Abraham Ulman

List of Publications by Year
in descending order

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69 papers	15,367 citations	66234 42 h-index	114278 63 g-index
71 all docs	71 docs citations	71 times ranked	13307 citing authors

#	Article	IF	Citations
1	Formation and Structure of Self-Assembled Monolayers. Chemical Reviews, 1996, 96, 1533-1554.	23.0	7,362
2	Structure and binding of alkanethiolates on gold and silver surfaces: implications for self-assembled monolayers. Journal of the American Chemical Society, 1993, 115, 9389-9401.	6.6	914
3	Activity ofCandida rugosaLipase Immobilized on Î³-Fe2O3Magnetic Nanoparticles. Journal of the American Chemical Society, 2003, 125, 1684-1685.	6.6	545
4	LANGMUIRâ€“BLODGETT FILMS. , 1991, , 101-236.		415
5	Surface-Initiated Anionic Polymerization of Styrene by Means of Self-Assembled Monolayers. Journal of the American Chemical Society, 1999, 121, 1016-1022.	6.6	388
6	Surface Initiated Living Cationic Polymerization of 2-Oxazolines. Journal of the American Chemical Society, 1998, 120, 243-247.	6.6	336
7	Incorporation of phenoxy groups in self-assembled monolayers of trichlorosilane derivatives. Effects on film thickness, wettability, and molecular orientation. Journal of the American Chemical Society, 1988, 110, 6136-6144.	6.6	331
8	Impedance Spectroscopy of Self-Assembled Monolayers on Au(111):Â Sodium Ferrocyanide Charge Transfer at Modified Electrodes. Langmuir, 1998, 14, 3011-3018.	1.6	304
9	Novel One-Phase Synthesis of Thiol-Functionalized Gold, Palladium, and Iridium Nanoparticles Using Superhydride. Langmuir, 1999, 15, 3486-3491.	1.6	284
10	Packing and molecular orientation of alkanethiol monolayers on gold surfaces. Langmuir, 1989, 5, 1147-1152.	1.6	251
11	Surface potential studies of alkyl-thiol monolayers adsorbed on gold. Chemical Physics Letters, 1990, 170, 462-466.	1.2	240
12	Formation of multilayers by self-assembly. Langmuir, 1989, 5, 101-111.	1.6	206
13	Sonochemical Synthesis of Functionalized Amorphous Iron Oxide Nanoparticles. Langmuir, 2001, 17, 5093-5097.	1.6	206
14	Nanocomposites by Surface-Initiated Living Cationic Polymerization of 2-Oxazolines on Functionalized Gold Nanoparticles. Macromolecules, 2001, 34, 1606-1611.	2.2	196
15	Self-assembled monolayers of alkanethiols containing a polar aromatic group: effects of the dipole position on molecular packing, orientation, and surface wetting properties. Journal of the American Chemical Society, 1991, 113, 4121-4131.	6.6	195
16	Self-assembled monolayers of alkyltrichiorosilanes: Building blocks for future organic materials. Advanced Materials, 1990, 2, 573-582.	11.1	191
17	Self-Assembled Rigid Monolayers of 4â€˜-Substituted-4-mercaptobiphenyls on Gold and Silver Surfaces. Langmuir, 2001, 17, 95-106.	1.6	179
18	Impedance Spectroscopy of Self-Assembled Monolayers on Au(111):â€‰ Evidence for Complex Double-Layer Structure in Aqueous NaClO4 at the Potential of Zero Charge. Journal of Physical Chemistry B, 1997, 101, 8550-8558.	1.2	178

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19	Concentration-driven surface transition in the wetting of mixed alkanethiol monolayers on gold. Journal of the American Chemical Society, 1991, 113, 1499-1506.	6.6	171
20	Self-Assembled Monolayers of 4-Mercaptobiphenyls. Accounts of Chemical Research, 2001, 34, 855-863.	7.6	171
21	Contact angle stability: Reorganization of monolayer surfaces?. Langmuir, 1991, 7, 156-161.	1.6	155
22	Mixed Self-assembled Monolayers of Rigid Biphenyl Thiols:Â Impact of Solvent and Dipole Moment. Journal of the American Chemical Society, 1998, 120, 9662-9667.	6.6	113
23	One-Phase Synthesis of Thiol-Functionalized Platinum Nanoparticles. Langmuir, 1999, 15, 4314-4316.	1.6	113
24	Mixed Self-Assembled Monolayers of Alkanethiolates on Ultrasmooth Gold Do Not Exhibit Contact-Angle Hysteresis. Journal of the American Chemical Society, 2005, 127, 4-5.	6.6	111
25	Alkyl Selenide- and Alkyl Thiolate-Functionalized Gold Nanoparticles:â€‰ Chain Packing and Bond Nature. Langmuir, 2003, 19, 9450-9458.	1.6	109
26	Magnetic Enhancement of Î³-Fe2O3Nanoparticles by Sonochemical Coating. Chemistry of Materials, 2002, 14, 1778-1787.	3.2	104
27	Doping Î³-Fe2O3Nanoparticles with Mn(III) Suppresses the Transition to the Î±-Fe2O3Structure. Journal of the American Chemical Society, 2003, 125, 11470-11471.	6.6	104
28	Nanostructured Polymer Brushes. Small, 2007, 3, 459-465.	5.2	84
29	Monolayers having large in-plane dipole moments: characterization of sulfone-containing self-assembled monolayers of alkanethiols on gold by Fourier transform infrared spectroscopy, x-ray photoelectron spectroscopy and wetting. Langmuir, 1991, 7, 2700-2709.	1.6	79
30	Nucleation and Growth of Glycine Crystals on Self-Assembled Monolayers on Gold. Langmuir, 2000, 16, 3791-3796.	1.6	73
31	Crystallization of Amino Acids on Self-Assembled Monolayers of Rigid Thiols on Gold. Langmuir, 2002, 18, 5886-5898.	1.6	68
32	X-ray Photoelectron Spectroscopy and Near-Edge X-ray Absorption Fine Structure Study of Water Adsorption on Pyridine-Terminated Thiolate Self-Assembled Monolayers. Langmuir, 2004, 20, 11022-11029.	1.6	68
33	Mixed Ironâ^'Manganese Oxide Nanoparticles. Journal of Physical Chemistry B, 2004, 108, 14876-14883.	1.2	63
34	Adsorption Kinetics of Rigid 4-Mercaptobiphenyls on Gold. Journal of the American Chemical Society, 2000, 122, 3688-3694.	6.6	61
35	Mixed Self-Assembled Monolayers of Highly Polar Rigid Biphenyl Thiols. Langmuir, 1999, 15, 2095-2098.	1.6	60
36	Effect of Chemical Functionality on Adhesion Hysteresis. Langmuir, 1997, 13, 6850-6856.	1.6	54

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37	On the formation of ordered two-dimensional molecular assemblies. Langmuir, 1992, 8, 894-897.	1.6	53
38	SELFâ€“ASSEMBLED MONOLAYERS. , 1991, , 237-304.		52
39	Mixed alkanethiol monolayers on gold surfaces: Wetting and stability studies. Advances in Colloid and Interface Science, 1992, 39, 175-224.	7.0	52
40	Adhesion Hysteresis Studies of Extracted Poly(dimethylsiloxane) Using Contact Mechanics. Langmuir, 1997, 13, 6333-6338.	1.6	51
41	Wetting and Fourier Transform Infrared Spectroscopy Studies of Mixed Self-Assembled Monolayers of 4â€˜-Methyl-4-mercaptobiphenyl and 4â€˜-Hydroxy-4-mercaptobiphenyl. Langmuir, 1998, 14, 3983-3985.	1.6	49
42	Self-assembling double layers on gold surfaces: the merging of two chemistries. Langmuir, 1989, 5, 1418-1420.	1.6	46
43	Self-assembled monolayers of rigid thiols. Reviews in Molecular Biotechnology, 2000, 74, 175-188.	2.9	46
44	Nanocomposites by Electrostatic Interactions:Â 1. Impact of Sublayer Quality on the Organization of Functionalized Nanoparticles on Charged Self-Assembled Layers. Langmuir, 2000, 16, 7554-7557.	1.6	46
45	Self-Assembled Multilayers of 4,4â€˜-Dimercaptobiphenyl Formed by Cu(II)-Catalyzed Oxidation. Langmuir, 2002, 18, 6207-6216.	1.6	44
46	Thermal stability of Langmuir-Blodgett and self-assembled films: A possible scenario for order-disorder transitions. Advanced Materials, 1991, 3, 298-303.	11.1	42
47	Combinatorial Approach To Study Enzyme/Surface Interactions. Langmuir, 2005, 21, 5237-5241.	1.6	42
48	Sonochemical Preparation of Silane-Coated Titania Particles. Langmuir, 2001, 17, 1726-1730.	1.6	38
49	Molecular Weight Effects in Adhesion. Langmuir, 1999, 15, 8447-8450.	1.6	34
50	Surface plasmon enhanced Raman spectroscopy with HS(CH2)21OH on different metals. Journal of Chemical Physics, 1993, 98, 5912-5919.	1.2	33
51	Optically Induced Band Shifts in Infrared Spectra of Mixed Self-assembled Monolayers of Biphenyl Thiols. Langmuir, 1999, 15, 5555-5559.	1.6	31
52	A novel self-assembling monolayer film containing a sulfone-substituted aromatic group. Langmuir, 1990, 6, 1512-1518.	1.6	29
53	Surface Absorption of Monolayers. MRS Bulletin, 1995, 20, 46-51.	1.7	29
54	Effect of perturbing strata on chain conformations and ordering in closely packed layered structures of chain molecules. Langmuir, 1993, 9, 1071-1081.	1.6	27

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55	Interplay of wetting and adsorption at mixed selfâ€assembled monolayers. Journal of Chemical Physics, 1995, 102, 6865-6873.	1.2	25
56	Acidâ^'Base Interaction in the Adhesion between Two Solid Surfaces. Langmuir, 1999, 15, 8783-8786.	1.6	24
57	Structure of Mercaptobiphenyl Monolayers on Mercury. Journal of Physical Chemistry B, 2005, 109, 12534-12543.	1.2	19
58	Mixed Self-Assembled Multilayer of 4,4â€˜-Dimercaptobiphenyl and 1,8-Octanedithiol. Journal of Physical Chemistry B, 2003, 107, 11721-11725.	1.2	16
59	Highly active engineered-enzyme oriented monolayers: formation, characterization and sensing applications. Journal of Nanobiotechnology, 2011, 9, 26.	4.2	15
60	ANALYTICAL TOOLS. , 1991, , 1-99.		9
61	Surface-Initiated Polymerization on Self-Assembled Monolayers: Effect of Reaction Conditions. Macromolecular Symposia, 2004, 217, 223-230.	0.4	8
62	Wetting studies of molecularly heterogeneous surfaces using two liquid systems. Thin Solid Films, 1992, 210-211, 810-814.	0.8	7
63	Self-assembled monolayers of alkanethiols on gold: sulfone groups enhancing two-dimensional organization. Thin Solid Films, 1992, 210-211, 806-809.	0.8	6
64	MODELING OF MONOLAYERS. , 1991, , 305-338.		3
65	Studies of adhesion to molecularly engineered surfaces using contact mechanics methods. Macromolecular Symposia, 1998, 126, 1-6.	0.4	3
66	Isotope Effect in Adhesion. Journal of Physical Chemistry B, 2000, 104, 5768-5771.	1.2	3
67	Adhesion studies using contact mechanics. Israel Journal of Chemistry, 2000, 40, 107-121.	1.0	3
68	Molecular Mechanics and Dynamics Studies of Chemisorbed Monolayers of Alkanethiolates. Materials Research Society Symposia Proceedings, 1992, 291, 211.	0.1	0
69	The Effect of Chemical Functionality on Adhesion Hysteresis: A Study using the JKR Method. Materials Research Society Symposia Proceedings, 1996, 461, 81.	0.1	0