Gleason Kk

List of Publications by Citations

382 papers	17,837 citations	70 h-index	113 g-index
392 ext. papers	19,084 ext. citations	7.9 avg, IF	7.07 L-index

#	Paper	IF	Citations
382	Superhydrophobic Carbon Nanotube Forests. *Nano Letters*, **2003**, 3, 1701-1705	11.5	1401
381	Superhydrophobic Fabrics Produced by Electrospinning and Chemical Vapor Deposition. *Macromolecules*, **2005**, 38, 9742-9748	5.5	619
380	Chemical vapor deposition of conformal, functional, and responsive polymer films. *Advanced Materials*, **2010**, 22, 1993-2027	24	286
379	Decorated Electrospun Fibers Exhibiting Superhydrophobicity. *Advanced Materials*, **2007**, 19, 255-259	24	273
378	Initiated and Oxidative Chemical Vapor Deposition of Polymeric Thin Films: iCVD and oCVD. *Advanced Functional Materials*, **2008**, 18, 979-992	15.6	253
377	Initiated Chemical Vapor Deposition (iCVD) of Poly(alkyl acrylates): An Experimental Study. *Macromolecules*, **2006**, 39, 3688-3694	5.5	231
376	Direct monolithic integration of organic photovoltaic circuits on unmodified paper. *Advanced Materials*, **2011**, 23, 3499-3505	24	221
375	Surface-Tethered Zwitterionic Ultrathin Antifouling Coatings on Reverse Osmosis Membranes by Initiated Chemical Vapor Deposition. *Chemistry of Materials*, **2011**, 23, 1263-1272	9.6	221
374	Durable and scalable icephobic surfaces: similarities and distinctions from superhydrophobic surfaces. *Soft Matter*, **2016**, 12, 1938-63	3.6	207
373	Initiated chemical vapor deposition of linear and cross-linked poly(2-hydroxyethyl methacrylate) for use as thin-film hydrogels. *Langmuir*, **2005**, 21, 8930-9	4	200
372	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	5	199
371	Multiple-quantum NMR study of clustering in hydrogenated amorphous silicon. *Physical Review Letters*, **1986**, 56, 1377-1380	7.4	196
370	Oxidative Chemical Vapor Deposition of Electrically Conducting Poly(3,4-ethylenedioxythiophene) Films. *Macromolecules*, **2006**, 39, 5326-5329	5.5	190
369	25th anniversary article: CVD polymers: a new paradigm for surface modification and device fabrication. *Advanced Materials*, **2013**, 25, 5392-423	24	185
368	Systematic Control of the Electrical Conductivity of Poly(3,4-ethylenedioxythiophene) via Oxidative Chemical Vapor Deposition. *Macromolecules*, **2007**, 40, 6552-6556	5.5	176
367	Stable dropwise condensation for enhancing heat transfer via the initiated chemical vapor deposition (iCVD) of grafted polymer films. *Advanced Materials*, **2014**, 26, 418-23	24	175
366	Polymer-free near-infrared photovoltaics with single chirality (6,5) semiconducting carbon nanotube active layers. *Advanced Materials*, **2012**, 24, 4436-9	24	160

365	Estimation of critical properties with group contribution methods. *AICHE Journal*, **1984**, 30, 137-142	3.6	160
364	Initiated Chemical Vapor Deposition (iCVD) of Poly(alkyl acrylates): A Kinetic Model. *Macromolecules*, **2006**, 39, 3695-3703	5.5	146
363	Hot filament chemical vapor deposition of poly(glycidyl methacrylate) thin films using tert-butyl peroxide as an initiator. *Langmuir*, **2004**, 20, 2484-8	4	145
362	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	14.4	132
361	Initiated chemical vapor deposition of poly(1H,1H,2H,2H-perfluorodecyl acrylate) thin films. *Langmuir*, **2006**, 22, 10047-52	4	131
360	Hydrogen microstructure in amorphous hydrogenated silicon. *Physical Review B*, **1987**, 36, 3259-3267	3.3	131
359	Synergistic prevention of biofouling in seawater desalination by zwitterionic surfaces and low-level chlorination. *Advanced Materials*, **2014**, 26, 1711-8	24	129
358	Sub-10-nm patterning via directed self-assembly of block copolymer films with a vapour-phase deposited topcoat. *Nature Nanotechnology*, **2017**, 12, 575-581	28.7	124
357	Polymeric nanopore membranes for hydrophobicity-based separations by conformal initiated chemical vapor deposition. *Nano Letters*, **2011**, 11, 677-86	11.5	123
356	Chain mobility in the amorphous region of nylon 6 observed under active uniaxial deformation. *Science*, **2000**, 288, 116-9	33.3	119
355	Deterministic order in surface micro-topologies through sequential wrinkling. *Advanced Materials*, **2012**, 24, 5441-6	24	117
354	Initiated and oxidative chemical vapor deposition: a scalable method for conformal and functional polymer films on real substrates. *Physical Chemistry Chemical Physics*, **2009**, 11, 5227-40	3.6	117
353	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	3.4	117
352	Desalination by Membrane Distillation using Electrospun Polyamide Fiber Membranes with Surface Fluorination by Chemical Vapor Deposition. *ACS Applied Materials & Interfaces*, **2015**, 7, 8225-32	9.5	113
351	Initiated chemical vapor deposition of antimicrobial polymer coatings. *Biomaterials*, **2007**, 28, 909-15	15.6	113
350	High electrical conductivity and carrier mobility in oCVD PEDOT thin films by engineered crystallization and acid treatment. *Science Advances*, **2018**, 4, eaat5780	14.3	113
349	Random Copolymer Films with Molecular-Scale Compositional Heterogeneities that Interfere with Protein Adsorption. *Advanced Functional Materials*, **2009**, 19, 3489-3496	15.6	108
348	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	2.9	108

347	Molecular engineered conjugated polymer with high thermal conductivity. *Science Advances*, **2018**, 4, eaar3031	14.3	103
346	Designing polymer surfaces via vapor deposition. *Materials Today*, **2010**, 13, 26-33	21.8	103
345	Thin Polymer Films with High Step Coverage in Microtrenches by Initiated CVD. *Chemical Vapor Deposition*, **2008**, 14, 313-318		97
344	Structure and properties of amorphous hydrogenated silicon carbide. *Physical Review B*, **1987**, 36, 9722-9731	3.5	97
343	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	9.6	96
342	Low-Dimensional Conduction Mechanisms in Highly Conductive and Transparent Conjugated Polymers. *Advanced Materials*, **2015**, 27, 4604-10	24	95
341	Surface modification of reverse osmosis membranes with zwitterionic coating for improved resistance to fouling. *Desalination*, **2015**, 362, 93-103	10.3	94
340	Ultrathin antifouling coatings with stable surface zwitterionic functionality by initiated chemical vapor deposition (iCVD). *Langmuir*, **2012**, 28, 12266-74	4	94
339	Grafted Conducting Polymer Films for Nano-patterning onto Various Organic and Inorganic Substrates by Oxidative Chemical Vapor Deposition. *Advanced Materials*, **2007**, 19, 2863-2867	24	94
338	Vapor phase oxidative synthesis of conjugated polymers and applications. *Journal of Polymer Science, Part B: Polymer Physics*, **2012**, 50, 1329-1351	2.6	91
337	Pulsed-PECVD Films from Hexamethylcyclotrisiloxane for Use as Insulating Biomaterials. *Chemistry of Materials*, **2000**, 12, 3488-3494	9.6	91
336	Structure and Morphology of Fluorocarbon Films Grown by Hot Filament Chemical Vapor Deposition. *Chemistry of Materials*, **2000**, 12, 3032-3037	9.6	90
335	Conformal coverage of poly(3,4-ethylenedioxythiophene) films with tunable nanoporosity via oxidative chemical vapor deposition. *ACS Nano*, **2008**, 2, 1959-67	16.7	87
334	Fourier Transform Infrared Investigation of the Deformation Behavior of Montmorillonite in Nylon-6/Nanoclay Nanocomposite. *Macromolecules*, **2003**, 36, 2587-2590	5.5	86
333	A conformal nano-adhesive via initiated chemical vapor deposition for microfluidic devices. *Lab on A Chip*, **2009**, 9, 411-6	7.2	84
332	Patterning nanodomains with orthogonal functionalities: solventless synthesis of self-sorting surfaces. *Journal of the American Chemical Society*, **2008**, 130, 14424-5	16.4	84
331	Phase transition-induced band edge engineering of BiVO4 to split pure water under visible light. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 13774-8	11.5	83
330	Advanced asymmetric supercapacitor based on conducting polymer and aligned carbon nanotubes with controlled nanomorphology. *Nano Energy*, **2014**, 9, 176-185	17.1	82

329	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	82
328	Vapor Deposition of Hybrid Organic/Inorganic Dielectric Bragg Mirrors having Rapid and Reversibly Tunable Optical Reflectance. *Chemistry of Materials*, **2008**, 20, 2262-2267	9.6	80
327	Chemical vapour deposition. *Nature Reviews Methods Primers*, **2021**, 1,		80
326	Conformal, Amine-Functionalized Thin Films by Initiated Chemical Vapor Deposition (iCVD) for Hydrolytically Stable Microfluidic Devices. *Chemistry of Materials*, **2010**, 22, 1732-1738	9.6	78
325	Linker-free grafting of fluorinated polymeric cross-linked network bilayers for durable reduction of ice adhesion. *Materials Horizons*, **2015**, 2, 91-99	14.4	76
324	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	9.6	76
323	Large-scale initiated chemical vapor deposition of poly(glycidyl methacrylate) thin films. *Thin Solid Films*, **2006**, 515, 1579-1584	2.2	75
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321	Overview of Strategies for the CVD of Organic Films and Functional Polymer Layers. *Chemical Vapor Deposition*, **2009**, 15, 77-90		72
320	Design of conformal, substrate-independent surface modification for controlled protein adsorption by chemical vapor deposition (CVD). *Soft Matter*, **2012**, 8, 31-43	3.6	71
319	Particle Surface Design using an All-Dry Encapsulation Method. *Advanced Materials*, **2006**, 18, 1972-1977	24	71
318	Initiated chemical vapor deposition of polyvinylpyrrolidone-based thin films. *Polymer*, **2006**, 47, 6941-6947	3.9	71
317	Molecular Design of Fluorocarbon Film Architecture by Pulsed Plasma Enhanced and Pyrolytic Chemical Vapor Deposition. *Plasmas and Polymers*, **1999**, 4, 21-32		71
316	CVD Polymers for Devices and Device Fabrication. *Advanced Materials*, **2017**, 29, 1604606	24	70
315	All-dry synthesis and coating of methacrylic acid copolymers for controlled release. *Macromolecular Bioscience*, **2007**, 7, 429-34	5.5	70
314	Electrochemical investigation of PEDOT films deposited via CVD for electrochromic applications. *Synthetic Metals*, **2007**, 157, 894-898	3.6	70
313	Initiated chemical vapor deposition of trivinyltrimethylcyclotrisiloxane for biomaterial coatings. *Langmuir*, **2006**, 22, 7021-6	4	70
312	Investigation of polymer and nanoclay orientation distribution in nylon 6/montmorillonite nanocomposite. *Polymer*, **2004**, 45, 5933-5939	3.9	70

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310	Organic solar cells with graphene electrodes and vapor printed poly(3,4-ethylenedioxythiophene) as the hole transporting layers. *ACS Nano*, **2012**, 6, 6370-7	16.7	69
309	Grafted crystalline poly-perfluoroacrylate structures for superhydrophobic and oleophobic functional coatings. *Advanced Materials*, **2012**, 24, 4534-9	24	67
308	Ultrathin high-resolution flexographic printing using nanoporous stamps. *Science Advances*, **2016**, 2, e1601660	14.3	67
307	Combining air recharging and membrane superhydrophobicity for fouling prevention in membrane distillation. *Journal of Membrane Science*, **2016**, 505, 241-252	9.6	66
306	Synthesis of Poly(4-vinylpyridine) Thin Films by Initiated Chemical Vapor Deposition (iCVD) for Selective Nanotrench-Based Sensing of Nitroaromatics. *Advanced Functional Materials*, **2010**, 20, 1144-1151	15.6	64
305	Initiated CVD of Poly(methyl methacrylate) Thin Films. *Chemical Vapor Deposition*, **2005**, 11, 437-443		62
304	Ultrathin Zwitterionic Coatings for Roughness-Independent Underwater Superoleophobicity and Gravity-Driven Oil–Water Separation. *Advanced Materials Interfaces*, **2015**, 2, 1400489	4.6	61
303	Grafted Functional Polymer Nanostructures Patterned Bottom-Up by Colloidal Lithography and Initiated Chemical Vapor Deposition (iCVD). *Chemistry of Materials*, **2009**, 21, 742-750	9.6	61
302	Doping level and work function control in oxidative chemical vapor deposited poly (3,4-ethylenedioxythiophene). *Applied Physics Letters*, **2007**, 90, 152112	3.4	61
301	Perfluorooctane Sulfonyl Fluoride as an Initiator in Hot-Filament Chemical Vapor Deposition of Fluorocarbon Thin Films. *Langmuir*, **2001**, 17, 7652-7655	4	61
300	Ultrahigh-Areal-Capacitance Flexible Supercapacitor Electrodes Enabled by Conformal P3MT on Horizontally Aligned Carbon-Nanotube Arrays. *Advanced Materials*, **2019**, 31, e1901916	24	59
299	Initiated chemical vapor deposition (iCVD) of polymeric nanocoatings. *Surface and Coatings Technology*, **2007**, 201, 9400-9405	4.4	59
298	Vapor-Deposited Fluorinated Glycidyl Copolymer Thin Films with Low Surface Energy and Improved Mechanical Properties. *Macromolecules*, **2006**, 39, 3895-3900	5.5	59
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296	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	10.3	59
295	Polymer Thin Films and Surface Modification by Chemical Vapor Deposition: Recent Progress. *Annual Review of Chemical and Biomolecular Engineering*, **2016**, 7, 373-93	8.9	57
294	Stable biopassive insulation synthesized by initiated chemical vapor deposition of poly(1,3,5-trivinyltrimethylcyclotrisiloxane). *Biomacromolecules*, **2007**, 8, 2564-70	6.9	57

293	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	2.9	57
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291	oCVD poly(3,4-ethylenedioxythiophene) conductivity and lifetime enhancement via acid rinse dopant exchange. *Journal of Materials Chemistry A*, **2013**, 1, 1334-1340	13	54
290	Scale-up of oCVD: large-area conductive polymer thin films for next-generation electronics. *Materials Horizons*, **2015**, 2, 221-227	14.4	54
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288	The importance of interfacial design at the carbon nanotube/polymer composite interface. *Journal of Applied Polymer Science*, **2006**, 102, 1413-1418	2.9	54
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286	A systematic study of the impact of hydrophobicity on the wetting of MD membranes. *Journal of Membrane Science*, **2016**, 520, 850-859	9.6	53
285	Short-Fluorinated iCVD Coatings for Nonwetting Fabrics. *Advanced Functional Materials*, **2018**, 28, 1707556	15.6	53
284	Single-Step Oxidative Chemical Vapor Deposition of ΠCOOH Functional Conducting Copolymer and Immobilization of Biomolecule for Sensor Application. *Chemistry of Materials*, **2011**, 23, 2600-2605	9.6	52
283	Protection of sensors for biological applications by photoinitiated chemical vapor deposition of hydrogel thin films. *Biomacromolecules*, **2008**, 9, 2857-62	6.9	52
282	Making thin polymeric materials, including fabrics, microbicidal and also water-repellent. *Biotechnology Letters*, **2003**, 25, 1661-5	3	52
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280	Ultralow Dielectric Constant Tetravinyltetramethylcyclotetrasiloxane Films Deposited by Initiated Chemical Vapor Deposition (iCVD). *Advanced Functional Materials*, **2010**, 20, 607-616	15.6	51
279	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	2.9	51
278	Device Fabrication Based on Oxidative Chemical Vapor Deposition (oCVD) Synthesis of Conducting Polymers and Related Conjugated Organic Materials. *Advanced Materials Interfaces*, **2019**, 6, 1801564	4.6	51
277	Fabrication and Characterization of a Porous Silicon Drug Delivery System with an Initiated Chemical Vapor Deposition Temperature-Responsive Coating. *Langmuir*, **2016**, 32, 301-8	4	50
276	Highly swellable free-standing hydrogel nanotube forests. *Soft Matter*, **2010**, 6, 1635	3.6	50

275	Recent progress on submicron gas-selective polymeric membranes. *Journal of Materials Chemistry A* , **2017**, 5, 8860-8886	13	49
274	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	8.3	49
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271	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	13	48
270	FUNCTIONALIZED, SWELLABLE HYDROGEL LAYERS AS A PLATFORM FOR CELL STUDIES. *Advanced Functional Materials*, **2009**, 19, 1276-1286	15.6	48
269	Initiated chemical vapor deposition of alternating copolymers of styrene and maleic anhydride. *Langmuir*, **2007**, 23, 6624-30	4	48
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267	High Surface Area Flexible Chemiresistive Biosensor by Oxidative Chemical Vapor Deposition. *Advanced Functional Materials*, **2011**, 21, 4328-4337	15.6	47
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264	Single-Chamber Deposition of Multilayer Barriers by Plasma Enhanced and Initiated Chemical Vapor Deposition of Organosilicones. *Plasma Processes and Polymers*, **2010**, 7, 561-570	3.4	47
263	Revealing amphiphilic nanodomains of anti-biofouling polymer coatings. *ACS Applied Materials & Interfaces*, **2014**, 6, 4705-12	9.5	46
262	Hierarchical multifunctional composites by conformally coating aligned carbon nanotube arrays with conducting polymer. *ACS Applied Materials & Interfaces*, **2009**, 1, 2565-72	9.5	46
261	19F NMR characterization of electron beam irradiated vinylidene fluoride□trifluoroethylene copolymers. *Journal of Fluorine Chemistry*, **2002**, 113, 27-35	2.1	46
260	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	3.9	46
259	Enhanced Optical Property with Tunable Band Gap of Cross-linked PEDOT Copolymers via Oxidative Chemical Vapor Deposition. *Advanced Functional Materials*, **2015**, 25, 85-93	15.6	45
258	Tunable Conformality of Polymer Coatings on High Aspect Ratio Features. *Chemical Vapor Deposition*, **2010**, 16, 100-105		45

257	Novel Strategies for the Deposition of ?COOH Functionalized Conducting Copolymer Films and the Assembly of Inorganic Nanoparticles on Conducting Polymer Platforms. *Advanced Functional Materials*, **2008**, 18, 1929-1938	15.6	45
256	Non-polydimethylsiloxane devices for oxygen-free flow lithography. *Nature Communications*, **2012**, 3, 805	17.4	44
255	Effect of Substrate Temperature on the Plasma Polymerization of Poly(methyl methacrylate). *Chemical Vapor Deposition*, **2006**, 12, 59-66		44
254	Monolithic Flexible Supercapacitors Integrated into Single Sheets of Paper and Membrane via Vapor Printing. *Advanced Materials*, **2017**, 29, 1606091	24	43
253	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	9.2	43
252	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, 2166-72	4.8	43
251	Controllable Cross-Linking of Vapor-Deposited Polymer Thin Films and Impact on Material Properties. *Macromolecules*, **2013**, 46, 1832-1840	5.5	42
250	Solvent-free modification of surfaces with polymers: The case for initiated and oxidative chemical vapor deposition (CVD). *AICHE Journal*, **2011**, 57, 276-285	3.6	42
249	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	4.4	42
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246	Thin Hydrogel Films With Nanoconfined Surface Reactivity by Photoinitiated Chemical Vapor Deposition. *Chemistry of Materials*, **2009**, 21, 399-403	9.6	41
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244	Organosilicon Thin Films Deposited from Cyclic and Acyclic Precursors Using Water as an Oxidant. *Journal of the Electrochemical Society*, **2004**, 151, F105	3.9	41
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236	Novel N-isopropylacrylamide based polymer architecture for faster LCST transition kinetics. *Polymer*, **2011**, 52, 4429-4434	3.9	38
235	A stimuli-responsive coaxial nanofilm for burst release. *Soft Matter*, **2011**, 7, 638-643	3.6	38
234	Insights into Structure and Mechanical Behavior of □ and □ Crystal Forms of Nylon-6 at Low Strain by Infrared Studies. *Macromolecules*, **2003**, 36, 6114-6126	5.5	38
233	Initiation of Cyclic Vinylmethylsiloxane Polymerization in a Hot-Filament Chemical Vapor Deposition Process. *Langmuir*, **2002**, 18, 6424-6428	4	38
232	Scalable and durable polymeric icephobic and hydrate-phobic coatings. *Soft Matter*, **2018**, 14, 3443-3454	3.6	37
231	Polymeric nanocoatings by hot-wire chemical vapor deposition (HWCVD). *Thin Solid Films*, **2006**, 501, 211-215	2.2	37
230	Surface modification of seawater desalination reverse osmosis membranes: Characterization studies & performance evaluation. *Desalination*, **2014**, 343, 128-139	10.3	36
229	Investigation into the Formation and Adhesion of Cyclopentane Hydrates on Mechanically Robust Vapor-Deposited Polymeric Coatings. *Langmuir*, **2015**, 31, 6186-96	4	36
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226	Oxidative chemical vapor deposition (oCVD) of patterned and functional grafted conducting polymer nanostructures. *Journal of Materials Chemistry*, **2010**, 20, 3968		35
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223	Chemical Vapor Deposition for Solvent-Free Polymerization at Surfaces. *Macromolecular Chemistry and Physics*, **2013**, 214, 302-312	2.6	34
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