Gleason Kk

List of Publications by Year
in descending order

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360 papers	20,607 citations	9264 74 h-index	17105 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.	9.1	1,527
2	Superhydrophobic Fabrics Produced by Electrospinning and Chemical Vapor Deposition. Macromolecules, 2005, 38, 9742-9748.	4.8	690
3	Chemical Vapor Deposition of Conformal, Functional, and Responsive Polymer Films. Advanced Materials, 2010, 22, 1993-2027.	21.0	329
4	Decorated Electrospun Fibers Exhibiting Superhydrophobicity. Advanced Materials, 2007, 19, 255-259.	21.0	287
5	Initiated and Oxidative Chemical Vapor Deposition of Polymeric Thin Films: iCVD and oCVD. Advanced Functional Materials, 2008, 18, 979-992.	14.9	287
6	Durable and scalable icephobic surfaces: similarities and distinctions from superhydrophobic surfaces. Soft Matter, 2016, 12, 1938-1963.	2.7	272
7	Initiated Chemical Vapor Deposition (iCVD) of Poly(alkyl acrylates):Â An Experimental Study. Macromolecules, 2006, 39, 3688-3694.	4.8	265
8	Surface-Tethered Zwitterionic Ultrathin Antifouling Coatings on Reverse Osmosis Membranes by Initiated Chemical Vapor Deposition. Chemistry of Materials, 2011, 23, 1263-1272.	6.7	244
9	Chemical vapour deposition. Nature Reviews Methods Primers, 2021, 1, .	21.2	244
10	Direct Monolithic Integration of Organic Photovoltaic Circuits on Unmodified Paper. Advanced Materials, 2011, 23, 3500-3505.	21.0	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.	21.0	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.	4.8	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.	3.5	214
14	Oxidative Chemical Vapor Deposition of Electrically Conducting Poly(3,4-ethylenedioxythiophene) Films. Macromolecules, 2006, 39, 5326-5329.	4.8	211
15	25th Anniversary Article: CVD Polymers: A New Paradigm for Surface Modifi cation and Device Fabrication. Advanced Materials, 2013, 25, 5392-5423.	21.0	211
16	Multiple-Quantum NMR Study of Clustering in Hydrogenated Amorphous Silicon. Physical Review Letters, 1986, 56, 1377-1380.	7.8	209
17	Systematic Control of the Electrical Conductivity of Poly(3,4-ethylenedioxythiophene) via Oxidative Chemical Vapor Deposition. Macromolecules, 2007, 40, 6552-6556.	4.8	196
18	Estimation of critical properties with group contribution methods. AICHE Journal, 1984, 30, 137-142.	3.6	192

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19	Polymerâ€Free Nearâ€Infrared Photovoltaics with Single Chirality (6,5) Semiconducting Carbon Nanotube Active Layers. Advanced Materials, 2012, 24, 4436-4439.	21.0	171
20	High electrical conductivity and carrier mobility in oCVD PEDOT thin films by engineered crystallization and acid treatment. Science Advances, 2018, 4, eaat5780.	10.3	167
21	Molecular engineered conjugated polymer with high thermal conductivity. Science Advances, 2018, 4, eaar3031.	10.3	165
22	Initiated Chemical Vapor Deposition (iCVD) of Poly(alkyl acrylates):Â A Kinetic Model. Macromolecules, 2006, 39, 3695-3703.	4.8	161
23	Hot Filament Chemical Vapor Deposition of Poly(glycidyl methacrylate) Thin Films Usingtert-Butyl Peroxide as an Initiator. Langmuir, 2004, 20, 2484-2488.	3.5	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.	31.5	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.	20.1	152
26	Synergistic Prevention of Biofouling in Seawater Desalination by Zwitterionic Surfaces and Lowâ€Level Chlorination. Advanced Materials, 2014, 26, 1711-1718.	21.0	146
27	Initiated Chemical Vapor Deposition of Poly(1H,1H,2H,2H-perfluorodecyl Acrylate) Thin Films. Langmuir, 2006, 22, 10047-10052.	3.5	144
28	Polymeric Nanopore Membranes for Hydrophobicity-Based Separations by Conformal Initiated Chemical Vapor Deposition. Nano Letters, 2011, 11, 677-686.	9.1	138
29	Hydrogen microstructure in amorphous hydrogenated silicon. Physical Review B, 1987, 36, 3259-3267.	3.2	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.	2.8	136
31	Deterministic Order in Surface Microâ€Topologies through Sequential Wrinkling. Advanced Materials, 2012, 24, 5441-5446.	21.0	132
32	Chain Mobility in the Amorphous Region of Nylon 6 Observed under Active Uniaxial Deformation. Science, 2000, 288, 116-119.	12.6	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.	8.0	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.	3.3	127
35	Initiated chemical vapor deposition of antimicrobial polymer coatings. Biomaterials, 2007, 28, 909-915.	11.4	126
36	Designing polymer surfaces via vapor deposition. Materials Today, 2010, 13, 26-33.	14.2	123

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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.	2.1	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.	7.1	116
39	Random Copolymer Films with Molecularâ€Scale Compositional Heterogeneities that Interfere with Protein Adsorption. Advanced Functional Materials, 2009, 19, 3489-3496.	14.9	115
40	Surface modification of reverse osmosis membranes with zwitterionic coating for improved resistance to fouling. Desalination, 2015, 362, 93-103.	8.2	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.	8.2	108
42	Thin Polymer Films with High Step Coverage in Microtrenches by Initiated CVD. Chemical Vapor Deposition, 2008, 14, 313-318.	1.3	107
43	Ultrathin Antifouling Coatings with Stable Surface Zwitterionic Functionality by Initiated Chemical Vapor Deposition (iCVD). Langmuir, 2012, 28, 12266-12274.	3.5	106
44	Vapor phase oxidative synthesis of conjugated polymers and applications. Journal of Polymer Science, Part B: Polymer Physics, 2012, 50, 1329-1351.	2.1	105
45	Structure and Morphology of Fluorocarbon Films Grown by Hot Filament Chemical Vapor Deposition. Chemistry of Materials, 2000, 12, 3032-3037.	6.7	103
46	Lowâ€Dimensional Conduction Mechanisms in Highly Conductive and Transparent Conjugated Polymers. Advanced Materials, 2015, 27, 4604-4610.	21.0	103
47	Structure and properties of amorphous hydrogenated silicon carbide. Physical Review B, 1987, 36, 9722-9731.	3.2	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.	21.0	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.	6.7	101
50	Pulsed-PECVD Films from Hexamethylcyclotrisiloxane for Use as Insulating Biomaterials. Chemistry of Materials, 2000, 12, 3488-3494.	6.7	99
51	Conformal Coverage of Poly(3,4-ethylenedioxythiophene) Films with Tunable Nanoporosity via Oxidative Chemical Vapor Deposition. ACS Nano, 2008, 2, 1959-1967.	14.6	97
52	Advanced asymmetric supercapacitor based on conducting polymer and aligned carbon nanotubes with controlled nanomorphology. Nano Energy, 2014, 9, 176-185.	16.0	93
53	CVD Polymers for Devices and Device Fabrication. Advanced Materials, 2017, 29, 1604606.	21.0	93
54	Fourier Transform Infrared Investigation of the Deformation Behavior of Montmorillonite in Nylon-6/Nanoclay Nanocomposite. Macromolecules, 2003, 36, 2587-2590.	4.8	89

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55	Ultrathin high-resolution flexographic printing using nanoporous stamps. Science Advances, 2016, 2, e1601660.	10.3	89
56	Ultrahighâ€Arealâ€Capacitance Flexible Supercapacitor Electrodes Enabled by Conformal P3MT on Horizontally Aligned Carbonâ€Nanotube Arrays. Advanced Materials, 2019, 31, e1901916.	21.0	89
57	A conformal nano-adhesive via initiated chemical vapor deposition for microfluidic devices. Lab on A Chip, 2009, 9, 411-416.	6.0	88
58	Linker-free grafting of fluorinated polymeric cross-linked network bilayers for durable reduction of ice adhesion. Materials Horizons, 2015, 2, 91-99.	12.2	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.	2.5	87
60	Patterning Nanodomains with Orthogonal Functionalities: Solventless Synthesis of Self-Sorting Surfaces. Journal of the American Chemical Society, 2008, 130, 14424-14425.	13.7	87
61	Combining air recharging and membrane superhydrophobicity for fouling prevention in membrane distillation. Journal of Membrane Science, 2016, 505, 241-252.	8.2	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.	6.7	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.	6.7	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.	6.7	85
65	Large-scale initiated chemical vapor deposition of poly(glycidyl methacrylate) thin films. Thin Solid Films, 2006, 515, 1579-1584.	1.8	82
66	Initiated Chemical Vapor Deposition of Trivinyltrimethylcyclotrisiloxane for Biomaterial Coatings. Langmuir, 2006, 22, 7021-7026.	3.5	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.	2.1	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.	14.6	81
69	Design of conformal, substrate-independent surface modification for controlled proteinadsorption by chemical vapor deposition (CVD). Soft Matter, 2012, 8, 31-43.	2.7	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.	3.8	77
72	Grafted Crystalline Polyâ€Perfluoroacrylate Structures for Superhydrophobic and Oleophobic Functional Coatings. Advanced Materials, 2012, 24, 4534-4539.	21.0	77

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73	Polymer Thin Films and Surface Modification by Chemical Vapor Deposition: Recent Progress. Annual Review of Chemical and Biomolecular Engineering, 2016, 7, 373-393.	6.8	77
74	Shortâ€Fluorinated iCVD Coatings for Nonwetting Fabrics. Advanced Functional Materials, 2018, 28, 1707355.	14.9	77
75	Initiated chemical vapor deposition of polyvinylpyrrolidone-based thin films. Polymer, 2006, 47, 6941-6947.	3.8	76
76	Electrochemical investigation of PEDOT films deposited via CVD for electrochromic applications. Synthetic Metals, 2007, 157, 894-898.	3.9	76
77	Particle Surface Design using an All-Dry Encapsulation Method. Advanced Materials, 2006, 18, 1972-1977.	21.0	75
78	Overview of Strategies for the CVD of Organic Films and Functional Polymer Layers. Chemical Vapor Deposition, 2009, 15, 77-90.	1.3	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.	8.0	75
80	All-Dry Synthesis and Coating of Methacrylic Acid Copolymers for Controlled Release. Macromolecular Bioscience, 2007, 7, 429-434.	4.1	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.	14.9	70
82	Initiated chemical vapor deposition (iCVD) of polymeric nanocoatings. Surface and Coatings Technology, 2007, 201, 9400-9405.	4.8	69
83	A systematic study of the impact of hydrophobicity on the wetting of MD membranes. Journal of Membrane Science, 2016, 520, 850-859.	8.2	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.	6.7	68
85	Ultrathin Zwitterionic Coatings for Roughnessâ€Independent Underwater Superoleophobicity and Gravityâ€Driven Oilâ€“Water Separation. Advanced Materials Interfaces, 2015, 2, 1400489.	3.7	68
86	Recent progress on submicron gas-selective polymeric membranes. Journal of Materials Chemistry A, 2017, 5, 8860-8886.	10.3	68
87	Doping level and work function control in oxidative chemical vapor deposited poly (3,4-ethylenedioxythiophene). Applied Physics Letters, 2007, 90, 152112.	3.3	67
88	Perfluorooctane Sulfonyl Fluoride as an Initiator in Hot-Filament Chemical Vapor Deposition of Fluorocarbon Thin Films. Langmuir, 2001, 17, 7652-7655.	3.5	66
89	Hot-Filament Chemical Vapor Deposition of Organosilicon Thin Films from Hexamethylcyclotrisiloxane and Octamethylcyclotetrasiloxane. Journal of the Electrochemical Society, 2001, 148, F212.	2.9	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.	3.7	65

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91	Pulsed plasma-enhanced chemical vapor deposition from hexafluoropropylene oxide: Film composition study. Journal of Applied Polymer Science, 1998, 67, 1489-1502.	2.6	64
92	Stable Biopassive Insulation Synthesized by Initiated Chemical Vapor Deposition of Poly(1,3,5-trivinyltrimethylcyclotrisiloxane). Biomacromolecules, 2007, 8, 2564-2570.	5.4	63
93	Ultralow Dielectric Constant Tetravinyltetramethylcyclotetrasiloxane Films Deposited by Initiated Chemical Vapor Deposition (iCVD). Advanced Functional Materials, 2010, 20, 607-616.	14.9	63
94	Initiated CVD of Poly(methyl methacrylate) Thin Films. Chemical Vapor Deposition, 2005, 11, 437-443.	1.3	62
95	Vapor-Deposited Fluorinated Glycidyl Copolymer Thin Films with Low Surface Energy and Improved Mechanical Properties. Macromolecules, 2006, 39, 3895-3900.	4.8	60
96	Hot-wire chemical vapor deposition (HWCVD) of fluorocarbon and organosilicon thin films. Thin Solid Films, 2001, 395, 288-291.	1.8	59
97	Making thin polymeric materials, including fabrics, microbicidal and also water-repellent. Biotechnology Letters, 2003, 25, 1661-1665.	2.2	59
98	Protection of Sensors for Biological Applications by Photoinitiated Chemical Vapor Deposition of Hydrogel Thin Films. Biomacromolecules, 2008, 9, 2857-2862.	5.4	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.	1.8	59
100	Scale-up of oCVD: large-area conductive polymer thin films for next-generation electronics. Materials Horizons, 2015, 2, 221-227.	12.2	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.	2.1	58
102	The importance of interfacial design at the carbon nanotube/polymer composite interface. Journal of Applied Polymer Science, 2006, 102, 1413-1418.	2.6	58
103	High Surface Area Flexible Chemiresistive Biosensor by Oxidative Chemical Vapor Deposition. Advanced Functional Materials, 2011, 21, 4328-4337.	14.9	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.	14.9	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.	10.3	58
106	Selective sensing of volatile organic compounds using novel conducting polymerâ€“metal nanoparticle hybrids. Nanotechnology, 2010, 21, 125503.	2.6	57
107	Responsive Microgrooves for the Formation of Harvestable Tissue Constructs. Langmuir, 2011, 27, 5671-5679.	3.5	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.	10.3	57

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109	Nanoscale control by chemically vapour-deposited polymers. Nature Reviews Physics, 2020, 2, 347-364.	26.6	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.	6.7	56
111	Tuning, optimization, and perovskite solar cell device integration of ultrathin poly(3,4-ethylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10	10.3	56
112	Highly swellable free-standing hydrogel nanotube forests. Soft Matter, 2010, 6, 1635.	2.7	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.	6.2	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.	14.9	55
115	Monolithic Flexible Supercapacitors Integrated into Single Sheets of Paper and Membrane via Vapor Printing. Advanced Materials, 2017, 29, 1606091.	21.0	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.	2.1	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.	7.9	54
118	NMR characterization of electron beam irradiated vinylidene fluorideâ€"trifluoroethylene copolymers. Journal of Fluorine Chemistry, 2002, 113, 27-35.	1.7	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.	2.1	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.	3.5	53
121	Vapor deposition routes to conformal polymer thin films. Beilstein Journal of Nanotechnology, 2017, 8, 723-735.	2.8	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.	14.9	52
123	Functionalized, Swellable Hydrogel Layers as a Platform for Cell Studies. Advanced Functional Materials, 2009, 19, 1276-1286.	14.9	51
124	Revealing Amphiphilic Nanodomains of Anti-Biofouling Polymer Coatings. ACS Applied Materials & Interfaces, 2014, 6, 4705-4712.	8.0	51
125	Initiated Chemical Vapor Deposition of Alternating Copolymers of Styrene and Maleic Anhydride. Langmuir, 2007, 23, 6624-6630.	3.5	50
126	Tunable Conformality of Polymer Coatings on High Aspect Ratio Features. Chemical Vapor Deposition, 2010, 16, 100-105.	1.3	50

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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.	3.0	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.	7.1	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.	2.9	49
130	Non-polydimethylsiloxane devices for oxygen-free flow lithography. Nature Communications, 2012, 3, 805.	12.8	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.	14.9	49
132	Texture and nanostructural engineering of conjugated conducting and semiconducting polymers. Materials Today Advances, 2020, 8, 100086.	5.2	49
133	Controllable Cross-Linking of Vapor-Deposited Polymer Thin Films and Impact on Material Properties. Macromolecules, 2013, 46, 1832-1840.	4.8	48
134	Thin Hydrogel Films With Nanoconfined Surface Reactivity by Photoinitiated Chemical Vapor Deposition. Chemistry of Materials, 2009, 21, 399-403.	6.7	47
135	Hierarchical Multifunctional Composites by Conformally Coating Aligned Carbon Nanotube Arrays with Conducting Polymer. ACS Applied Materials & Interfaces, 2009, 1, 2565-2572.	8.0	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.	3.9	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.	7.8	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.	2.4	47
139	Scalable and durable polymeric icephobic and hydrate-phobic coatings. Soft Matter, 2018, 14, 3443-3454.	2.7	47
140	Electron spin resonance of pulsed plasma-enhanced chemical vapor deposited fluorocarbon films. Journal of Applied Physics, 1997, 82, 1784-1787.	2.5	46
141	Ultra-thin, gas permeable free-standing and composite membranes for microfluidic lung assist devices. Biomaterials, 2011, 32, 3883-3889.	11.4	46
142	Investigation into the Formation and Adhesion of Cyclopentane Hydrates on Mechanically Robust Vapor-Deposited Polymeric Coatings. Langmuir, 2015, 31, 6186-6196.	3.5	46
143	Stable Wettability Control of Nanoporous Microstructures by iCVD Coating of Carbon Nanotubes. ACS Applied Materials & Interfaces, 2017, 9, 43287-43299.	8.0	46
144	Organosilicon Thin Films Deposited from Cyclic and Acyclic Precursors Using Water as an Oxidant. Journal of the Electrochemical Society, 2004, 151, F105.	2.9	45

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145	Effect of Substrate Temperature on the Plasma Polymerization of Poly(methyl methacrylate). Chemical Vapor Deposition, 2006, 12, 59-66.	1.3	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.	4.8	45
147	Photoinitiated Chemical Vapor Deposition of Polymeric Thin Films Using a Volatile Photoinitiator. Langmuir, 2005, 21, 11773-11779.	3.5	44
148	Particle functionalization and encapsulation by initiated chemical vapor deposition (iCVD). Surface and Coatings Technology, 2007, 201, 9189-9194.	4.8	44
149	Grafted Nanofilms Promote Dropwise Condensation of Low-Surface-Tension Fluids for High-Performance Heat Exchangers. Joule, 2019, 3, 1377-1388.	24.0	44
150	Evaluation of diamond films by nuclear magnetic resonance and Raman spectroscopy. Diamond and Related Materials, 1992, 1, 1145-1155.	3.9	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.	3.6	43
152	Surface modification of seawater desalination reverse osmosis membranes: Characterization studies & performance evaluation. Desalination, 2014, 343, 128-139.	8.2	43
153	Designing Durable Vaporâ€Deposited Surfaces for Reduced Hydrate Adhesion. Advanced Materials Interfaces, 2015, 2, 1500003.	3.7	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.	8.2	43
155	Insights into Thin, Thermally Responsive Polymer Layers Through Quartz Crystal Microbalance with Dissipation. Langmuir, 2011, 27, 10691-10698.	3.5	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.	4.8	42
157	Initiation of Cyclic Vinylmethylsiloxane Polymerization in a Hot-Filament Chemical Vapor Deposition Process. Langmuir, 2002, 18, 6424-6428.	3.5	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.	4.8	41
159	Pulsed plasma enhanced and hot filament chemical vapor deposition of fluorocarbon films. Journal of Fluorine Chemistry, 2000, 104, 119-126.	1.7	40
160	Polymeric nanocoatings by hot-wire chemical vapor deposition (HWCVD). Thin Solid Films, 2006, 501, 211-215.	1.8	40
161	A Directly Patternable, Clickâ€Active Polymer Film via Initiated Chemical Vapor Deposition. Macromolecular Rapid Communications, 2008, 29, 1648-1654.	3.9	40
162	Novel N-isopropylacrylamide based polymer architecture for faster LCST transition kinetics. Polymer, 2011, 52, 4429-4434.	3.8	40

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163	The Design and Synthesis of Hard and Impermeable, Yet Flexible, Conformal Organic Coatings. Advanced Materials, 2012, 24, 3692-3696.	21.0	40
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