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, 15426-31	11.5	74
42	Ultra-low power, highly uniform polymer memory by inserted multilayer graphene electrode. <i>2D Materials</i> , 2015 , 2, 044013	5.9	18
41	PDMS-based turbulent microfluidic mixer. <i>Lab on A Chip</i> , 2015 , 15, 1727-35	7.2	48
40	A Conformal Vapor-Phase Deposition of Poly(2-(perfluorohexyl)ethyl methacrylate) and the Hydrophobic Properties Thereof. <i>Nanoscience and Nanotechnology Letters</i> , 2015 , 7, 45-49	0.8	2
39	An effective, cost-efficient extraction method of biomass from wet microalgae with a functional polymeric membrane. <i>Green Chemistry</i> , 2014 , 16, 312-319	10	52
38	A thin film encapsulation layer fabricated via initiated chemical vapor deposition and atomic layer deposition. <i>Journal of Applied Polymer Science</i> , 2014 , 131, n/a-n/a	2.9	10
37	Scalable nanopillar arrays with layer-by-layer patterned overt and covert images. <i>Advanced Materials</i> , 2014 , 26, 6119-24	24	34
36	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	4.9	20
35	Simple and reliable method to incorporate the Janus property onto arbitrary porous substrates. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 4005-10	9.5	44
34	Multiscale, hierarchically patterned topography for directing human neural stem cells into functional neurons. <i>ACS Nano</i> , 2014 , 8, 7809-22	16.7	113
33	Paper-based bioactive scaffolds for stem cell-mediated bone tissue engineering. <i>Biomaterials</i> , 2014 , 35, 9811-9823	15.6	85
32	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, 916-21	4	40

31	Hoop stress-assisted three-dimensional particle focusing under viscoelastic flow. <i>Rheologica Acta</i> , 2014 , 53, 927-933	2.3	38
30	Nanopatterning: Scalable Nanopillar Arrays with Layer-by-Layer Patterned Overt and Covert Images (Adv. Mater. 35/2014). <i>Advanced Materials</i> , 2014 , 26, 6200-6200	24	
29	Conformal phase masks made of polyurethane acrylate with optimized elastic modulus for 3D nanopatterning. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 2316	7.1	33
28	Umbilical-cord-blood-derived mesenchymal stem cells seeded onto fibronectin-immobilized polycaprolactone nanofiber improve cardiac function. <i>Acta Biomaterialia</i> , 2014 , 10, 3007-17	10.8	61
27	BMP-2 peptide-functionalized nanopatterned substrates for enhanced osteogenic differentiation of human mesenchymal stem cells. <i>Biomaterials</i> , 2013 , 34, 7236-46	15.6	97
26	Initiated chemical vapor deposition of thermoresponsive poly(N-vinylcaprolactam) thin films for cell sheet engineering. <i>Acta Biomaterialia</i> , 2013 , 9, 7691-8	10.8	47
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4	Organic Device Fabrication and Integration with CVD Polymers365-389		1
3	A Multiple-State Ion Synaptic Transistor Applicable to Abnormal Car Detection with Transfer Learning. <i>Advanced Intelligent Systems</i> ,2100231	6	
2	Synthesis of a Stretchable Polyampholyte Hydrophilic Film with Compositional Gradient for Long-Term Stable, Substrate-Independent Fouling-Resistant Coating. <i>Advanced Functional Materials</i> ,2113253	15.6	0
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