

# Mahesh Uttamchandani

## List of Publications by Year in descending order

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Version: 2024-02-01

58  
papers

2,617  
citations

136950

32  
h-index

182427

51  
g-index

66  
all docs

66  
docs citations

66  
times ranked

2477  
citing authors

#	ARTICLE	IF	CITATIONS
1	Developing site-Specific immobilization strategies of peptides in a microarray. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2002, 12, 2079-2083.	2.2	144
2	Small molecule microarrays: recent advances and applications. <i>Current Opinion in Chemical Biology</i> , 2005, 9, 4-13.	6.1	133
3	Enzymatic Profiling System in a Small-Molecule Microarray. <i>Organic Letters</i> , 2003, 5, 1257-1260.	4.6	125
4	Antibody-Based fluorescence detection of kinase activity on a peptide array. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2002, 12, 2085-2088.	2.2	124
5	Protein and small molecule microarrays: powerful tools for high-throughput proteomics. <i>Molecular BioSystems</i> , 2006, 2, 58-68.	2.9	124
6	Multicolor, One- and Two-Photon Imaging of Enzymatic Activities in Live Cells with Fluorescently Quenched Activity-Based Probes (qABPs). <i>Journal of the American Chemical Society</i> , 2011, 133, 12009-12020.	13.7	124
7	Rapid Assembly and in Situ Screening of Bidentate Inhibitors of Protein Tyrosine Phosphatases. <i>Organic Letters</i> , 2006, 8, 713-716.	4.6	112
8	Applications of microarrays in pathogen detection and biodefence. <i>Trends in Biotechnology</i> , 2009, 27, 53-61.	9.3	102
9	Peptide Microarrays: Next Generation Biochips for Detection, Diagnostics and High-Throughput Screening. <i>Current Pharmaceutical Design</i> , 2008, 14, 2428-2438.	1.9	90
10	Combinatorial peptide microarrays for the rapid determination of kinase specificity. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2003, 13, 2997-3000.	2.2	78
11	Activity-Based Protein Profiling: New Developments and Directions in Functional Proteomics. <i>ChemBioChem</i> , 2008, 9, 667-675.	2.6	78
12	Activity-based fingerprinting and inhibitor discovery of cysteine proteases in a microarray. <i>Chemical Communications</i> , 2007, , 1518.	4.1	77
13	Developing a Strategy for Activity-Based Detection of Enzymes in a Protein Microarray. <i>ChemBioChem</i> , 2003, 4, 336-339.	2.6	74
14	Microarrays of Tagged Combinatorial Triazine Libraries in the Discovery of Small-Molecule Ligands of Human IgG. <i>ACS Combinatorial Science</i> , 2004, 6, 862-868.	3.3	67
15	Peptide Microarray for High-Throughput Determination of Phosphatase Specificity and Biology. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 1698-1702.	13.8	64
16	Current advances in peptide and small molecule microarray technologies. <i>Current Opinion in Chemical Biology</i> , 2012, 16, 234-242.	6.1	63
17	Inhibitor Fingerprinting of Matrix Metalloproteases Using a Combinatorial Peptide Hydroxamate Library. <i>Journal of the American Chemical Society</i> , 2007, 129, 7848-7858.	13.7	60
18	Next Generation Chemical Proteomic Tools for Rapid Enzyme Profiling. <i>Accounts of Chemical Research</i> , 2009, 42, 1183-1192.	15.6	60

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19	Singleâ€Vehicular Delivery of Antagomir and Small Molecules to Inhibit miRâ€122 Function in Hepatocellular Carcinoma Cells by using â€Smartâ€Mesoporous Silica Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 10574-10578.	13.8	57
20	Array-Based Technologies and their Applications in Proteomics. <i>Current Topics in Medicinal Chemistry</i> , 2003, 3, 705-724.	2.1	55
21	Cell-permeable small molecule probes for site-specific labeling of proteinsElectronic supplementary information (ESI) available: experimental details and characterization of compounds. See <a href="http://www.rsc.org/suppdata/cc/b3/b309196a/">http://www.rsc.org/suppdata/cc/b3/b309196a/</a> . <i>Chemical Communications</i> , 2003, , 2870.	4.1	50
22	Rapid Assembly of Matrix Metalloprotease Inhibitors Using Click Chemistry. <i>Organic Letters</i> , 2006, 8, 3821-3824.	4.6	50
23	Quantitative Inhibitor Fingerprinting of Metalloproteases Using Small Molecule Microarrays. <i>Journal of the American Chemical Society</i> , 2007, 129, 13110-13117.	13.7	49
24	A Peptide Aldehyde Microarray for High-Throughput Profiling of Cellular Events. <i>Journal of the American Chemical Society</i> , 2011, 133, 1946-1954.	13.7	47
25	Small molecule microarrays: the first decade and beyond. <i>Chemical Communications</i> , 2011, 47, 5664-5670.	4.1	40
26	Microarray: A Versatile Platform for High-Throughput Functional Proteomics. <i>Combinatorial Chemistry and High Throughput Screening</i> , 2006, 9, 203-212.	1.1	38
27	Preparation of Smallâ€Molecule Microarrays by <i>trans</i> -Cyclooctene Tetrazine Ligation and Their Application in the High-Throughput Screening of Proteinâ€Protein Interaction Inhibitors of Bromodomains. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 14060-14064.	13.8	38
28	â€Clickâ€synthesis of small molecule probes for activity-based fingerprinting of matrix metalloproteases. <i>Chemical Communications</i> , 2006, , 3783-3785.	4.1	37
29	Comparative proteomic profiling of mammalian cell lysates using phosphopeptide microarrays. <i>Chemical Communications</i> , 2012, 48, 2240.	4.1	37
30	Rapid Affinityâ€Based Fingerprinting of 14â€3â€ Isoforms Using a Combinatorial Peptide Microarray. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 7438-7441.	13.8	35
31	Nanodroplet profiling of enzymatic activities in a microarray. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2005, 15, 2135-2139.	2.2	32
32	Discovery of Cellâ€Permeable Inhibitors That Target the BRCT Domain of BRCA1 Protein by Using a Smallâ€Molecule Microarray. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 8421-8426.	13.8	32
33	Activity-based high-throughput profiling of metalloprotease inhibitors using small molecule microarrays. <i>Chemical Communications</i> , 2006, , 717.	4.1	25
34	Direct visual detection of Salmonella genomic DNA using gold nanoparticles. <i>Molecular BioSystems</i> , 2013, 9, 618.	2.9	25
35	Visual SNP genotyping using asymmetric PCR and split DNA enzymes. <i>Analyst, The</i> , 2011, 136, 1569.	3.5	21
36	Microarray-guided discovery of two-photon (2P) small molecule probes for live-cell imaging of cysteinyl cathepsin activities. <i>Chemical Communications</i> , 2012, 48, 7304.	4.1	21

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37	Fluorescence-activated cell sorting and directed evolution of $\beta$ -N-acetylgalactosaminidases using a quenched activity-based probe (qABP). <i>Chemical Communications</i> , 2013, 49, 7237.	4.1	19
38	Site-Specific Peptide Immobilization Strategies for the Rapid Detection of Kinase Activity on Microarrays. , 2004, 264, 191-204.		18
39	Applying Small Molecule Microarrays and Resulting Affinity Probe Cocktails for Proteome Profiling of Mammalian Cell Lysates. <i>Chemistry - an Asian Journal</i> , 2011, 6, 2803-2815.	3.3	16
40	A Brugada syndrome proband with compound heterozygote <i>SCN5A</i> mutations identified from a Chinese family in Singapore. <i>Europace</i> , 2016, 18, 897-904.	1.7	16
41	Inhibitor fingerprinting of metalloproteases using microplate and microarray platforms: an enabling technology in Catalomics. <i>Nature Protocols</i> , 2007, 2, 2126-2138.	12.0	14
42	Phosphopeptide Microarrays for Comparative Proteomic Profiling of Cellular Lysates. <i>Methods in Molecular Biology</i> , 2013, 1002, 233-251.	0.9	14
43	Small Molecule Microarrays: Applications Using Specially Tagged Chemical Libraries. <i>QSAR and Combinatorial Science</i> , 2006, 25, 1009-1019.	1.4	12
44	Facile synthesis of 7-amino-4-carbamoylmethylcoumarin (ACC)-containing solid supports and Their corresponding fluorogenic protease substrates. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2003, 13, 1033-1036.	2.2	9
45	The Expanding World of Small Molecule Microarrays. <i>Methods in Molecular Biology</i> , 2010, 669, 1-15.	0.9	9
46	The Expanding World of Small Molecule Microarrays. <i>Methods in Molecular Biology</i> , 2017, 1518, 1-17.	0.9	7
47	Application of Microarrays in High-Throughput Enzymatic Profiling. <i>Molecular Biotechnology</i> , 2004, 28, 227-240.	2.4	5
48	Protein-Protein Interaction Inhibitors of BRCA1 Discovered Using Small Molecule Microarrays. <i>Methods in Molecular Biology</i> , 2017, 1518, 139-156.	0.9	5
49	Accelerated cellular on- and off-target screening of bioactive compounds using microarrays. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 59-64.	2.8	4
50	Metabolic Profiling of a Porcine Combat Trauma-Injury Model Using NMR and Multi-Mode LC-MS Metabolomics—A Preliminary Study. <i>Metabolites</i> , 2020, 10, 373.	2.9	4
51	A Method for Small Molecule Microarray-Based Screening for the Rapid Discovery of Affinity-Based Probes. <i>Methods in Molecular Biology</i> , 2010, 669, 57-68.	0.9	4
52	Profiling human Src homology 2 (SH2) domain proteins and ligand discovery using a peptide-hybrid small molecule microarray. <i>Chemical Communications</i> , 2013, 49, 9660.	4.1	2
53	Nanodroplet Microarrays for High-Throughput Enzyme Screening. <i>Methods in Molecular Biology</i> , 2010, 669, 79-93.	0.9	2
54	High-Throughput Screening of Metalloproteases Using Small Molecule Microarrays. <i>Methods in Molecular Biology</i> , 2010, 632, 203-219.	0.9	1

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55	A novel three base-pair deletion in domain two of the cardiac sodium channel causes Brugada syndrome. <i>Journal of Electrocardiology</i> , 2018, 51, 667-673.	0.9	1
56	Developing Influenza Antigen Microarrays for Seroprofiling. <i>ACS Symposium Series</i> , 2012, , 193-202.	0.5	0
57	Visual DNA Detection and SNP Genotyping Using Asymmetric PCR and Split DNA Enzymes. <i>Methods in Molecular Biology</i> , 2013, 1039, 141-151.	0.9	0
58	Array-on-Array Strategy For Activity-Based Enzyme Profiling. <i>Methods in Molecular Biology</i> , 2017, 1518, 131-138.	0.9	0