Milan Mrksich

List of Publications by Year
in descending order

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		6486	6024
231	28,735	82	165
papers	citations	h-index	g-index

249	249	249	29529
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Efficient Enzymatic Incorporation of Dehydroalanine Based on SAMDI-Assisted Identification of Optimized Tags for OspF/SpvC. ACS Chemical Biology, 2022, , .	1.6	1
2	High-Throughput Microfluidics Platform for Intracellular Delivery and Sampling of Biomolecules from Live Cells. ACS Nano, 2022, 16, 7937-7946.	7.3	10
3	Cell-free prototyping enables implementation of optimized reverse Î²-oxidation pathways in heterotrophic and autotrophic bacteria. Nature Communications, 2022, 13, .	5.8	27
4	Synthetic Tuning of Domain Stoichiometry in Nanobodyâ€“Enzyme Megamolecules. Bioconjugate Chemistry, 2021, 32, 143-152.	1.8	6
5	Exploring the Ligand Preferences of the PHD1 Domain of Histone Demethylase KDM5A Reveals Tolerance for Modifications of the Q5 Residue of Histone 3. ACS Chemical Biology, 2021, 16, 205-213.	1.6	4
6	Synthesis, Characterization, and Simulation of Four-Armed Megamolecules. Biomacromolecules, 2021, 22, 2363-2372.	2.6	4
7	To Cryo or Not to Cryo? A Consideration of Length Scales During Macromolecule Sample Preparation. Microscopy and Microanalysis, 2021, 27, 1404-1407.	0.2	0
8	Phase Retrieval Imaging for Soft Materials at Low-Voltage. Microscopy and Microanalysis, 2021, 27, 1826-1828.	0.2	0
9	Storing and Reading Information in Mixtures of Fluorescent Molecules. ACS Central Science, 2021, 7, 1728-1735.	5.3	29
10	Development of an Enzymeâ€Inhibitor Reaction Using Cellular Retinoic Acid Binding Protein II for Oneâ€Pot Megamolecule Assembly. Chemistry - A European Journal, 2021, , .	1.7	3
11	Characterizing Enzyme Cooperativity with Imaging SAMDIâ€MS. Chemistry - A European Journal, 2021, , .	1.7	1
12	Morphological features of single cells enable accurate automated classification of cancer from non-cancer cell lines. Scientific Reports, 2021, 11, 24375.	1.6	9
13	NADH inhibition of SIRT1 links energy state to transcription during time-restricted feeding. Nature Metabolism, 2021, 3, 1621-1632.	5.1	26
14	Using Peptide Arrays to Profile Phosphatase Activity in Cell Lysates. Chemistry - A European Journal, 2020, 26, 165-170.	1.7	9
15	High-Throughput Synthesis and Analysis of Intact Glycoproteins Using SAMDI-MS. Analytical Chemistry, 2020, 92, 1963-1971.	3.2	18
16	Computational planning of the synthesis of complex natural products. Nature, 2020, 588, 83-88.	13.7	131
17	High Throughput Screening with SAMDI Mass Spectrometry for Directed Evolution. Journal of the American Chemical Society, 2020, 142, 19804-19808.	6.6	17
18	Design and Synthesis of Megamolecule Mimics of a Therapeutic Antibody. Journal of the American Chemical Society, 2020, 142, 13657-13661.	6.6	10

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19	Enzyme Sampling: Temporal Sampling of Enzymes from Live Cells by Localized Electroporation and Quantification of Activity by SAMDI Mass Spectrometry (Small 26/2020). Small, 2020, 16, 2070144.	5.2	0
20	Soft Microscopy: Strategies for Contrast Enhancement of Macromolecules. Microscopy and Microanalysis, 2020, 26, 1026-1028.	0.2	4
21	High-throughput photocapture approach for reaction discovery. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 13261-13266.	3.3	47
22	Outerâ€Membrane Protease (OmpT) Based E. coli Sensing with Anionic Polythiophene and Unlabeled Peptide Substrate. Angewandte Chemie - International Edition, 2020, 59, 18068-18077.	7.2	3
23	Role of Lipopolysaccharide in Protecting OmpT from Autoproteolysis during In Vitro Refolding. Biomolecules, 2020, 10, 922.	1.8	6
24	Outerâ€Membrane Protease (OmpT) Based E. coli Sensing with Anionic Polythiophene and Unlabeled Peptide Substrate. Angewandte Chemie, 2020, 132, 18224-18233.	1.6	3
25	Solid-Phase Synthesis of Megamolecules. Journal of the American Chemical Society, 2020, 142, 4534-4538.	6.6	9
26	Sequential Glycosylation of Proteins with Substrate-Specific N-Glycosyltransferases. ACS Central Science, 2020, 6, 144-154.	5.3	31
27	Modeling Synthesized Protein Megamolecules: Structure, Dynamics, and Functions. Biophysical Journal, 2020, 118, 517a.	0.2	0
28	A high-throughput SAMDI-mass spectrometry assay for isocitrate dehydrogenase 1. Analyst, The, 2020, 145, 3899-3908.	1.7	11
29	Bump-and-Hole Engineering Identifies Specific Substrates of Glycosyltransferases in Living Cells. Molecular Cell, 2020, 78, 824-834.e15.	4.5	70
30	Temporal Sampling of Enzymes from Live Cells by Localized Electroporation and Quantification of Activity by SAMDI Mass Spectrometry. Small, 2020, 16, e2000584.	5.2	17
31	Label-Free Assay of Protein Tyrosine Phosphatase Activity in Single Cells. Analytical Chemistry, 2019, 91, 13206-13212.	3.2	8
32	Subcellular Control over Focal Adhesion Anisotropy, Independent of Cell Morphology, Dictates Stem Cell Fate. ACS Nano, 2019, 13, 11144-11152.	7.3	46
33	Profiling Protein Tyrosine Phosphatase Specificity with Self-Assembled Monolayers for Matrix-Assisted Laser Desorption/Ionization Mass Spectrometry and Peptide Arrays. ACS Combinatorial Science, 2019, 21, 760-769.	3.8	12
34	Plasmonic Microneedle Arrays for in Situ Sensing with Surface-Enhanced Raman Spectroscopy (SERS). Nano Letters, 2019, 19, 6862-6868.	4.5	83
35	Profiling Protease Activity in Laundry Detergents with Peptide Arrays and SAMDI Mass Spectrometry. Industrial & Engineering Chemistry Research, 2019, 58, 10692-10697.	1.8	5
36	High-throughput mapping of CoA metabolites by SAMDI-MS to optimize the cell-free biosynthesis of HMG-CoA. Science Advances, 2019, 5, eaaw9180.	4.7	35

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37	Storage of Information Using Small Organic Molecules. ACS Central Science, 2019, 5, 911-916.	5.3	70
38	Using Peptide Arrays To Discover the Sequence-Specific Acetylation of the Histidine-Tyrosine Dyad. Biochemistry, 2019, 58, 1810-1817.	1.2	7
39	Sequential Photoactivation of Self-Assembled Monolayers to Direct Cell Adhesion and Migration. Langmuir, 2019, 35, 5937-5943.	1.6	7
40	Exploration of the nanomedicine-design space with high-throughput screening and machine learning. Nature Biomedical Engineering, 2019, 3, 318-327.	11.6	119
41	Using Microfluidics and Imaging SAMDI-MS To Characterize Reaction Kinetics. ACS Central Science, 2019, 5, 486-493.	5.3	9
42	A cell-free biosynthesis platform for modular construction of protein glycosylation pathways. Nature Communications, 2019, 10, 5404.	5.8	91
43	Efficient Syntheses of Diverse, Medicinally Relevant Targets Planned by Computer and Executed in the Laboratory. CheM, 2018, 4, 522-532.	5.8	227
44	How many human proteoforms are there?. Nature Chemical Biology, 2018, 14, 206-214.	3.9	580
45	Synthesis of Cyclic Megamolecules. Journal of the American Chemical Society, 2018, 140, 6391-6399.	6.6	20
46	Peptide Arrays: Development and Application. Analytical Chemistry, 2018, 90, 266-282.	3.2	90
47	Photoactivatable Reaction for Covalent Nanoscale Patterning of Multiple Proteins. ACS Applied Materials & Interfaces, 2018, 10, 40452-40459.	4.0	11
48	Dynamic substrates for cell biology. Current Opinion in Colloid and Interface Science, 2018, 38, 80-87.	3.4	13
49	High-Throughput Enzyme Kinetics with 3D Microfluidics and Imaging SAMDI Mass Spectrometry. Analytical Chemistry, 2018, 90, 13096-13103.	3.2	14
50	Long-Range Energy Transfer in Protein Megamolecules. Journal of the American Chemical Society, 2018, 140, 15731-15743.	6.6	13
51	An Unusual Salt Effect in an Interfacial Nucleophilic Substitution Reaction. Langmuir, 2018, 34, 6713-6718.	1.6	2
52	An Immobilized Enzyme Reactor for Spatiotemporal Control over Reaction Products. Small, 2018, 14, e1800923.	5.2	11
53	Single-pot glycoprotein biosynthesis using a cell-free transcription-translation system enriched with glycosylation machinery. Nature Communications, 2018, 9, 2686.	5.8	149
54	Design of glycosylation sites by rapid synthesis and analysis of glycosyltransferases. Nature Chemical Biology, 2018, 14, 627-635.	3.9	113

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55	Combining SAMDI Mass Spectrometry and Peptide Arrays to Profile Phosphatase Activities. Methods in Enzymology, 2018, 607, 389-403.	0.4	15
56	Traceless Immobilization of Analytes for High-Throughput Experiments with SAMDI Mass Spectrometry. Journal of the American Chemical Society, 2018, 140, 8060-8063.	6.6	19
57	Potent laminin-inspired antioxidant regenerative dressing accelerates wound healing in diabetes. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 6816-6821.	3.3	117
58	Nanopatterned Extracellular Matrices Enable Cell-Based Assays with a Mass Spectrometric Readout. Nano Letters, 2017, 17, 1373-1377.	4.5	19
59	Bifunctional conjugates with potent inhibitory activity towards cyclooxygenase and histone deacetylase. Bioorganic and Medicinal Chemistry, 2017, 25, 1202-1218.	1.4	26
60	A Bottomâ€Up Proteomic Approach to Identify Substrate Specificity of Outerâ€Membrane Protease OmpT. Angewandte Chemie - International Edition, 2017, 56, 16531-16535.	7.2	36
61	Active Site Metal Identity Alters Histone Deacetylase 8 Substrate Selectivity: A Potential Novel Regulatory Mechanism. Biochemistry, 2017, 56, 5663-5670.	1.2	11
62	A Bottomâ€Up Proteomic Approach to Identify Substrate Specificity of Outerâ€Membrane Protease OmpT. Angewandte Chemie, 2017, 129, 16758-16762.	1.6	8
63	Machine Learning on Signal-to-Noise Ratios Improves Peptide Array Design in SAMDI Mass Spectrometry. Analytical Chemistry, 2017, 89, 9039-9047.	3.2	6
64	Peptide delivery with poly(ethylene glycol) diacrylate microneedles through swelling effect. Bioengineering and Translational Medicine, 2017, 2, 258-267.	3.9	52
65	InnenrÃ¼cktitelbild: A Bottomâ€Up Proteomic Approach to Identify Substrate Specificity of Outerâ€Membrane Protease OmpT (Angew. Chem. 52/2017). Angewandte Chemie, 2017, 129, 16905-16905.	1.6	0
66	An Assay Based on SAMDI Mass Spectrometry for Profiling Protein Interaction Domains. Journal of the American Chemical Society, 2017, 139, 10320-10327.	6.6	16
67	Micropatterning Facilitates the Longâ€Term Growth and Analysis of iPSCâ€Derived Individual Human Neurons and Neuronal Networks. Advanced Healthcare Materials, 2016, 5, 1894-1903.	3.9	18
68	Cellular Assays with a Molecular Endpoint Measured by SAMDI Mass Spectrometry. Small, 2016, 12, 3811-3818.	5.2	21
69	SIRT1 is a critical regulator of K562 cell growth, survival, and differentiation. Experimental Cell Research, 2016, 344, 40-52.	1.2	10
70	Bisboronic Acids for Selective, Physiologically Relevant Direct Glucose Sensing with Surface-Enhanced Raman Spectroscopy. Journal of the American Chemical Society, 2016, 138, 13952-13959.	6.6	103
71	Human Neuron Cultures: Micropatterning Facilitates the Longâ€Term Growth and Analysis of iPSCâ€Derived Individual Human Neurons and Neuronal Networks (Adv. Healthcare Mater. 15/2016). Advanced Healthcare Materials, 2016, 5, 1893-1893.	3.9	0
72	Measuring Drug Metabolism Kinetics and Drugâ€“Drug Interactions Using Self-Assembled Monolayers for Matrix-Assisted Laser Desorption-Ionization Mass Spectrometry. Analytical Chemistry, 2016, 88, 8604-8609.	3.2	13

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73	Toward Design Rules for Enzyme Immobilization in Hierarchical Mesoporous Metal-Organic Frameworks. CheM, 2016, 1, 154-169.	5.8	286
74	Cell-Based Screening: Cellular Assays with a Molecular Endpoint Measured by SAMDI Mass Spectrometry (Small 28/2016). Small, 2016, 12, 3810-3810.	5.2	0
75	The E. coli sirtuin CobB shows no preference for enzymatic and nonenzymatic lysine acetylation substrate sites. MicrobiologyOpen, 2015, 4, 66-83.	1.2	87
76	Discovery of SIRT3 Inhibitors Using SAMDI Mass Spectrometry. Journal of Biomolecular Screening, 2015, 20, 842-848.	2.6	51
77	In Vitro Histone Deacetylase Activity Screening. , 2015, , 319-332.		0
78	Acetyltransferase p300/CBP Associated Factor (PCAF) Regulates Crosstalk-Dependent Acetylation of Histone H3 by Distal Site Recognition. ACS Chemical Biology, 2015, 10, 157-164.	1.6	23
79	Design and structure activity relationship of tumor-homing histone deacetylase inhibitors conjugated to folic and pteroic acids. European Journal of Medicinal Chemistry, 2015, 96, 340-359.	2.6	28
80	A gene expression-based comparison of cell adhesion to extracellular matrix and RGD-terminated monolayers. Biomaterials, 2015, 52, 385-394.	5.7	23
81	SAMDI Mass Spectrometry-Enabled High-Throughput Optimization of a Traceless Petasis Reaction. ACS Combinatorial Science, 2015, 17, 658-662.	3.8	26
82	A structureâ€“activity relationship of non-peptide macrocyclic histone deacetylase inhibitors and their anti-proliferative and anti-inflammatory activities. Bioorganic and Medicinal Chemistry, 2015, 23, 7543-7564.	1.4	17
83	High Throughput Screening Identifies Potential Inhibitors of WHSC1/MMSET, a Histone Methyltransferase Oncoprotein in Multiple Myeloma and Acute Lymphocytic Leukemia. Blood, 2015, 126, 3251-3251.	0.6	1
84	Structural, Kinetic and Proteomic Characterization of Acetyl Phosphate-Dependent Bacterial Protein Acetylation. PLoS ONE, 2014, 9, e94816.	1.1	249
85	Self-assembled monolayer facilitates epithelial-mesenchymal interactions mimicking odontogenesis. Connective Tissue Research, 2014, 55, 26-33.	1.1	1
86	Combinatorial Screening of Mesenchymal Stem Cell Adhesion and Differentiation Using Polymer Pen Lithography. Methods in Cell Biology, 2014, 119, 261-276.	0.5	14
87	The antileishmanial activity of isoforms 6- and 8-selective histone deacetylase inhibitors. Bioorganic and Medicinal Chemistry Letters, 2014, 24, 4826-4830.	1.0	15
88	Geometric control of vimentin intermediate filaments. Biomaterials, 2014, 35, 1359-1366.	5.7	51
89	Circadian Clock NAD ⁺ Cycle Drives Mitochondrial Oxidative Metabolism in Mice. Science, 2013, 342, 1243417.	6.0	525
90	Profiling Deacetylase Activities in Cell Lysates with Peptide Arrays and SAMDI Mass Spectrometry. Analytical Chemistry, 2013, 85, 10635-10642.	3.2	48

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91	Label-assisted mass spectrometry for the acceleration of reaction discovery and optimization. Nature Chemistry, 2013, 5, 423-427.	6.6	85
92	Nanopatterned Substrates Increase Surface Sensitivity for Real-Time Biosensing. Journal of Physical Chemistry C, 2013, 117, 5286-5292.	1.5	16
93	3-Hydroxypyridin-2-thione as Novel Zinc Binding Group for Selective Histone Deacetylase Inhibition. Journal of Medicinal Chemistry, 2013, 56, 3492-3506.	2.9	66
94	Steady-State of an Enzymatic Reaction is Dependent on the Density of Reactant. Langmuir, 2013, 29, 294-298.	1.6	8
95	Synthesis and Structureâ€“Activity Relationship of 3-Hydroxypyridine-2-thione-Based Histone Deacetylase Inhibitors. Journal of Medicinal Chemistry, 2013, 56, 9969-9981.	2.9	34
96	Plectin-containing, centrally-localized focal adhesions exert traction forces in primary lung epithelial cells. Journal of Cell Science, 2013, 126, 3746-55.	1.2	14
97	A Selfâ€Adjuvanting Supramolecular Vaccine Carrying a Folded Protein Antigen. Advanced Healthcare Materials, 2013, 2, 1114-1119.	3.9	92
98	Modular Assembly of Protein Building Blocks To Create Precisely Defined Megamolecules. ChemBioChem, 2012, 13, 2331-2334.	1.3	21
99	Three-component reaction discovery enabled by mass spectrometry of self-assembled monolayers. Nature Chemistry, 2012, 4, 45-51.	6.6	51
100	The Mechanostability of Isolated Focal Adhesions Is Strongly Dependent on pH. Chemistry and Biology, 2012, 19, 711-720.	6.2	8
101	Cancer Prognostics by Direct Detection of p53â€Antibodies on Gold Surfaces by Impedance Measurements. Small, 2012, 8, 2106-2115.	5.2	20
102	Biosensors: Cancer Prognostics by Direct Detection of p53â€Antibodies on Gold Surfaces by Impedance Measurements (Small 13/2012). Small, 2012, 8, 1962-1962.	5.2	0
103	Discovery of glycosyltransferases using carbohydrate arrays and mass spectrometry. Nature Chemical Biology, 2012, 8, 769-773.	3.9	118
104	Directing Stem Cell Fate by Controlling the Affinity and Density of Ligandâ€“Receptor Interactions at the Biomaterials Interface. Angewandte Chemie - International Edition, 2012, 51, 4891-4895.	7.2	141
105	De novo motif for kinase mediated signaling across the cell membrane. Integrative Biology (United) Tj ETQq1 1 0.784314 rgBT /Overlo	0.6	2
106	A Conformation- and Ion-Sensitive Plasmonic Biosensor. Nano Letters, 2011, 11, 1098-1105.	4.5	109
107	Using Self-Assembled Monolayers To Understand Î±8Î²1-Mediated Cell Adhesion to RGD and FEI Motifs in Nephronectin. ACS Chemical Biology, 2011, 6, 1078-1086.	1.6	21
108	High-Throughput Screening of Small Molecule Libraries using SAMDI Mass Spectrometry. ACS Combinatorial Science, 2011, 13, 347-350.	3.8	83

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109	Combining carbochips and mass spectrometry to study the donor specificity for the Neisseria meningitidis Î²1,3-N-acetylglucosaminyltransferase LgtA. Bioorganic and Medicinal Chemistry Letters, 2011, 21, 5025-5028.	1.0	18
110	Enzymatic synthesis and properties of uridine-5â€²-O-(2-thiodiphospho)-N-acetylglucosamine. Carbohydrate Research, 2011, 346, 1576-1580.	1.1	9
111	A Spatially Propagating Biochemical Reaction. Angewandte Chemie - International Edition, 2011, 50, 706-708.	7.2	20
112	Multipotency retained. Nature Materials, 2011, 10, 559-560.	13.3	3
113	An Inhibitor of a Cell Adhesion Receptor Stimulates Cell Migration. Angewandte Chemie - International Edition, 2010, 49, 7706-7709.	7.2	26
114	Detection of Differentially Expressed Basal Cell Proteins by Mass Spectrometry. Molecular and Cellular Proteomics, 2010, 9, 351-361.	2.5	23
115	Profiling the selectivity of DNA ligases in an array format with mass spectrometry. Nucleic Acids Research, 2010, 38, e2-e2.	6.5	34
116	Using the Angle-Dependent Resonances of Molded Plasmonic Crystals To Improve the Sensitivities of Biosensors. Nano Letters, 2010, 10, 2549-2554.	4.5	78
117	Micropatterned Dynamically Adhesive Substrates for Cell Migration. Langmuir, 2010, 26, 17733-17738.	1.6	62
118	Cell Adhesion to Unnatural Ligands Mediated by a Bifunctional Protein. Journal of the American Chemical Society, 2010, 132, 9733-9737.	6.6	13
119	Rate Enhancement of an Interfacial Biochemical Reaction through Localization of Substrate and Enzyme by an Adaptor Domain. Journal of Physical Chemistry B, 2010, 114, 15113-15118.	1.2	23
120	Non-Peptide Macrocyclic Histone Deacetylase Inhibitors Derived from Tricyclic Ketolide Skeleton. Journal of Medicinal Chemistry, 2010, 53, 6100-6111.	2.9	65
121	Geometric cues for directing the differentiation of mesenchymal stem cells. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 4872-4877.	3.3	1,598
122	Peptide Arrays Identify Isoform-Selective Substrates for Profiling Endogenous Lysine Deacetylase Activity. ACS Chemical Biology, 2010, 5, 863-873.	1.6	82
123	An Adaptor Domainâ€Mediated Autocatalytic Interfacial Kinase Reaction. Chemistry - A European Journal, 2009, 15, 12303-12309.	1.7	22
124	Combining Mass Spectrometry and Peptide Arrays to Profile the Specificities of Histone Deacetylases. ChemBioChem, 2009, 10, 2159-2161.	1.3	57
125	The Platelet Integrin Î±IIbÎ²3 Binds to the RGD and AGD Motifs in Fibrinogen. Chemistry and Biology, 2009, 16, 990-1000.	6.2	60
126	Using self-assembled monolayers to model the extracellular matrix. Acta Biomaterialia, 2009, 5, 832-841.	4.1	129

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127	Using Self-Assembled Monolayers to Model Cell Adhesion to the 9th and 10th Type III Domains of Fibronectin. Langmuir, 2009, 25, 13942-13951.	1.6	31
128	Detection and Identification of Bioanalytes with High Resolution LSPR Spectroscopy and MALDI Mass Spectrometry. Journal of Physical Chemistry C, 2009, 113, 5891-5894.	1.5	46
129	Subcellular curvature at the perimeter of micropatterned cells influences lamellipodial distribution and cell polarity. Cytoskeleton, 2008, 65, 841-852.	4.4	96
130	Onâ€Chip Synthesis and Labelâ€Free Assays of Oligosaccharide Arrays. Angewandte Chemie - International Edition, 2008, 47, 3396-3399.	7.2	92
131	A bio-mechanical model for coupling cell contractility with focal adhesion formation. Journal of the Mechanics and Physics of Solids, 2008, 56, 1484-1510.	2.3	144
132	Mass Spectrometry of Self-Assembled Monolayers: A New Tool for Molecular Surface Science. ACS Nano, 2008, 2, 7-18.	7.3	186
133	Combining Self-Assembled Monolayers and Mass Spectrometry for Applications in Biochips. Annual Review of Analytical Chemistry, 2008, 1, 767-800.	2.8	66
134	A Calcium-Modulated Plasmonic Switch. Journal of the American Chemical Society, 2008, 130, 5836-5837.	6.6	95
135	Biochemical Assays of Immobilized Oligonucleotides with Mass Spectrometry. Langmuir, 2008, 24, 5433-5438.	1.6	18
136	The Activity of HDAC8 Depends on Local and Distal Sequences of Its Peptide Substrates. Biochemistry, 2008, 47, 6242-6250.	1.2	48
137	Self-Assembled Monolayers for MALDI-TOF Mass Spectrometry for Immunoassays of Human Protein Antigens. Analytical Chemistry, 2007, 79, 5878-5887.	3.2	56
138	Determination of Kinetic Parameters for Interfacial Enzymatic Reactions on Self-Assembled Monolayers. Langmuir, 2007, 23, 5578-5583.	1.6	32
139	Attachment of Cells to Islands Presenting Gradients of Adhesion Ligands. Journal of the American Chemical Society, 2007, 129, 8966-8967.	6.6	62
140	Rapid Evaluation and Screening of Interfacial Reactions on Self-Assembled Monolayers. Langmuir, 2007, 23, 11826-11835.	1.6	39
141	Dynamic Hydrogels: Translating a Protein Conformational Change into Macroscopic Motion. Angewandte Chemie - International Edition, 2007, 46, 3066-3069.	7.2	133
142	Functional Assays of Membraneâ€Bound Proteins with SAMDIâ€TOF Mass Spectrometry. Angewandte Chemie - International Edition, 2007, 46, 8796-8798.	7.2	55
143	Immunoisolating Pancreatic Islets by Encapsulation with Selective Withdrawal. Small, 2007, 3, 683-690.	5.2	38
144	Electroactive Self-Assembled Monolayers that Permit Orthogonal Control over the Adhesion of Cells to Patterned Substrates. Langmuir, 2006, 22, 10816-10820.	1.6	123

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145	Assays of Endogenous Caspase Activities:Â A Comparison of Mass Spectrometry and Fluorescence Formats. Analytical Chemistry, 2006, 78, 4945-4951.	3.2	53
146	Identification of Ligands with Bicyclic Scaffolds Provides Insights into Mechanisms of Estrogen Receptor Subtype Selectivity*. Journal of Biological Chemistry, 2006, 281, 17909-17919.	1.6	51
147	Engineering a biospecific communication pathway between cells and electrodes. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 2021-2025.	3.3	42
148	Structural basis for the interaction of Bordetella pertussis adenylyl cyclase toxin with calmodulin. EMBO Journal, 2005, 24, 3190-3201.	3.5	127
149	Label-Free Detection of Protein-Protein Interactions on Biochips. Angewandte Chemie - International Edition, 2005, 44, 5480-5483.	7.2	71
150	Dynamic Substrates for Cell Biology. MRS Bulletin, 2005, 30, 180-184.	1.7	54
151	Combining Microfluidic Networks and Peptide Arrays for Multi-Enzyme Assays. Journal of the American Chemical Society, 2005, 127, 7280-7281.	6.6	73
152	A Photochemical Method for Patterning the Immobilization of Ligands and Cells to Self-Assembled Monolayers. Langmuir, 2004, 20, 7223-7231.	1.6	190
153	Chemical screening by mass spectrometry to identify inhibitors of anthrax lethal factor. Nature Biotechnology, 2004, 22, 717-723.	9.4	140
154	Profiling Kinase Activities by Using a Peptide Chip and Mass Spectrometry. Angewandte Chemie - International Edition, 2004, 43, 5973-5977.	7.2	137
155	Probing Protein-Carbohydrate Interactions with Microarrays of Synthetic Oligosaccharides. ChemBioChem, 2004, 5, 379-383.	1.3	166
156	An Early Taste of Functional Glycomics. Chemistry and Biology, 2004, 11, 739-740.	6.2	18
157	Peptide arrays: towards routine implementation. Current Opinion in Chemical Biology, 2004, 8, 554-558.	2.8	104
158	Discovery of a Small Molecule that Inhibits the Interaction of Anthrax Edema Factor with Its Cellular Activator, Calmodulin. Chemistry and Biology, 2004, 11, 1139-1146.	6.2	33
159	Patterning Multiple Aligned Self-Assembled Monolayers Using Light. Langmuir, 2004, 20, 9080-9088.	1.6	146
160	Using Model Substrates To Study the Dependence of Focal Adhesion Formation on the Affinity of Integrinâ^'Ligand Complexesâ€. Biochemistry, 2004, 43, 2699-2707.	1.2	130
161	The Synergy Peptide PHSRN and the Adhesion Peptide RGD Mediate Cell Adhesion through a Common Mechanismâ€. Biochemistry, 2004, 43, 15811-15821.	1.2	122
162	A Method for Connecting Solution-Phase Enzyme Activity Assays with Immobilized Format Analysis by Mass Spectrometry. Analytical Chemistry, 2004, 76, 3923-3929.	3.2	59

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163	A Substituent Effects Study Reveals the Kinetic Pathway for an Interfacial Reaction. Journal of the American Chemical Society, 2004, 126, 15613-15617.	6.6	29
164	Antibody Arrays Prepared by Cutinase-Mediated Immobilization on Self-Assembled Monolayers. Analytical Chemistry, 2004, 76, 5713-5720.	3.2	108
165	Substrates for Cell Adhesion Prepared via Active Site-Directed Immobilization of a Protein Domain. Langmuir, 2004, 20, 1026-1030.	1.6	47
166	A Comparative Analysis of Localized and Propagating Surface Plasmon Resonance Sensors:Â The Binding of Concanavalin A to a Monosaccharide Functionalized Self-Assembled Monolayer. Journal of the American Chemical Society, 2004, 126, 12669-12676.	6.6	517
167	Rewiring Cell Adhesion. Journal of the American Chemical Society, 2004, 126, 6504-6505.	6.6	46
168	Self-Assembled Monolayers That Transduce Enzymatic Activities to Electrical Signals. Angewandte Chemie - International Edition, 2003, 42, 3121-3124.	7.2	50
169	Structure-based Inhibitor Discovery against Adenylyl Cyclase Toxins from Pathogenic Bacteria That Cause Anthrax and Whooping Cough. Journal of Biological Chemistry, 2003, 278, 25990-25997.	1.6	81
170	Maleimide-Functionalized Self-Assembled Monolayers for the Preparation of Peptide and Carbohydrate Biochipsâ€. Langmuir, 2003, 19, 1522-1531.	1.6	374
171	Dynamic Interfaces between Cells and Surfaces:Â Electroactive Substrates that Sequentially Release and Attach Cells. Journal of the American Chemical Society, 2003, 125, 14994-14995.	6.6	250
172	Nanopatterning the Chemospecific Immobilization of Cowpea Mosaic Virus Capsid. Nano Letters, 2003, 3, 883-886.	4.5	163
173	Using MALDI-TOF Mass Spectrometry to Characterize Interfacial Reactions on Self-Assembled Monolayers. Langmuir, 2003, 19, 4867-4870.	1.6	63
174	Adsorption of Proteins to Hydrophobic Sites on Mixed Self-Assembled Monolayersâ€. Langmuir, 2003, 19, 1861-1872.	1.6	243
175	Electrochemical Desorption of Self-Assembled Monolayers Noninvasively Releases Patterned Cells from Geometrical Confinements. Journal of the American Chemical Society, 2003, 125, 2366-2367.	6.6	243
176	Selective immobilization of proteins to self-assembled monolayers presenting active site-directed capture ligands. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 5048-5052.	3.3	330
177	Dependence of the Rate of an Interfacial Dielsâ^'Alder Reaction on the Steric Environment of the Immobilized Dienophile:â€‰ An Example of Enthalpyâ^'Entropy Compensation. Journal of the American Chemical Society, 2002, 124, 806-812.	6.6	86
178	Protein Nanoarrays Generated By Dip-Pen Nanolithography. Science, 2002, 295, 1702-1705.	6.0	1,161
179	Towards quantitative assays with peptide chips: a surface engineering approach. Trends in Biotechnology, 2002, 20, 279-281.	4.9	94
180	Protein chips: from concept to practice. Trends in Biotechnology, 2002, 20, s14-s18.	4.9	77

#	Article	IF	Citations
181	Using Mass Spectrometry to Characterize Self-Assembled Monolayers Presenting Peptides, Proteins, and Carbohydrates. Angewandte Chemie - International Edition, 2002, 41, 4715-4718.	7.2	161
182	What can surface chemistry do for cell biology?. Current Opinion in Chemical Biology, 2002, 6, 794-797.	2.8	165
183	Peptide chips for the quantitative evaluation of protein kinase activity. Nature Biotechnology, 2002, 20, 270-274.	9.4	700
184	Carbohydrate Arrays for the Evaluation of Protein Binding and Enzymatic Modification. Chemistry and Biology, 2002, 9, 443-454.	6.2	480
185	Physiological calcium concentrations regulate calmodulin binding and catalysis of adenylyl cyclase exotoxins. EMBO Journal, 2002, 21, 6721-6732.	3.5	91
186	Model Systems for Studying Polyvalent Carbohydrate Binding Interactions. Topics in Current Chemistry, 2002, , 1-44.	4.0	71
187	Electroactive Monolayer Substrates that Selectively Release Adherent Cells. ChemBioChem, 2001, 2, 590-593.	1.3	83
188	Turning On Cell Migration with Electroactive Substrates. Angewandte Chemie - International Edition, 2001, 40, 1093-1096.	7.2	170
189	Using Selective Withdrawal to Coat Microparticles. Science, 2001, 292, 265-267.	6.0	142
190	Direct Cell Adhesion to the Angiopoietins Mediated by Integrins. Journal of Biological Chemistry, 2001, 276, 26516-26525.	1.6	229
191	Turning On Cell Migration with Electroactive Substrates We are grateful for support of this work by DARPA and the National Institute of Health (GM 54621). This work used facilities of the MRSEC supported by the National Science Foundation (DMR-9808595). M. M. is a Searle Scholar and an A. P. Sloan Fellow. B. T. Houseman is supported by MD/PhD Training Grant HD-09007.. Angewandte Chemie - International Edition, 2001, 40, 1093-1096.	7.2	21
192	Understanding the Role of Adsorption in the Reaction of Cyclopentadiene with an Immobilized Dienophile. Journal of Physical Chemistry A, 2000, 104, 9315-9320.	1.1	34
193	The Kinetic Order of an Interfacial Dielsâ€“Alder Reaction Depends on the Environment of the Immobilized Dienophile. Angewandte Chemie - International Edition, 2000, 39, 1943-1946.	7.2	61
194	Biomolecular Surfaces that Release Ligands under Electrochemical Control. Journal of the American Chemical Society, 2000, 122, 4235-4236.	6.6	99
195	A surface chemistry approach to studying cell adhesion. Chemical Society Reviews, 2000, 29, 267-273.	18.7	432
196	Self-Assembled Monolayers of Alkanethiolates Presenting Mannitol Groups Are Inert to Protein Adsorption and Cell Attachment. Langmuir, 2000, 16, 9604-9608.	1.6	425
197	Title is missing!. Biomedical Microdevices, 1999, 2, 99-109.	1.4	65
198	Geometric control of switching between growth, apoptosis, and differentiation during angiogenesis using micropatterned substrates. In Vitro Cellular and Developmental Biology - Animal, 1999, 35, 441-448.	0.7	392

#	Article	IF	Citations
199	The Role of Ligand Density in the Enzymatic Glycosylation of Carbohydrates Presented on Self-Assembled Monolayers of Alkanethiolates on Gold. Angewandte Chemie - International Edition, 1999, 38, 782-785.	7.2	134
200	NMR Characterization of the Aliphatic Î²/Î² Pairing for Recognition of AÂ·T/TÂ·A Base Pairs in the Minor Groove of DNA. Journal of the American Chemical Society, 1999, 121, 2956-2964.	6.6	26
201	Dielsâ^'Alder Reaction for the Selective Immobilization of Protein to Electroactive Self-Assembled Monolayers. Journal of the American Chemical Society, 1999, 121, 4286-4287.	6.6	226
202	Catalytic Asymmetric Dihydroxylation by Gold Colloids Functionalized with Self-Assembled Monolayers. Langmuir, 1999, 15, 4957-4959.	1.6	107
203	Effect of Surface Wettability on the Adsorption of Proteins and Detergents. Journal of the American Chemical Society, 1998, 120, 3464-3473.	6.6	759
204	Micropatterned Surfaces for Control of Cell Shape, Position, and Function. Biotechnology Progress, 1998, 14, 356-363.	1.3	638
205	Using Mixed Self-Assembled Monolayers Presenting RGD and (EG)3OH Groups To Characterize Long-Term Attachment of Bovine Capillary Endothelial Cells to Surfaces. Journal of the American Chemical Society, 1998, 120, 6548-6555.	6.6	325
206	Efficient Solid-Phase Synthesis of Peptide-Substituted Alkanethiols for the Preparation of Substrates That Support the Adhesion of Cells. Journal of Organic Chemistry, 1998, 63, 7552-7555.	1.7	51
207	On-Line Detection of Nonspecific Protein Adsorption at Artificial Surfaces. Analytical Chemistry, 1997, 69, 3321-3328.	3.2	111
208	Design of Self-Assembled Monolayers That Release Attached Groups Using Applied Electrical Potentials. Langmuir, 1997, 13, 6001-6003.	1.6	28
209	Using Surface Plasmon Resonance Spectroscopy To Measure the Association of Detergents with Self-Assembled Monolayers of Hexadecanethiolate on Gold. Langmuir, 1997, 13, 2749-2755.	1.6	132
210	Using Self-Assembled Monolayers That Present Oligo(ethylene glycol) Groups To Control the Interactions of Proteins with Surfaces. ACS Symposium Series, 1997, , 361-373.	0.5	103
211	NMR Characterization of Hairpin Polyamide Complexes with the Minor Groove of DNA. Journal of the American Chemical Society, 1997, 119, 7909-7916.	6.6	96
212	Using Microcontact Printing to Pattern the Attachment of Mammalian Cells to Self-Assembled Monolayers of Alkanethiolates on Transparent Films of Gold and Silver. Experimental Cell Research, 1997, 235, 305-313.	1.2	474
213	Geometric Control of Cell Life and Death. Science, 1997, 276, 1425-1428.	6.0	4,422
214	Using self-assembled monolayers to understand the biomaterials interface. Current Opinion in Colloid and Interface Science, 1997, 2, 83-88.	3.4	46
215	Microcontact Printing of Alkanethiols on Copper and Its Application in Microfabrication. Chemistry of Materials, 1996, 8, 601-603.	3.2	145
216	Self-Assembled Monolayers of Alkanethiolates Presenting Tri(propylene sulfoxide) Groups Resist the Adsorption of Protein. Journal of the American Chemical Society, 1996, 118, 5136-5137.	6.6	133

#	Article	IF	Citations
217	Extension of Sequence-Specific Recognition in the Minor Groove of DNA by Pyrroleâ"Imidazole Polyamides to 9â"13 Base Pairs. Journal of the American Chemical Society, 1996, 118, 6160-6166.	6.6	100
218	Patterning self-assembled monolayers using microcontact printing: A new technology for biosensors?. Trends in Biotechnology, 1995, 13, 228-235.	4.9	359
219	Using capillary electrophoresis to follow the acetylation of the amino groups of insulin and to estimate their basicities. Analytical Chemistry, 1995, 67, 3093-3100.	3.2	55
220	Patterned self-assembled monolayers formed by microcontact printing direct selective metalization by chemical vapor deposition on planar and nonplanar substrates. Langmuir, 1995, 11, 3024-3026.	1.6	136
221	Microcontact Printing of Octadecylsiloxane on the Surface of Silicon Dioxide and Its Application in Microfabrication. Journal of the American Chemical Society, 1995, 117, 9576-9577.	6.6	276
222	Surface Plasmon Resonance Permits in Situ Measurement of Protein Adsorption on Self-Assembled Monolayers of Alkanethiolates on Gold. Langmuir, 1995, 11, 4383-4385.	1.6	338
223	Biospecific Adsorption of Carbonic Anhydrase to Self-Assembled Monolayers of Alkanethiolates That Present Benzenesulfonamide Groups on Gold. Journal of the American Chemical Society, 1995, 117, 12009-12010.	6.6	159
224	Recognition in the Minor Groove of DNA at 5'-(A,T)GCGC(A,T)-3' by a Four Ring Tripeptide Dimer. Reversal of the Specificity of the Natural Product Distamycin. Journal of the American Chemical Society, 1995, 117, 3325-3332.	6.6	64
225	Hairpin Peptide Motif. A New Class of Oligopeptides for Sequence-Specific Recognition in the Minor Groove of Double-Helical DNA. Journal of the American Chemical Society, 1994, 116, 7983-7988.	6.6	198
226	Design of a Covalent Peptide Heterodimer for Sequence-Specific Recognition in the Minor Groove of Double-Helical DNA. Journal of the American Chemical Society, 1994, 116, 3663-3664.	6.6	66
227	Enhanced sequence specific recognition in the minor groove of DNA by covalent peptide dimers: bis(pyridine-2-carboxamidonetropsin)(CH2)3-6. Journal of the American Chemical Society, 1993, 115, 9892-9899.	6.6	94
228	Structural analysis of covalent peptide dimers, bis(pyridine-2-carboxamidonetropsin)(CH2)3-6, in complex with 5'-TGACT-3' sites by two-dimensional NMR. Journal of the American Chemical Society, 1993, 115, 9900-9906.	6.6	50
229	Antiparallel side-by-side heterodimer for sequence-specific recognition in the minor groove of DNA by a distamycin/1-methylimidazole-2-carboxamide-netropsin pair. Journal of the American Chemical Society, 1993, 115, 2572-2576.	6.6	93
230	Design of peptides that bind in the minor groove of DNA at 5'-(A,T)G(A,T)C(A,T)-3' sequences by a dimeric side-by-side motif. Journal of the American Chemical Society, 1992, 114, 8783-8794.	6.6	218
231	Highly efficient complexation of a .pi.-acceptor by a molecular tweezer containing two .pi.-donors: the role of preorganization. Journal of the American Chemical Society, 1989, 111, 8528-8530.	6.6	75