Atul N Parikh

List of Publications by Year in Descending Order

157 papers	8,959 citations	42 h-index	92 g-index
175 ext. papers	9,541 ext. citations	6.6 avg, IF	5.6 L-index

#	Paper	IF	Citations
157	Amphiphilic Membrane Environments Regulate Enzymatic Behaviors of Salmonella Outer Membrane Protease. *ACS Bio & Med Chem Au*, **2022**, 2, 73-83		0
156	Interactions of different lipoproteins with supported phospholipid raft membrane (SPRM) patterns to understand similar in-vivo processes. *Biochimica Et Biophysica Acta - Biomembranes*, **2021**, 1863, 183535	3.8	1
155	Coupled membrane lipid miscibility and phosphotyrosine-driven protein condensation phase transitions. *Biophysical Journal*, **2021**, 120, 1257-1265	2.9	14
154	Phase seperation of lipids in supported membranes on patterned PDMS substrate. *Materials Today: Proceedings*, **2021**, 46, 2515-2519	1.4	0
153	Mimicking Thylakoid Membrane with Chlorophyll/TiO/Lipid Co-Assembly for Light-Harvesting and Oxygen Releasing. *ACS Applied Materials & Interfaces*, **2021**, 13, 11461-11469	9.5	4
152	Recurrent dynamics of rupture transitions of giant lipid vesicles at solid surfaces. *Biophysical Journal*, **2021**, 120, 586-597	2.9	1
151	Topography-Driven Shape, Spread, and Retention of Leaf Surface Water Impacts Microbial Dispersion and Activity in the Phyllosphere. *Phytobiomes Journal*, **2020**, 4, 268-280	4.8	10
150	Discovery and mechanistic characterization of a structurally-unique membrane active peptide. *Biochimica Et Biophysica Acta - Biomembranes*, **2020**, 1862, 183394	3.8	2
149	Leaf Surface Topography Contributes to the Ability of on Leafy Greens to Resist Removal by Washing, Escape Disinfection With Chlorine, and Disperse Through Splash. *Frontiers in Microbiology*, **2020**, 11, 1485	5.7	3
148	Crystallization of Cholesterol in Phospholipid Membranes Follows Ostwald's Rule of Stages. *Journal of the American Chemical Society*, **2020**, 142, 21872-21882	16.4	5
147	One-Step Assembly of TiO-Liposomes Based on Interfacial Sol-Gel Process within Lipid Bilayer. *Langmuir*, **2019**, 35, 7018-7025	4	3
146	Response of microbial membranes to butanol: interdigitation vs. disorder. *Physical Chemistry Chemical Physics*, **2019**, 21, 11903-11915	3.6	11
145	Conjugated Oligoelectrolytes: A Chain-Elongated Oligophenylenevinylene Electrolyte Increases Microbial Membrane Stability (Adv. Mater. 18/2019). *Advanced Materials*, **2019**, 31, 1970133	24	
144	A Chain-Elongated Oligophenylenevinylene Electrolyte Increases Microbial Membrane Stability. *Advanced Materials*, **2019**, 31, e1808021	24	17
143	Minimal Reconstitution of Membranous Web Induced by a Vesicle-Peptide Sol-Gel Transition. *Biomacromolecules*, **2019**, 20, 1709-1718	6.9	3
142	Biologically inspired far-from-equilibrium materials. *MRS Bulletin*, **2019**, 44, 91-95	3.2	7
141	Engineering the interface between lipid membranes and nanoporous gold: A study by quartz crystal microbalance with dissipation monitoring. *Biointerphases*, **2018**, 13, 011002	1.8	14

140	Pulsatile Gating of Giant Vesicles Containing Macromolecular Crowding Agents Induced by Colligative Nonideality. *Journal of the American Chemical Society*, **2018**, 140, 691-699	16.4	23
139	Carbon Nanotube Porins in Amphiphilic Block Copolymers as Fully Synthetic Mimics of Biological Membranes. *Advanced Materials*, **2018**, 30, e1803355	24	16
138	Permeability and Line-Tension-Dependent Response of Polyunsaturated Membranes to Osmotic Stresses. *Biophysical Journal*, **2018**, 115, 1942-1955	2.9	9
137	Pulsatile Lipid Vesicles under Osmotic Stress. *Biophysical Journal*, **2017**, 112, 1682-1691	2.9	49
136	HDL Glycoprotein Composition and Site-Specific Glycosylation Differentiates Between Clinical Groups and Affects IL-6 Secretion in Lipopolysaccharide-Stimulated Monocytes. *Scientific Reports*, **2017**, 7, 43728	4.9	21
135	Spontaneous formation of nanometer scale tubular vesicles in aqueous mixtures of lipid and block copolymer amphiphiles. *Soft Matter*, **2017**, 13, 1107-1115	3.6	19
134	Mixing Water, Transducing Energy, and Shaping Membranes: Autonomously Self-Regulating Giant Vesicles. *Langmuir*, **2016**, 32, 2151-63	4	47
133	Cholesterol-Enriched Domain Formation Induced by Viral-Encoded, Membrane-Active Amphipathic Peptide. *Biophysical Journal*, **2016**, 110, 176-87	2.9	17
132	Spontaneous Vesiculation and pH-Induced Disassembly of a Lysosomotropic Detergent: Impacts on Lysosomotropism and Lysosomal Delivery. *Langmuir*, **2016**, 32, 13566-13575	4	4
131	Continuity of Monolayer-Bilayer Junctions for Localization of Lipid Raft Microdomains in Model Membranes. *Scientific Reports*, **2016**, 6, 26823	4.9	11
130	Cholesterol Partition and Condensing Effect in Phase-Separated Ternary Mixture Lipid Multilayers. *Biophysical Journal*, **2016**, 110, 1355-66	2.9	29
129	Brownian Dynamics of Electrostatically Adhering Small Vesicles to a Membrane Surface Induces Domains and Probes Viscosity. *Langmuir*, **2016**, 32, 5445-50	4	6
128	Medium Matters: Order through Fluctuations?. *Biophysical Journal*, **2015**, 108, 2751-3	2.9	
127	A New Route to Liposil Formation by an Interfacial Sol-Gel Process Confined by Lipid Bilayer. *ACS Applied Materials & Interfaces*, **2015**, 7, 25039-44	9.5	7
126	Protein receptor-independent plasma membrane remodeling by HAMLET: a tumoricidal protein-lipid complex. *Scientific Reports*, **2015**, 5, 16432	4.9	15
125	Lipid Membrane Deformation Accompanied by Disk-to-Ring Shape Transition of Cholesterol-Rich Domains. *Journal of the American Chemical Society*, **2015**, 137, 8692-5	16.4	13
124	Influence of Vesicle Size and Aqueous Solvent on Intact Phospholipid Vesicle Adsorption on Oxidized Gold Monitored Using Attenuated Total Reflectance Fourier Transform Infrared Spectroscopy. *Journal of Physical Chemistry C*, **2015**, 119, 2412-2418	3.8	7
123	Formation of cholesterol-rich supported membranes using solvent-assisted lipid self-assembly. *Langmuir*, **2014**, 30, 13345-52	4	43

122	On-demand self-assembly of supported membranes using sacrificial, anhydrobiotic sugar coats. *Journal of the American Chemical Society*, **2014**, 136, 60-3	16.4	17
121	Reconstituting ring-rafts in bud-mimicking topography of model membranes. *Nature Communications*, **2014**, 5, 4507	17.4	32
120	Mixing, diffusion, and percolation in binary supported membranes containing mixtures of lipids and amphiphilic block copolymers. *Journal of the American Chemical Society*, **2014**, 136, 10186-9	16.4	26
119	Analysis of lipid phase behavior and protein conformational changes in nanolipoprotein particles upon entrapment in sol-gel-derived silica. *Langmuir*, **2014**, 30, 9780-8	4	12
118	Polymersomes: Third-Party ATP Sensing in Polymersomes: A Label-Free Assay of Enzyme Reactions in Vesicular Compartments (Small 3/2014). *Small*, **2014**, 10, 441-441	11	1
117	Thermal annealing triggers collapse of biphasic supported lipid bilayers into multilayer islands. *Langmuir*, **2014**, 30, 4962-9	4	1
116	Oscillatory phase separation in giant lipid vesicles induced by transmembrane osmotic differentials. *ELife*, **2014**, 3, e03695	8.9	85
115	Characterization of buried metal-molecule-metal junctions using Fourier transform infrared microspectroscopy. *Review of Scientific Instruments*, **2014**, 85, 094103	1.7	
114	Third-party ATP sensing in polymersomes: a label-free assay of enzyme reactions in vesicular compartments. *Small*, **2014**, 10, 442-7, 441	11	17
113	Observation of Stripe Superstructure in the Two-Phase Coexistence Region of Cholesterol-Phospholipid Mixtures in Supported Membranes. *Journal of the American Chemical Society*, **2014**, 136, 16962-5	16.4	23
112	Lipid membrane domains for the selective adsorption and surface patterning of conjugated polyelectrolytes. *Langmuir*, **2013**, 29, 5214-21	4	3
111	Transient pearling and vesiculation of membrane tubes under osmotic gradients. *Faraday Discussions*, **2013**, 161, 167-76; discussion 273-303	3.6	38
110	Lithographically defined macroscale modulation of lateral fluidity and phase separation realized via patterned nanoporous silica-supported phospholipid bilayers. *Journal of the American Chemical Society*, **2013**, 135, 15718-21	16.4	8
109	Interaction of sphingomyelinase with sphingomyelin-containing supported membranes. *Soft Matter* , **2013**, 9, 10413	3.6	
108	Evolution of conformational order during self-assembly of n-alkanethiols on Hg droplets: an infrared spectromicroscopy study. *Langmuir*, **2013**, 29, 8203-7	4	5
107	Interlamellar organization of phase separated domains in multi-component lipid multilayers: energetic considerations. *International Journal of Molecular Sciences*, **2013**, 14, 3824-33	6.3	4
106	Role of squalene in the organization of monolayers derived from lipid extracts of Halobacterium salinarum. *Langmuir*, **2013**, 29, 7922-30	4	23
105	Hybrid, Nanoscale Phospholipid/Block Copolymer Vesicles. *Polymers*, **2013**, 5, 1102-1114	4.5	46

104	Inhibiting host-pathogen interactions using membrane-based nanostructures. *Trends in Biotechnology*, **2012**, 30, 323-30	15.1	13
103	Stability of uni- and multillamellar spherical vesicles. *ChemPhysChem*, **2012**, 13, 314-22	3.2	20
102	X-Ray Reflectivity and Diffuse Scattering Study of Effect of Ca2+ on Cushioned Lipid Bilayer. *Biophysical Journal*, **2012**, 102, 382a	2.9	
101	A comparison of detergent action on supported lipid monolayers and bilayers. *Soft Matter*, **2012**, 8, 3734	3.6	6
100	Preparation, characterization, and surface immobilization of native vesicles obtained by mechanical extrusion of mammalian cells. *Integrative Biology (United Kingdom)*, **2012**, 4, 685-92	3.7	14
99	Long-range interlayer alignment of intralayer domains in stacked lipid bilayers. *Nature Materials*, **2012**, 11, 1074-80	27	91
98	Use of attenuated total reflectance Fourier transform infrared spectroscopy to study lactosylceramide and GD3 DMPC bilayers. *Colloids and Surfaces B: Biointerfaces*, **2012**, 94, 374-7	6	3
97	Osmotic gradients induce bio-reminiscent morphological transformations in giant unilamellar vesicles. *Frontiers in Physiology*, **2012**, 3, 120	4.6	27
96	Structural Configuration of Myelin Figures Using Fluorescence Microscopy. *International Journal of Photoenergy*, **2012**, 2012, 1-7	2.1	8
95	Use of attenuated total reflectance Fourier transform infrared spectroscopy to monitor the development of lipid aggregate structures. *Applied Optics*, **2012**, 51, 2842-6	1.7	3
94	The influence of spin-labeled fluorene compounds on the assembly and toxicity of the aβ peptide. *PLoS ONE*, **2012**, 7, e35443	3.7	13
93	Reconstituted lipoprotein: a versatile class of biologically-inspired nanostructures. *ACS Nano*, **2011**, 5, 42-57	16.7	83
92	In vivo lipidomics using single-cell Raman spectroscopy. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 3809-14	11.5	309
91	Programmed bending reveals dynamic mechanochemical coupling in supported lipid bilayers. *PLoS ONE*, **2011**, 6, e28517	3.7	6
90	The targeted delivery of multicomponent cargos to cancer cells by nanoporous particle-supported lipid bilayers. *Nature Materials*, **2011**, 10, 389-97	27	838
89	Liposil-supported lipid bilayers as a hybrid platform for drug delivery. *Soft Matter*, **2011**, 7, 1001-1005	3.6	13
88	pH responsive polymer cushions for probing membrane environment interactions. *Nano Letters*, **2011**, 11, 2169-72	11.5	35
87	A stripe-to-droplet transition driven by conformational transitions in a binary lipid-lipopolymer mixture at the air-water interface. *Langmuir*, **2011**, 27, 1900-6	4	6

86	Substrate suppression of thermal roughness in stacked supported bilayers. *Physical Review E*, **2011**, 84, 041914	2.4	6
85	Ganglioside embedded in reconstituted lipoprotein binds cholera toxin with elevated affinity. *Journal of Lipid Research*, **2010**, 51, 2731-8	6.3	21
84	Lactosomes: structural and compositional classification of unique nanometer-sized protein lipid particles of human milk. *Journal of Agricultural and Food Chemistry*, **2010**, 58, 11234-42	5.7	41
83	Thermally induced phase separation in supported bilayers of glycosphingolipid and phospholipid mixtures. *Biointerphases*, **2010**, 5, 120-30	1.8	10
82	Order at the edge of the bilayer: membrane remodeling at the edge of a planar supported bilayer is accompanied by a localized phase change. *Journal of the American Chemical Society*, **2010**, 132, 9320-7	16.4	33
81	Model studies of membrane disruption by photogenerated oxidative assault. *Journal of Physical Chemistry B*, **2010**, 114, 6377-85	3.4	11
80	Frustrated phase transformations in supported, interdigitating lipid bilayers. *Journal of Physical Chemistry B*, **2010**, 114, 215-9	3.4	12
79	Templating membrane assembly, structure, and dynamics using engineered interfaces. *Biochimica Et Biophysica Acta - Biomembranes*, **2010**, 1798, 839-50	3.8	24
78	A comparison of lateral diffusion in supported lipid monolayers and bilayers. *Soft Matter*, **2010**, 6, 5877	3.6	14
77	Substituent-dominated structure evolution during sol-gel synthesis: a comparative study of sol-gel processing of 3-glycidoxypropyltrimethoxysilane and methacryloxypropyltrimethoxysilane. *Langmuir*, **2010**, 26, 7708-16	4	6
76	Salt-induced lipid transfer between colloidal supported lipid bilayers. *Soft Matter*, **2010**, 6, 2628	3.6	7
75	Lipid bilayers on topochemically structured planar colloidal crystals: a versatile platform for optical recording of membrane-mediated ion transport. *Soft Matter*, **2010**, 6, 5334	3.6	3
74	Evidence for interleaflet slip during spreading of single lipid bilayers at hydrophilic solids. *ChemPhysChem*, **2009**, 10, 2787-90	3.2	5
73	Amino acid catalyzed bulk-phase gelation of organoalkoxysilanes via a transient co-operative self-assembly. *Journal of Physical Chemistry B*, **2009**, 113, 13491-8	3.4	9
72	Cell attachment behavior on solid and fluid substrates exhibiting spatial patterns of physical properties. *Langmuir*, **2009**, 25, 6992-6	4	19
71	Micropatterning of proteins and mammalian cells on indium tin oxide. *ACS Applied Materials & Interfaces*, **2009**, 1, 2592-601	9.5	51
70	Early stages of oxidative stress-induced membrane permeabilization: a neutron reflectometry study. *Journal of the American Chemical Society*, **2009**, 131, 3631-8	16.4	54
69	Lifecycle of a Lipoprotein from a Biophysical Perspective **2009**, 275-284		

68	Integrating sensing hydrogel microstructures into micropatterned hepatocellular cocultures. *Langmuir*, **2009**, 25, 3880-6	4	44
67	Nanofiber-supported phospholipid bilayers. *Soft Matter*, **2009**, 5, 5037	3.6	7
66	Membrane-substrate interface: phospholipid bilayers at chemically and topographically structured surfaces. *Biointerphases*, **2008**, 3, FA22	1.8	15
65	Direct visualization of phase transition dynamics in binary supported phospholipid bilayers using imaging ellipsometry. *Soft Matter*, **2008**, 4, 1161-1164	3.6	16
64	Protecting, patterning, and scaffolding supported lipid membranes using carbohydrate glasses. *Lab on A Chip*, **2008**, 8, 892-7	7.2	28
63	Patterning fluid and elastomeric surfaces using short-wavelength UV radiation and photogenerated reactive oxygen species. *Annual Review of Physical Chemistry*, **2008**, 59, 411-32	15.7	10
62	Evidence for leaflet-dependent redistribution of charged molecules in fluid supported phospholipid bilayers. *Langmuir*, **2008**, 24, 13250-3	4	34
61	Bridging across length scales: multi-scale ordering of supported lipid bilayers via lipoprotein self-assembly and surface patterning. *Journal of the American Chemical Society*, **2008**, 130, 11164-9	16.4	13
60	Bending membranes on demand: fluid phospholipid bilayers on topographically deformable substrates. *Nano Letters*, **2008**, 8, 866-71	11.5	47
59	Triglyceride-rich lipoprotein lipolysis increases aggregation of endothelial cell membrane microdomains and produces reactive oxygen species. *American Journal of Physiology - Heart and Circulatory Physiology*, **2008**, 295, H237-44	5.2	46
58	Surface-energy dependent spreading of lipid monolayers and bilayers. *Soft Matter*, **2007**, 3, 974-977	3.6	38
57	Patterned when wet: environment-dependent multifunctional patterns within amphiphilic colloidal crystals. *Nano Letters*, **2007**, 7, 3822-6	11.5	25
56	Dynamic recompartmentalization of supported lipid bilayers using focused femtosecond laser pulses. *Journal of the American Chemical Society*, **2007**, 129, 2422-3	16.4	12
55	Characterization of supported membranes on topographically patterned polymeric elastomers and their applications to microcontact printing. *Langmuir*, **2007**, 23, 12645-54	4	10
54	Optical detection of ion-channel-induced proton transport in supported phospholipid bilayers. *Nano Letters*, **2007**, 7, 2446-51	11.5	23
53	Characterization of physical properties of supported phospholipid membranes using imaging ellipsometry at optical wavelengths. *Biophysical Journal*, **2007**, 92, 1306-17	2.9	94
52	Glass bead probes of local structural and mechanical properties of fluid, supported membranes. *ChemPhysChem*, **2006**, 7, 1678-81	3.2	7
51	Lipid lateral mobility and membrane phase structure modulation by protein binding. *Journal of the American Chemical Society*, **2006**, 128, 15221-7	16.4	78

50	A class of supported membranes: formation of fluid phospholipid bilayers on photonic band gap colloidal crystals. *Journal of the American Chemical Society*, **2006**, 128, 62-3	16.4	46
49	Nonequilibrium patterns of cholesterol-rich chemical heterogenieties within single fluid supported phospholipid bilayer membranes. *Langmuir*, **2006**, 22, 5374-84	4	17
48	Fas signaling induces raft coalescence that is blocked by cholesterol depletion in human RPE cells undergoing apoptosis. *Investigative Ophthalmology and Visual Science*, **2006**, 47, 2172-8		15
47	Materials Science of Supported Lipid Membranes. *MRS Bulletin*, **2006**, 31, 507-512	3.2	41
46	Effects of triglyceride-rich lipoproteins and their lipolysis products on endothelial cell membrane microdomains. *FASEB Journal*, **2006**, 20, A915	0.9	
45	Energetics of Self-Assembly and Chain Confinement in Silver Alkanethiolates: Enthalpy□Entropy Interplay. *Chemistry of Materials*, **2005**, 17, 5428-5438	9.6	48
44	Phospholipid morphologies on photochemically patterned silane monolayers. *Journal of the American Chemical Society*, **2005**, 127, 6752-65	16.4	80
43	Surfactant removal and silica condensation during the photochemical calcination of thin film silica mesophases. *Journal of Physical Chemistry B*, **2005**, 109, 14551-6	3.4	44
42	Neutron reflectivity study of lipid membranes assembled on ordered nanocomposite and nanoporous silica thin films. *Langmuir*, **2005**, 21, 2865-70	4	43
41	Formation of spatially patterned colloidal photonic crystals through the control of capillary forces and template recognition. *Langmuir*, **2005**, 21, 11588-91	4	24
40	Photoinduced grating formation in azo-dye-labeled phospholipid thin films by 244-nm light. *Optics Letters*, **2005**, 30, 501-3	3	18
39	Transition from homogeneous Langmuir-Blodgett monolayers to striped bilayers driven by a wetting instability in octadecylsiloxane monolayers. *Langmuir*, **2005**, 21, 10468-74	4	11
38	Photochemical template removal and spatial patterning of zeolite MFI thin films using UV/ozone treatment. *Microporous and Mesoporous Materials*, **2005**, 87, 45-51	5.3	19
37	Direct Patterning of Membrane-Derivatized Colloids Using In-Situ UV-Ozone Photolithography. *Advanced Materials*, **2005**, 17, 1477-1480	24	34
36	Direct photochemical patterning and refunctionalization of supported phospholipid bilayers. *Journal of the American Chemical Society*, **2004**, 126, 13962-72	16.4	69
35	Membrane Photolithography: Direct Micropatterning and Manipulation of Fluid Phospholipid Membranes in the Aqueous Phase Using Deep-UV Light. *Advanced Materials*, **2004**, 16, 1184-1189	24	74
34	Non-thermal calcination by ultraviolet irradiation in the synthesis of microporous materials. *Microporous and Mesoporous Materials*, **2004**, 76, 17-22	5.3	28
33	Evidence for cholera aggregation on GM1-decorated lipid bilayers. *Colloids and Surfaces B: Biointerfaces*, **2004**, 33, 45-51	6	32

32	The Biomolecular Interface. *Langmuir*, **2003**, 19, 1449-1450	4	7
31	Photochemical Pattern Transfer and Enhancement of Thin Film Silica Mesophases. *Nano Letters*, **2003**, 3, 719-722	11.5	43
30	Rigid Molecular Model for the Assembly Characteristics and Optimal Structure in Molecular Monolayers of Alkanethiols on Au(111)□ *Langmuir*, **2003**, 19, 1474-1485	4	12
29	Alkyl Selenide- and Alkyl Thiolate-Functionalized Gold Nanoparticles: Chain Packing and Bond Nature. *Langmuir*, **2003**, 19, 9450-9458	4	104
28	Mechanism of Surfactant Removal from Ordered Nanocomposite Silica Thin Films by Deep-UV Light Exposure. *Materials Research Society Symposia Proceedings*, **2003**, 788, 7111		3
27	Kinetics and Interpenetration of Ionically Self-Assembled Dendrimer and PAZO Multilayers. *Journal of Physical Chemistry B*, **2002**, 106, 1697-1702	3.4	37
26	Phase Behavior of a Structurally Constrained Organic□Inorganic Crystal: Temperature-Dependent Infrared Spectroscopy of Silvern-Dodecanethiolate. *Journal of Physical Chemistry B*, **2000**, 104, 627-635	3.4	54
25	A New Application of UV□Ozone Treatment in the Preparation of Substrate-Supported, Mesoporous Thin Films. *Chemistry of Materials*, **2000**, 12, 3879-3884	9.6	116
24	Phase-transition based transduction in a biosensor. *Synthetic Metals*, **1999**, 102, 1452-1453	3.6	1
23	Infrared Spectroscopic Characterization of Lipid□Alkylsiloxane Hybrid Bilayer Membranes at Oxide Substrates. *Langmuir*, **1999**, 15, 5369-5381	4	40
22	Defects in Microcontact-Printed and Solution-Grown Self-Assembled Monolayers. *Langmuir*, **1999**, 15, 1595-1598	4	17
21	Characterization of Chain Molecular Assemblies in Long-Chain, Layered Silver Thiolates:□A Joint Infrared Spectroscopy and X-ray Diffraction Study. *Journal of Physical Chemistry B*, **1999**, 103, 2850-2861	3.4	102
20	Study of the Conformational Structure and Cluster Formation in a Langmuir□Blodgett Film Using Second Harmonic Generation, Second Harmonic Microscopy, and FTIR Spectroscopy. *Langmuir*, **1999**, 15, 1275-1282	4	28
19	Nonequilibrium Pattern Formation in Langmuir-Phase Assisted Assembly of Alkylsiloxane Monolayers. *Journal of Physical Chemistry B*, **1999**, 103, 10149-10157	3.4	13
18	Multilayer Self-Assembly of Amphiphilic Cyclodextrin Hosts on Bare and Modified Gold Substrates: Controlling Aggregation via Surface Modification. *Langmuir*, **1998**, 14, 137-144	4	26
17	Infrared characterization of amorphous and polycrystalline D2O ice on controlled wettability self-assembled alkanethiolate monolayers. *Journal of Chemical Physics*, **1997**, 106, 3038-3048	3.9	31
16	Scanning Force Microscopy Study of Patterned Monolayers of Alkanethiols on Gold. Importance of Tip□Sample Contact Area in Interpreting Force Modulation and Friction Force Microscopy Images. *Langmuir*, **1997**, 13, 373-377	4	59
15	n-Alkylsiloxanes: From Single Monolayers to Layered Crystals. The Formation of Crystalline Polymers from the Hydrolysis of n-Octadecyltrichlorosilane. *Journal of the American Chemical Society*, **1997**, 119, 3135-3143	16.4	268

14	Electron-Beam-Induced Damage in Self-Assembled Monolayers. *The Journal of Physical Chemistry*, **1996**, 100, 15900-15909		107
13	Nanometer-scale phase separation in mixed composition self-assembled monolayers. *Nanotechnology*, **1996**, 7, 438-442	3.4	97
12	Sub-10 nm lithography with self-assembled monolayers. *Applied Physics Letters*, **1996**, 68, 1504-1506	3.4	161
11	Prepolymerized LangmuirBlodgett Films of n-Octadecylsiloxane Monolayers. *ACS Symposium Series*, **1996**, 355-363	0.4	
10	Self-Assembled Monolayers and Multilayers of Conjugated Thiols, .alpha.,.omega.-Dithiols, and Thioacetyl-Containing Adsorbates. Understanding Attachments between Potential Molecular Wires and Gold Surfaces. *Journal of the American Chemical Society*, **1995**, 117, 9529-9534	16.4	660
9	Evidence for a Unique Chain Organization in Long Chain Silane Monolayers Deposited on Two Widely Different Solid Substrates. *Langmuir*, **1995**, 11, 2357-2360	4	272
8	Correlation of Molecular Organization and Substrate Wettability in the Self-Assembly of n-Alkylsiloxane Monolayers. *The Journal of Physical Chemistry*, **1995**, 99, 9996-10008		87
7	Optical characterization of electronic transitions arising from the Au/S interface of self-assembled n-alkanethiolate monolayers. *Chemical Physics Letters*, **1995**, 246, 90-94	2.5	75
6	The existence of structure progressions and wetting transitions in intermediately disordered monolayer alkyl chain assemblies. *Journal of Chemical Physics*, **1994**, 100, 1761-1764	3.9	52
5	An Intrinsic Relationship between Molecular Structure in Self-Assembled n-Alkylsiloxane Monolayers and Deposition Temperature. *The Journal of Physical Chemistry*, **1994**, 98, 7577-7590		403
4	Effects of Optical Anisotropy on Spectro-ellipsometric Data for Thin Films and Surfaces. *Physics of Thin Films*, **1994**, 19, 279-314		2
3	A new class of organized self-assembled monolayers: alkane thiols on gallium arsenide(100). *Journal of the American Chemical Society*, **1992**, 114, 1514-1515	16.4	217
2	Quantitative determination of molecular structure in multilayered thin films of biaxial and lower symmetry from photon spectroscopies. I. Reflection infrared vibrational spectroscopy. *Journal of Chemical Physics*, **1992**, 96, 927-945	3.9	308
1	Comparison of the structures and wetting properties of self-assembled monolayers of n-alkanethiols on the coinage metal surfaces, copper, silver, and gold. *Journal of the American Chemical Society*, **1991**, 113, 7152-7167	16.4	1747