Marcey L Waters

List of Publications by Year
in descending order

82 papers	4,150 citations	117625 34 h-index	114465 63 g-index
86 all docs	86 docs citations	86 times ranked	4263 citing authors

#	Article	IF	Citations
1	Systematic Variation of Both the Aromatic Cage and Dialkyllysine via GCE-SAR Reveal Mechanistic Insights in CBX5 Reader Protein Binding. Journal of Medicinal Chemistry, 2022, 65, 2646-2655.	6.4	13
2	Comparative Analysis of Sulfoniumâ˜Ï€, Ammoniumâ˜Ï€, and Sulfurâ˜Ï€ Interactions and Relevance to SAM-Dependent Methyltransferases. Journal of the American Chemical Society, 2022, 144, 2535-2545.	13.7	2
3	Mimicking Biological Recognition: Lessons in Binding Hydrophilic Guests in Water. Chemistry - A European Journal, 2021, 27, 6620-6644.	3.3	18
4	Frontispiece: Mimicking Biological Recognition: Lessons in Binding Hydrophilic Guests in Water. Chemistry - A European Journal, 2021, 27, .	3.3	0
5	Development of â€œImprint-and-Reportâ€• Dynamic Combinatorial Libraries for Differential Sensing Applications. Journal of the American Chemical Society, 2021, 143, 14845-14854.	13.7	21
6	Contributions of methionine to recognition of trimethyllysine in aromatic cage of PHD domains: implications of polarizability, hydrophobicity, and charge on binding. Chemical Science, 2021, 12, 8900-8908.	7.4	5
7	Engineered Reader Proteins for Enhanced Detection of Methylated Lysine on Histones. ACS Chemical Biology, 2020, 15, 103-111.	3.4	15
8	More Than Ï€â€“Ï€â€“Ï€ Stacking: Contribution of Amideâ˜Ï€ and CHâ˜Ï€ Interactions to Crotonyllysine Binding by the AF9 YEATS Domain. Journal of the American Chemical Society, 2020, 142, 17048-17056.	13.7	26
9	Thermodynamic consequences of Tyr to Trp mutations in the cationâ€“Ï€-mediated binding of trimethyllysine by the HP1 chromodomain. Chemical Science, 2020, 11, 3495-3500.	7.4	12
10	Using changes in speciation in a dynamic combinatorial library as a fingerprint to differentiate the methylation states of arginine. Chemical Communications, 2020, 56, 3947-3950.	4.1	5
11	Achieving High Affinity and Selectivity for Asymmetric Dimethylarginine by Putting a Lid on a Box. Angewandte Chemie, 2019, 131, 5336-5339.	2.0	9
12	Achieving High Affinity and Selectivity for Asymmetric Dimethylarginine by Putting a Lid on a Box. Angewandte Chemie - International Edition, 2019, 58, 5282-5285.	13.8	18
13	A study of 2-component i, iâ€¯+â€¯3 peptide stapling using thioethers. Bioorganic and Medicinal Chemistry, 2018, 26, 1203-1205.	3.0	4
14	N-Gemini peptides: cytosolic protease resistance via N-terminal dimerization of unstructured peptides. Chemical Communications, 2018, 54, 204-207.	4.1	0
15	Development of Î²-Hairpin Peptides for the Measurement of SCF-Family E3 Ligase Activity in Vitro via Ornithine Ubiquitination. ACS Omega, 2017, 2, 1198-1206.	3.5	4
16	Optimization of a synthetic receptor for dimethyllysine using a biphenyl-2,6-dicarboxylic acid scaffold: insights into selective recognition of hydrophilic guests in water. Organic and Biomolecular Chemistry, 2017, 15, 7789-7795.	2.8	15
17	Investigation of Trimethyllysine Binding by the HP1 Chromodomain via Unnatural Amino Acid Mutagenesis. Journal of the American Chemical Society, 2017, 139, 17253-17256.	13.7	27
18	Fluorogenic sensor platform for the histone code using receptors from dynamic combinatorial libraries. Chemical Science, 2017, 8, 1422-1428.	7.4	29

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19	From supramolecular chemistry to the nucleosome: studies in biomolecular recognition. Beilstein Journal of Organic Chemistry, 2016, 12, 1863-1869.	2.2	0
20	Supramolecular Affinity Labeling of Histone Peptides Containing Trimethyllysine and Its Application to Histone Deacetylase Assays. Journal of the American Chemical Society, 2016, 138, 9452-9459.	13.7	37
21	Bonds that bind. Nature Chemical Biology, 2016, 12, 768-769.	8.0	2
22	Tetrameric psuedo-peptide receptors with allosteric properties. Chemical Communications, 2016, 52, 8103-8106.	4.1	3
23	Molecular Recognition of Lys and Arg Methylation. ACS Chemical Biology, 2016, 11, 643-653.	3.4	64
24	Identification of a p53-based portable degron based on the MDM2-p53 binding region. Analyst, The, 2016, 141, 570-578.	3.5	5
25	Secondary Binding Interactions in a Synthetic Receptor for Trimethyllysine. Chemistry - A European Journal, 2015, 21, 17981-17986.	3.3	9
26	Contributions of pocket depth and electrostatic interactions to affinity and selectivity of receptors for methylated lysine in water. Organic and Biomolecular Chemistry, 2015, 13, 3220-3226.	2.8	24
27	Effects of Helix Macrodipole and Local Interactions on Catalysis of Acyl Transfer by Î±-Helical Peptides. ACS Catalysis, 2015, 5, 1617-1622.	11.2	10
28	Investigation of the Î²-Sheet Interactions between dHP1 Chromodomain and Histone 3. Biochemistry, 2015, 54, 2314-2322.	2.5	7
29	Late stage modification of receptors identified from dynamic combinatorial libraries. Organic and Biomolecular Chemistry, 2015, 13, 10939-10945.	2.8	10
30	A Catalyst Selection Protocol That Identifies Biomimetic Motifs from Î²-Hairpin Libraries. Journal of the American Chemical Society, 2014, 136, 15817-15820.	13.7	25
31	Development and mechanistic studies of an optimized receptor for trimethyllysine using iterative redesign by dynamic combinatorial chemistry. Organic and Biomolecular Chemistry, 2014, 12, 7059-7067.	2.8	41
32	Identification and optimization of short helical peptides with novel reactive functionality as catalysts for acyl transfer by reactive tagging. Organic and Biomolecular Chemistry, 2014, 12, 1488-1494.	2.8	21
33	Î²-Turn sequences promote stability of peptide substrates for kinases within the cytosolic environment. Analyst, The, 2013, 138, 4305.	3.5	12
34	Positional effects of click cyclization on Î²-hairpin structure, stability, and function. Organic and Biomolecular Chemistry, 2013, 11, 69-77.	2.8	34
35	Electron transfer dynamics of peptideâ€derivatized Ru^{II}â€polypyridyl complexes on nanocrystalline metal oxide films. Biopolymers, 2013, 100, 25-37.	2.4	7
36	Interfacial Energy Conversion in Ru^{II} Polypyridyl-Derivatized Oligoproline Assemblies on TiO₂. Journal of the American Chemical Society, 2013, 135, 5250-5253.	13.7	44

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37	A Synthetic Receptor for Asymmetric Dimethyl Arginine. Journal of the American Chemical Society, 2013, 135, 6450-6455.	13.7	86
38	A Comparative Analysis of the Ubiquitination Kinetics of Multiple Degrons to Identify an Ideal Targeting Sequence for a Proteasome Reporter. PLoS ONE, 2013, 8, e78082.	2.5	12
39	Self-Assembled Multi-Component Catenanes: The Effect of Multivalency and Cooperativity on Structure and Stability. Journal of the American Chemical Society, 2012, 134, 11430-11443.	13.7	46
40	Constitutionally selective amplification of multicomponent 84-membered macrocyclic hosts for (âˆ’)-cytidineâ€¢H+. Chemical Science, 2011, 2, 744.	7.4	48
41	Redesign of a WW Domain Peptide for Selective Recognition of Single-Stranded DNA. Biochemistry, 2011, 50, 2575-2584.	2.5	13
42	Inducedâ€Fit Binding of a Polyproline Helix by a Î²â€Hairpin Peptide. Angewandte Chemie - International Edition, 2011, 50, 12201-12204.	13.8	10
43	Tuning HP1Î± Chromodomain Selectivity for Di- and Trimethyllysine. ChemBioChem, 2011, 12, 2786-2790.	2.6	13
44	Interactions Between HP1 Chromodomain and H3 Trimethyllysine9 Histone Tail. FASEB Journal, 2011, 25, 896.4.	0.5	0
45	Dueling Post-Translational Modifications Trigger Folding and Unfolding of a Î²-Hairpin Peptide. Journal of the American Chemical Society, 2010, 132, 9007-9013.	13.7	17
46	Positional effects of phosphoserine on Î²-hairpin stability. Organic and Biomolecular Chemistry, 2010, 8, 5411.	2.8	10
47	A small molecule receptor that selectively recognizes trimethyl lysine in a histonepeptide with native protein-like affinity. Chemical Communications, 2010, 46, 1839-1841.	4.1	83
48	Structural Effects on ssâ€•and dsDNA Recognition by a Î²â€Hairpin Peptide. ChemBioChem, 2009, 10, 539-544.	2.6	15
49	The structure of wellâ€folded Î²â€hairpin peptides promotes resistance to peptidase degradation. Biopolymers, 2009, 92, 502-507.	2.4	31
50	The geometry and efficacy of cation-Ï€ interactions in a diagonal position of a designed Î²-hairpin. Protein Science, 2009, 12, 2443-2452.	7.6	109
51	Controlling Peptide Folding with Repulsive Interactions between Phosphorylated Amino Acids and Tryptophan. Journal of the American Chemical Society, 2009, 131, 14081-14087.	13.7	21
52	Design of Highly Stabilized Î²-Hairpin Peptides through Cationâˆ'Ï€ Interactions of Lysine and <i>N</i>-Methyllysine with an Aromatic Pocket. Biochemistry, 2009, 48, 1525-1531.	2.5	54
53	Design of a Î²-hairpin peptide-intercalator conjugate for simultaneous recognition of single stranded and double stranded regions of RNA. Organic and Biomolecular Chemistry, 2009, 7, 4622.	2.8	13
54	Stabilization of the Nâ€terminal Î²â€hairpin of ubiquitin by a terminal hydrophobic cluster. Biopolymers, 2008, 90, 394-398.	2.4	8

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55	Carbohydrateâˆ'Ï€ Interactions: What Are They Worth?. Journal of the American Chemical Society, 2008, 130, 14625-14633.	13.7	179
56	Recognition of trimethyllysine by a chromodomain is not driven by the hydrophobic effect. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 11184-11188.	7.1	153
57	Evaluation of a carbohydrateâ€"Ï€ interaction in a peptide model system. Chemical Communications, 2007, , 4026.	4.1	77
58	Effects of Chain Length and N-Methylation on a Cationâ€"Ï€ Interaction in a Î²-Hairpin Peptide. Chemistry - A European Journal, 2007, 13, 5753-5764.	3.3	59
59	The model student: what chemical model systems can teach us about biology. , 2007, 3, 70-73.		27
60	Effects of Lysine Acetylation in a Î²-Hairpin Peptide:Â Comparison of an Amideâˆ'Ï€ and a Cationâˆ'Ï€ Interaction. Journal of the American Chemical Society, 2006, 128, 13586-13591.	13.7	60
61	Arginine Methylation in a Î²-Hairpin Peptide:Â Implications for Argâˆ'Ï€ Interactions, Î"CpÂ°, and the Cold Denatured State. Journal of the American Chemical Society, 2006, 128, 12735-12742.	13.7	79
62	Model systems for Î²-hairpins and Î²-sheets. Current Opinion in Structural Biology, 2006, 16, 514-524.	5.7	176
63	Molecular recognition with designed peptides and proteins. Current Opinion in Chemical Biology, 2005, 9, 627-631.	6.1	26
64	Turn Residues in Î²-Hairpin Peptides as Points for Covalent Modification. Organic Letters, 2005, 7, 3825-3828.	4.6	16
65	Minimalist Protein Design:Â A Î²-Hairpin Peptide That Binds ssDNA. Journal of the American Chemical Society, 2005, 127, 24-25.	13.7	51
66	Influence ofN-Methylation on a Cationâˆ'Ï€ Interaction Produces a Remarkably Stable Î²-Hairpin Peptide. Journal of the American Chemical Society, 2005, 127, 6518-6519.	13.7	80
67	The Recognition of Nucleotides with Îœodel Î²-Hairpin Receptors:Â Investigation of Critical Contacts and Nucleotide Selectivity. Journal of Organic Chemistry, 2005, 70, 1105-1114.	3.2	51
68	Investigation of the nature of the methionine-Ï€ interaction in Î²-hairpin peptide model systems. Protein Science, 2004, 13, 2515-2522.	7.6	75
69	A Peptide Flavoprotein Mimic: Flavin Recognition and Redox Potential Modulation in Water by a DesignedÎ² Hairpin. Angewandte Chemie - International Edition, 2004, 43, 724-727.	13.8	39
70	Aromatic interactions in peptides: Impact on structure and function. Biopolymers, 2004, 76, 435-445.	2.4	170
71	Comparison of Câˆ'HÂ·Â·Â·Ï€ and Hydrophobic Interactions in a Î²-Hairpin Peptide:â€‰ Impact on Stability and Specificity. Journal of the American Chemical Society, 2004, 126, 2028-2034.	13.7	139
72	Effect of Halogenation on Edgeâˆ'Face Aromatic Interactions in a Î²-Hairpin Peptide:â€‰ Enhanced Affinity with Iodo-Substituents. Organic Letters, 2004, 6, 3969-3972.	4.6	39

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73	Sequence dependence of Î²-hairpin structure: Comparison of a salt bridge and an aromatic interaction. Protein Science, 2003, 12, 2657-2667.	7.6	84
74	A Designed Î²-Hairpin Peptide for Molecular Recognition of ATP in Water. Journal of the American Chemical Society, 2003, 125, 9580-9581.	13.7	140
75	Selective Aromatic Interactions in Î²-Hairpin Peptides. Journal of the American Chemical Society, 2002, 124, 9372-9373.	13.7	205
76	Aromatic interactions in model systems. Current Opinion in Chemical Biology, 2002, 6, 736-741.	6.1	416
77	Simple Cationâ^'Ï€ Interaction between a Phenyl Ring and a Protonated Amine Stabilizes an Î±-Helix in Water. Journal of the American Chemical Society, 2002, 124, 14917-14921.	13.7	94
78	Contribution of Aromatic Interactions to Î±-Helix Stability. Journal of the American Chemical Society, 2002, 124, 9751-9755.	13.7	153
79	Unexpected Substituent Effects in Offset Ï€â^'Ï€ Stacked Interactions in Water. Journal of the American Chemical Society, 2002, 124, 1860-1861.	13.7	219
80	Terminal chalcogenido complexes of zirconium: Syntheses and reactivity of Cp2*Zr(E)(NC5H5) (E = O, S,) Tj ETQq0 0 0 rgBT /Overlock 1	1.8	69
81	Terminal zirconium oxo complexes: synthesis, structure, and reactivity of (.eta.5-C5Me4R)2Zr(O)(NC5H4R'). Journal of the American Chemical Society, 1993, 115, 4917-4918.	13.7	90
82	Application of an Imprintâ€andâ€Report Sensor Array for Detection of the Dietary Metabolite Trimethylamine Nâ€Oxide and Its Precursors in Complex Mixtures. Angewandte Chemie, 0, , .	2.0	1