Gleason Kk

List of Publications by Year
in descending order

360 papers	20,607 citations	9234 74 h-index	17055 122 g-index
392 all docs	392 docs citations	392 times ranked	16262 citing authors

#	Article	IF	Citations
1	Superhydrophobic Carbon Nanotube Forests. Nano Letters, 2003, 3, 1701-1705.	4.5	1,527
2	Superhydrophobic Fabrics Produced by Electrospinning and Chemical Vapor Deposition. Macromolecules, 2005, 38, 9742-9748.	2.2	690
3	Chemical Vapor Deposition of Conformal, Functional, and Responsive Polymer Films. Advanced Materials, 2010, 22, 1993-2027.	11.1	329
4	Decorated Electrospun Fibers Exhibiting Superhydrophobicity. Advanced Materials, 2007, 19, 255-259.	11.1	287
5	Initiated and Oxidative Chemical Vapor Deposition of Polymeric Thin Films: iCVD and oCVD. Advanced Functional Materials, 2008, 18, 979-992.	7.8	287
6	Durable and scalable icephobic surfaces: similarities and distinctions from superhydrophobic surfaces. Soft Matter, 2016, 12, 1938-1963.	1.2	272
7	Initiated Chemical Vapor Deposition (iCVD) of Poly(alkyl acrylates):Â An Experimental Study. Macromolecules, 2006, 39, 3688-3694.	2.2	265
8	Surface-Tethered Zwitterionic Ultrathin Antifouling Coatings on Reverse Osmosis Membranes by Initiated Chemical Vapor Deposition. Chemistry of Materials, 2011, 23, 1263-1272.	3.2	244
9	Chemical vapour deposition. Nature Reviews Methods Primers, 2021, 1, .	11.8	244
10	Direct Monolithic Integration of Organic Photovoltaic Circuits on Unmodified Paper. Advanced Materials, 2011, 23, 3500-3505.	11.1	243
11	Stable Dropwise Condensation for Enhancing Heat Transfer via the Initiated Chemical Vapor Deposition (iCVD) of Grafted Polymer Films. Advanced Materials, 2014, 26, 418-423.	11.1	223
12	Determination of mechanical properties of carbon nanotubes and vertically aligned carbon nanotube forests using nanoindentation. Journal of the Mechanics and Physics of Solids, 2003, 51, 2213-2237.	2.3	215
13	Initiated Chemical Vapor Deposition of Linear and Cross-linked Poly(2-hydroxyethyl methacrylate) for Use as Thin-Film Hydrogels. Langmuir, 2005, 21, 8930-8939.	1.6	214
14	Oxidative Chemical Vapor Deposition of Electrically Conducting Poly(3,4-ethylenedioxythiophene) Films. Macromolecules, 2006, 39, 5326-5329.	2.2	211
15	25th Anniversary Article: CVD Polymers: A New Paradigm for Surface Modifi cation and Device Fabrication. Advanced Materials, 2013, 25, 5392-5423.	11.1	211
16	Multiple-Quantum NMR Study of Clustering in Hydrogenated Amorphous Silicon. Physical Review Letters, 1986, 56, 1377-1380.	2.9	209
17	Systematic Control of the Electrical Conductivity of Poly(3,4-ethylenedioxythiophene) via Oxidative Chemical Vapor Deposition. Macromolecules, 2007, 40, 6552-6556.	2.2	196
18	Estimation of critical properties with group contribution methods. AICHE Journal, 1984, 30, 137-142.	1.8	192

#	Article	IF	Citations
19	Polymerâ€Free Nearâ€Infrared Photovoltaics with Single Chirality (6,5) Semiconducting Carbon Nanotube Active Layers. Advanced Materials, 2012, 24, 4436-4439.	11.1	171
20	High electrical conductivity and carrier mobility in oCVD PEDOT thin films by engineered crystallization and acid treatment. Science Advances, 2018, 4, eaat5780.	4.7	167
21	Molecular engineered conjugated polymer with high thermal conductivity. Science Advances, 2018, 4, eaar3031.	4.7	165
22	Initiated Chemical Vapor Deposition (iCVD) of Poly(alkyl acrylates):Â A Kinetic Model. Macromolecules, 2006, 39, 3695-3703.	2.2	161
23	Hot Filament Chemical Vapor Deposition of Poly(glycidyl methacrylate) Thin Films Usingtert-Butyl Peroxide as an Initiator. Langmuir, 2004, 20, 2484-2488.	1.6	156
24	Sub-10-nm patterning via directed self-assembly of block copolymer films with a vapour-phase deposited topcoat. Nature Nanotechnology, 2017, 12, 575-581.	15.6	155
25	CVD of polymeric thin films: applications in sensors, biotechnology, microelectronics/organic electronics, microfluidics, MEMS, composites and membranes. Reports on Progress in Physics, 2012, 75, 016501.	8.1	152
26	Synergistic Prevention of Biofouling in Seawater Desalination by Zwitterionic Surfaces and Lowâ€Level Chlorination. Advanced Materials, 2014, 26, 1711-1718.	11.1	146
27	Initiated Chemical Vapor Deposition of Poly(1H,1H,2H,2H-perfluorodecyl Acrylate) Thin Films. Langmuir, 2006, 22, 10047-10052.	1.6	144
28	Polymeric Nanopore Membranes for Hydrophobicity-Based Separations by Conformal Initiated Chemical Vapor Deposition. Nano Letters, 2011, 11, 677-686.	4.5	138
29	Hydrogen microstructure in amorphous hydrogenated silicon. Physical Review B, 1987, 36, 3259-3267.	1.1	137
30	Initiated and oxidative chemical vapor deposition: a scalable method for conformal and functional polymer films on real substrates. Physical Chemistry Chemical Physics, 2009, 11, 5227.	1.3	136
31	Deterministic Order in Surface Microâ€Topologies through Sequential Wrinkling. Advanced Materials, 2012, 24, 5441-5446.	11.1	132
32	Chain Mobility in the Amorphous Region of Nylon 6 Observed under Active Uniaxial Deformation. Science, 2000, 288, 116-119.	6.0	130
33	Desalination by Membrane Distillation using Electrospun Polyamide Fiber Membranes with Surface Fluorination by Chemical Vapor Deposition. ACS Applied Materials & Interfaces, 2015, 7, 8225-8232.	4.0	130
34	Growth of fluorocarbon polymer thin films with high CF2 fractions and low dangling bond concentrations by thermal chemical vapor deposition. Applied Physics Letters, 1996, 68, 2810-2812.	1.5	127
35	Initiated chemical vapor deposition of antimicrobial polymer coatings. Biomaterials, 2007, 28, 909-915.	5.7	126
36	Designing polymer surfaces via vapor deposition. Materials Today, 2010, 13, 26-33.	8.3	123

#	Article	IF	Citations
37	Flexible fluorocarbon wire coatings by pulsed plasma enhanced chemical vapor deposition. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1997, 15, 1814-1818.	0.9	119
38	Phase transition-induced band edge engineering of BiVO ₄ to split pure water under visible light. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 13774-13778.	3.3	116
39	Random Copolymer Films with Molecularâ€Scale Compositional Heterogeneities that Interfere with Protein Adsorption. Advanced Functional Materials, 2009, 19, 3489-3496.	7.8	115
40	Surface modification of reverse osmosis membranes with zwitterionic coating for improved resistance to fouling. Desalination, 2015, 362, 93-103.	4.0	113
41	A review of heterogeneous nucleation of calcium carbonate and control strategies for scale formation in multi-stage flash (MSF) desalination plants. Desalination, 2018, 442, 75-88.	4.0	108
42	Thin Polymer Films with High Step Coverage in Microtrenches by Initiated CVD. Chemical Vapor Deposition, 2008, 14, 313-318.	1.4	107
43	Ultrathin Antifouling Coatings with Stable Surface Zwitterionic Functionality by Initiated Chemical Vapor Deposition (iCVD). Langmuir, 2012, 28, 12266-12274.	1.6	106
44	Vapor phase oxidative synthesis of conjugated polymers and applications. Journal of Polymer Science, Part B: Polymer Physics, 2012, 50, 1329-1351.	2.4	105
45	Structure and Morphology of Fluorocarbon Films Grown by Hot Filament Chemical Vapor Deposition. Chemistry of Materials, 2000, 12, 3032-3037.	3.2	103
46	Lowâ€Dimensional Conduction Mechanisms in Highly Conductive and Transparent Conjugated Polymers. Advanced Materials, 2015, 27, 4604-4610.	11.1	103
47	Structure and properties of amorphous hydrogenated silicon carbide. Physical Review B, 1987, 36, 9722-9731.	1.1	102
48	Grafted Conducting Polymer Films for Nanoâ€patterning onto Various Organic and Inorganic Substrates by Oxidative Chemical Vapor Deposition. Advanced Materials, 2007, 19, 2863-2867.	11.1	102
49	Initiated Chemical Vapor Deposition (iCVD) of Conformal Polymeric Nanocoatings for the Surface Modification of High-Aspect-Ratio Pores. Chemistry of Materials, 2008, 20, 1646-1651.	3.2	101
50	Pulsed-PECVD Films from Hexamethylcyclotrisiloxane for Use as Insulating Biomaterials. Chemistry of Materials, 2000, 12, 3488-3494.	3.2	99
51	Conformal Coverage of Poly(3,4-ethylenedioxythiophene) Films with Tunable Nanoporosity <i>via</i> Oxidative Chemical Vapor Deposition. ACS Nano, 2008, 2, 1959-1967.	7.3	97
52	Advanced asymmetric supercapacitor based on conducting polymer and aligned carbon nanotubes with controlled nanomorphology. Nano Energy, 2014, 9, 176-185.	8.2	93
53	CVD Polymers for Devices and Device Fabrication. Advanced Materials, 2017, 29, 1604606.	11.1	93
54	Fourier Transform Infrared Investigation of the Deformation Behavior of Montmorillonite in Nylon-6/Nanoclay Nanocomposite. Macromolecules, 2003, 36, 2587-2590.	2.2	89

#	Article	IF	Citations
55	Ultrathin high-resolution flexographic printing using nanoporous stamps. Science Advances, 2016, 2, e1601660.	4.7	89
56	Ultrahighâ€Arealâ€Capacitance Flexible Supercapacitor Electrodes Enabled by Conformal P3MT on Horizontally Aligned Carbonâ€Nanotube Arrays. Advanced Materials, 2019, 31, e1901916.	11.1	89
57	A conformal nano-adhesive via initiated chemical vapor deposition for microfluidic devices. Lab on A Chip, 2009, 9, 411-416.	3.1	88
58	Linker-free grafting of fluorinated polymeric cross-linked network bilayers for durable reduction of ice adhesion. Materials Horizons, 2015, 2, 91-99.	6.4	88
59	Structure and mechanical properties of thin films deposited from 1,3,5-trimethyl-1,3,5-trivinylcyclotrisiloxane and water. Journal of Applied Physics, 2003, 93, 5143-5150.	1.1	87
60	Patterning Nanodomains with Orthogonal Functionalities: Solventless Synthesis of Self-Sorting Surfaces. Journal of the American Chemical Society, 2008, 130, 14424-14425.	6.6	87
61	Combining air recharging and membrane superhydrophobicity for fouling prevention in membrane distillation. Journal of Membrane Science, 2016, 505, 241-252.	4.1	87
62	Conformal, Amine-Functionalized Thin Films by Initiated Chemical Vapor Deposition (iCVD) for Hydrolytically Stable Microfluidic Devices. Chemistry of Materials, 2010, 22, 1732-1738.	3.2	86
63	Conformal, Conducting Poly(3,4-ethylenedioxythiophene) Thin Films Deposited Using Bromine as the Oxidant in a Completely Dry Oxidative Chemical Vapor Deposition Process. Chemistry of Materials, 2010, 22, 2864-2868.	3.2	86
64	Vapor Deposition of Hybrid Organicâ€"Inorganic Dielectric Bragg Mirrors having Rapid and Reversibly Tunable Optical Reflectance. Chemistry of Materials, 2008, 20, 2262-2267.	3.2	85
65	Large-scale initiated chemical vapor deposition of poly(glycidyl methacrylate) thin films. Thin Solid Films, 2006, 515, 1579-1584.	0.8	82
66	Initiated Chemical Vapor Deposition of Trivinyltrimethylcyclotrisiloxane for Biomaterial Coatings. Langmuir, 2006, 22, 7021-7026.	1.6	81
67	Transition between kinetic and mass transfer regimes in the initiated chemical vapor deposition from ethylene glycol diacrylate. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2009, 27, 1135-1143.	0.9	81
68	Organic Solar Cells with Graphene Electrodes and Vapor Printed Poly(3,4-ethylenedioxythiophene) as the Hole Transporting Layers. ACS Nano, 2012, 6, 6370-6377.	7.3	81
69	Design of conformal, substrate-independent surface modification for controlled proteinadsorption by chemical vapor deposition (CVD). Soft Matter, 2012, 8, 31-43.	1.2	80
70	Title is missing!. Plasmas and Polymers, 1999, 4, 21-32.	1.5	79
71	Investigation of polymer and nanoclay orientation distribution in nylon 6/montmorillonite nanocomposite. Polymer, 2004, 45, 5933-5939.	1.8	77
72	Grafted Crystalline Polyâ€Perfluoroacrylate Structures for Superhydrophobic and Oleophobic Functional Coatings. Advanced Materials, 2012, 24, 4534-4539.	11.1	77

#	Article	IF	Citations
73	Polymer Thin Films and Surface Modification by Chemical Vapor Deposition: Recent Progress. Annual Review of Chemical and Biomolecular Engineering, 2016, 7, 373-393.	3.3	77
74	Shortâ€Fluorinated iCVD Coatings for Nonwetting Fabrics. Advanced Functional Materials, 2018, 28, 1707355.	7.8	77
75	Initiated chemical vapor deposition of polyvinylpyrrolidone-based thin films. Polymer, 2006, 47, 6941-6947.	1.8	76
76	Electrochemical investigation of PEDOT films deposited via CVD for electrochromic applications. Synthetic Metals, 2007, 157, 894-898.	2.1	76
77	Particle Surface Design using an All-Dry Encapsulation Method. Advanced Materials, 2006, 18, 1972-1977.	11.1	75
78	Overview of Strategies for the CVD of Organic Films and Functional Polymer Layers. Chemical Vapor Deposition, 2009, 15, 77-90.	1.4	75
79	Combination of iCVD and Porous Silicon for the Development of a Controlled Drug Delivery System. ACS Applied Materials & Interfaces, 2012, 4, 3566-3574.	4.0	75
80	All-Dry Synthesis and Coating of Methacrylic Acid Copolymers for Controlled Release. Macromolecular Bioscience, 2007, 7, 429-434.	2.1	73
81	Synthesis of Poly(4â€vinylpyridine) Thin Films by Initiated Chemical Vapor Deposition (iCVD) for Selective Nanotrenchâ€Based Sensing of Nitroaromatics. Advanced Functional Materials, 2010, 20, 1144-1151.	7.8	70
82	Initiated chemical vapor deposition (iCVD) of polymeric nanocoatings. Surface and Coatings Technology, 2007, 201, 9400-9405.	2.2	69
83	A systematic study of the impact of hydrophobicity on the wetting of MD membranes. Journal of Membrane Science, 2016, 520, 850-859.	4.1	69
84	Grafted Functional Polymer Nanostructures Patterned Bottom-Up by Colloidal Lithography and Initiated Chemical Vapor Deposition (iCVD). Chemistry of Materials, 2009, 21, 742-750.	3.2	68
85	Ultrathin Zwitterionic Coatings for Roughnessâ€Independent Underwater Superoleophobicity and Gravityâ€Driven Oilâ€"Water Separation. Advanced Materials Interfaces, 2015, 2, 1400489.	1.9	68
86	Recent progress on submicron gas-selective polymeric membranes. Journal of Materials Chemistry A, 2017, 5, 8860-8886.	5.2	68
87	Doping level and work function control in oxidative chemical vapor deposited poly (3,4-ethylenedioxythiophene). Applied Physics Letters, 2007, 90, 152112.	1.5	67
88	Perfluorooctane Sulfonyl Fluoride as an Initiator in Hot-Filament Chemical Vapor Deposition of Fluorocarbon Thin Films. Langmuir, 2001, 17, 7652-7655.	1.6	66
89	Hot-Filament Chemical Vapor Deposition of Organosilicon Thin Films from Hexamethylcyclotrisiloxane and Octamethylcyclotetrasiloxane. Journal of the Electrochemical Society, 2001, 148, F212.	1.3	65
90	Device Fabrication Based on Oxidative Chemical Vapor Deposition (oCVD) Synthesis of Conducting Polymers and Related Conjugated Organic Materials. Advanced Materials Interfaces, 2019, 6, 1801564.	1.9	65

#	Article	IF	Citations
91	Pulsed plasma-enhanced chemical vapor deposition from hexafluoropropylene oxide: Film composition study. Journal of Applied Polymer Science, 1998, 67, 1489-1502.	1.3	64
92	Stable Biopassive Insulation Synthesized by Initiated Chemical Vapor Deposition of Poly(1,3,5-trivinyltrimethylcyclotrisiloxane). Biomacromolecules, 2007, 8, 2564-2570.	2.6	63
93	Ultralow Dielectric Constant Tetravinyltetramethylcyclotetrasiloxane Films Deposited by Initiated Chemical Vapor Deposition (iCVD). Advanced Functional Materials, 2010, 20, 607-616.	7.8	63
94	Initiated CVD of Poly(methyl methacrylate) Thin Films. Chemical Vapor Deposition, 2005, 11, 437-443.	1.4	62
95	Vapor-Deposited Fluorinated Glycidyl Copolymer Thin Films with Low Surface Energy and Improved Mechanical Properties. Macromolecules, 2006, 39, 3895-3900.	2.2	60
96	Hot-wire chemical vapor deposition (HWCVD) of fluorocarbon and organosilicon thin films. Thin Solid Films, 2001, 395, 288-291.	0.8	59
97	Making thin polymeric materials, including fabrics, microbicidal and also water-repellent. Biotechnology Letters, 2003, 25, 1661-1665.	1.1	59
98	Protection of Sensors for Biological Applications by Photoinitiated Chemical Vapor Deposition of Hydrogel Thin Films. Biomacromolecules, 2008, 9, 2857-2862.	2.6	59
99	Surface modification of reverse osmosis desalination membranes by thin-film coatings deposited by initiated chemical vapor deposition. Thin Solid Films, 2013, 539, 181-187.	0.8	59
100	Scale-up of oCVD: large-area conductive polymer thin films for next-generation electronics. Materials Horizons, 2015, 2, 221-227.	6.4	59
101	Quantitative correlation of infrared absorption with nuclear magnetic resonance measurements of hydrogen content in diamond films. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1992, 10, 3143-3148.	0.9	58
102	The importance of interfacial design at the carbon nanotube/polymer composite interface. Journal of Applied Polymer Science, 2006, 102, 1413-1418.	1.3	58
103	High Surface Area Flexible Chemiresistive Biosensor by Oxidative Chemical Vapor Deposition. Advanced Functional Materials, 2011, 21, 4328-4337.	7.8	58
104	Controlling the Degree of Crystallinity and Preferred Crystallographic Orientation in Polyâ€Perfluorodecylacrylate Thin Films by Initiated Chemical Vapor Deposition. Advanced Functional Materials, 2012, 22, 2167-2176.	7.8	58
105	oCVD poly(3,4-ethylenedioxythiophene) conductivity and lifetime enhancement via acid rinse dopant exchange. Journal of Materials Chemistry A, 2013, 1, 1334-1340.	5.2	58
106	Selective sensing of volatile organic compounds using novel conducting polymerâ€"metal nanoparticle hybrids. Nanotechnology, 2010, 21, 125503.	1.3	57
107	Responsive Microgrooves for the Formation of Harvestable Tissue Constructs. Langmuir, 2011, 27, 5671-5679.	1.6	57
108	A high performance hybrid asymmetric supercapacitor via nano-scale morphology control of graphene, conducting polymer, and carbon nanotube electrodes. Journal of Materials Chemistry A, 2014, 2, 9964-9969.	5.2	57

#	Article	IF	Citations
109	Nanoscale control by chemically vapour-deposited polymers. Nature Reviews Physics, 2020, 2, 347-364.	11.9	57
110	Single-Step Oxidative Chemical Vapor Deposition of â["]COOH Functional Conducting Copolymer and Immobilization of Biomolecule for Sensor Application. Chemistry of Materials, 2011, 23, 2600-2605.	3.2	56
111	Tuning, optimization, and perovskite solar cell device integration of ultrathin poly(3,4-ethylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10	4.7	56
112	Highly swellable free-standing hydrogel nanotube forests. Soft Matter, 2010, 6, 1635.	1.2	55
113	Bilayer heterojunction polymer solar cells using unsubstituted polythiophene via oxidative chemical vapor deposition. Solar Energy Materials and Solar Cells, 2012, 99, 190-196.	3.0	55
114	Enhanced Optical Property with Tunable Band Gap of Crossâ€linked PEDOT Copolymers via Oxidative Chemical Vapor Deposition. Advanced Functional Materials, 2015, 25, 85-93.	7.8	55
115	Monolithic Flexible Supercapacitors Integrated into Single Sheets of Paper and Membrane via Vapor Printing. Advanced Materials, 2017, 29, 1606091.	11.1	55
116	Pulsed plasma-enhanced chemical vapor deposition from CH2F2, C2H2F4, and CHClF2. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1999, 17, 445-452.	0.9	54
117	Surface-modified reverse osmosis membranes applying a copolymer film to reduce adhesion of bacteria as a strategy for biofouling control. Separation and Purification Technology, 2014, 124, 117-123.	3.9	54
118	NMR characterization of electron beam irradiated vinylidene fluorideâ€"trifluoroethylene copolymers. Journal of Fluorine Chemistry, 2002, 113, 27-35.	0.9	53
119	Plasma-enhanced chemical vapor deposition of low-kdielectric films using methylsilane, dimethylsilane, and trimethylsilane precursors. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2003, 21, 388-393.	0.9	53
120	Fabrication and Characterization of a Porous Silicon Drug Delivery System with an Initiated Chemical Vapor Deposition Temperature-Responsive Coating. Langmuir, 2016, 32, 301-308.	1.6	53
121	Vapor deposition routes to conformal polymer thin films. Beilstein Journal of Nanotechnology, 2017, 8, 723-735.	1.5	53
122	Novel Strategies for the Deposition of ï£¿COOH Functionalized Conducting Copolymer Films and the Assembly of Inorganic Nanoparticles on Conducting Polymer Platforms. Advanced Functional Materials, 2008, 18, 1929-1938.	7.8	52
123	Functionalized, Swellable Hydrogel Layers as a Platform for Cell Studies. Advanced Functional Materials, 2009, 19, 1276-1286.	7.8	51
124	Revealing Amphiphilic Nanodomains of Anti-Biofouling Polymer Coatings. ACS Applied Materials & Interfaces, 2014, 6, 4705-4712.	4.0	51
125	Initiated Chemical Vapor Deposition of Alternating Copolymers of Styrene and Maleic Anhydride. Langmuir, 2007, 23, 6624-6630.	1.6	50
126	Tunable Conformality of Polymer Coatings on High Aspect Ratio Features. Chemical Vapor Deposition, 2010, 16, 100-105.	1.4	50

#	Article	IF	Citations
127	Singleâ€Chamber Deposition of Multilayer Barriers by Plasma Enhanced and Initiated Chemical Vapor Deposition of Organosilicones. Plasma Processes and Polymers, 2010, 7, 561-570.	1.6	50
128	Microworm optode sensors limit particle diffusion to enable in vivo measurements. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 2656-2661.	3.3	50
129	Chemical Bonding Structure of Low Dielectric Constant Si:O:C:H Films Characterized by Solid-State NMR. Journal of the Electrochemical Society, 2005, 152, F7.	1.3	49
130	Non-polydimethylsiloxane devices for oxygen-free flow lithography. Nature Communications, 2012, 3, 805.	5.8	49
131	Heavily Doped poly(3,4â€ethylenedioxythiophene) Thin Films with High Carrier Mobility Deposited Using Oxidative CVD: Conductivity Stability and Carrier Transport. Advanced Functional Materials, 2014, 24, 7187-7196.	7.8	49
132	Texture and nanostructural engineering of conjugated conducting and semiconducting polymers. Materials Today Advances, 2020, 8, 100086.	2.5	49
133	Controllable Cross-Linking of Vapor-Deposited Polymer Thin Films and Impact on Material Properties. Macromolecules, 2013, 46, 1832-1840.	2.2	48
134	Thin Hydrogel Films With Nanoconfined Surface Reactivity by Photoinitiated Chemical Vapor Deposition. Chemistry of Materials, 2009, 21, 399-403.	3.2	47
135	Hierarchical Multifunctional Composites by Conformally Coating Aligned Carbon Nanotube Arrays with Conducting Polymer. ACS Applied Materials & Interfaces, 2009, 1, 2565-2572.	4.0	47
136	Sharp Hydrophilicity Switching and Conformality on Nanostructured Surfaces Prepared via Initiated Chemical Vapor Deposition (iCVD) of a Novel Thermally Responsive Copolymer. Macromolecular Rapid Communications, 2010, 31, 2166-2172.	2.0	47
137	Room Temperature Resistive Volatile Organic Compound Sensing Materials Based on a Hybrid Structure of Vertically Aligned Carbon Nanotubes and Conformal oCVD/iCVD Polymer Coatings. ACS Sensors, 2016, 1, 374-383.	4.0	47
138	Reversing membrane wetting in membrane distillation: comparing dryout to backwashing with pressurized air. Environmental Science: Water Research and Technology, 2017, 3, 930-939.	1.2	47
139	Scalable and durable polymeric icephobic and hydrate-phobic coatings. Soft Matter, 2018, 14, 3443-3454.	1.2	47
140	Electron spin resonance of pulsed plasma-enhanced chemical vapor deposited fluorocarbon films. Journal of Applied Physics, 1997, 82, 1784-1787.	1.1	46
141	Ultra-thin, gas permeable free-standing and composite membranes for microfluidic lung assist devices. Biomaterials, 2011, 32, 3883-3889.	5.7	46
142	Investigation into the Formation and Adhesion of Cyclopentane Hydrates on Mechanically Robust Vapor-Deposited Polymeric Coatings. Langmuir, 2015, 31, 6186-6196.	1.6	46
143	Stable Wettability Control of Nanoporous Microstructures by iCVD Coating of Carbon Nanotubes. ACS Applied Materials & Interfaces, 2017, 9, 43287-43299.	4.0	46
144	Organosilicon Thin Films Deposited from Cyclic and Acyclic Precursors Using Water as an Oxidant. Journal of the Electrochemical Society, 2004, 151, F105.	1.3	45

#	Article	IF	Citations
145	Effect of Substrate Temperature on the Plasma Polymerization of Poly(methyl methacrylate). Chemical Vapor Deposition, 2006, 12, 59-66.	1.4	45
146	Systematic control of the electrical conductivity of poly (3,4-ethylenedioxythiophene) via oxidative chemical vapor deposition (oCVD). Surface and Coatings Technology, 2007, 201, 9406-9412.	2.2	45
147	Photoinitiated Chemical Vapor Deposition of Polymeric Thin Films Using a Volatile Photoinitiator. Langmuir, 2005, 21, 11773-11779.	1.6	44
148	Particle functionalization and encapsulation by initiated chemical vapor deposition (iCVD). Surface and Coatings Technology, 2007, 201, 9189-9194.	2.2	44
149	Grafted Nanofilms Promote Dropwise Condensation of Low-Surface-Tension Fluids for High-Performance Heat Exchangers. Joule, 2019, 3, 1377-1388.	11.7	44
150	Evaluation of diamond films by nuclear magnetic resonance and Raman spectroscopy. Diamond and Related Materials, 1992, 1, 1145-1155.	1.8	43
151	Solventâ€free modification of surfaces with polymers: The case for initiated and oxidative chemical vapor deposition (CVD). AICHE Journal, 2011, 57, 276-285.	1.8	43
152	Surface modification of seawater desalination reverse osmosis membranes: Characterization studies & performance evaluation. Desalination, 2014, 343, 128-139.	4.0	43
153	Designing Durable Vaporâ€Deposited Surfaces for Reduced Hydrate Adhesion. Advanced Materials Interfaces, 2015, 2, 1500003.	1.9	43
154	The effects of iCVD film thickness and conformality on the permeability and wetting of MD membranes. Journal of Membrane Science, 2017, 523, 470-479.	4.1	43
155	Insights into Thin, Thermally Responsive Polymer Layers Through Quartz Crystal Microbalance with Dissipation. Langmuir, 2011, 27, 10691-10698.	1.6	42
156	Enhanced Cross-Linked Density by Annealing on Fluorinated Polymers Synthesized via Initiated Chemical Vapor Deposition To Prevent Surface Reconstruction. Macromolecules, 2013, 46, 6548-6554.	2.2	42
157	Initiation of Cyclic Vinylmethylsiloxane Polymerization in a Hot-Filament Chemical Vapor Deposition Process. Langmuir, 2002, 18, 6424-6428.	1.6	41
158	Insights into Structure and Mechanical Behavior of Î± and Î³ Crystal Forms of Nylon-6 at Low Strain by Infrared Studies. Macromolecules, 2003, 36, 6114-6126.	2.2	41
159	Pulsed plasma enhanced and hot filament chemical vapor deposition of fluorocarbon films. Journal of Fluorine Chemistry, 2000, 104, 119-126.	0.9	40
160	Polymeric nanocoatings by hot-wire chemical vapor deposition (HWCVD). Thin Solid Films, 2006, 501, 211-215.	0.8	40
161	A Directly Patternable, Clickâ€Active Polymer Film via Initiated Chemical Vapor Deposition. Macromolecular Rapid Communications, 2008, 29, 1648-1654.	2.0	40
162	Novel N-isopropylacrylamide based polymer architecture for faster LCST transition kinetics. Polymer, 2011, 52, 4429-4434.	1.8	40

#	Article	IF	Citations
163	The Design and Synthesis of Hard and Impermeable, Yet Flexible, Conformal Organic Coatings. Advanced Materials, 2012, 24, 3692-3696.	11.1	40
164	Chemical Vapor Deposition for Solventâ€Free Polymerization at Surfaces. Macromolecular Chemistry and Physics, 2013, 214, 302-312.	1.1	40
165	A stimuli-responsive coaxial nanofilm for burst release. Soft Matter, 2011, 7, 638-643.	1.2	39
166	Temperature-resolved Fourier transform infrared study of condensation reactions and porogen decomposition in hybrid organosilicon-porogen films. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2004, 22, 61-70.	0.9	38
167	A Mechanistic Study of Initiated Chemical Vapor Deposition of Polymers:â€‰ Analyses of Deposition Rate and Molecular Weight. Macromolecules, 2006, 39, 3890-3894.	2.2	38
168	Optoelectronic properties of polythiophene thin films and organic TFTs fabricated by oxidative chemical vapor deposition. Journal of Materials Chemistry C, 2014, 2, 7223.	2.7	38
169	Hot Filament Chemical Vapor Deposition of Polyoxymethylene as a Sacrificial Layer for Fabricating Air Gaps. Electrochemical and Solid-State Letters, 2001, 4, G81.	2.2	37
170	Surface-Tethered pH-Responsive Hydrogel Thin Films as Size-Selective Layers on Nanoporous Asymmetric Membranes. Chemistry of Materials, 2009, 21, 4323-4331.	3.2	37
171	Oxidative chemical vapor deposition (oCVD) of patterned and functional grafted conducting polymer nanostructures. Journal of Materials Chemistry, 2010, 20, 3968.	6.7	37
172	Organic Vapor Passivation of Silicon at Room Temperature. Advanced Materials, 2013, 25, 2078-2083.	11.1	37
173	A Route Towards Sustainability Through Engineered Polymeric Interfaces. Advanced Materials Interfaces, 2014, 1, 1400117.	1.9	37
174	Growth and characterization of fluorocarbon thin films grown from trifluoromethane (CHF3) using pulsed-plasma enhanced CVD. Journal of Applied Polymer Science, 2000, 78, 842-849.	1.3	36
175	Fluorocarbon dielectrics via hot filament chemical vapor deposition. Journal of Fluorine Chemistry, 2003, 122, 93-96.	0.9	36
176	Effects of condensation reactions on the structural, mechanical, and electrical properties of plasma-deposited organosilicon thin films from octamethylcyclotetrasiloxane. Journal of Applied Physics, 2005, 97, 113707.	1.1	36
177	Paper Electronics: Direct Monolithic Integration of Organic Photovoltaic Circuits on Unmodified Paper (Adv. Mater. 31/2011). Advanced Materials, 2011, 23, 3499-3499.	11.1	36
178	Topâ€illuminated Organic Photovoltaics on a Variety of Opaque Substrates with Vaporâ€printed Poly(3,4â€ethylenedioxythiophene) Top Electrodes and MoO₃ Buffer Layer. Advanced Energy Materials, 2012, 2, 1404-1409.	10.2	36
179	Hybrid supercapacitor materials from poly(3,4-ethylenedioxythiophene) conformally coated aligned carbon nanotubes. Electrochimica Acta, 2013, 112, 522-528.	2.6	36
180	Organic fouling in surface modified reverse osmosis membranes: Filtration studies and subsequent morphological and compositional characterization. Journal of Membrane Science, 2017, 527, 152-163.	4.1	36

#	Article	IF	Citations
181	Surface morphology of PECVD fluorocarbon thin films from hexafluoropropylene oxide, 1,1,2,2-tetrafluoroethane, and difluoromethane. Journal of Applied Polymer Science, 1999, 74, 2439-2447.	1.3	35
182	Thermal Decomposition of Low Dielectric Constant Pulsed Plasma Fluorocarbon Films: I. Effect of Precursors and Substrate Temperature. Journal of the Electrochemical Society, 1999, 146, 4590-4596.	1.3	35
183	Variable angle spectroscopic ellipsometry of fluorocarbon films from hot filament chemical vapor deposition. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2000, 18, 2404.	0.9	35
184	Density Functional Theory Calculation of29Si NMR Chemical Shifts of Organosiloxanes. Journal of Physical Chemistry B, 2005, 109, 13605-13610.	1.2	35
185	Nanoscale, conformal polysiloxane thin film electrolytes for three-dimensional battery architectures. Materials Horizons, 2015, 2, 309-314.	6.4	34
186	Surface modification of reverse osmosis membranes with zwitterionic coatings: A potential strategy for control of biofouling. Surface and Coatings Technology, 2015, 279, 171-179.	2.2	34
187	Metalâ€"Organic Covalent Network Chemical Vapor Deposition for Gas Separation. Advanced Materials, 2016, 28, 7479-7485.	11.1	34
188	Towards all-dry lithography: Electron-beam patternable poly(glycidyl methacrylate) thin films from hot filament chemical vapor deposition. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2004, 22, 2473.	1.6	33
189	Trimming of microring resonators by photo-oxidation of a plasma-polymerized organosilane cladding material. Optics Letters, 2005, 30, 2251.	1.7	33
190	Initiated PECVD of Organosilicon Coatings: A New Strategy to Enhance Monomer Structure Retention. Plasma Processes and Polymers, 2012, 9, 425-434.	1.6	33
191	Chemical Vapor Deposition of Organosilicon Thin Films from Methylmethoxysilanes. Plasma Processes and Polymers, 2005, 2, 679-687.	1.6	32
192	Initiated Chemical Vapor Deposition of a Surfaceâ€Modifiable Copolymer for Covalent Attachment and Patterning of Nucleophilic Ligands. Macromolecular Rapid Communications, 2007, 28, 1877-1882.	2.0	32
193	Global and local planarization of surface roughness by chemical vapor deposition of organosilicon polymer for barrier applications. Journal of Applied Physics, 2012, 111, 073516.	1.1	32
194	Systematic control of mesh size in hydrogels by initiated chemical vapor deposition. Soft Matter, 2012, 8, 2890.	1.2	32
195	High-Resolution 19F MAS NMR Spectroscopy of Fluorocarbon Films from Pulsed PECVD of Hexafluoropropylene Oxide. Journal of Physical Chemistry B, 1998, 102, 5977-5984.	1.2	31
196	Positive-Tone Nanopatterning of Chemical Vapor Deposited Polyacrylic Thin Films. Langmuir, 2006, 22, 1795-1799.	1.6	31
197	Conformal Polymeric Thin Films by Low-Temperature Rapid Initiated Chemical Vapor Deposition (iCVD) Using <i>tert</i>-Butyl Peroxybenzoate as an Initiator. ACS Applied Materials & Interfaces, 2011, 3, 2410-2416.	4.0	31
198	Initiated Chemical Vapor Depositionâ€Based Method for Patterning Polymer and Metal Microstructures on Curved Substrates. Advanced Materials, 2012, 24, 6445-6450.	11.1	31

#	Article	IF	Citations
199	Cross-Linking and Ultrathin Grafted Gradation of Fluorinated Polymers Synthesized via Initiated Chemical Vapor Deposition To Prevent Surface Reconstruction. Langmuir, 2014, 30, 14189-14194.	1.6	31
200	Thermochemistry of gas phase CF2 reactions: A density functional theory study. Journal of Chemical Physics, 2000, 113, 4103-4108.	1.2	30
201	Time resolved ultraviolet absorption spectroscopy of pulsed fluorocarbon plasmas. Journal of Applied Physics, 2001, 89, 915-922.	1.1	30
202	Air-Gap Fabrication Using a Sacrificial Polymeric Thin Film Synthesized via Initiated Chemical Vapor Deposition. Journal of the Electrochemical Society, 2006, 153, C223.	1.3	30
203	Combinatorial Initiated CVD for Polymeric Thin Films. Chemical Vapor Deposition, 2006, 12, 685-691.	1.4	30
204	Initiated chemical vapour deposition (iCVD) of thermally stable poly-glycidyl methacrylate. Surface and Coatings Technology, 2007, 201, 9422-9425.	2.2	30
205	Flexible Cross-Linked Organosilicon Thin Films by Initiated Chemical Vapor Deposition. Macromolecules, 2009, 42, 8138-8145.	2.2	30
206	The application of oxidative chemical vapor deposited (oCVD) PEDOT to textured and non-planar photovoltaic device geometries for enhanced light trapping. Organic Electronics, 2013, 14, 2257-2268.	1.4	29
207	Solventless Surface Photoinitiated Polymerization:â€‰ Grafting Chemical Vapor Deposition (gCVD). Macromolecules, 2007, 40, 4586-4591.	2.2	28
208	Tailoring Thickness of Conformal Conducting Polymer Decorated Aligned Carbon Nanotube Electrodes for Energy Storage. Advanced Materials Interfaces, 2014, 1, 1400076.	1.9	28
209	Low Substrate Temperature Encapsulation for Flexible Electrodes and Organic Photovoltaics. Advanced Energy Materials, 2015, 5, 1401442.	10.2	28
210	iCVD Cyclic Polysiloxane and Polysilazane as Nanoscale Thin-Film Electrolyte: Synthesis and Properties. Macromolecular Rapid Communications, 2016, 37, 446-452.	2.0	28
211	Tunable polytetrafluoroethylene electret films with extraordinary charge stability synthesized by initiated chemical vapor deposition for organic electronics applications. Scientific Reports, 2019, 9, 2237.	1.6	28
212	Initiated chemical vapor deposition (iCVD) of copolymer thin films. Thin Solid Films, 2008, 516, 678-680.	0.8	27
213	Cross-Linked Organic Sacrificial Material for Air Gap Formation by Initiated Chemical Vapor Deposition. Journal of the Electrochemical Society, 2008, 155, G78.	1.3	27
214	Low band gap conformal polyselenophene thin films by oxidative chemical vapor deposition. Journal of Materials Chemistry, 2012, 22, 405-410.	6.7	27
215	Biaxially Mechanical Tuning of 2-D Reversible and Irreversible Surface Topologies through Simultaneous and Sequential Wrinkling. ACS Applied Materials & Interfaces, 2014, 6, 2850-2857.	4.0	27
216	A Group of Cyclic Siloxane and Silazane Polymer Films as Nanoscale Electrolytes for Microbattery Architectures. Macromolecules, 2015, 48, 5222-5229.	2.2	27

#	Article	IF	Citations
217	Structural Correlation Study of Pulsed Plasma-Polymerized Fluorocarbon Solids by Two-Dimensional Wide-Line Separation NMR Spectroscopy. Journal of Physical Chemistry B, 1997, 101, 6839-6846.	1.2	26
218	Initiated Chemical Vapor Deposition of Poly(furfuryl methacrylate). Macromolecular Rapid Communications, 2007, 28, 2205-2209.	2.0	26
219	Stabilizing the Wettability of Initiated Chemical Vapor Deposited (iCVD) Polydivinylbenzene Thin Films by Thermal Annealing. Advanced Materials Interfaces, 2017, 4, 1700270.	1.9	26
220	Hydrogen in Cvd Diamond Films. Chemical Vapor Deposition, 1996, 2, 37-43.	1.4	25
221	Analytical Solutions for Multiple-Quantum-Coherence Dynamics among Two or Three Dipolar-Coupled, Spin-12 Nuclei. Journal of Magnetic Resonance Series A, 1996, 120, 139-147.	1.6	25
222	Deuterium Nuclear Magnetic Resonance of Phenol-d5in Nylon 6 under Active Uniaxial Deformation. Macromolecules, 1999, 32, 4359-4364.	2.2	25
223	Cathode buffer layers based on vacuum and solution deposited poly(3,4-ethylenedioxythiophene) for efficient inverted organic solar cells. Applied Physics Letters, 2012, 100, .	1.5	25
224	Functionalizable and electrically conductive thin films formed by oxidative chemical vapor deposition (oCVD) from mixtures of 3-thiopheneethanol (3TE) and ethylene dioxythiophene (EDOT). Journal of Materials Chemistry C, 2016, 4, 3403-3414.	2.7	25
225	Title is missing!. Plasmas and Polymers, 2003, 8, 31-41.	1.5	24
226	Efficient, Flexible, and Ultraâ€Lightweight Inverted PbS Quantum Dots Solar Cells on Allâ€CVDâ€Growth of Parylene/Graphene/oCVD PEDOT Substrate with High Powerâ€perâ€Weight. Advanced Materials Interfaces, 2020, 7, 2000498.	1.9	24
227	Optimizing the Optoelectronic Properties of Faceâ€On Oriented Poly(3,4â€Ethylenedioxythiophene) via Waterâ€Assisted Oxidative Chemical Vapor Deposition. Advanced Functional Materials, 2021, 31, 2008712.	7.8	24
228	Fluorocarbonâ^'Organosilicon Copolymer Synthesis by Hot Filament Chemical Vapor Deposition. Macromolecules, 2002, 35, 1967-1972.	2.2	23
229	Characterization of the phase transitions of ethyl substituted polyhedral oligomeric silsesquioxane. Thermochimica Acta, 2005, 438, 116-125.	1.2	23
230	Zwitterionic Antifouling Coatings for the Purification of High-Salinity Shale Gas Produced Water. Langmuir, 2015, 31, 11895-11903.	1.6	23
231	Small-Area, Resistive Volatile Organic Compound (VOC) Sensors Using Metalâ€"Polymer Hybrid Film Based on Oxidative Chemical Vapor Deposition (oCVD). ACS Applied Materials & Interfaces, 2015, 7, 16213-16222.	4.0	23
232	Oxidative Chemical Vapor Deposition of Neutral Hole Transporting Polymer for Enhanced Solar Cell Efficiency and Lifetime. Advanced Materials, 2016, 28, 6399-6404.	11.1	23
233	Fundamental nanoscale surface strategies for robustly controlling heterogeneous nucleation of calcium carbonate. Journal of Materials Chemistry A, 2019, 7, 17242-17247.	5.2	23
234	Humidityâ€Initiated Gas Sensors for Volatile Organic Compounds Sensing. Advanced Functional Materials, 2021, 31, 2101310.	7.8	23

#	Article	IF	Citations
235	Computer-simulation of the multiple-quantum dynamics of one-, two- and three-dimensional spin distributions. Chemical Physics, 1992, 166, 367-378.	0.9	22
236	Fourier transform infrared spectroscopy of effluents from pulsed plasmas of 1,1,2,2-tetrafluoroethane, hexafluoropropylene oxide, and difluoromethane. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1999, 17, 3419-3428.	0.9	22
237	Thermal Annealing of Fluorocarbon Films Grown by Hot Filament Chemical Vapor Deposition. Journal of Physical Chemistry B, 2001, 105, 2303-2307.	1.2	22
238	Pulsed plasma deposition from 1,1,2,2-tetrafluoroethane by electron cyclotron resonance and conventional plasma enhanced chemical vapor deposition. Journal of Applied Polymer Science, 2001, 80, 2084-2092.	1.3	22
239	Chemical vapour deposition of metalloporphyrins: a simple route towards the preparation of gas separation membranes. Journal of Materials Chemistry A, 2016, 4, 18144-18152.	5.2	22
240	Growth Temperature and Electrochemical Performance in Vapor-Deposited Poly(3,4-ethylenedioxythiophene) Thin Films for High-Rate Electrochemical Energy Storage. ACS Applied Energy Materials, 2018, 1, 7093-7105.	2.5	22
241	Ultrathin Conformal oCVD PEDOT Coatings on Carbon Electrodes Enable Improved Performance of Redox Flow Batteries. Advanced Materials Interfaces, 2020, 7, 2000855.	1.9	22
242	Analysis of fluorocarbon plasma-treated diamond powders by solid-state fluorine-19 nuclear magnetic resonance. The Journal of Physical Chemistry, 1993, 97, 9187-9195.	2.9	21
243	A Chemical Engineering Perspective on â€œViews on Macroscopic Kinetics of Plasma Polymerisationâ€• Plasma Processes and Polymers, 2010, 7, 380-381.	1.6	21
244	Super-Hydrophobic and Oloephobic Crystalline Coatings by Initiated Chemical Vapor Deposition. Physics Procedia, 2013, 46, 56-61.	1.2	21
245	Dynamics of Liquid Transfer from Nanoporous Stamps in High-Resolution Flexographic Printing. Langmuir, 2019, 35, 7659-7671.	1.6	21
246	Photosensitive salt distribution in polymer films studied by fluorine-19 multiple-quantum NMR. Macromolecules, 1992, 25, 1864-1869.	2.2	20
247	Integration of Reactive Polymeric Nanofilms Into a Low-Power Electromechanical Switch for Selective Chemical Sensing. Journal of Microelectromechanical Systems, 2009, 18, 97-102.	1.7	20
248	Initiated Chemical Vapor Deposition and Lightâ€Responsive Crossâ€Linking of Poly(vinyl cinnamate) Thin Films. Macromolecular Rapid Communications, 2014, 35, 1345-1350.	2.0	20
249	Waterâ€Assisted Vapor Deposition of PEDOT Thin Film. Macromolecular Rapid Communications, 2015, 36, 1283-1289.	2.0	20
250	Poly(dimethylsiloxane)/Nylon-6 Block Copolymers: Molecular Mobility at the Interface. Macromolecules, 1995, 28, 4899-4903.	2.2	19
251	Characterization of Chemical Vapor Deposited Amorphous Fluorocarbons for Low Dielectric Constant Interlayer Dielectrics. Journal of the Electrochemical Society, 1999, 146, 2219-2224.	1.3	19
252	Grafted polymeric nanostructures patterned bottomâ€“up by colloidal lithography and initiated chemical vapor deposition (iCVD). Thin Solid Films, 2009, 517, 3615-3618.	0.8	19

#	Article	IF	Citations
253	Surface modification of high aspect ratio structures with fluoropolymer coatings using chemical vapor deposition. Thin Solid Films, 2009, 517, 3547-3550.	0.8	19
254	Closed Batch Initiated Chemical Vapor Deposition of Ultrathin, Functional, and Conformal Polymer Films. Langmuir, 2014, 30, 4830-4837.	1.6	19
255	Ultrathin and Conformal Initiated Chemical-Vapor-Deposited Layers of Systematically Varied Surface Energy for Controlling the Directed Self-Assembly of Block CoPolymers. Langmuir, 2018, 34, 4494-4502.	1.6	19
256	Superhydrophobic 3D Porous PTFE/TiO₂ Hybrid Structures. Advanced Materials Interfaces, 2019, 6, 1801967.	1.9	19
257	Micro-/Nanoscale Approach for Studying Scale Formation and Developing Scale-Resistant Surfaces. ACS Applied Materials & Interfaces, 2019, 11, 7330-7337.	4.0	19
258	Toward three-dimensional hybrid inorganic/organic optoelectronics based on GaN/oCVD-PEDOT structures. Nature Communications, 2020, 11, 5092.	5.8	19
259	Controlled Release Utilizing Initiated Chemical Vapor Deposited (iCVD) of Polymeric Nanolayers. Frontiers in Bioengineering and Biotechnology, 2021, 9, 632753.	2.0	19
260	Pyrolytic CVD of poly(organosiloxane) thin films. Chemical Vapor Deposition, 1997, 3, 299-301.	1.4	18
261	Pulsed Plasma Enhanced Chemical Vapor Deposition from CH₂F₂, C₂H₂F₄, and CHCIF₂. Materials Research Society Symposia Proceedings, 1998, 511, 75.	0.1	18
262	Positive- and Negative-Tone CVD Polyacrylic Electron-Beam Resists Developable by Supercritical CO2. Chemical Vapor Deposition, 2006, 12, 259-262.	1.4	18
263	Initiated chemical vapor deposition of responsive polymeric surfaces. Thin Solid Films, 2011, 519, 4412-4414.	0.8	18
264	Increasing biosensor response through hydrogel thin film deposition: Influence of hydrogel thickness. Vacuum, 2012, 86, 2102-2104.	1.6	18
265	Chemically vapor deposited polymer nanolayers for rapid and controlled permeation of molecules and ions. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2020, 38, .	0.9	18
266	Distribution and motion of trifluoromethanesulfonate anions in poly(p-hydroxystyrene) and polystyrene films studied by multiple-quantum NMR. Macromolecules, 1993, 26, 3750-3757.	2.2	17
267	The use of for new structure determination in the radiolysis of FEP. Nuclear Instruments & Methods in Physics Research B, 2001, 185, 83-87.	0.6	17
268	A directly patternable click-active polymer film via initiated chemical vapor deposition (iCVD). Thin Solid Films, 2009, 517, 3606-3611.	0.8	17
269	Random copolymer films as potential antifouling coatings for reverse osmosis membranes. Desalination and Water Treatment, 2011, 34, 100-105.	1.0	17
270	Tunable Low Bandgap Polyisothianaphthene via Oxidative Chemical Vapor Deposition. Macromolecules, 2013, 46, 6169-6176.	2.2	17

#	Article	IF	Citations
271	Correlation Times of Motion of Deuterium Oxide in Polyamide 6 Rods. Macromolecules, 1998, 31, 8907-8911.	2.2	16
272	Initiated chemical vapor deposition of perfectly alternating poly(styrene-alt-maleic anhydride). Surface and Coatings Technology, 2007, 201, 9417-9421.	2.2	16
273	Initiated chemical vapor deposition of polymer films on nonplanar substrates. Thin Solid Films, 2009, 517, 3536-3538.	0.8	16
274	Molecular fouling resistance of zwitterionic and amphiphilic initiated chemically vapor-deposited (iCVD) thin films. Journal of Biomaterials Science, Polymer Edition, 2014, 25, 1687-1702.	1.9	16
275	Chemical Vapor Deposition of Thin, Conductive, and Fouling-Resistant Polymeric Films. Langmuir, 2017, 33, 10623-10631.	1.6	16
276	Thermal Stability of Acrylic/Methacrylic Sacrificial Copolymers Fabricated by Initiated Chemical Vapor Deposition. Journal of the Electrochemical Society, 2010, 157, D41.	1.3	15
277	Air-stable polythiophene-based thin film transistors processed using oxidative chemical vapor deposition: Carrier transport and channel/metallization contact interface. Organic Electronics, 2016, 33, 253-262.	1.4	15
278	Ultraviolet absorption measurements of CF2in the parallel plate pyrolytic chemical vapour deposition process. Journal Physics D: Applied Physics, 2002, 35, 480-486.	1.3	14
279	Enthalpies of Formation and Reaction for Primary Reactions of Methyl- and Methylmethoxysilanes from Density Functional Theory. Plasma Processes and Polymers, 2005, 2, 669-678.	1.6	14
280	Initiated chemical vapor deposition of biopassivation coatings. Thin Solid Films, 2008, 516, 684-686.	0.8	14
281	Selfâ€Aligned Micropatterns of Bifunctional Polymer Surfaces with Independent Chemical and Topographical Contrast. Macromolecular Rapid Communications, 2010, 31, 735-739.	2.0	14
282	Multijunction organic photovoltaics with a broad spectral response. Physical Chemistry Chemical Physics, 2012, 14, 14548.	1.3	14
283	1H NMR studies on the effects of annealing on chemical-vapor-deposited (CVD) diamond. Diamond and Related Materials, 1993, 2, 126-129.	1.8	13
284	Radial distribution of hydrogen in chemical vapor deposited diamond. Chemistry of Materials, 1994, 6, 39-43.	3.2	13
285	Thermal Decomposition of Low Dielectric Constant Pulsed Plasma Fluorocarbon Films: II. Effect of Postdeposition Annealing and Ambients. Journal of the Electrochemical Society, 1999, 146, 4597-4604.	1.3	13
286	Fourier Transform Infrared Spectroscopy Study of Thermal Annealing Behavior of ECR Pulsed Plasma Deposited Fluorocarbon Thin Films from 1,1,2,2-Tetrafluoroethane. Journal of the Electrochemical Society, 2000, 147, 678.	1.3	13
287	Enhancement of mechanical properties of organosilicon thin films deposited from diethylsilane. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2005, 23, 465-469.	0.9	13
288	Nanoporous Organosilicate Glass Films via Chemical Vapor Deposition onto Colloidal Crystal Templates. Plasma Processes and Polymers, 2005, 2, 401-406.	1.6	13

#	Article	IF	Citations
289	Additively Patterned Polymer Thin Films by Photo-Initiated Chemical Vapor Deposition (piCVD). Chemistry of Materials, 2007, 19, 5836-5838.	3.2	13
290	Initiated chemical vapor deposition of a siloxane coating for insulation of neural probes. Thin Solid Films, 2009, 517, 3612-3614.	0.8	13
291	Co-polymer clad design for high performance athermal photonic circuits. Optics Express, 2012, 20, 20808.	1.7	13
292	Mechanics of Graded Wrinkling. Journal of Applied Mechanics, Transactions ASME, 2016, 83, .	1.1	13
293	Enhancing Performance Stability of Electrochemically Active Polymers by Vaporâ€Deposited Organic Networks. Advanced Functional Materials, 2018, 28, 1706028.	7.8	13
294	Optical emission spectroscopy of pulsed hexalfuoropropylene oxide and tetrafluoroethylene plasmas. Journal of Applied Physics, 2002, 91, 9547.	1.1	12
295	The CVD of Nanocomposites Fabricated via Ultrasonic Atomization. Chemical Vapor Deposition, 2006, 12, 225-230.	1.4	12
296	iCVD growth of poly(N-vinylimidazole) and poly(N-vinylimidazole-co-N-vinylpyrrolidone). Thin Solid Films, 2009, 517, 3539-3542.	0.8	12
297	Assessment by Ames test and comet assay of toxicity potential of polymer used to develop field-capable rapid-detection device to analyze environmental samples. Applied Nanoscience (Switzerland), 2015, 5, 763-769.	1.6	12
298	Solvent-Less Vapor-Phase Fabrication of Membranes for Sustainable Separation Processes. Engineering, 2020, 6, 1432-1442.	3.2	12
299	Effects of polymeric motion on fluorine-19 NMR multiple quantum coherences: signal refocusing in poly(tetrafluoroethylene). Macromolecules, 1993, 26, 4652-4657.	2.2	11
300	Relationship of CF[sub 2] concentration to deposition rates in the pyrolytic chemical vapor deposition process. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2002, 20, 690.	1.6	11
301	Combinatorial initiated chemical vapor deposition (iCVD) for polymer thin film discovery. Thin Solid Films, 2008, 516, 681-683.	0.8	11
302	Shape Memory Polymer Thin Films Deposited by Initiated Chemical Vapor Deposition. Macromolecules, 2010, 43, 8344-8347.	2.2	11
303	Synthesis of surface-anchored stable zwitterionic films for inhibition of biofouling. Materials Chemistry and Physics, 2020, 239, 121971.	2.0	11
304	Effect of filament temperature on the chemical vapor deposition of fluorocarbon-organosilicon copolymers. Journal of Applied Polymer Science, 2004, 91, 2176-2185.	1.3	10
305	Peptide Attachment to Vapor Deposited Polymeric Thin Films. Langmuir, 2004, 20, 4774-4776.	1.6	10
306	Crosslinking of copolymer thin films by initiated chemical vapor deposition for hydrogel applications. Thin Solid Films, 2009, 517, 3543-3546.	0.8	10

#	Article	IF	Citations
307	Synthesis of polymer bead nano-necklaces on aligned carbon nanotube scaffolds. Nanotechnology, 2017, 28, 24LT01.	1.3	10
308	Nanostructured Unsubstituted Polythiophene Films Deposited Using Oxidative Chemical Vapor Deposition: Hopping Conduction and Thermal Stability. Advanced Materials Interfaces, 2018, 5, 1701513.	1.9	10
309	Solidâ€State Nuclear Magnetic Resonance Spectroscopy of Low Dielectric Constant Films from Pulsed Hydrofluorocarbon Plasmas. Journal of the Electrochemical Society, 1999, 146, 2652-2658.	1.3	9
310	Mechanically robust silica-like coatings deposited by microwave plasmas for barrier applications. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2012, 30, 061502.	0.9	9
311	High aspect ratio, functionalizable conducting copolymer nanobundles. Journal of Materials Chemistry, 2012, 22, 17147.	6.7	9
312	Gas Selective Ultrathin Organic Covalent Networks Synthesized by iPECVD: Does the Central Metal Ion Matter?. Advanced Functional Materials, 2017, 27, 1606652.	7.8	9
313	Fabrication of a Microscale Device for Detection of Nitroaromatic Compounds. Journal of Microelectromechanical Systems, 2013, 22, 54-61.	1.7	8
314	Photovoltaic effect by vapor-printed polyselenophene. Organic Electronics, 2015, 26, 55-60.	1.4	8
315	Hall of Fame Article: Device Fabrication Based on Oxidative Chemical Vapor Deposition (oCVD) Synthesis of Conducting Polymers and Related Conjugated Organic Materials (Adv. Mater. Interfaces) Tj ETQq1 1 0.784314 rgBT /Overlo	1.9	8
316	Controlled formation of Schottky diodes on n-doped ZnO layers by deposition of p-conductive polymer layers with oxidative chemical vapor deposition. Nano Express, 2020, 1, 010013.	1.2	8
317	Tunable waveguides via photo-oxidation of plasma-polymerized organosilicon films. Applied Optics, 2005, 44, 1691.	2.1	7
318	Applying HWCVD to particle coatings and modeling the deposition mechanism. Thin Solid Films, 2008, 516, 674-677.	0.8	7
319	Grafting CVD of Poly(vinyl pyrrolidone) for Durable Scleral Lens Coatings. Chemical Vapor Deposition, 2010, 16, 23-28.	1.4	7
320	Solvent-free surface modification by initiated chemical vapor deposition to render plasma bonding capabilities to surfaces. Microfluidics and Nanofluidics, 2012, 12, 835-839.	1.0	7
321	Multiple-quantum NMR coherence growth in polycrystalline salts containing 19F. Journal of Magnetic Resonance, 1992, 99, 149-160.	0.5	6
322	Structure and Morphology of Poly(isobenzofuran) Films Grown by Hot-Filament Chemical Vapor Deposition. Chemistry of Materials, 2006, 18, 6339-6344.	3.2	6
323	Nano-patterning of an iCVD polymer, followed by covalent attachment of QDs. Thin Solid Films, 2009, 517, 3619-3621.	0.8	6
324	Conformal single-layer encapsulation of PEDOT at low substrate temperature. Applied Surface Science, 2014, 323, 2-6.	3.1	6

#	Article	IF	Citations
325	Organic passivation of silicon through multifunctional polymeric interfaces. Solar Energy Materials and Solar Cells, 2017, 160, 470-475.	3.0	6
326	Recent Progress in Conjugated Conducting and Semiconducting Polymers for Energy Devices. Energies, 2022, 15, 3661.	1.6	6
327	Applications of solid-state multiple quantum NMR. TrAC - Trends in Analytical Chemistry, 1995, 14, 104-112.	5.8	5
328	Preliminary Electrical Characterization of Pulsed-Plasma Enhanced Chemical Vapor Deposited Teflon-like Thin Films. Materials Research Society Symposia Proceedings, 1996, 443, 189.	0.1	5
329	Room Temperature Sensing Achieved by GaAs Nanowires and oCVD Polymer Coating. Macromolecular Rapid Communications, 2017, 38, 1700055.	2.0	5
330	Design of Ordered Wrinkled Patterns with Dynamically Tuned Properties. Physics Procedia, 2013, 46, 40-45.	1.2	4
331	Polymeric Interfaces: A Route Towards Sustainability Through Engineered Polymeric Interfaces (Adv.) Tj ETQq1 1 0.784314 rgBT /Overlo	1.9	4
332	The role of proton nuclear magnetic resonance spinâ€lattice relaxation centers in the strong absorption transition at 210 nm in fused silica. Journal of Applied Physics, 1994, 76, 3063-3067.	1.1	3
333	Growth Rate and Cross-Linking Kinetics of Poly(divinyl benzene) Thin Films Formed via Initiated Chemical Vapor Deposition. Langmuir, 2018, 34, 6687-6696.	1.6	3
334	Ultrathin initiated chemical vapor deposition polymer interfacial energy control for directed self-assembly hole-shrink applications. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2019, 37, 061804.	0.6	3
335	VAPOR DEPOSITION OF BIOPASSIVATION COATINGS FOR NEUROPROSTHESES. Series on Bioengineering and Biomedical Engineering, 2004, , 580-591.	0.1	3
336	Application of proton multiple-quantum NMR to the study of dynamics in bulk chloral polycarbonate. Journal of Polymer Science, Part B: Polymer Physics, 1994, 32, 2235-2240.	2.4	2
337	Stress relaxation of polyisoprene-laponite nanocomposites monitored by magic angle spinning1H NMR and optical microscopy. Polymer Composites, 2005, 26, 799-805.	2.3	2
338	Multi-Scale Grafted Polymeric Nanostructures Patterned Bottom-Up by Colloidal Lithography and Initiated Chemical Vapor Deposition (iCVD). Materials Research Society Symposia Proceedings, 2008, 1134, 1.	0.1	2
339	Functional Nanotube Membranes for Hydrophobicity-Based Separations by Initiated Chemical Vapor Deposition (iCVD). ACS Symposium Series, 2011, , 39-50.	0.5	2
340	Surface Micropatterning: Deterministic Order in Surface Micro-Topologies through Sequential Wrinkling (Adv. Mater. 40/2012). Advanced Materials, 2012, 24, 5440-5440.	11.1	2
341	Fluoropolymers by initiated chemical vapor deposition (iCVD). , 2020, , 113-135.		2
342	Waterâ€Assisted Growth: Optimizing the Optoelectronic Properties of Faceâ€On Oriented Poly(3,4â€Ethylenedioxythiophene) via Waterâ€Assisted Oxidative Chemical Vapor Deposition (Adv. Funct.) Tj ETQq0 0 0 rgBT /Overlock	7.8	2

#	Article	IF	Citations
343	Synthesis of Insulating and Semiconducting Polymer Films via Initiated Chemical Vapor Deposition. Nanoscience and Nanotechnology Letters, 2015, 7, 33-38.	0.4	2
344	Method for achieving high selectivity and resolution in selectively deposited diamond films. Diamond and Related Materials, 1996, 5, 1048-1050.	1.8	1
345	Static uniaxial compression of polyisoprene-montmorillonite nanocomposites monitored by1H spin-lattice relaxation time constants. Journal of Applied Polymer Science, 2005, 98, 1806-1813.	1.3	1
346	Conjugated Polymers: Low-Dimensional Conduction Mechanisms in Highly Conductive and Transparent Conjugated Polymers (Adv. Mater. 31/2015). Advanced Materials, 2015, 27, 4664-4664.	11.1	1
347	Organic Photovoltaic Devices: Low Substrate Temperature Encapsulation for Flexible Electrodes and Organic Photovoltaics (Adv. Energy Mater. 6/2015). Advanced Energy Materials, 2015, 5, .	10.2	1
348	Oxidative Chemical Vapor Deposition: Nanostructured Unsubstituted Polythiophene Films Deposited Using Oxidative Chemical Vapor Deposition: Hopping Conduction and Thermal Stability (Adv. Mater.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	1.9	1
349	Conjugated polymers for flexible energy harvesting and storage devices. , 2022, , 283-311.		1
350	Using Zeolites as Substrates for Diamond Thin Film Deposition. Materials Research Society Symposia Proceedings, 1993, 317, 523.	0.1	0
351	Dynamics of Crystalline and Amorphous Polytetrafluoroethylene Studied by Multiple Quantum NMR. Materials Research Society Symposia Proceedings, 1993, 321, 155.	0.1	0
352	Mass Transport Effects In Selectively Deposited Diamond Thin Films. Materials Research Society Symposia Proceedings, 1995, 416, 25.	0.1	0
353	Characterizations of Boron Carbon Nitride and Boron Carbide Films Synthesized by PECVD. Materials Research Society Symposia Proceedings, 2008, 1108, 1.	0.1	0
354	Special Issue on CVD and Polymeric Materials. Chemical Vapor Deposition, 2009, 15, 75-76.	1.4	0
355	Patterning nano-domains with orthogonal functionalities: Solventless synthesis of self-sorting surfaces. , 2009, , .		0
356	Nano Fracture Chemical Sensor for Explosives Detection. , 2010, , .		0
357	Biosensors: High Surface Area Flexible Chemiresistive Biosensor by Oxidative Chemical Vapor Deposition (Adv. Funct. Mater. 22/2011). Advanced Functional Materials, 2011, 21, 4327-4327.	7.8	0
358	Thin Films: Organic Vapor Passivation of Silicon at Room Temperature (Adv. Mater. 14/2013). Advanced Materials, 2013, 25, 2077-2077.	11.1	0
359	Gas Separation: Metalâ€“Organic Covalent Network Chemical Vapor Deposition for Gas Separation (Adv.) Tj ETQq1 1 0.784314 rgBT /O	11.1	0
360	Superhydrophobic Surfaces: Superhydrophobic 3D Porous PTFE/TiO2 Hybrid Structures (Adv. Mater.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	1.9	0