

# Molecular Self-Assembled Monolayers and Multilayer Inorganic Thin-Film Transistor Applications

Advanced Materials

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Low-voltage high-performance organic thin film transistors with a thermally annealed polystyrene/hafnium oxide dielectric. <i>Applied Physics Letters</i> , 2009, 95, .	1.5	26
2	Langmuir-Blgett monolayer transistors of copper phthalocyanine. <i>Applied Physics Letters</i> , 2009, 95, .	1.5	24
3	Low-voltage organic transistors and inverters with ultrathin fluoropolymer gate dielectric. <i>Applied Physics Letters</i> , 2009, 95, .	1.5	73
4	Solution processed low-voltage organic transistors and complementary inverters. <i>Applied Physics Letters</i> , 2009, 95, .	1.5	30
5	Charge Conduction and Breakdown Mechanisms in Self-Assembled Nanodielectrics. <i>Journal of the American Chemical Society</i> , 2009, 131, 7158-7168.	6.6	61
6	Positive Constructs: Charges Localized on Surface-Confined Organometallic Oligomers. <i>Chemistry of Materials</i> , 2009, 21, 4676-4684.	3.2	25
7	Nanoscale optoelectronic switches and logic devices. <i>Nanoscale</i> , 2009, 1, 299.	2.8	74
8	High-Performance Single-Crystalline Arsenic-Doped Indium Oxide Nanowires for Transparent Thin-Film Transistors and Active Matrix Organic Light-Emitting Diode Displays. <i>ACS Nano</i> , 2009, 3, 3383-3390.	7.3	88
9	Tuning the Effective Work Function of Gold and Silver Using $\gamma$ -Functionalized Alkanethiols: Varying Surface Composition through Dilution and Choice of Terminal Groups. <i>Journal of Physical Chemistry C</i> , 2009, 113, 20328-20334.	1.5	117
10	Solution processed low-voltage organic transistors based on self-assembled monolayer gate dielectrics. <i>Proceedings of SPIE</i> , 2009, , .	0.8	0
11	Self-assembled nanodielectrics and silicon nanomembranes for low voltage, flexible transistors, and logic gates on plastic substrates. <i>Applied Physics Letters</i> , 2009, 95, .	1.5	32
12	Ordered Semiconducting Self-Assembled Monolayers on Polymeric Surfaces Utilized in Organic Integrated Circuits. <i>Nano Letters</i> , 2010, 10, 1998-2002.	4.5	37
13	Polarizability, Susceptibility, and Dielectric Constant of Nanometer-Scale Molecular Films: A Microscopic View. <i>Advanced Functional Materials</i> , 2010, 20, 2077-2084.	7.8	53
14	Interface Engineering for Organic Electronics. <i>Advanced Functional Materials</i> , 2010, 20, 1371-1388.	7.8	859
15	Molecules on Si: Electronics with Chemistry. <i>Advanced Materials</i> , 2010, 22, 140-159.	11.1	207
16	Pentacene Transistors Fabricated on Photocurable Polymer Gate Dielectrics: Tuning Surface Viscoelasticity and Device Response. <i>Advanced Materials</i> , 2010, 22, 342-346.	11.1	31
17	High-Performance Flexible Transparent Thin-Film Transistors Using a Hybrid Gate Dielectric and an Amorphous Zinc Indium Tin Oxide Channel. <i>Advanced Materials</i> , 2010, 22, 2333-2337.	11.1	101
18	Photoactive Gate Dielectrics. <i>Advanced Materials</i> , 2010, 22, 3282-3287.	11.1	71

#	ARTICLE	IF	CITATIONS
19	Designed Organophosphonate Self-Assembled Monolayers Enhance Device Performance of Pentacene-Based Organic Thin-Film Transistors. <i>Advanced Materials</i> , 2010, 22, 3081-3085.	11.1	53
22	Designing Surface-Confined Coordination Oligomers. <i>Chemistry - A European Journal</i> , 2010, 16, 6744-6747.	1.7	13
24	High-Performance Langmuir-Blodgett Monolayer Transistors with High Responsivity. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 6319-6323.	7.2	80
25	Fine patterning of glycerol-doped PEDOT:PSS on hydrophobic PVP dielectric with ink jet for source and drain electrode of OTFTs. <i>Organic Electronics</i> , 2010, 11, 854-859.	1.4	83
26	Reaction of tert-butyl isocyanate and tert-butyl isothiocyanate at the Ge(100) $\sqrt{2} \times \sqrt{1}$ Surface. <i>Surface Science</i> , 2010, 604, 1791-1799.	0.8	11
27	Electrochemistry of redox-active self-assembled monolayers. <i>Coordination Chemistry Reviews</i> , 2010, 254, 1769-1802.	9.5	489
28	Organic light-emitting transistors with an efficiency that outperforms the equivalent light-emitting diodes. <i>Nature Materials</i> , 2010, 9, 496-503.	13.3	535
29	Azine- and Azole-Functionalized Oligo $\pi$ and Polythiophene Semiconductors for Organic Thin-Film Transistors. <i>Materials</i> , 2010, 3, 1533-1558.	1.3	34
30	Low Voltage Operating InGaZnO <sub>4</sub> Thin Film Transistors with Sputter-Deposited PMMA/High-k BST Stacked Gate Dielectric Layers. <i>Electrochemical and Solid-State Letters</i> , 2010, 13, H370.	2.2	4
31	Materials for organic and hybrid inorganic/organic electronics. <i>MRS Bulletin</i> , 2010, 35, 1018-1027.	1.7	54
32	Effect of Defects Buried in Pentacene/Alkanethiol Self-Assembled Monolayer/Au Film on Its Electronic Properties Visualized by Scanning Tunneling Microscopy/Spectroscopy. <i>Japanese Journal of Applied Physics</i> , 2010, 49, 08LB08.	0.8	3
33	Electrical switching behavior from ultrathin potential barrier of self-assembly molecules tuned by interfacial charge trapping. <i>Applied Physics Letters</i> , 2010, 96, .	1.5	15
34	High- $\kappa$ Organic, Inorganic, and Hybrid Dielectrics for Low-Voltage Organic Field-Effect Transistors. <i>Chemical Reviews</i> , 2010, 110, 205-239.	23.0	801
35	Mono-, bis- and tetrahydroxy phthalocyanines as building blocks for monomolecular layer assemblies. <i>Journal of Porphyrins and Phthalocyanines</i> , 2010, 14, 397-411.	0.4	4
36	Surface engineering for high performance organic electronic devices: the chemical approach. <i>Journal of Materials Chemistry</i> , 2010, 20, 2513.	6.7	133
37	High-Performance Solution-Processed Amorphous Zinc-Indium-Tin Oxide Thin-Film Transistors. <i>Journal of the American Chemical Society</i> , 2010, 132, 10352-10364.	6.6	235
38	All-Amorphous-Oxide Transparent, Flexible Thin-Film Transistors. Efficacy of Bilayer Gate Dielectrics. <i>Journal of the American Chemical Society</i> , 2010, 132, 11934-11942.	6.6	98
39	Modification of Electronic Properties of Graphene with Self-Assembled Monolayers. <i>Nano Letters</i> , 2010, 10, 2427-2432.	4.5	106

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40	Linear vs Exponential Formation of Molecular-Based Assemblies. <i>Journal of the American Chemical Society</i> , 2010, 132, 9295-9297.	6.6	57
41	Deposition of Ultrathin Polythiourea Films by Molecular Layer Deposition. <i>Chemistry of Materials</i> , 2010, 22, 5563-5569.	3.2	71
42	Weibull Analysis of Dielectric Breakdown in a Self-Assembled Nanodielectric for Organic Transistors. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 3292-3297.	2.1	38
43	Self-Assembled Supramolecular Array of Polymeric Phthalocyanine on Gold for the Determination of Hydrogen Peroxide. <i>Langmuir</i> , 2010, 26, 17665-17673.	1.6	41
44	Modification of the Adhesive Properties of XeF <sub>2</sub> -Etched Aluminum Surfaces by Deposition of Organic Self-Assembled Monolayers. <i>Journal of Physical Chemistry C</i> , 2010, 114, 22566-22572.	1.5	10
45	Formation of Organic Nanoscale Laminates and Blends by Molecular Layer Deposition. <i>ACS Nano</i> , 2010, 4, 331-341.	7.3	105
46	A Monolayer-Based Setup for Optical Amplification. <i>ACS Applied Materials &amp; Interfaces</i> , 2010, 2, 7-10.	4.0	15
47	Organic Thin-Film Transistors: The Passivation of the Dielectric-Pentacene Interface by Dipolar Self-Assembled Monolayers. <i>Langmuir</i> , 2010, 26, 15044-15049.	1.6	31
48	Dielectric Surface-Controlled Low-Voltage Organic Transistors via <i>n</i> -Alkyl Phosphonic Acid Self-Assembled Monolayers on High- $\kappa$ Metal Oxide. <i>ACS Applied Materials &amp; Interfaces</i> , 2010, 2, 511-520.	4.0	103
49	Experimental Evidence of Molecular Cooperative Effect in a Mixed Parallel and Antiparallel Dipole Monolayer. <i>Journal of Physical Chemistry C</i> , 2010, 114, 20531-20538.	1.5	14
50	Electroactive materials for organic electronics: preparation strategies, structural aspects and characterization techniques. <i>Chemical Society Reviews</i> , 2010, 39, 2577.	18.7	419
51	Newly synthesized fused heterocyclic compounds in thin films with semiconductor properties. <i>Synthetic Metals</i> , 2010, 160, 1273-1279.	2.1	5
52	From Oxide Surface to Organic Transistor Properties: The Nature and the Role of Oxide Gate Surface Defects. <i>Journal of Physical Chemistry C</i> , 2010, 114, 7153-7160.	1.5	9
53	Stepwise Assembly of Coordination-Based Metal-Organic Networks. <i>Journal of the American Chemical Society</i> , 2010, 132, 14554-14561.	6.6	57
54	Engineering of the dielectric-semiconductor interface in organic field-effect transistors. <i>Journal of Materials Chemistry</i> , 2010, 20, 2599.	6.7	153
55	Flexible Low-Voltage Organic Thin-Film Transistors Enabled by Low-Temperature, Ambient Solution-Processable Inorganic/Organic Hybrid Gate Dielectrics. <i>Journal of the American Chemical Society</i> , 2010, 132, 17426-17434.	6.6	112
56	Folded H-Stacking Polymers by Conformational Control with 2-Substituted Trimethylene Tethers. <i>Macromolecules</i> , 2010, 43, 6562-6569.	2.2	20
57	Mirror-Image Photoswitching in a Single Organic Thin-Film Transistor. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 1269-1276.	2.1	17

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58	Control of mesoscale and nanoscale ordering of organic semiconductors at the gate dielectric/semiconductor interface for organic transistors. <i>Journal of Materials Chemistry</i> , 2010, 20, 2549.	6.7	97
59	Self-assembled monolayers of perfluoroterphenyl-substituted alkanethiols: specific characteristics and odd-even effects. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 12123.	1.3	63
60	Quantitative photon-probe evaluation of trap-containing channel/dielectric interface in organic field effect transistors. <i>Journal of Materials Chemistry</i> , 2010, 20, 2659.	6.7	12
61	Low-voltage pentacene transistor inverters using micro-contact printed nano-layer. <i>Journal of Materials Chemistry</i> , 2010, 20, 663-665.	6.7	4
62	Synthesis and Characterization of Single-Layer Silver-Decanethiolate Lamellar Crystals. <i>Journal of the American Chemical Society</i> , 2011, 133, 4367-4376.	6.6	52
63	Modulating the self-assembly of rigid dendrimers at the solid-liquid interface by tuning non-covalent interactions between side groups. <i>Chemical Communications</i> , 2011, 47, 10578.	2.2	26
64	Preparation and band gap shift of nano-structured metal oxides and their activity in disinfection of water using laser induced photo-catalysis. , 2011, , .		0
65	Enhanced Thin-Film Transistor Performance by Combining 13,6-N-Sulfinylacetamidopentacene with Printed PEDOT:PSS Electrodes. <i>Chemistry of Materials</i> , 2011, 23, 1061-1069.	3.2	20
66	Making inert polypropylene fibers chemically responsive by combining atomic layer deposition and vapor phase chemical grafting. <i>Nanotechnology</i> , 2011, 22, 155601.	1.3	18
67	Interface Engineering of Semiconductor/Dielectric Heterojunctions toward Functional Organic Thin-Film Transistors. <i>Nano Letters</i> , 2011, 11, 4939-4946.	4.5	135
68	Effect of Self-Assembled Monolayers on Charge Injection and Transport in Poly(3-hexylthiophene)-Based Field-Effect Transistors at Different Channel Length Scales. <i>ACS Applied Materials &amp; Interfaces</i> , 2011, 3, 2973-2978.	4.0	31
69	One-Step Selective Chemistry for Silicon-on-Insulator Sensor Geometries. <i>Langmuir</i> , 2011, 27, 7337-7340.	1.6	24
70	Photoinduced work function changes by isomerization of a densely packed azobenzene-based SAM on Au: a joint experimental and theoretical study. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 14302.	1.3	61
71	Control and stability of self-assembled monolayers under biosensing conditions. <i>Journal of Materials Chemistry</i> , 2011, 21, 4384.	6.7	55
72	Linear Heterocyclic Aromatic Fluorescence Compounds Having Various Donor-Acceptor Spacers Prepared by the Combination of Carbon-Carbon Bond and Carbon-Nitrogen Bond Cross-Coupling Reactions. <i>Journal of Organic Chemistry</i> , 2011, 76, 4444-4456.	1.7	36
74	Molecular Monolayers as Semiconducting Channels in Field Effect Transistors. <i>Topics in Current Chemistry</i> , 2011, 312, 213-237.	4.0	9
75	π-Conjugated Polymers for Organic Electronics and Photovoltaic Cell Applications. <i>Chemistry of Materials</i> , 2011, 23, 733-758.	3.2	2,071
77	Work-Function Engineering of Graphene Electrodes by Self-Assembled Monolayers for High-Performance Organic Field-Effect Transistors. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 841-845.	2.1	237

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78	Nano-electronics and spintronics with nanoparticles. Journal of Physics: Conference Series, 2011, 292, 012002.	0.3	44
79	Interface Engineering in High-Performance Low-Voltage Organic Thin-Film Transistors Based on 2,7-Dialkyl-[1]benzothieno[3,2- <i>b</i> ][1]benzothiophenes. Langmuir, 2011, 27, 15340-15344.	1.6	24
80	Tuning the Molecular Order of C <sub>60</sub> Functionalized Phosphonic Acid Monolayers. Langmuir, 2011, 27, 15016-15023.	1.6	55
82	Structural templating of chloro-aluminum phthalocyanine layers for planar and bulk heterojunction organic solar cells. Organic Electronics, 2011, 12, 2131-2139.	1.4	36
83	Study of electronic transport properties of some new N-( <i>p</i> -R-phenacyl)-1,7-phenanthroline bromides in thin films. Materials Chemistry and Physics, 2011, 127, 471-478.	2.0	10
84	Fully Deformable Organic Thin-Film Transistors With Moderate Operation Voltage. IEEE Transactions on Electron Devices, 2011, 58, 3416-3421.	1.6	36
85	Role of Molecular Order and Solid-State Structure in Organic Field-Effect Transistors. Chemical Reviews, 2011, 111, 4833-4856.	23.0	499
86	Thieno[3,4- <i>c</i> ]pyrrole-4,6-dione-Based Polymer Semiconductors: Toward High-Performance, Air-Stable Organic Thin-Film Transistors. Journal of the American Chemical Society, 2011, 133, 13685-13697.	6.6	232
87	Simultaneous Modification of Bottom Contact Electrode and Dielectric Surfaces for Organic Thin-Film Transistors Through Single-Component Spin-Cast Monolayers. Advanced Functional Materials, 2011, 21, 1476-1488.	7.8	76
88	Digital-Inverter Amine Sensing via Synergistic Responses by n and p Organic Semiconductors. Advanced Functional Materials, 2011, 21, 4314-4319.	7.8	34
89	Reinforced Self-Assembled Nanodielectrics for High-Performance Transparent Thin Film Transistors. Advanced Materials, 2011, 23, 992-997.	11.1	17
90	Spin-Cast and Patterned Organophosphonate Self-Assembled Monolayer Dielectrics on Metal-Oxide-Activated Si. Advanced Materials, 2011, 23, 1899-1902.	11.1	70
91	The Potential of Molecular Self-Assembled Monolayers in Organic Electronic Devices. Advanced Materials, 2011, 23, 2689-2695.	11.1	179
92	Morphology Optimization for the Fabrication of High Mobility Thin-Film Transistors. Advanced Materials, 2011, 23, 3128-3133.	11.1	55
93	Terpyridine-Functionalized Surfaces: Redox-Active, Switchable, and Electroactive Nanoarchitectures. Advanced Materials, 2011, 23, 3484-3498.	11.1	90
94	Control of Graphene Field-Effect Transistors by Interfacial Hydrophobic Self-Assembled Monolayers. Advanced Materials, 2011, 23, 3460-3464.	11.1	138
95	Anodized Aluminum Oxide Thin Films for Room-Temperature-Processed, Flexible, Low-Voltage Organic Non-Volatile Memory Elements with Excellent Charge Retention. Advanced Materials, 2011, 23, 4892-4896.	11.1	102
96	Displacement current measurement of a pentacene metal-insulator-semiconductor device to investigate both quasi-static and dynamic carrier behavior using a combined waveform. Organic Electronics, 2011, 12, 1560-1565.	1.4	37

#	ARTICLE	IF	CITATIONS
97	Threshold voltage shifting for memory and tuning in printed transistor circuits. <i>Materials Science and Engineering Reports</i> , 2011, 72, 49-80.	14.8	40
98	Probing the electrostatics of self-assembled monolayers by means of beveled metal-oxide-semiconductor structures. <i>Applied Physics Letters</i> , 2011, 99, 233508.	1.5	8
99	Nano scale Titania thin film morphology and optical study on patterns of self-assembled monolayers. , 2011, , .		0
100	Chemical Sensing with Semiconducting Metal Phthalocyanines. <i>Structure and Bonding</i> , 2011, , 91-117.	1.0	9
101	High mobility top-gate and dual-gate polymer thin-film transistors based on diketopyrrolopyrrole-naphthalene copolymer. <i>Applied Physics Letters</i> , 2011, 98, 253305.	1.5	45
102	Capacitance-Voltage Measurement of an Ambipolar Pentacene Field Effect Transistor in Operation by Using Displacement Current Measurement. <i>Materials Research Society Symposia Proceedings</i> , 2011, 1287, 1.	0.1	2
103	The sensitivity of stiction performance to surface chemistry under various humidity regimes. , 2011, , .		0
104	Influence of self-assembled monolayer dielectrics on the morphology and performance of $\pm 1\%$ -dihexylquaterthiophene in thin film transistors. <i>Applied Physics Letters</i> , 2011, 98, .	1.5	36
105	Charge trapping at organic/self-assembly molecule interfaces studied by electrical switching behaviour in a crosspoint structure. <i>Journal Physics D: Applied Physics</i> , 2012, 45, 025304.	1.3	1
106	Mixed self-assembled monolayers of azobenzene photoswitches with trifluoromethyl and cyano end groups. <i>Journal of Physics Condensed Matter</i> , 2012, 24, 394015.	0.7	14
107	Catalytic C-Cl Se Bond Formation under Very Mild Conditions for the Two-Step, One-Pot Synthesis of Aryl Selenoacetates. <i>Advanced Synthesis and Catalysis</i> , 2012, 354, 2653-2658.	2.1	11
108	Low-voltage graphene transistors based on self-assembled monolayer nanodielectrics. <i>Materials Research Society Symposia Proceedings</i> , 2012, 1451, 179-184.	0.1	0
109	Self-Assembled Monolayer Exchange Reactions as a Tool for Channel Interface Engineering in Low-Voltage Organic Thin-Film Transistors. <i>Langmuir</i> , 2012, 28, 13900-13904.	1.6	33
110	Top-emission AMOLED display driven by organic TFTs with semiconductor layer patterned by inkjet process. <i>Journal of the Society for Information Display</i> , 2012, 20, 575-580.	0.8	4
111	Charge-Carrier Velocity Distributions in High-Mobility Polymer Dual-Gate Thin-Film Transistors. <i>IEEE Electron Device Letters</i> , 2012, 33, 899-901.	2.2	8
112	Solution processed high performance pentacene thin-film transistors. <i>Chemical Communications</i> , 2012, 48, 6148.	2.2	24
113	Quasi-ordering in spontaneously associated surface dipoles: an intrinsic interfacial factor for high-k-polymer insulated organic field-effect transistors. <i>Journal of Materials Chemistry</i> , 2012, 22, 1482-1488.	6.7	20
114	Mono/bidentate thiol oligoarylene-based self-assembled monolayers (SAMs) for interface engineering. <i>Journal of Materials Chemistry</i> , 2012, 22, 12155.	6.7	19

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115	Crystalline nanostructure and morphology of TriF-IF-dione for high-performance stable n-type field-effect transistors. <i>Journal of Materials Chemistry</i> , 2012, 22, 14617.	6.7	6
116	Self-Assembled Monolayers Made of 6-(5-((6-((5-hexylthiophen-2-yl)ethynyl)-9,10-bis(phenylethynyl)anthracen-2-yl)ethynyl)thiophen-2-yl)hexyl 3-(Triethoxysilyl)Propylcarbamate for Ultrathin Film Transistors. <i>Langmuir</i> , 2012, 28, 10948-10955.	1.6	7
117	Anisotropic Charge Transport in Bisindenoanthrazoline-Based n-Type Organic Semiconductors. <i>Journal of Physical Chemistry C</i> , 2012, 116, 13858-13864.	1.5	48
118	Combining Electron-Neutral Building Blocks with Intramolecular $\pi$ -Conformational Locks Affords Stable, High-Mobility P- and N-Channel Polymer Semiconductors. <i>Journal of the American Chemical Society</i> , 2012, 134, 10966-10973.	6.6	220
119	Quantitative Statistical Analysis of Dielectric Breakdown in Zirconia-Based Self-Assembled Nanodielectrics. <i>ACS Nano</i> , 2012, 6, 4452-4460.	7.3	9
120	Comparative Interface Metrics for Metal-Free Monolayer-Based Dye-Sensitized Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2012, 4, 6735-6746.	4.0	16
121	Reversible pH-Responsive Fluorescence of Water-Soluble Polyfluorenes and Their Application in Metal Ion Detection. <i>ACS Applied Materials &amp; Interfaces</i> , 2012, 4, 4927-4933.	4.0	21
122	Laser printing of air-stable high performing organic thin film transistors. <i>Organic Electronics</i> , 2012, 13, 2035-2041.	1.4	28
123	Quantitative Determination of Organic Semiconductor Microstructure from the Molecular to Device Scale. <i>Chemical Reviews</i> , 2012, 112, 5488-5519.	23.0	1,133
124	Self-Assembled Monolayer-Functionalized Half-Metallic Manganite for Molecular Spintronics. <i>ACS Nano</i> , 2012, 6, 8753-8757.	7.3	32
125	Self-Assembled Monolayer Induced Au(111) and Ag(111) Reconstructions: Work Functions and Interface Dipole Formation. <i>Journal of Physical Chemistry C</i> , 2012, 116, 7826-7837.	1.5	64
126	Multifunctional phosphonic acid self-assembled monolayers on metal oxides as dielectrics, interface modification layers and semiconductors for low-voltage high-performance organic field-effect transistors. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 14110.	1.3	137
127	MOKE study of hybrid magnetic thin films: Permalloy on molecular self-assembled monolayer. <i>Applied Surface Science</i> , 2012, 258, 5195-5199.	3.1	3
128	Surface Functionalization in the Nanoscale Domain. , 2012, , 163-190.		9
129	Molecular Architecture: Construction of Self-Assembled Organophosphonate Duplexes and Their Electrochemical Characterization. <i>Langmuir</i> , 2012, 28, 7889-7896.	1.6	26
130	Solid-state densification of spun-cast self-assembled monolayers for use in ultra-thin hybrid dielectrics. <i>Applied Surface Science</i> , 2012, 261, 908-915.	3.1	14
131	Dimensionality effects in the electronic structure of organic semiconductors consisting of polar repeat units. <i>Organic Electronics</i> , 2012, 13, 3165-3176.	1.4	19
132	Aluminium oxide prepared by UV/ozone exposure for low-voltage organic thin-film transistors. <i>Journal of Non-Crystalline Solids</i> , 2012, 358, 2512-2515.	1.5	14



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133	A protein transistor made of an antibody molecule and two gold nanoparticles. <i>Nature Nanotechnology</i> , 2012, 7, 197-203.	15.6	94
135	Fundamental Performance Limits of Carbon Nanotube Thin-Film Transistors Achieved Using Hybrid Molecular Dielectrics. <i>ACS Nano</i> , 2012, 6, 7480-7488.	7.3	142
137	Nanofabrication. , 2012, , .		31
138	Triphenylene Silanes for Direct Surface Anchoring in Binary Mixed Self-Assembled Monolayers. <i>Langmuir</i> , 2012, 28, 8399-8407.	1.6	20
139	Electrodeposition of Long-Chain Alkylaryl Layers on Au Surfaces. <i>Journal of Physical Chemistry C</i> , 2012, 116, 17048-17054.	1.5	12
140	Towards industrial applications of graphene electrodes. <i>Physica Scripta</i> , 2012, T146, 014024.	1.2	131
141	Consideration of Thiol and Carboxylic Acid Chemisorption on Various Electrode Materials by Thermodynamic Calculation. <i>Journal of the Vacuum Society of Japan</i> , 2012, 55, 108-111.	0.3	3
144	Mechanism of surface proton transfer doping in pentacene based organic thin-film transistors. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2012, 209, 181-192.	0.8	14
145	In-Situ Probe of Gate Dielectric-Semiconductor Interfacial Order in Organic Transistors: Origin and Control of Large Performance Sensitivities. <i>Journal of the American Chemical Society</i> , 2012, 134, 11726-11733.	6.6	86
146	The photonic perspective of organic light-emitting transistors. <i>Laser and Photonics Reviews</i> , 2012, 6, 258-275.	4.4	77
147	Influence of Thiol Self-Assembled Monolayer Processing on Bottom-Contact Thin-Film Transistors Based on n-Type Organic Semiconductors. <i>Advanced Functional Materials</i> , 2012, 22, 1856-1869.	7.8	84
148	Probe-Based Electro-Oxidative Lithography of OTS SAMs Deposited onto Transparent ITO Substrates. <i>Advanced Functional Materials</i> , 2012, 22, 4376-4382.	7.8	20
149	Multiscale Charge Injection and Transport Properties in Self-Assembled Monolayers of Biphenyl Thiols with Varying Torsion Angles. <i>Chemistry - A European Journal</i> , 2012, 18, 10335-10347.	1.7	30
150	Some Evidence for the Formation of an Azo Bond during the Electroreduction of Diazonium Salts on Au Substrates. <i>ChemPhysChem</i> , 2012, 13, 2119-2127.	1.0	24
151	Advances in top-down and bottom-up surface nanofabrication: Techniques, applications & future prospects. <i>Advances in Colloid and Interface Science</i> , 2012, 170, 2-27.	7.0	659
152	Synthesis of porphyrinoids with silane anchors and their covalent self-assembling and metallation on solid surface. <i>Journal of Colloid and Interface Science</i> , 2012, 369, 58-70.	5.0	6
153	Nickel coating on peptide nanotubes by electroless plating. <i>Thin Solid Films</i> , 2012, 520, 1837-1841.	0.8	6
154	Surface-initiated controlled polymerization as a convenient method for designing functional polymer brushes: From self-assembled monolayers to patterned surfaces. <i>Progress in Polymer Science</i> , 2012, 37, 157-181.	11.8	224

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155	Rational Design of Ambipolar Organic Semiconductors: Is Core Planarity Central to Ambipolarity in Thiophene- and Naphthalene Semiconductors?. <i>Chemistry - A European Journal</i> , 2012, 18, 532-543.	1.7	66
156	Electrochemical Performance of Self-Assembled Monolayer Gold Nanoparticle-Modified Ultramicroelectrode Array Architectures. <i>Electroanalysis</i> , 2012, 24, 635-642.	1.5	10
157	Design of Novel Dielectric Surface Modifications for Perylene Thin-Film Transistors. <i>Advanced Functional Materials</i> , 2012, 22, 415-420.	7.8	34
158	Single-Gate Bandgap Opening of Bilayer Graphene by Dual Molecular Doping. <i>Advanced Materials</i> , 2012, 24, 407-411.	11.1	228
159	Large Work Function Shift of Gold Induced by a Novel Perfluorinated Azobenzene-Based Self-Assembled Monolayer. <i>Advanced Materials</i> , 2013, 25, 432-436.	11.1	93
160	Functionalized oligothiophene-based heterocyclic aromatic fluorescent compounds with various donor-acceptor spacers and adjustable electronic properties: a theoretical and experimental perspective. <i>Tetrahedron</i> , 2013, 69, 7290-7299.	1.0	26
161	Molecular and Electronic Structure Basis of the Ambipolar Behavior of Naphthalimide-Terthiophene Derivatives: Implementation in Organic Field-Effect Transistors. <i>Chemistry - A European Journal</i> , 2013, 19, 12458-12467.	1.7	37
163	Carrier Control of MoS <sub>2</sub> Nanoflakes by Functional Self-Assembled Monolayers. <i>ACS Nano</i> , 2013, 7, 7795-7804.	7.3	208
164	Logic-Gate Devices Based on Printed Polymer Semiconducting Nanostripes. <i>Nano Letters</i> , 2013, 13, 3643-3647.	4.5	44
165	Improving the Efficiency of ZnO-Based Organic Solar Cell by Self-Assembled Monolayer Assisted Modulation on the Properties of ZnO Acceptor Layer. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 6946-6950.	4.0	22
166	A study on threshold voltage stability of low operating voltage organic thin-film transistors. <i>Journal Physics D: Applied Physics</i> , 2013, 46, 325104.	1.3	24
167	Gate field induced ordered electric dipoles in a polymer dielectric for low-voltage operating organic thin-film transistors. <i>RSC Advances</i> , 2013, 3, 20267.	1.7	11
168	The impact of fluorination on the structure and properties of self-assembled monolayer films. <i>Soft Matter</i> , 2013, 9, 6356.	1.2	58
169	Multiparametric Characterization of Nonelectroactive Self-Assembled Monolayers During Their Formation. <i>Langmuir</i> , 2013, 29, 9909-9917.	1.6	3
170	High performance n-channel thin-film field-effect transistors based on angular-shaped naphthalene tetracarboxylic diimides. <i>Organic Electronics</i> , 2013, 14, 2859-2865.	1.4	9
171	Dynamics of porphyrin adsorption on highly oriented pyrolytic graphite monitored by scanning tunnelling microscopy at the liquid/solid interface. <i>Applied Surface Science</i> , 2013, 273, 220-225.	3.1	10
172	25th Anniversary Article: Key Points for High-Mobility Organic Field-Effect Transistors. <i>Advanced Materials</i> , 2013, 25, 6158-6183.	11.1	710
173	Recent progress in organic molecule/graphene interfaces. <i>Nano Today</i> , 2013, 8, 388-402.	6.2	77

#	ARTICLE	IF	CITATIONS
174	Photovoltaic Effect in Self-Assembled Molecular Monolayers on Gold: Influence of Orbital Energy Level Alignment on Short-Circuit Current Generation. <i>Journal of Physical Chemistry C</i> , 2013, 117, 16820-16829.	1.5	9
175	Photo-Excited Charge Collection Spectroscopy. <i>SpringerBriefs in Physics</i> , 2013, , .	0.2	4
176	Self-assembly of semiconductor/insulator interfaces in one-step spin-coating: a versatile approach for organic field-effect transistors. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 7917.	1.3	59
177	Functionalization of SnO <sub>2</sub> Crystals with a Covalently Assembled Porphyrin Monolayer. <i>ChemSusChem</i> , 2013, 6, 1031-1036.	3.6	8
178	Conductance Enhancement of InAs/InP Heterostructure Nanowires by Surface Functionalization with Oligo(phenylene vinylene)s. <i>ACS Nano</i> , 2013, 7, 4111-4118.	7.3	16
179	Investigations of tellurium-modified self-assembled monolayers of benzenedithiol on gold surface as molecular gate. <i>Journal of Solid State Electrochemistry</i> , 2013, 17, 1487-1490.	1.2	0
180	Solution-Processed Dual-Gate Polymer Field-Effect Transistors for Display Applications. <i>Journal of Display Technology</i> , 2013, 9, 710-714.	1.3	8
181	Water adsorption effects of nitrate ion coordinated Al <sub>2</sub> O <sub>3</sub> dielectric for high performance metal-oxide thin-film transistor. <i>Journal of Materials Chemistry C</i> , 2013, 1, 7166.	2.7	66
182	Effects of self-assembled monolayer structural order, surface homogeneity and surface energy on pentacene morphology and thin film transistor device performance. <i>Journal of Materials Chemistry C</i> , 2013, 1, 101-113.	2.7	68
183	A UV-ozone treated amorphous barium strontium titanate dielectric thin film for low driving voltage flexible organic transistors. <i>Journal of Materials Chemistry C</i> , 2013, 1, 3825.	2.7	18
184	A soluble precursor of hexacene and its application in thin film transistors. <i>Chemical Communications</i> , 2013, 49, 2240.	2.2	19
185	Conjugated Thiophene-Containing Polymer Zwitterions: Direct Synthesis and Thin Film Electronic Properties. <i>Macromolecules</i> , 2013, 46, 344-351.	2.2	49
186	Effect of stacked dielectric with high dielectric constant and surface modification on current enhancement in pentacene thin-film transistors. <i>Current Applied Physics</i> , 2013, 13, 170-175.	1.1	4
187	Carbon nanomaterials for electronics, optoelectronics, photovoltaics, and sensing. <i>Chemical Society Reviews</i> , 2013, 42, 2824-2860.	18.7	1,105
188	Structural and electronic characterization of self-assembled molecular nanoarchitectures by X-ray photoelectron spectroscopy. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 1479-1495.	1.9	85
189	Atomic Force Microscopy Study of new Sensing Platforms: Cucurbit[ <i>n</i> ]uril ( <i>n</i> =6, 7) on Gold. <i>Electroanalysis</i> , 2013, 25, 263-268.	1.5	25
190	Examination of polymer/metal interface modified by self-assembled monolayer by Kelvin probe force microscopy and secondary ion mass spectrometry. <i>Electrochimica Acta</i> , 2013, 104, 462-467.	2.6	5
191	Hydrophilic self-assembly monolayers for pentacene-based thin-film transistors. <i>Organic Electronics</i> , 2013, 14, 1891-1897.	1.4	10

#	ARTICLE	IF	CITATIONS
192	Three-terminal capacitance–voltage measurements of pentacene field-effect transistors during operation. <i>Organic Electronics</i> , 2013, 14, 2491-2496.	1.4	8
193	High-performance pentacene thin-film transistor with ZrLaO gate dielectric passivated by fluorine incorporation. <i>Organic Electronics</i> , 2013, 14, 2973-2979.	1.4	13
194	Thickness dependent morphology of Au and TiO <sub>2</sub> and optical study of TiO <sub>2</sub> thin films on patterns of self-assembled monolayers. <i>Surface and Coatings Technology</i> , 2013, 231, 412-417.	2.2	10
195	Fused Thiophene Semiconductors: Crystal Structure–Film Microstructure Transistor Performance Correlations. <i>Advanced Functional Materials</i> , 2013, 23, 3850-3865.	7.8	34
196	Synergic effect within n-type inorganic–p-type organic nano-hybrids in gas sensors. <i>Journal of Materials Chemistry C</i> , 2013, 1, 3017.	2.7	70
197	Structural characterization of a series of aryl selenoacetates. <i>Journal of Molecular Structure</i> , 2013, 1039, 61-70.	1.8	10
198	High-Speed, Low-Voltage, and Environmentally Stable Operation of Electrochemically Gated Zinc Oxide Nanowire Field-Effect Transistors. <i>Advanced Functional Materials</i> , 2013, 23, 1750-1758.	7.8	86
199	Unique Role of Self-Assembled Monolayers in Carbon Nanomaterial-Based Field-Effect Transistors. <i>Small</i> , 2013, 9, 1144-1159.	5.2	40
200	Concentration-Dependent Supramolecular Engineering of Hydrogen-Bonded Nanostructures at Surfaces: Predicting Self-Assembly in 2D. <i>Journal of the American Chemical Society</i> , 2013, 135, 6942-6950.	6.6	153
203	First-Principles Calculation of Dielectric Response in Molecule-Based Materials. <i>Journal of the American Chemical Society</i> , 2013, 135, 9753-9759.	6.6	21
204	Low-Voltage Self-Assembled Monolayer Field-Effect Transistors on Flexible Substrates. <i>Advanced Materials</i> , 2013, 25, 4511-4514.	11.1	78
205	In situ self-assembled photo-switchable liquid crystal alignment layer using azosilane monomer-liquid crystal mixture system. <i>Liquid Crystals</i> , 2013, 40, 1227-1237.	0.9	12
206	Addressable Carbene Anchors for Gold Surfaces. <i>Journal of the American Chemical Society</i> , 2013, 135, 7418-7421.	6.6	217
207	Templating and Charge Injection from Copper Electrodes into Solution-Processed Organic Field-Effect Transistors. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 3716-3721.	4.0	29
208	Tridentate Adsorbates with Cyclohexyl Headgroups Assembled on Gold. <i>Langmuir</i> , 2013, 29, 561-569.	1.6	27
209	Self-Assembly of Mono- And Bidentate Oligoarylene Thiols onto Polycrystalline Au. <i>Langmuir</i> , 2013, 29, 13198-13208.	1.6	19
210	Asymmetric Surface Potential Energy Distributions in Organic Electronic Materials via Kelvin Probe Force Microscopy. <i>Journal of Physical Chemistry C</i> , 2013, 117, 18367-18374.	1.5	6
211	Printed Indium Gallium Zinc Oxide Transistors. Self-Assembled Nanodielectric Effects on Low-Temperature Combustion Growth and Carrier Mobility. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 11884-11893.	4.0	69

#	ARTICLE	IF	CITATIONS
212	Electrical and Physical Characterization of Bilayer Carboxylic Acid-Functionalized Molecular Layers. <i>Langmuir</i> , 2013, 29, 2083-2091.	1.6	12
213	Enhancing crystallinity of C60 layer by thickness-control of underneath pentacene layer for high mobility C60/pentacene ambipolar transistors. <i>Applied Physics Letters</i> , 2013, 102, 043306.	1.5	35
214	Self-assembled monolayer as an interfacial modification material for highly efficient and air-stable inverted organic solar cells. <i>Applied Physics Letters</i> , 2013, 102, .	1.5	46
215	Study of Organic Thin Film Transistors on Ultraviolet-Curable Dielectrics with Periodic Patterns Fabricated by Nano Imprint Technology. <i>Japanese Journal of Applied Physics</i> , 2013, 52, 06GJ08.	0.8	2
216	Organic-Inorganic Hybrid Nano-Laminates Fabricated by Ozone-Assisted Molecular-Atomic Layer Deposition. <i>Chemical Vapor Deposition</i> , 2013, 19, 142-148.	1.4	13
217	Organophosphonates as model system for studying electronic transport through monolayers on SiO <sub>2</sub> /Si surfaces. <i>Applied Physics Letters</i> , 2013, 102, 241602.	1.5	19
218	Improving Electrical Properties of Bottom-Gate Poly(3-Hexylthiophene) Thin-Film Transistor Using $\text{CF}_4$ Plasma Treatment. <i>IEEE Electron Device Letters</i> , 2013, 34, 538-540.	2.2	2
219	Arsonic Acid Self-Assembled Monolayers Protect Oxide Surfaces from Micronewton Nanomechanical Forces. <i>Advanced Functional Materials</i> , 2013, 23, 2415-2421.	7.8	6
220	Organic field-effect transistors with a sandwich structure from inserting 2,2',2''-(1,3,5-benzenetriyl)tris[1-phenyl-1H-benzimidazole] in the pentacene active layer. <i>EPJ Applied Physics</i> , 2013, 62, 20101.	0.3	5
221	A Flexible AMOLED Display Driven by Organic TFTs with an Inkjetted Semiconductor Layer. <i>Kyokai Joho Imeji Zasshi/Journal of the Institute of Image Information and Television Engineers</i> , 2014, 68, J437-J441.	0.0	2
222	Effects of carbon chain on hole-transport properties in naphtho[2,1-b:6,5-b']difuran derivatives: Remarkable anisotropic mobilities. <i>Organic Electronics</i> , 2014, 15, 3341-3348.	1.4	6
223	Chemically Tunable Ultrathin Silsesquiazane Interlayer for n-Type and p-Type Organic Transistors on Flexible Plastic. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 22807-22814.	4.0	10
224	Maximizing the Dielectric Response of Molecular Thin Films <i>via</i> Quantum Chemical Design. <i>ACS Nano</i> , 2014, 8, 12587-12600.	7.3	23
225	Tuning the optical emission of MoS <sub>2</sub> nanosheets using proximal photoswitchable azobenzene molecules. <i>Applied Physics Letters</i> , 2014, 105, .	1.5	32
226	Going beyond the self-assembled monolayer: metal intercalated dithiol multilayers and their conductance. <i>RSC Advances</i> , 2014, 4, 39657-39666.	1.7	30
227	Investigation of charge injection characteristics in diketopyrrolopyrrole ambipolar semiconducting polymers. <i>Proceedings of SPIE</i> , 2014, , .	0.8	3
228	Structure and Electronic and Charge-Transfer Properties of Mercaptobenzoic Acid and Mercaptobenzoic Acid-Undecanethiol Mixed Monolayers on Au(111). <i>Journal of Physical Chemistry C</i> , 2014, 118, 30013-30022.	1.5	11
229	Functional Materials in Amperometric Sensing. <i>Monographs in Electrochemistry</i> , 2014, , .	0.2	15

#	ARTICLE	IF	CITATIONS
230	Fluorinated and hydrogenated self-assembled monolayers (SAMs) on anodes: Effects of SAM chemistry on device characteristics of polymer solar cells. <i>Organic Electronics</i> , 2014, 15, 3333-3340.	1.4	10
231	Percolation of Carbon Nanoparticles in Poly(3-Hexylthiophene) Enhancing Carrier Mobility in Organic Thin Film Transistors. <i>Advances in Materials Science and Engineering</i> , 2014, 2014, 1-10.	1.0	2
232	A simulation study on the thermal and wetting behavior of alkane thiol SAM on gold (111) surface. <i>Progress in Natural Science: Materials International</i> , 2014, 24, 405-411.	1.8	11
233	Unraveling the Influence of Lanthanide Ions on Intra- and Inter-Molecular Electronic Processes in $\text{Fe}_{10}\text{Ln}_{10}$ Nanotubes. <i>Advanced Functional Materials</i> , 2014, 24, 6280-6290.	7.8	44
234	Low-temperature annealed PbS quantum dot films for scalable and flexible ambipolar thin-film-transistors and circuits. <i>Journal of Materials Chemistry C</i> , 2014, 2, 10305-10311.	2.7	40
235	Formation of nanogaps in InAs nanowires by selectively etching embedded InP segments. <i>Nanotechnology</i> , 2014, 25, 465306.	1.3	10
236	Quantitative Femtosecond Charge Transfer Dynamics at Organic/Electrode Interfaces Studied by Core-Hole Clock Spectroscopy. <i>Advanced Materials</i> , 2014, 26, 7880-7888.	11.1	31
237	CHAPTER 4. Self-Assembled Mono- and Multilayers for Functional Opto-Electronic Devices. <i>RSC Smart Materials</i> , 2014, , 119-172.	0.1	0
238	Supersaturated Self-Assembled Charge-Selective Interfacial Layers for Organic Solar Cells. <i>Journal of the American Chemical Society</i> , 2014, 136, 17762-17773.	6.6	36
239	Wafer-scale solution-derived molecular gate dielectrics for low-voltage graphene electronics. <i>Applied Physics Letters</i> , 2014, 104, .	1.5	22
240	Probing Lateral Charge Transport in Single Molecule Layers: How Charge is Transported Over Long Distances in Fullerene Self-Assembled Monolayers. <i>Small</i> , 2014, 10, 454-461.	5.2	10
241	Tunable dielectric constant of polyimide-barium titanate nanocomposite materials as the gate dielectrics for organic thin film transistor applications. <i>RSC Advances</i> , 2014, 4, 62132-62139.	1.7	17
242	Computational investigation of hole mobilities in organic semiconductors: comparison of single crystal structures and surface adsorbed clusters. <i>Faraday Discussions</i> , 2014, 174, 281-296.	1.6	1
243	Robust SERS substrates with massive nanogaps derived from silver nanocubes self-assembled on massed silver mirror via 1,2-ethanedithiol monolayer as linkage and ultra-thin spacer. <i>Materials Chemistry and Physics</i> , 2014, 143, 1331-1337.	2.0	10
244	Work function modification of the (111) gold surface covered by long alkanethiol-based self-assembled monolayers. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 2866.	1.3	26
245	Flexible organic transistors on standard printing paper and memory properties induced by floated gate electrode. <i>Organic Electronics</i> , 2014, 15, 203-210.	1.4	47
246	Self-assembling and self-limiting monolayer deposition. <i>European Physical Journal D</i> , 2014, 68, 1.	0.6	16
247	Carbon-Mercaptooctadecane/Carboxylated Multi-walled Carbon Nanotubes Composite Based Genosensor for Detection of Bacterial Meningitis. <i>Indian Journal of Microbiology</i> , 2014, 54, 170-177.	1.5	12

#	ARTICLE	IF	CITATIONS
248	Overview of electroceramic materials for oxide semiconductor thin film transistors. <i>Journal of Electroceramics</i> , 2014, 32, 117-140.	0.8	117
249	Shot noise and thermopower in aromatic molecules. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2014, 62, 15-20.	1.3	12
250	High-performance, low-operating voltage, and solution-processable organic field-effect transistor with silk fibroin as the gate dielectric. <i>Applied Physics Letters</i> , 2014, 104, 023302.	1.5	34
251	Tetra-anionic porphyrin loading onto ZnO nanoneedles: A hybrid covalent/non covalent approach. <i>Materials Chemistry and Physics</i> , 2014, 143, 977-982.	2.0	6
252	A New Resist for Area Selective Atomic and Molecular Layer Deposition on Metal Dielectric Patterns. <i>Journal of Physical Chemistry C</i> , 2014, 118, 10957-10962.	1.5	97
253	Improved Morphology and Performance of Solution-Processed Metal Oxide Thin-Film Transistors Due to a Polymer Based Interface Modifier. <i>Advanced Materials Interfaces</i> , 2014, 1, 1400137.	1.9	12
254	Characterisation of Complex Electrode Processes using Simultaneous Impedance Spectroscopy and Electrochemical Nanogravimetric Measurements. <i>ChemPlusChem</i> , 2014, 79, 348-358.	1.3	3
255	Solution-processed high-performance flexible 9, 10-bis(phenylethynyl)anthracene organic single-crystal transistor and ring oscillator. <i>Applied Physics Letters</i> , 2014, 104, .	1.5	28
256	Work Function Changes of Azo-Derivatives Adsorbed on a Gold Surface. <i>Journal of Physical Chemistry C</i> , 2014, 118, 26033-26040.	1.5	9
257	Self-assembled organic semiconductors for monolayer field-effect transistors. <i>Polymer Science - Series C</i> , 2014, 56, 32-46.	0.8	15
258	Self-Assembled Monolayers of Cyclohexyl-Terminated Phosphonic Acids as a General Dielectric Surface for High-Performance Organic Thin-Film Transistors. <i>Advanced Materials</i> , 2014, 26, 7190-7196.	11.1	95
259	Influence of lithium fluoride thickness on electrical switching behavior in a cross-point structure using self-assembly molecules. <i>Japanese Journal of Applied Physics</i> , 2014, 53, 030304.	0.8	0
260	Controlled self-assembly and photovoltaic characteristics of porphyrin derivatives on a silicon surface at solid-liquid interfaces. <i>Soft Matter</i> , 2014, 10, 2612.	1.2	32
261	Flexible electrophoretic display driven by solution-processed organic TFT with highly stable bending feature. <i>Organic Electronics</i> , 2014, 15, 3538-3545.	1.4	30
262	Improving Area-Selective Molecular Layer Deposition by Selective SAM Removal. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 17831-17836.	4.0	53
263	Charge Transport through Carbon Nanomembranes. <i>Journal of Physical Chemistry C</i> , 2014, 118, 21687-21694.	1.5	17
264	Fullerene derivatives with increased dielectric constants. <i>Chemical Communications</i> , 2014, 50, 10645-10647.	2.2	84
265	Contactless charge carrier mobility measurement in organic field-effect transistors. <i>Organic Electronics</i> , 2014, 15, 2855-2861.	1.4	2

#	ARTICLE	IF	CITATIONS
266	Coordination Reactions and Layer Exchange Processes at a Buried Metal–Organic Interface. <i>Journal of Physical Chemistry C</i> , 2014, 118, 8501-8507.	1.5	19
267	Self-Association during Heterogeneous Nucleation onto Well-Defined Templates. <i>Langmuir</i> , 2014, 30, 12368-12375.	1.6	25
268	Self-Assembly of Conjugated Units Using Metal–Terpyridine Coordination. <i>Macromolecular Rapid Communications</i> , 2014, 35, 1727-1740.	2.0	33
269	Effect of Silane Coupling Agent Chemistry on Electrical Breakdown Across Hybrid Organic–Inorganic Insulating Films. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 11932-11939.	4.0	6
270	Morphology Change and Improved Efficiency in Organic Photovoltaics via Hexa-peri-hexabenzocoronene Templates. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 8824-8835.	4.0	17
271	The Side Chain Makes the Difference: Investigation of the 2D Self-Assembly of 1,3,5-Tris(4-(4-pyridinyl)phenyl)benzene Derivatives by Scanning Tunneling Microscopy. <i>European Journal of Organic Chemistry</i> , 2014, 2014, 4985-4992.	1.2	8
272	Organic Dipole Layers for Ultralow Work Function Electrodes. <i>ACS Nano</i> , 2014, 8, 9173-9180.	7.3	98
273	A highly conducting graphene film with dual-side molecular n-doping. <i>Nanoscale</i> , 2014, 6, 9545-9549.	2.8	27
274	Multiscale Modeling of the Electrostatic Impact of Self-Assembled Monolayers used as Gate Dielectric Treatment in Organic Thin-Film Transistors. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 15372-15378.	4.0	37
275	Self-assembled monolayers of thiolates on metals: a review article on sulfur-metal chemistry and surface structures. <i>RSC Advances</i> , 2014, 4, 27730-27754.	1.7	187
276	Interface Control in Organic Electronics Using Mixed Monolayers of Carboranethiol Isomers. <i>Nano Letters</i> , 2014, 14, 2946-2951.	4.5	90
277	A review of self-assembled monolayers as potential terahertz frequency tunnel diodes. <i>Nano Research</i> , 2014, 7, 589-625.	5.8	34
278	Morphological and chemical stability of silicon nanostructures and their molecular overlayers under physiological conditions: towards long-term implantable nanoelectronic biosensors. <i>Journal of Nanobiotechnology</i> , 2014, 12, 7.	4.2	33
279	Hybrid Gate Dielectric Materials for Unconventional Electronic Circuitry. <i>Accounts of Chemical Research</i> , 2014, 47, 1019-1028.	7.6	103
280	Interface Engineering To Control Magnetic Field Effects of Organic-Based Devices by Using a Molecular Self-Assembled Monolayer. <i>ACS Nano</i> , 2014, 8, 7192-7201.	7.3	19
281	Through Thick and Thin: Tuning the Threshold Voltage in Organic Field-Effect Transistors. <i>Accounts of Chemical Research</i> , 2014, 47, 1369-1377.	7.6	58
282	Structural, optical, and electrical characterization of the poly[9,9-dioctylfluorenyl-2,7-diyl]-co-1,4-benzo-(2,1,3)-thiadiazole thin film fabricated by electrostatic spray technique. <i>Polymer Engineering and Science</i> , 2014, 54, 675-681.	1.5	4
283	High performance pentacene organic field-effect transistors consisting of biocompatible PMMA/silk fibroin bilayer dielectric. <i>Chinese Physics B</i> , 2014, 23, 038505.	0.7	13



#	ARTICLE	IF	CITATIONS
284	High performance organic thin film transistors using chemically modified bottom contacts and dielectric surfaces. <i>Organic Electronics</i> , 2014, 15, 2073-2078.	1.4	14
285	Screening of self-assembled monolayer for aflatoxin B1 detection using immune-capacitive sensor. <i>Biotechnology Reports (Amsterdam, Netherlands)</i> , 2015, 8, 144-151.	2.1	13
286	Self-aligned, full solution process polymer field-effect transistor on flexible substrates. <i>Scientific Reports</i> , 2015, 5, 15770.	1.6	14
287	Enhanced Charge Injection Through Nanostructured Electrodes for Organic Field Effect Transistors. <i>Advanced Functional Materials</i> , 2015, 25, 3855-3859.	7.8	27
288	Enhanced Performance of Self-Assembled Monolayer Field-Effect Transistors with Top-Contact Geometry through Molecular Tailoring, Heated Assembly, and Thermal Annealing. <i>Advanced Functional Materials</i> , 2015, 25, 5376-5383.	7.8	10
289	High-yield metal transfer printing on alkyl bis-phosphonate monolayers. , 2015, , .		3
290	Self Assembled Monolayer Modified SU8 Surface for Electrowetting Application. <i>Macromolecular Symposia</i> , 2015, 357, 18-22.	0.4	7
291	A Self-Aligned High-Mobility Graphene Transistor: Decoupling the Channel with Fluorographene to Reduce Scattering. <i>Advanced Materials</i> , 2015, 27, 6519-6525.	11.1	47
292	Tracing the 4000 year history of organic thin films: From monolayers on liquids to multilayers on solids. <i>Applied Physics Reviews</i> , 2015, 2, 011101.	5.5	25
293	Phthalocyanine-Based Organic Thin-Film Transistors: A Review of Recent Advances. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 13105-13118.	4.0	289
294	Molecular Donor-Bridge-Acceptor Strategies for High-Capacitance Organic Dielectric Materials. <i>Journal of the American Chemical Society</i> , 2015, 137, 7189-7196.	6.6	35
295	Recovering ferromagnetic metal surfaces to fully exploit chemistry in molecular spintronics. <i>AIP Advances</i> , 2015, 5, .	0.6	9
296	Fluorinated polymer-grafted organic dielectrics for organic field-effect transistors with low-voltage and electrical stability. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 16791-16797.	1.3	16
297	Effects of a ferroelectric interface on thermionic injection-induced cooling in single-heterojunction devices based on thin-film electrode/medium/electrode design. <i>Journal of Materials Chemistry A</i> , 2015, 3, 14431-14437.	5.2	0
298	Interface effect in pentacene field-effect transistors from high energy proton beam irradiation. <i>Organic Electronics</i> , 2015, 27, 240-246.	1.4	7
299	Temperature-dependent charge injection and transport in pentacene thin-film transistors. <i>Semiconductor Science and Technology</i> , 2015, 30, 115020.	1.0	4
300	Tailoring the Properties of Surface-Immobilized Azobenzenes by Monolayer Dilution and Surface Curvature. <i>Langmuir</i> , 2015, 31, 1048-1057.	1.6	71
302	AgInSe <sub>2</sub> .PCBM.P3HT inorganic organic blends for hybrid bulk heterojunction photovoltaics. <i>Synthetic Metals</i> , 2015, 200, 102-108.	2.1	35

#	ARTICLE	IF	CITATIONS
303	Highly Stable and Imperceptible Electronics Utilizing Photoactivated Heterogeneous Solâ€Gel Metalâ€Oxide Dielectrics and Semiconductors. <i>Advanced Materials</i> , 2015, 27, 1182-1188.	11.1	127
304	A 2D Semiconductorâ€Selfâ€Assembled Monolayer Photoswitchable Diode. <i>Advanced Materials</i> , 2015, 27, 1426-1431.	11.1	52
305	Synthesis, self-assembly and characterization of a novel pushâ€pull thiophene-based chromophore on a gold surface. <i>RSC Advances</i> , 2015, 5, 26308-26315.	1.7	7
306	Characterization of molecular organization in pentacene thin films on SiO <sub>2</sub> surface using infrared spectroscopy, spectroscopic ellipsometry, and atomic force microscopy. <i>Chemical Physics</i> , 2015, 456, 49-56.	0.9	9
307	Alkylsilaneâ€SiO <sub>2</sub> Hybrids. A Concerted Picture of Temperature Effects in Vapor Phase Functionalization. <i>Journal of Physical Chemistry C</i> , 2015, 119, 15390-15400.	1.5	35
308	Growth of Thin, Anisotropic, ï€Conjugated Molecular Films by Stepwise â€Clickâ€Assembly of Molecular Building Blocks: Characterizing Reaction Yield, Surface Coverage, and Film Thickness versus Addition Step Number. <i>Journal of the American Chemical Society</i> , 2015, 137, 8819-8828.	6.6	17
309	Role of the Head and/or Tail Groups of Adsorbed â€[Xheadâ€group]â€Alkylâ€[Xtailâ€group] [X = O(H), S(H), NH(2)] Chains in Controlling the Work Function of the Functionalized H:Si(111) Surface. <i>Journal of Physical Chemistry C</i> , 2015, 119, 11588-11597.	1.5	18
310	Enhanced self-assembled monolayer treatment on polymeric gate dielectrics with ultraviolet/ozone assistance in organic thin film transistors. <i>RSC Advances</i> , 2015, 5, 64471-64477.	1.7	14
311	Commercially applicable, solution-processed organic TFT and its backplane application in electrophoretic displays. <i>Solid-State Electronics</i> , 2015, 111, 227-233.	0.8	5
312	Performance improvement of organic field-effect transistor based nitrogen dioxide gas sensor using biocompatible PMMA/silk fibroin bilayer dielectric. <i>Journal of Materials Science: Materials in Electronics</i> , 2015, 26, 7948-7954.	1.1	14
313	Effects of Self-Assembled Monolayers with Fluorinated Alkyl Chain. <i>Ferroelectrics</i> , 2015, 478, 170-175.	0.3	1
314	Synthesis, Crystal Structure and Electrical Studies of Naphthoyl-Thiourea as Potential Organic Light Emitting Diode. <i>Journal of Chemical Crystallography</i> , 2015, 45, 338-349.	0.5	5
315	Self-Assembled Monolayers on a Ferromagnetic Permalloy Surface. <i>Langmuir</i> , 2015, 31, 5311-5318.	1.6	7
316	Molecular Template Growth and Its Applications in Organic Electronics and Optoelectronics. <i>Chemical Reviews</i> , 2015, 115, 5570-5603.	23.0	198
317	A model for engineering the electrical conductance at nanoscale. <i>Current Applied Physics</i> , 2015, 15, 683-690.	1.1	2
318	Interfaces analysis by impedance spectroscopy and transient current spectroscopy on semiconducting polymers based metalâ€insulatorâ€semiconductor capacitors. <i>Organic Electronics</i> , 2015, 24, 303-314.	1.4	21
319	Fluorous-inorganic hybrid dielectric materials for solution-processed electronic devices. <i>New Journal of Chemistry</i> , 2015, 39, 836-842.	1.4	12
320	Fluorination, and Tunneling across Molecular Junctions. <i>Journal of the American Chemical Society</i> , 2015, 137, 3852-3858.	6.6	47

#	ARTICLE	IF	CITATIONS
321	Photoexcited Porphyrins Functionalizing TiO <sub>2</sub> and SnO <sub>2</sub> Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2015, 119, 23743-23751.	1.5	6
322	Excitation and Relaxation Dynamics of Two-Dimensional Photoexcited Electrons on Alkanethiolate Self-Assembled Monolayers. <i>Journal of Physical Chemistry C</i> , 2015, 119, 22945-22953.	1.5	11
323	2D attenuated total reflectance infrared spectroscopy reveals ultrafast vibrational dynamics of organic monolayers at metal-liquid interfaces. <i>Journal of Chemical Physics</i> , 2015, 142, 212413.	1.2	30
324	Initial time-dependent current growth phenomenon in n-type organic transistors induced by interfacial dipole effects. <i>Journal of Applied Physics</i> , 2015, 117, 104507.	1.1	5
325	Surface Decoration on Polymeric Gate Dielectrics for Flexible Organic Field-Effect Transistors via Hydroxylation and Subsequent Monolayer Self-Assembly. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 23464-23471.	4.0	18
326	High-mobility and low-operating voltage organic thin film transistor with epoxy based siloxane binder as the gate dielectric. <i>Applied Physics Letters</i> , 2015, 107, .	1.5	11
327	Ultrathin polycrystalline 6,13-Bis(triisopropylsilylethynyl)-pentacene films. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2015, 33, 021506.	0.9	0
328	Effects of Different Self-Assembled Monolayers on Thin-Film Morphology: A Combined DFT/MD Simulation Protocol. <i>Langmuir</i> , 2015, 31, 10693-10701.	1.6	15
329	Surface Dipoles: A Growing Body of Evidence Supports Their Impact and Importance. <i>Accounts of Chemical Research</i> , 2015, 48, 3007-3015.	7.6	86
330	Decoupling the Effects of Self-Assembled Monolayers on Gold, Silver, and Copper Organic Transistor Contacts. <i>Advanced Materials Interfaces</i> , 2015, 2, 1400384.	1.9	75
331	A sol-gel titanium-silicon oxide/organic hybrid dielectric for low-voltage organic thin film transistors. <i>Journal of Materials Chemistry C</i> , 2015, 3, 968-972.	2.7	15
332	Surface modification of textured silicon and its wetting behaviour. <i>Journal of Adhesion Science and Technology</i> , 2015, 29, 308-318.	1.4	7
333	Tailoring Functional Interlayers in Organic Field-Effect Transistor Biosensors. <i>Advanced Materials</i> , 2015, 27, 7528-7551.	11.1	75
334	A Facile Method for Detection of Substituted Salicylic Acids Using Pyrenesulfonamide-Terminated Self-Assembled Monolayers on Silicon Oxide Surfaces. <i>Bulletin of the Korean Chemical Society</i> , 2016, 37, 748-751.	1.0	0
335	Tuning the Excitonic States in MoS <sub>2</sub> /Graphene van der Waals Heterostructures via Electrochemical Gating. <i>Advanced Functional Materials</i> , 2016, 26, 293-302.	7.8	56
336	Adsorption of oriented carborane dipoles on a silver surface. <i>Physica Status Solidi (B): Basic Research</i> , 2016, 253, 591-600.	0.7	12
337	Growth and Manipulation of Organic Semiconductors Microcrystals by Wet Lithography. <i>Advanced Functional Materials</i> , 2016, 26, 2387-2393.	7.8	4
338	2D Single-Crystalline Molecular Semiconductors with Precise Layer Definition Achieved by Floating-Coffee-Ring-Driven Assembly. <i>Advanced Functional Materials</i> , 2016, 26, 3191-3198.	7.8	136

#	ARTICLE	IF	CITATIONS
339	Shuntâ€œBlocking Layers for Semitransparent Perovskite Solar Cells. <i>Advanced Materials Interfaces</i> , 2016, 3, 1500837.	1.9	73
340	Remarkably enhanced adhesion of coherently aligned catechol-terminated molecules on ultraclean ultraflat gold nanoplates. <i>Nanotechnology</i> , 2016, 27, 475705.	1.3	3
341	Solvent-assisted reduction in the lateral leakage current in solution-processed organic transistors. <i>Journal of the Korean Physical Society</i> , 2016, 69, 226-230.	0.3	1
342	A nanogap electrode platform for organic monolayer-film devices. , 2016, , .		4
343	Layerâ€œbyâ€œLayer Assembled 2D Montmorillonite Dielectrics for Solutionâ€œProcessed Electronics. <i>Advanced Materials</i> , 2016, 28, 63-68.	11.1	72
344	On the relationship between the structure of self-assembled carboxylic acid monolayers on alumina and the organization and electrical properties of a pentacene thin film. <i>Applied Surface Science</i> , 2016, 365, 364-375.	3.1	7
345	Electrografted Fluorinated Organic Ultrathin Film as Efficient Gate Dielectric in MoS <sub>2</sub> Transistors. <i>Journal of Physical Chemistry C</i> , 2016, 120, 9506-9510.	1.5	8
346	Fine-Tunable Absorption of Uniformly Aligned Polyurea Thin Films for Optical Filters Using Sequentially Self-Limited Molecular Layer Deposition. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 11788-11795.	4.0	29
347	Optoelectronic properties of naphtho[2, 1-b:6, 5-bâ€œ <sup>2</sup> ]difuran derivatives for photovoltaic application: a computational study. <i>Journal of Molecular Modeling</i> , 2016, 22, 248.	0.8	24
348	Highly Sensitive Ultraviolet Light Sensor Based on Photoactive Organic Gate Dielectrics with an Azobenzene Derivative. <i>Journal of Physical Chemistry C</i> , 2016, 120, 23172-23179.	1.5	32
349	Differing Isomerization Kinetics of Azobenzene-Functionalized Self-Assembled Monolayers in Ambient Air and in Vacuum. <i>Langmuir</i> , 2016, 32, 10795-10801.	1.6	45
350	Sacrificial Self-Assembled Monolayers for the Passivation of GaAs (100) Surfaces and Interfaces. <i>Chemistry of Materials</i> , 2016, 28, 5689-5701.	3.2	20
351	Fluorinated benzothiadiazole-based small molecules for photovoltaic applications. <i>Synthetic Metals</i> , 2016, 220, 455-461.	2.1	17
352	Investigation on the mobility and stability in organic thin film transistors consisting of bilayer gate dielectrics. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2016, 213, 79-84.	0.8	14
353	Employing X-ray Photoelectron Spectroscopy for Determining Layer Homogeneity in Mixed Polar Self-Assembled Monolayers. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 2994-3000.	2.1	28
354	Synthesis and characterization of 2,7-diethynyl-benzo[b]benzo[4,5]thieno[2,3-d]thiophene derivative as organic semiconductors for organic thin-film transistors. <i>Synthetic Metals</i> , 2016, 220, 599-605.	2.1	6
355	Influence of Molecular Aggregation on Electron Transfer at the Perylene Diimide/Indium-Tin Oxide Interface. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 34089-34097.	4.0	12
356	Conduction mechanism of nitronyl-nitroxide molecular magnetic compounds. <i>Physical Review B</i> , 2016, 93, .	1.1	5

#	ARTICLE	IF	CITATIONS
357	Polysiloxanes for optoelectronic applications. Progress in Materials Science, 2016, 83, 383-416.	16.0	76
358	Surface Energy-Mediated Self-Patterning for High Performance Spray-Deposited Organic Field Effect Transistors. Advanced Materials Interfaces, 2016, 3, 1500714.	1.9	8
359	Investigation of the Electrical Parameters of the Organic Diode Modified with 4-[(3-Methylphenyl)(phenyl)amino] Benzoic Acid. ECS Journal of Solid State Science and Technology, 2016, 5, P239-P244.	0.9	1
360	Molecular design driving tetraporphyrin self-assembly on graphite: a joint STM, electrochemical and computational study. Nanoscale, 2016, 8, 13678-13686.	2.8	19
361	Structural Characterization of Alkylsilane and Fluoroalkylsilane Self-Assembled Monolayers on SiO <sub>2</sub> by Molecular Dynamics Simulations. Journal of Physical Chemistry C, 2016, 120, 14652-14662.	1.5	42
362	Adlayer structures of anthracenthioi on Au(111) after removal of covering multilayers with probe scan. Applied Surface Science, 2016, 371, 562-570.	3.1	9
363	Dendrons with urea/malonamide linkages for gate insulators of n-channel organic thin film transistors. Reactive and Functional Polymers, 2016, 108, 86-93.	2.0	9
364	Al <sub>2</sub> O <sub>3</sub> /TiO <sub>2</sub> nanolaminate gate dielectric films with enhanced electrical performances for organic field-effect transistors. Organic Electronics, 2016, 28, 139-146.	1.4	41
365	Ammonium tetrathiomolybdate as a novel electrode material for convenient tuning of the kinetics of electrochemical O <sub>2</sub> reduction by using iron-porphyrin catalysts. Journal of Materials Chemistry A, 2016, 4, 6819-6823.	5.2	13
366	Preparation and applications of self-assembled natural and synthetic nanostructures. , 2016, , 29-55.		6
367	Photo-patternable high-k ZrOx dielectrics prepared using zirconium acrylate for low-voltage-operating organic complementary inverters. Organic Electronics, 2016, 33, 40-47.	1.4	23
368	Crystallinity and performance improvement in solution processed organic field-effect transistors due to structural dissimilarity of the additive solvent. Synthetic Metals, 2016, 215, 1-6.	2.1	28
369	Disorder-derived, strong tunneling attenuation in bis-phosphonate monolayers. Journal of Physics Condensed Matter, 2016, 28, 094008.	0.7	15
370	Self-assembled monolayers based spintronics: from ferromagnetic surface functionalization to spin-dependent transport. Journal of Physics Condensed Matter, 2016, 28, 094010.	0.7	4
371	Surface Enhancement in Ultrafast 2D ATR IR Spectroscopy at the Metal-Liquid Interface. Journal of Physical Chemistry C, 2016, 120, 3350-3359.	1.5	57
372	Identification of Au-S complexes on Au(100). Physical Chemistry Chemical Physics, 2016, 18, 4891-4901.	1.3	20
373	Low-temperature sol-gel processed AlO <sub>x</sub> gate dielectric buffer layer for improved performance in pentacene-based OFETs. RSC Advances, 2016, 6, 28801-28808.	1.7	7
374	High, Anisotropic, and Substrate-Independent Mobility in Polymer Field-Effect Transistors Based on Preassembled Semiconducting Nanofibrils. ACS Nano, 2017, 11, 2000-2007.	7.3	6

#	ARTICLE	IF	CITATIONS
375	Molecular dynamics simulations of phosphonic acid–aluminum oxide self-organization and their evolution into ordered monolayers. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 5137-5144.	1.3	22
376	Self-Assembled Monolayers as Patterning Tool for Organic Electronic Devices. <i>Advanced Materials</i> , 2017, 29, 1605286.	11.1	72
377	Generating new magnetic properties in organic–inorganic hybrids. <i>Journal of Materials Chemistry C</i> , 2017, 5, 1782-1788.	2.7	15
378	Load-Induced Frictional Transition at a Well-Defined Alkane Loop Surface. <i>Langmuir</i> , 2017, 33, 2396-2401.	1.6	4
379	<i>50th Anniversary Perspective</i>: Dielectric Phenomena in Polymers and Multilayered Dielectric Films. <i>Macromolecules</i> , 2017, 50, 2239-2256.	2.2	251
380	Motion of Fullerenes around Topological Defects on Metals: Implications for the Progress of Molecular Scale Devices. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 7897-7902.	4.0	5
381	Epitaxial Growth of MOF Thin Film for Modifying the Dielectric Layer in Organic Field-Effect Transistors. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 7259-7264.	4.0	56
382	Flexible and low-voltage organic phototransistors. <i>RSC Advances</i> , 2017, 7, 11572-11577.	1.7	23
383	Photo-Switchable and Wavelength Selective Axial Ligation of Thiol-Appended Molecules to Zinc Tetraphenylporphyrin: Spectral and Charge Transfer Kinetics Studies. <i>Journal of Physical Chemistry C</i> , 2017, 121, 9729-9738.	1.5	5
384	Extremely bulky copper complexes of [HB(3,5-{1-naphthyl}) <sub>2</sub> pz] <sub>3</sub> <sup>+</sup> and [HB(3,5-{2-naphthyl}) <sub>2</sub> pz] <sub>3</sub> <sup>+</sup> and their self-assembly on graphene. <i>Dalton Transactions</i> , 2017, 46, 6433-6446.	1.6	7
385	Step-by-step improvement in photovoltaic properties of fluorinated quinoxaline-based low-band-gap polymers. <i>Organic Electronics</i> , 2017, 47, 14-23.	1.4	28
386	Functionalized organic semiconductor molecules to enhance charge carrier injection in electroluminescent cell. <i>Optical Materials</i> , 2017, 69, 283-290.	1.7	14
387	Insights Into Interface Treatments in p-Channel Organic Thin-Film Transistors Based on a Novel Molecular Semiconductor. <i>IEEE Transactions on Electron Devices</i> , 2017, 64, 2338-2344.	1.6	11
388	Nanostructuring of Au(111) during the Adsorption of an Aromatic Isocyanide from Solution. <i>Langmuir</i> , 2017, 33, 91-99.	1.6	5
389	Ambipolar Organic Field-Effect Transistors Based on a Dual-Function, Ultrathin and Highly Crystalline 2,9-bis(dicyclopentylidene)thieno[3,2-b]thiophene (C <sub>10</sub> -DNTT) Layer. <i>Advanced Materials</i> , 2017, 3, 1700268.	1.2	22
390	Multilayer Growth of Porphyrin-Based Polyurea Thin Film Using Solution-Based Molecular Layer Deposition Technique. <i>Langmuir</i> , 2017, 33, 12777-12784.	1.6	12
391	Work Function Control of Germanium through Carborane-Carboxylic Acid Surface Passivation. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 34592-34596.	4.0	33
392	Investigation of electronic transport through ultrathin carbon nanomembrane junctions by conductive probe atomic force microscopy and eutectic Ga–In top contacts. <i>Journal of Applied Physics</i> , 2017, 122, 055103.	1.1	7

#	ARTICLE	IF	CITATIONS
393	Engineering of Amorphous Polymeric Insulators for Organic Field-Effect Transistors. <i>Advanced Electronic Materials</i> , 2017, 3, 1700157.	2.6	38
394	Comprehensive View of the Ligand-Gold Interface from First Principles. <i>Chemistry of Materials</i> , 2017, 29, 6908-6915.	3.2	59
395	Real-time storage of thermal signals in organic memory with floating core-shell nanoparticles. <i>Journal of Materials Chemistry C</i> , 2017, 5, 8415-8423.	2.7	16
396	Effect of Structure and Disorder on the Charge Transport in Defined Self-Assembled Monolayers of Organic Semiconductors. <i>ACS Nano</i> , 2017, 11, 8747-8757.	7.3	23
397	Fabrication and Operation of Monolayer Mott FET at Room Temperature. <i>Bulletin of the Chemical Society of Japan</i> , 2017, 90, 1259-1266.	2.0	12
398	Flexible diodes for radio frequency (RF) electronics: a materials perspective. <i>Semiconductor Science and Technology</i> , 2017, 32, 123002.	1.0	64
399	Directly writing 2D organic semiconducting crystals for high-performance field-effect transistors. <i>Journal of Materials Chemistry C</i> , 2017, 5, 11246-11251.	2.7	27
400	Chain Length Dependence of the Dielectric Constant and Polarizability in Conjugated Organic Thin Films. <i>ACS Nano</i> , 2017, 11, 5970-5981.	7.3	38
401	Functional Organophosphonate Interfaces for Nanotechnology: A Review. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 25643-25655.	4.0	44
402	Surface Modification of Textured Dielectrics and Their Wetting Behavior. <i>Journal of Materials Engineering and Performance</i> , 2017, 26, 822-827.	1.2	5
403	Assembly and Electronic Applications of Colloidal Nanomaterials. <i>Advanced Materials</i> , 2017, 29, 1603895.	11.1	98
404	Surface-directed molecular assembly of pentacene on aromatic organophosphonate self-assembled monolayers explored by polarized Raman spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2017, 48, 235-242.	1.2	5
405	Self-assembled monolayers in organic electronics. <i>Chemical Society Reviews</i> , 2017, 46, 40-71.	18.7	437
406	Influence of the morphology of the copper(II) phthalocyanine thin film on the performance of organic field-effect transistors. <i>Solid-State Electronics</i> , 2017, 127, 61-64.	0.8	7
407	Synthesis and characterisation of liquid crystal molecules based on thieno [3,2-b] thiophene and their application in organic field-effect transistors. <i>Liquid Crystals</i> , 2017, 44, 557-565.	0.9	18
408	Design and simulation of a high-gain organic operational amplifier for use in quantification of cholesterol in low-cost point-of-care devices. <i>IET Circuits, Devices and Systems</i> , 2017, 11, 504-511.	0.9	4
409	Energy Level Alignment of Organic Molecules with Chemically Modified Alkanethiolate Self-Assembled Monolayers. <i>Journal of Physical Chemistry C</i> , 2017, 121, 27399-27405.	1.5	4
410	Self-Assembled Materials for Catalysis. , 2017, , 329-349.		0

#	ARTICLE	IF	CITATIONS
411	A Two-dimensional Assembly of Luminescent Silicon Nanocrystals at Air-Water Interface. <i>Materials Today: Proceedings</i> , 2018, 5, 10143-10148.	0.9	0
412	Influence of the Surface Treatment on the Solution Coating of Single-Crystalline Organic Thin Films. <i>Advanced Materials Interfaces</i> , 2018, 5, 1800147.	1.9	19
414	Measuring Dipole Inversion in Self-Assembled Nano-Dielectric Molecular Layers. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 6484-6490.	4.0	4
415	Unidirectional molecular assembly alignment on graphene enabled by nanomechanical symmetry breaking. <i>Scientific Reports</i> , 2018, 8, 2333.	1.6	5
416	Determining the thickness of aliphatic alcohol monolayers covalently attached to silicon oxide surfaces using angle-resolved X-ray photoelectron spectroscopy. <i>Applied Surface Science</i> , 2018, 436, 907-911.	3.1	6
417	High-Temperature and High-Energy-Density Dipolar Glass Polymers Based on Sulfonated Poly(2,6-dimethyl-1,4-phenylene oxide). <i>Angewandte Chemie</i> , 2018, 130, 1544-1547.	1.6	49
418	Uniform Surface Characteristics in Sequentially Polymerized Polyurea Films. <i>Bulletin of the Korean Chemical Society</i> , 2018, 39, 119-122.	1.0	5
419	High-Temperature and High-Energy-Density Dipolar Glass Polymers Based on Sulfonated Poly(2,6-dimethyl-1,4-phenylene oxide). <i>Angewandte Chemie - International Edition</i> , 2018, 57, 1528-1531.	7.2	125
420	Copper Phthalocyanine as Contact Layers for Pentacene Films Grown on Coinage Metals. <i>Journal of Physical Chemistry C</i> , 2018, 122, 2165-2172.	1.5	14
421	A Combined Electrochemical-Microfluidic Strategy for the Microscale-Sized Selective Modification of Transparent Conductive Oxides. <i>Advanced Materials Interfaces</i> , 2018, 5, 1701222.	1.9	1
422	Organic semiconductor crystals. <i>Chemical Society Reviews</i> , 2018, 47, 422-500.	18.7	623
423	Tuning Electrical Properties of 2D Materials by Self-Assembled Monolayers. <i>Advanced Materials Interfaces</i> , 2018, 5, 1700316.	1.9	55
424	Spectroscopic characterization of the structural properties of quinoxalinophenanthrophenazine thin films. <i>Journal of Materials Chemistry C</i> , 2018, 6, 781-789.	2.7	5
425	In Situ SAXS Measurement and Molecular Dynamics Simulation of Magnetic Alignment of Hexagonal LLC Nanostructures. <i>Membranes</i> , 2018, 8, 123.	1.4	2
426	Interfacial Polymer Brush Layer for DNA Sensors Based on Graphene Transistors. <i>Fibers and Polymers</i> , 2018, 19, 2483-2488.	1.1	6
427	InSnZnO Thin-Film Transistors With Vapor-Phase Self-Assembled Monolayer as Passivation Layer. <i>IEEE Electron Device Letters</i> , 2018, 39, 1680-1683.	2.2	18
428	Formation of Highly Ordered Semiconducting Anthracene Monolayer Rigidly Connected to Insulating Alkanethiolate Thin Film. <i>Journal of Physical Chemistry C</i> , 2018, 122, 26080-26087.	1.5	2
429	Using SERS To Understand the Binding of N-Heterocyclic Carbenes to Gold Surfaces. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 6779-6785.	2.1	38



#	ARTICLE	IF	CITATIONS
430	FePc induced highly oriented PIID-BT conjugated polymer semiconductor with high bias-stress stability. <i>Applied Physics Letters</i> , 2018, 113, .	1.5	4
431	Solution-Processable, Thin, and High- $\epsilon$ Dielectric Polyurea Gate Insulator with Strong Hydrogen Bonding for Low-Voltage Organic Thin-Film Transistors. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 32462-32470.	4.0	25
432	Fullerene-derivative as interlayer for high performance organic thin-film transistors. <i>Journal of Materials Chemistry C</i> , 2018, 6, 6052-6057.	2.7	7
433	High- $\kappa$ Gate Dielectrics for Emerging Flexible and Stretchable Electronics. <i>Chemical Reviews</i> , 2018, 118, 5690-5754.	23.0	530
434	Ultrathin Supported Lipid Monolayer with Unprecedented Mechanical and Dielectric Properties. <i>Advanced Functional Materials</i> , 2018, 28, 1801024.	7.8	9
435	Self-Assembled Photochromic Molecular Dipoles for High-Performance Polymer Thin-Film Transistors. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 21492-21498.	4.0	12
436	Self-assembled monolayers in biomaterials. , 2018, , 137-178.		15
437	Large-area plastic nanogap electronics enabled by adhesion lithography. <i>Npj Flexible Electronics</i> , 2018, 2, .	5.1	29
438	Recent Progress in High-Mobility Organic Transistors: A Reality Check. <i>Advanced Materials</i> , 2018, 30, e1801079.	11.1	498
439	Influence of Acrylic Polymers Stereoregularity on Interface Interactions in Model Thin Film Systems. <i>Macromolecular Chemistry and Physics</i> , 2018, 219, 1800097.	1.1	1
440	Insights into the self-assembly of aromatic dinitroso derivatives on gold surface. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018, 552, 110-117.	2.3	2
441	Tutorial: Organic field-effect transistors: Materials, structure and operation. <i>Journal of Applied Physics</i> , 2018, 124, .	1.1	129
442	Surface modification of silicon oxycarbide films produced by remote hydrogen microwave plasma chemical vapour deposition from tetramethyldisiloxane precursor. <i>Surface and Coatings Technology</i> , 2018, 350, 686-698.	2.2	15
443	Performance evaluation of free-silicon organic-inorganic hybrid (SiO <sub>2</sub> -TiO <sub>2</sub> -PVP) thin films as a gate dielectric. <i>Applied Surface Science</i> , 2018, 455, 373-378.	3.1	16
444	The Impact of Dipolar Layers on the Electronic Properties of Organic/Inorganic Hybrid Interfaces. <i>Advanced Materials Interfaces</i> , 2019, 6, 1900581.	1.9	112
445	Magnetic field dependence of the hexagonal to isotropic transition temperature of a single-walled carbon nanotubes dispersed lyotropic liquid crystal. <i>Phase Transitions</i> , 2019, 92, 634-641.	0.6	1
446	Highly-ordered Triptycene Modifier Layer Based on Blade Coating for Ultraflexible Organic Transistors. <i>Scientific Reports</i> , 2019, 9, 9200.	1.6	20
447	Recent Efforts in Understanding and Improving the Nonideal Behaviors of Organic Field-Effect Transistors. <i>Advanced Science</i> , 2019, 6, 1900375.	5.6	45

#	ARTICLE	IF	CITATIONS
448	Quantum Interference and Substantial Property Tuning in Conjugated <i>ortho</i> - <i>Regio</i> -Resistive Organic (ZORRO) Junctions. <i>Nano Letters</i> , 2019, 19, 8956-8963.	4.5	10
449	Plasma Nano-Texturing of Polymers for Wettability Control: Why, What and How. <i>Coatings</i> , 2019, 9, 640.	1.2	23
450	Small-Molecule-Based Organic Field-Effect Transistor for Nonvolatile Memory and Artificial Synapse. <i>Advanced Functional Materials</i> , 2019, 29, 1904602.	7.8	192
451	Surface Modification of Pseudoboehmite-Coated Aluminum Plates with Squaramic Acid Amphiphiles. <i>ACS Omega</i> , 2019, 4, 14868-14874.	1.6	3
452	Boosting and Balancing Electron and Hole Mobility in Single- and Bilayer WSe <sub>2</sub> Devices via Tailored Molecular Functionalization. <i>ACS Nano</i> , 2019, 13, 11613-11622.	7.3	34
453	Robust graphene-based molecular devices. <i>Nature Nanotechnology</i> , 2019, 14, 957-961.	15.6	50
454	High- <i>k</i> polymeric gate insulators for organic field-effect transistors. <i>Nanotechnology</i> , 2019, 30, 202002.	1.3	16
455	Monolayer organic field-effect transistors. <i>Science China Chemistry</i> , 2019, 62, 313-330.	4.2	54
456	Precise Patterning of Organic Semiconductor Crystals for Integrated Device Applications. <i>Small</i> , 2019, 15, e1900332.	5.2	41
457	A Solvent-Free Solution: Vacuum-Deposited Organic Monolayers Modify Work Functions of Noble Metal Electrodes. <i>Advanced Functional Materials</i> , 2019, 29, 1808385.	7.8	24
458	Impact of the Gate Dielectric on Contact Resistance in High-Mobility Organic Transistors. <i>Advanced Electronic Materials</i> , 2019, 5, 1800723.	2.6	40
459	The supramolecular structure and van der Waals interactions affect the electronic structure of ferrocenyl-alkanethiolate SAMs on gold and silver electrodes. <i>Nanoscale Advances</i> , 2019, 1, 1991-2002.	2.2	10
460	Recent Progress in Aromatic Polyimide Dielectrics for Organic Electronic Devices and Circuits. <i>Advanced Materials</i> , 2019, 31, e1806070.	11.1	176
461	Silicon Nanogap Electrode Engineering for Organic Monolayer Field Effect Transistors*. , 2019, , .		1
462	Realizing high aspect ratio silver micro and nanostructures by microcontact printing of alkyl thiol self-assembled monolayers. <i>MRS Advances</i> , 2019, 4, 2441-2451.	0.5	1
463	Abnormal Back Channel Leakage Under Large Drain Voltage in Short Channel Organic Thin-Film Transistors. <i>IEEE Electron Device Letters</i> , 2019, 40, 1752-1755.	2.2	0
464	Self-assembled interface monolayers for organic and hybrid electronics. <i>Russian Chemical Reviews</i> , 2019, 88, 1220-1247.	2.5	12
465	A dithiocarbamate anchoring group as a flexible platform for interface engineering. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 22511-22525.	1.3	14

#	ARTICLE	IF	CITATIONS
466	Solution-processable small molecules for bulk heterojunction ambipolar thin-film transistors and complementary-like inverters. <i>Dyes and Pigments</i> , 2019, 163, 725-733.	2.0	19
467	Hybrid bilayer gate dielectric-based organic thin film transistors. <i>Bulletin of Materials Science</i> , 2019, 42, 1.	0.8	11
468	Precise Control of Interfacial Charge Transport for Building Functional Optoelectronic Devices. <i>Advanced Materials Technologies</i> , 2019, 4, 1800358.	3.0	1
469	Two-dimensional Organic Materials and Their Electronic Applications. <i>Chemistry Letters</i> , 2019, 48, 14-21.	0.7	4
470	Structural, electronic and optical properties of furan based materials at bulk level for photovoltaic applications: A first-principles study. <i>Computational and Theoretical Chemistry</i> , 2019, 1147, 20-28.	1.1	7
471	Eco-friendly cross-linked polymeric dielectric material based on natural tannic acid. <i>Chemical Engineering Journal</i> , 2019, 358, 170-175.	6.6	23
472	Understanding, Optimizing, and Utilizing Nonideal Transistors Based on Organic or Organic Hybrid Semiconductors. <i>Advanced Functional Materials</i> , 2020, 30, 1903889.	7.8	49
473	High- $\kappa$ polymers of intrinsic microporosity: a new class of high temperature and low loss dielectrics for printed electronics. <i>Materials Horizons</i> , 2020, 7, 592-597.	6.4	87
474	Gate Interface Engineering for Subvolt Metal Oxide Transistor Fabrication by Using Ion-Conducting Dielectric with Mn <sub>2</sub> O <sub>3</sub> Gate Interface. <i>ACS Applied Electronic Materials</i> , 2020, 2, 25-34.	2.0	26
475	Self-organization of complete organic monolayers via sequential post-deposition annealing. <i>Progress in Organic Coatings</i> , 2020, 138, 105408.	1.9	15
476	Low-power-consumption organic field-effect transistors. <i>JPhys Materials</i> , 2020, 3, 014009.	1.8	22
477	Ultra-Low Voltage Metal Oxide Thin Film Transistor by Low-Temperature Annealed Solution Processed LiAlO <sub>2</sub> Gate Dielectric. <i>Electronic Materials Letters</i> , 2020, 16, 22-34.	1.0	29
478	Introduction of a Stable Radical in Polymer Capacitor Enables High Energy Storage and Pulse Discharge Efficiency. <i>Chemistry of Materials</i> , 2020, 32, 9355-9362.	3.2	29
479	Immobilizing a $\pi$ -Conjugated Catecholato Framework on Surfaces of SiO <sub>2</sub> Insulator Films via a One-Atom Anchor of a Platinum Metal Center to Modulate Organic Transistor Performance. <i>Inorganic Chemistry</i> , 2020, 59, 17945-17957.	1.9	1
480	Reduced Threshold Voltages and Enhanced Mobilities in Diketopyrrolopyrrole-Dithienothiophene Polymer-Based Organic Transistor by Interface Engineering. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2020, 217, 2000097.	0.8	5
481	Highly Stable Artificial Synapse Consisting of Low-Surface Defect van der Waals and Self-Assembled Materials. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 38299-38305.	4.0	14
482	Nanodielectrics approaches to low-voltage organic transistors and circuits. <i>EPJ Applied Physics</i> , 2020, 91, 20201.	0.3	6
483	Contact resistance in organic transistors: Use it or remove it. <i>Applied Physics Reviews</i> , 2020, 7, .	5.5	33

#	ARTICLE	IF	CITATIONS
484	Large Increase in the Dielectric Constant and Partial Loss of Coherence Increases Tunneling Rates across Molecular Wires. ACS Applied Materials & Interfaces, 2020, 12, 45111-45121.	4.0	18
485	Improvement in Mechanical Durability of Stretchable Charge-Trap Memory Transistors with Engineered Wavy-Dimensional Structures. ACS Applied Electronic Materials, 2020, 2, 2984-2993.	2.0	6
486	Interface Modification in Three-Terminal Organic Memory and Synaptic Device. Advanced Electronic Materials, 2020, 6, 2000641.	2.6	17
487	Formation of a mixed monolayer on a gold surface using fluorobenzenethiol and alkanethiol. Japanese Journal of Applied Physics, 2020, 59, SDDA09.	0.8	5
488	Ferrocene on Insulator: Silane Coupling to a SiO <sub>2</sub> Surface and Influence on Electrical Transport at a Buried Interface with an Organic Semiconductor Layer. Langmuir, 2020, 36, 5809-5819.	1.6	9
489	Contact Architecture Controls Conductance in Monolayer Devices. ACS Applied Materials & Interfaces, 2020, 12, 28446-28450.	4.0	1
490	Structure and Conformation of a Crystalline P3HT Film Adsorbed on an Alkanethiol Self-Assembled Monolayer Deposited on Gold. Macromolecular Theory and Simulations, 2020, 29, 2000010.	0.6	4
491	Mimicking the competitive and cooperative behaviors with multi-terminal synaptic memtransistors. Journal of Materials Chemistry C, 2020, 8, 6063-6071.	2.7	14
492	Low-Voltage IGZO TFTs Using Solution-Deposited OTS-Modified Ta <sub>2</sub> O <sub>5</sub> Dielectric. IEEE Transactions on Electron Devices, 2020, 67, 1625-1631.	1.6	14
493	Cross-Plane Thermal Conductance of Phosphonate-Based Self-Assembled Monolayers and Self-Assembled Nanodielectrics. ACS Applied Materials & Interfaces, 2020, 12, 34901-34909.	4.0	3
494	Organic materials as a passivation layer for metal oxide semiconductors. Journal of Materials Chemistry C, 2020, 8, 14983-14995.	2.7	23
495	Robustness of Optical Response for Self-Assembled Plasmonic Metamaterials with Morphological Disorder and Surface Roughness. Advanced Optical Materials, 2020, 8, 1901794.	3.6	3
496	Filler matrix interfaces of inorganic/biopolymer composites and their applications. , 2020, , 95-112.		6
497	Ab Initio Simulations of Interfaces between SAM-Modified Gold Electrodes and n-Type or p-Type Organic Semiconductors Based on the Benzothieno-Benzothiophene (BTBT) Architecture. Journal of Physical Chemistry C, 2020, 124, 3601-3609.	1.5	7
498	Photo-responsive azo-functionalised flexible polymer substrate for liquid crystal alignment. Liquid Crystals, 2020, 47, 1354-1365.	0.9	6
499	N-Heterocyclic Carbenes for the Self-Assembly of Thin and Highly Insulating Monolayers with High Quality and Stability. ACS Nano, 2020, 14, 6043-6057.	7.3	28
500	On the Understandings of Dielectric Constant and Its Impacts on the Photovoltaic Efficiency in Organic Solar Cells. Chinese Journal of Chemistry, 2021, 39, 381-390.	2.6	48
501	Ultraviolet Light-Densified Oxide-Organic Self-Assembled Dielectrics: Processing Thin-Film Transistors at Room Temperature. ACS Applied Materials & Interfaces, 2021, 13, 3445-3453.	4.0	9

#	ARTICLE	IF	CITATIONS
502	Chrysenodithiophene-Based Conjugated Polymer: An Elongated Fused $\pi$ -Electronic Backbone with a Unique Orbital Structure Toward Efficient Intermolecular Carrier Transport. <i>Macromolecules</i> , 2021, 54, 2113-2123.	2.2	2
503	Study of the pyridyl-containing charge-trapping functional materials in the organic field effect transistor memory devices. <i>Dyes and Pigments</i> , 2021, 188, 109159.	2.0	1
504	Photocatalytic and thermolytic "Attenuation" Degradation mechanisms of perfluoroalkylsilane self assembled on TiO <sub>2</sub> nanoparticles. <i>Applied Surface Science</i> , 2021, 549, 149278.	3.1	5
505	Nanoscale Strategies to Enhance the Energy Storage Capacity of Polymeric Dielectric Capacitors: Review of Recent Advances. <i>Polymer Reviews</i> , 2022, 62, 211-260.	5.3	50
506	Controlling the Schottky Barrier at the Pt/TiO <sub>2</sub> Interface by Intercalation of a Self-Assembled Monolayer with Oriented Dipole Moments. <i>Journal of Physical Chemistry C</i> , 2021, 125, 13984-13989.	1.5	7
507	Synergistic Effects of Self-Assembled Monolayers in Solution-Processed 6,13-Bis(triisopropylsilylethynyl)Pentacene Transistors. <i>ChemPhysChem</i> , 2021, 22, 1706-1711.	1.0	4
508	Influence of the substitution position in the tetratopic building blocks on the self-assembly process. <i>Journal of Molecular Liquids</i> , 2022, 346, 117074.	2.3	5
509	Understanding the interaction between carboxylates and coinage metals from first principles. <i>Journal of Chemical Physics</i> , 2021, 155, 034301.	1.2	3
510	Synthesis of folded H-stacking skipped $\pi$ polymers consisting of different 2-substituted trimethylene tethering units and their optical and conductive property. <i>Polymer</i> , 2021, 230, 124037.	1.8	0
511	Metal phthalocyanines: thin-film formation, microstructure, and physical properties. <i>RSC Advances</i> , 2021, 11, 21716-21737.	1.7	63
512	Homogeneous Dispersion of Aromatic Thiolates in the Binary Self-Assembled Monolayer on Au(111) via Displacement Revealed by Tip-Enhanced Raman Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2020, 124, 13141-13149.	1.5	12
513	Spintronic Applications of Organic Materials. , 2010, , 137-216.		0
514	Crystallization and microstructure change of semiconductor active thin layer in polymer organic field-effect transistors. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2011, 60, 027201.	0.2	4
515	Progress of the improved mobilities of organic field-effect transistors based on dielectric surface modification. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2012, 61, 228502.	0.2	4
516	PECCS Measurements in Organic FETs. <i>SpringerBriefs in Physics</i> , 2013, , 31-58.	0.2	0
517	Monolayers. <i>Monographs in Electrochemistry</i> , 2014, , 105-137.	0.2	0
518	Surface Forces Between Hydrophobic Surfaces Obtained by Self-assembled Monolayers Deposition of Octadecyltrichlorosilane. <i>Advances in Intelligent Systems and Computing</i> , 2018, , 135-143.	0.5	0
519	Graphene Growth and Characterization: Advances, Present Challenges and Prospects. <i>Journal of Materials Science Research</i> , 2020, 8, 37.	0.1	4

#	ARTICLE	IF	CITATIONS
520	The growth of nitrosobenzene adlayers on an Au(111) surface: The effect of experimental parameters. Colloids and Interface Science Communications, 2021, 45, 100539.	2.0	1
521	Direct Preparation of Mixed Self-assembled Monolayers Based on Common-substructure-tailored Phosphonic Acids for Fine Control of Surface Wettability. Chemistry Letters, 2020, 49, 1302-1305.	0.7	1
522	The Unusual Dielectric Response of Large Area Molecular Tunnel Junctions Probed with Impedance Spectroscopy. Advanced Electronic Materials, 2022, 8, 2100495.	2.6	10
523	Energy Storage Application of All-Organic Polymer Dielectrics: A Review. Polymers, 2022, 14, 1160.	2.0	29
525	On the Role of Collective Electrostatic Effects in Electronic Level Pinning and Work Function Changes by Molecular Adlayers: The Case of Partially Fluorinated DNTTs Adsorbed Flat-Lying on Various Metals and Heterostructures. Advanced Materials Interfaces, 0, , 2200361.	1.9	0
526	Simulation and Comparison of Electrical Performance of Molybdenum Disulfide and Poly (3-Octylthiophene) Self-assembled Monolayer based Nano MOS Device. , 2022, , .		0
527	Self-assembled monolayers for silicon passivated contacts. AIP Conference Proceedings, 2022, , .	0.3	1
528	Improving the Energy Storage Performance of All-Polymer Composites By Blending PVDF and P(VDF-CTFE). Macromolecular Rapid Communications, 2023, 44, .	2.0	8
529	Coating Fluoropolymer on BaTiO <sub>3</sub> Nanoparticles to Boost Permittivity and Energy Density of Polymer Nanocomposites. Energy Technology, 2023, 11, .	1.8	2
530	Flexible Floating-Gate Electric-Double-Layer Organic Transistor for Neuromorphic Computing. ACS Applied Materials & Interfaces, 2022, 14, 57102-57112.	4.0	6
531	Quantitative Structure-Activity Relationship Studies on Alkane Chemistry Tuning Ice Nucleation. Journal of Physical Chemistry Letters, 2022, 13, 11564-11570.	2.1	2
532	Horizontally-Oriented Growth of Organic Crystalline Nanowires on Polymer Films for In-Situ Flexible Photodetectors with Vis-NIR Response and High Bending Stability. Advanced Functional Materials, 2023, 33, .	7.8	10
533	Dynamic molecular tunnel junctions based on self-assembled monolayers for high tunneling current triboelectricity generation. Journal of Materials Chemistry A, 2023, 11, 4946-4956.	5.2	5
534	Comparison of modified molecules 3-aminopropyltriethoxysilane and 11-aminoundecyltriethoxysilane in orientation angle and interaction with protein by sum frequency vibration spectrum and imaging ellipsometry biosensor. Thin Solid Films, 2023, 769, 139738.	0.8	0
535	Polymerization of aromatic dinitroso derivatives initiated by nitroso-terminated monolayer on Au(111) surface: Insights from ellipsometry, AFM and nano-FTIR spectroscopy. Polymer, 2023, 271, 125795.	1.8	0
536	Aligned Phthalocyanine Molecular Nanowires by Graphoepitaxial Self-Assembly and Their In Situ Integration into Photodetector Arrays. Advanced Materials Technologies, 2023, 8, .	3.0	6
541	Thin film biosensors for medical diagnostics: Journey so far. , 2023, , .		0
542	Fabrication of sensor technology using thin films for biosensing, agricultural and environmental applications. , 2023, , .		0

#	ARTICLE	IF	CITATIONS
554	Self-Assembled Monolayer Patterning for PolySi/SiO <sub>2</sub> Passivated Contacts. , 2023, , .		0