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	Aromatic interactions in model systems. Current Opinion in Chemical Biology, 2002, 6, 736-741.	6.1	416
2	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
3	Selective Aromatic Interactions in Î²-Hairpin Peptides. Journal of the American Chemical Society, 2002, 124, 9372-9373.	13.7	205
4	Carbohydrateâˆ'Ï€ Interactions: What Are They Worth?. Journal of the American Chemical Society, 2008, 130, 14625-14633.	13.7	179
5	Model systems for Î²-hairpins and Î²-sheets. Current Opinion in Structural Biology, 2006, 16, 514-524.	5.7	176
6	Aromatic interactions in peptides: Impact on structure and function. Biopolymers, 2004, 76, 435-445.	2.4	170
7	Contribution of Aromatic Interactions to Î±-Helix Stability. Journal of the American Chemical Society, 2002, 124, 9751-9755.	13.7	153
8	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
9	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
10	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
11	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
12	Simple Cationâˆ'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
13	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
14	A Synthetic Receptor for Asymmetric Dimethyl Arginine. Journal of the American Chemical Society, 2013, 135, 6450-6455.	13.7	86
15	Sequence dependence of Î²-hairpin structure: Comparison of a salt bridge and an aromatic interaction. Protein Science, 2003, 12, 2657-2667.	7.6	84
16	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
17	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
18	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

#	ARTICLE	IF	CITATIONS
19	Evaluation of a carbohydrateâ€"Ï€ interaction in a peptide model system. Chemical Communications, 2007, , 4026.	4.1	77
20	Investigation of the nature of the methionine-Ï€ interaction in Î²-hairpin peptide model systems. Protein Science, 2004, 13, 2515-2522.	7.6	75
21	Terminal chalcogenido complexes of zirconium: Syntheses and reactivity of Cp2*Zr(E)(NC5H5) (E = O, S,) Tj ETQq1 1 0.784314 rgBT /O	1.8	69
22	Molecular Recognition of Lys and Arg Methylation. ACS Chemical Biology, 2016, 11, 643-653.	3.4	64
23	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
24	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
25	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
26	Minimalist Protein Design:Â A Î²-Hairpin Peptide That Binds ssDNA. Journal of the American Chemical Society, 2005, 127, 24-25.	13.7	51
27	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
28	Constitutionally selective amplification of multicomponent 84-membered macrocyclic hosts for (âˆ')-cytidineâ€¢H+. Chemical Science, 2011, 2, 744.	7.4	48
29	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
30	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
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	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
33	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
34	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
35	Positional effects of click cyclization on Î²-hairpin structure, stability, and function. Organic and Biomolecular Chemistry, 2013, 11, 69-77.	2.8	34
36	The structure of wellâ€folded Î²â€hairpin peptides promotes resistance to peptidase degradation. Biopolymers, 2009, 92, 502-507.	2.4	31

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37	Fluorogenic sensor platform for the histone code using receptors from dynamic combinatorial libraries. Chemical Science, 2017, 8, 1422-1428.	7.4	29
38	The model student: what chemical model systems can teach us about biology. , 2007, 3, 70-73.		27
39	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
40	Molecular recognition with designed peptides and proteins. Current Opinion in Chemical Biology, 2005, 9, 627-631.	6.1	26
41	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
42	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
43	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
44	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
45	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
46	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
47	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
48	Mimicking Biological Recognition: Lessons in Binding Hydrophilic Guests in Water. Chemistry - A European Journal, 2021, 27, 6620-6644.	3.3	18
49	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
50	Turn Residues in Î²-Hairpin Peptides as Points for Covalent Modification. Organic Letters, 2005, 7, 3825-3828.	4.6	16
51	Structural Effects on ssâ€•and dsDNA Recognition by a Î²â€Hairpin Peptide. ChemBioChem, 2009, 10, 539-544.	2.6	15
52	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
53	Engineered Reader Proteins for Enhanced Detection of Methylated Lysine on Histones. ACS Chemical Biology, 2020, 15, 103-111.	3.4	15
54	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

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55	Redesign of a WW Domain Peptide for Selective Recognition of Single-Stranded DNA. Biochemistry, 2011, 50, 2575-2584.	2.5	13
56	Tuning HP1Î± Chromodomain Selectivity for Di- and Trimethyllysine. ChemBioChem, 2011, 12, 2786-2790.	2.6	13
57	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
58	Î²-Turn sequences promote stability of peptide substrates for kinases within the cytosolic environment. Analyst, The, 2013, 138, 4305.	3.5	12
59	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
60	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
61	Positional effects of phosphoserine on Î²-hairpin stability. Organic and Biomolecular Chemistry, 2010, 8, 5411.	2.8	10
62	Inducedâ€Fit Binding of a Polyproline Helix by a Î²â€Hairpin Peptide. Angewandte Chemie - International Edition, 2011, 50, 12201-12204.	13.8	10
63	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
64	Late stage modification of receptors identified from dynamic combinatorial libraries. Organic and Biomolecular Chemistry, 2015, 13, 10939-10945.	2.8	10
65	Secondary Binding Interactions in a Synthetic Receptor for Trimethyllysine. Chemistry - A European Journal, 2015, 21, 17981-17986.	3.3	9
66	Achieving High Affinity and Selectivity for Asymmetric Dimethylarginine by Putting a Lid on a Box. Angewandte Chemie, 2019, 131, 5336-5339.	2.0	9
67	Stabilization of the Nâ€terminal Î²â€hairpin of ubiquitin by a terminal hydrophobic cluster. Biopolymers, 2008, 90, 394-398.	2.4	8
68	Electron transfer dynamics of peptideâ€derivatized Ru^{II}â€polypyridyl complexes on nanocrystalline metal oxide films. Biopolymers, 2013, 100, 25-37.	2.4	7
69	Investigation of the Î²-Sheet Interactions between dHP1 Chromodomain and Histone 3. Biochemistry, 2015, 54, 2314-2322.	2.5	7
70	Identification of a p53-based portable degron based on the MDM2-p53 binding region. Analyst, The, 2016, 141, 570-578.	3.5	5
71	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
72	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

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73	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
74	A study of 2-component i, iâ€¯+â€¯3 peptide stapling using thioethers. Bioorganic and Medicinal Chemistry, 2018, 26, 1203-1205.	3.0	4
75	Tetrameric psuedo-peptide receptors with allosteric properties. Chemical Communications, 2016, 52, 8103-8106.	4.1	3
76	Bonds that bind. Nature Chemical Biology, 2016, 12, 768-769.	8.0	2
77	Comparative Analysis of Sulfoniumâˆ'Ï€, Ammoniumâˆ'Ï€, and Sulfurâˆ'Ï€ Interactions and Relevance to SAM-Dependent Methyltransferases. Journal of the American Chemical Society, 2022, 144, 2535-2545.	13.7	2
78	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
79	From supramolecular chemistry to the nucleosome: studies in biomolecular recognition. Beilstein Journal of Organic Chemistry, 2016, 12, 1863-1869.	2.2	0
80	N-Gemini peptides: cytosolic protease resistance via N-terminal dimerization of unstructured peptides. Chemical Communications, 2018, 54, 204-207.	4.1	0
81	Frontispiece: Mimicking Biological Recognition: Lessons in Binding Hydrophilic Guests in Water. Chemistry - A European Journal, 2021, 27, .	3.3	0
82	Interactions Between HP1 Chromodomain and H3 Trimethyllysine9 Histone Tail. FASEB Journal, 2011, 25, 896.4.	0.5	0