Jasmin Mecinovic

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

92 papers	3,091 citations	23 h-index	54 g-index
108 ext. papers	3,541 ext. citations	6.5 avg, IF	5.09 L-index

#	Paper	IF	Citations
92	Mechanism of the hydrophobic effect in the biomolecular recognition of arylsulfonamides by carbonic anhydrase. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 17889-94	11.5	268
91	A mouse model for the metabolic effects of the human fat mass and obesity associated FTO gene. *PLoS Genetics*, **2009**, 5, e1000599	6	245
90	Natural supramolecular protein assemblies. *Chemical Society Reviews*, **2016**, 45, 24-39	58.5	206
89	Inhibitor scaffolds for 2-oxoglutarate-dependent histone lysine demethylases. *Journal of Medicinal Chemistry*, **2008**, 51, 7053-6	8.3	202
88	Multicolor Photoluminescence Including White-Light Emission by a Single Host-Guest Complex. *Journal of the American Chemical Society*, **2016**, 138, 13541-13550	16.4	182
87	Structural basis for binding of hypoxia-inducible factor to the oxygen-sensing prolyl hydroxylases. *Structure*, **2009**, 17, 981-9	5.2	174
86	Asparaginyl hydroxylation of the Notch ankyrin repeat domain by factor inhibiting hypoxia-inducible factor. *Journal of Biological Chemistry*, **2007**, 282, 24027-38	5.4	167
85	Selective inhibitors of the JMJD2 histone demethylases: combined nondenaturing mass spectrometric screening and crystallographic approaches. *Journal of Medicinal Chemistry*, **2010**, 53, 1810-8	8.3	139
84	Epidithiodiketopiperazines block the interaction between hypoxia-inducible factor-1alpha (HIF-1alpha) and p300 by a zinc ejection mechanism. *Journal of Biological Chemistry*, **2009**, 284, 26831-8	5.4	130
83	Fluoroalkyl and alkyl chains have similar hydrophobicities in binding to the "hydrophobic wall" of carbonic anhydrase. *Journal of the American Chemical Society*, **2011**, 133, 14017-26	16.4	77
82	Therapeutic manipulation of the HIF hydroxylases. *Antioxidants and Redox Signaling*, **2010**, 12, 481-501	8.4	71
81	Inhibition of the histone lysine demethylase JMJD2A by ejection of structural Zn(II). *Chemical Communications*, **2009**, 6376-8	5.8	67
80	Triphenylphosphine-catalysed amide bond formation between carboxylic acids and amines. *Chemical Communications*, **2014**, 50, 5763-6	5.8	66
79	Kinetic rationale for selectivity toward N- and C-terminal oxygen-dependent degradation domain substrates mediated by a loop region of hypoxia-inducible factor prolyl hydroxylases. *Journal of Biological Chemistry*, **2008**, 283, 3808-15	5.4	64
78	Chemical basis for the recognition of trimethyllysine by epigenetic reader proteins. *Nature Communications*, **2015**, 6, 8911	17.4	57
77	Iron-mediated cleavage of C-C bonds in vicinal tricarbonyl compounds in water. *Angewandte Chemie - International Edition*, **2009**, 48, 2796-800	16.4	55
76	Evidence for a stereoelectronic effect in human oxygen sensing. *Angewandte Chemie - International Edition*, **2009**, 48, 1784-7	16.4	51

75	Inhibition of the histone demethylase JMJD2E by 3-substituted pyridine 2,4-dicarboxylates. *Organic and Biomolecular Chemistry*, **2011**, 9, 127-35	3.9	50
74	Studies on the reaction of nitric oxide with the hypoxia-inducible factor prolyl hydroxylase domain 2 (EGLN1). *Journal of Molecular Biology*, **2011**, 410, 268-79	6.5	47
73	Application of a proteolysis/mass spectrometry method for investigating the effects of inhibitors on hydroxylase structure. *Journal of Medicinal Chemistry*, **2009**, 52, 2799-805	8.3	42
72	Crotonase catalysis enables flexible production of functionalized prolines and carbapenams. *Journal of the American Chemical Society*, **2012**, 134, 471-9	16.4	30
71	Evidence that thienamycin biosynthesis proceeds via C-5 epimerization: ThnE catalyzes the formation of (2S,5S)-trans-carboxymethylproline. *ChemBioChem*, **2009**, 10, 246-50	3.8	28
70	Evidence that the catenane form of CS2 hydrolase is not an artefact. *Chemical Communications*, **2013**, 49, 7770-2	5.8	24
69	Zirconium-catalyzed direct amide bond formation between carboxylic esters and amines. *Tetrahedron*, **2015**, 71, 5547-5553	2.4	23
68	2-Oxoglutarate regulates binding of hydroxylated hypoxia-inducible factor to prolyl hydroxylase domain 2. *Chemical Communications*, **2018**, 54, 3130-3133	5.8	23
67	2-Oxoglutarate oxygenases are inhibited by a range of transition metals. *Metallomics*, **2010**, 2, 397-9	4.5	23
66	Triflic anhydride-mediated synthesis of oxazoles. *Tetrahedron Letters*, **2009**, 50, 1045-1047	2	23
65	ESI-MS studies on prolyl hydroxylase domain 2 reveal a new metal binding site. *ChemMedChem*, **2008**, 3, 569-72	3.7	23
64	Chemoselective calcium-catalysed direct amidation of carboxylic esters. *RSC Advances*, **2015**, 5, 77658-77661	3.7	22
63	Carboxymethylproline synthase catalysed syntheses of functionalised N-heterocycles. *Chemical Communications*, **2010**, 46, 1413-5	5.8	22
62	2-Oxoglutarate analogue inhibitors of prolyl hydroxylase domain 2. *Bioorganic and Medicinal Chemistry Letters*, **2009**, 19, 6192-5	2.9	22
61	Direct analysis of enzyme-catalyzed DNA demethylation. *Analytical Chemistry*, **2009**, 81, 5871-5	7.8	21
60	Dual-action inhibitors of HIF prolyl hydroxylases that induce binding of a second iron ion. *Organic and Biomolecular Chemistry*, **2013**, 11, 732-745	3.9	20
59	Cation-□Interactions Contribute to Substrate Recognition in □Butyrobetaine Hydroxylase Catalysis. *Chemistry - A European Journal*, **2016**, 22, 1270-6	4.8	19
58	Use of mass spectrometry to probe the nucleophilicity of cysteinyl residues of prolyl hydroxylase domain 2. *Analytical Biochemistry*, **2009**, 393, 215-21	3.1	18

57	Sustainable organophosphorus-catalysed Staudinger reduction. *Green Chemistry*, **2018**, 20, 4418-4422	10	17
56	Investigating d-lysine stereochemistry for epigenetic methylation, demethylation and recognition. *Chemical Communications*, **2017**, 53, 13264-13267	5.8	16
55	Inhibition of histone lysine methyltransferases G9a and GLP by ejection of structural Zn(II). *Bioorganic and Medicinal Chemistry Letters*, **2018**, 28, 1234-1238	2.9	15
54	Hydroxylamine as an oxygen nucleophile: substitution of sulfonamide by a hydroxyl group in benzothiazole-2-sulfonamides. *Organic and Biomolecular Chemistry*, **2013**, 11, 1103-8	3.9	15
53	Poly(methylhydrosiloxane) as a green reducing agent in organophosphorus-catalysed amide bond formation. *Organic and Biomolecular Chemistry*, **2017**, 15, 6426-6432	3.9	15
52	Substrate scope for trimethyllysine hydroxylase catalysis. *Chemical Communications*, **2016**, 52, 12849-12852	5.8	14
51	Catalytic Staudinger Reduction at Room Temperature. *Journal of Organic Chemistry*, **2019**, 84, 6536-6545	4.2	13
50	Stabilisation of 2,6-diarylpyridinium cation by through-space polar-π interactions. *Chemistry - A European Journal*, **2014**, 20, 6268-71	4.8	13
49	Lysine Possesses the Optimal Chain Length for Histone Lysine Methyltransferase Catalysis. *Scientific Reports*, **2017**, 7, 16148	4.9	13
48	Catalytic transport of molecular cargo using diffusive binding along a polymer track. *Nature Chemistry*, **2019**, 11, 359-366	17.6	12
47	LHP1 Interacts with ATRX through Plant-Specific Domains at Specific Loci Targeted by PRC2. *Molecular Plant*, **2018**, 11, 1038-1052	14.4	12
46	Importance of the main chain of lysine for histone lysine methyltransferase catalysis. *Organic and Biomolecular Chemistry*, **2019**, 17, 5693-5697	3.9	11
45	Recognition of shorter and longer trimethyllysine analogues by epigenetic reader proteins. *Chemical Communications*, **2018**, 54, 2409-2412	5.8	11
44	The nucleophilic amino group of lysine is central for histone lysine methyltransferase catalysis. *Communications Chemistry*, **2019**, 2,	6.3	11
43	Stabilization of 2,6-Diarylanilinum Cation by Through-Space Cation-π Interactions. *Journal of Organic Chemistry*, **2017**, 82, 9418-9424	4.2	11
42	Targeting SARS-CoV-2 spike protein by stapled hACE2 peptides. *Chemical Communications*, **2021**, 57, 3283-3286	5.8	11
41	Thialysine versus Lysine: An Insight into the Epigenetic Methylation of Histones. *Bioconjugate Chemistry*, **2019**, 30, 1798-1804	6.3	10
40	Iron-Mediated Cleavage of C?C Bonds in Vicinal Tricarbonyl Compounds in Water. *Angewandte Chemie*, **2009**, 121, 2834-2838	3.6	9

39	Evidence That Trimethyllysine Hydroxylase Catalyzes the Formation of (2S,3S)-3-Hydroxy-N-trimethyllysine. *Organic Letters*, **2017**, 19, 400-403	6.2	8
38	Alendronate-Functionalized Poly(2-oxazoline)s with Tunable Affinity for Calcium Cations. *Biomacromolecules*, **2019**, 20, 2913-2921	6.9	8
37	Thermodynamic investigation of Z33-antibody interaction leads to selective purification of human antibodies. *Journal of Biotechnology*, **2014**, 179, 32-41	3.7	8
36	Evidence for a Stereoelectronic Effect in Human Oxygen Sensing. *Angewandte Chemie*, **2009**, 121, 1816-1819	3.8	8
35	Mechanistic Insight into the Catalytic Staudinger Ligation. *Organic Letters*, **2019**, 21, 1011-1014	6.2	7
34	Installation of Trimethyllysine Analogs on Intact Histones via Cysteine Alkylation. *Bioconjugate Chemistry*, **2019**, 30, 952-958	6.3	7
33	Probing Through-Space Polar-□Interactions in 2,6-Diarylphenols. *Journal of Organic Chemistry*, **2019**, 84, 3632-3637	4.2	7
32	Structure-Activity Relationship Studies on (R)-PFI-2 Analogues as Inhibitors of Histone Lysine Methyltransferase SETD7. *ChemMedChem*, **2018**, 13, 1405-1413	3.7	7
31	Methylation of geometrically constrained lysine analogues by histone lysine methyltransferases. *Chemical Communications*, **2020**, 56, 3039-3042	5.8	7
30	Exploring the Histone Acylome through Incorporation of □Thialysine on Histone Tails. *Bioconjugate Chemistry*, **2020**, 31, 844-851	6.3	6
29	The effect of the length of histone H3K4me3 on recognition by reader proteins. *ChemBioChem*, **2013**, 14, 2408-12	3.8	6
28	3-(Dimethylamino)propenoate-based Regioselective Synthesis of 1,4-Disubstituted 5-Hydroxy-1H-pyrazoles. *Heterocycles*, **2006**, 68, 897	0.8	6
27	Untargeted metabolomics and infrared ion spectroscopy identify biomarkers for pyridoxine-dependent epilepsy. *Journal of Clinical Investigation*, **2021**, 131,	15.9	6
26	Fluorinated trimethyllysine as a F NMR probe for trimethyllysine hydroxylase catalysis. *Organic and Biomolecular Chemistry*, **2017**, 15, 1350-1354	3.9	5
25	Through-Space Polar-□Interactions in 2,6-Diarylthiophenols. *ChemPhysChem*, **2020**, 21, 1092-1100	3.2	5
24	Catenane versus ring: do both assemblies of CS2 hydrolase exhibit the same stability and catalytic activity?. *Chemical Science*, **2014**, 5, 2879	9.4	5
23	The Role of Electrostatic Interactions in Binding of Histone H3K4me2/3 to the Sgf29 Tandem Tudor Domain. *PLoS ONE*, **2015**, 10, e0139205	3.7	5
22	Mechanism of biomolecular recognition of trimethyllysine by the fluorinated aromatic cage of KDM5A PHD3 finger. *Communications Chemistry*, **2020**, 3,	6.3	4

21	Examining sterically demanding lysine analogs for histone lysine methyltransferase catalysis. *Scientific Reports*, **2020**, 10, 3671	4.9	4
20	Effect of lysine side chain length on histone lysine acetyltransferase catalysis. *Scientific Reports*, **2020**, 10, 13046	4.9	4
19	Trimethyllysine: From Carnitine Biosynthesis to Epigenetics. *International Journal of Molecular Sciences*, **2020**, 21,	6.3	4
18	Lysine Ethylation by Histone Lysine Methyltransferases. *ChemBioChem*, **2020**, 21, 392-400	3.8	4
17	Small-molecules that covalently react with a human prolyl hydroxylase - towards activity modulation and substrate capture. *Chemical Communications*, **2019**, 55, 1020-1023	5.8	3
16	Investigating the active site of human trimethyllysine hydroxylase. *Biochemical Journal*, **2019**, 476, 1109-1119	3.8	3
15	Comparison of Molecular Recognition of Trimethyllysine and Trimethylthialysine by Epigenetic Reader Proteins. *Molecules*, **2020**, 25,	4.8	3
14	Transmission electron microscopy enables the reconstruction of the catenane and ring forms of CS2 hydrolase. *Chemical Communications*, **2014**, 50, 10281-3	5.8	3
13	Metabolite Identification Using Infrared Ion Spectroscopy-Novel Biomarkers for Pyridoxine-Dependent Epilepsy. *Analytical Chemistry*, **2021**, 93, 15340-15348	7.8	3
12	Probing Halogen-π versus CH-π Interactions in Molecular Balance. *Organic Letters*, **2020**, 22, 7870-7873	6.2	3
11	β-Actin Peptide-Based Inhibitors of Histidine Methyltransferase SETD3. *ChemMedChem*, **2021**, 16, 2695-2702	3.7	3
10	Fine-tuning of lysine side chain modulates the activity of histone lysine methyltransferases. *Scientific Reports*, **2020**, 10, 21574	4.9	2
9	Substrate Scope for Human Histone Lysine Acetyltransferase KAT8. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	2
8	Novel SAR for quinazoline inhibitors of EHMT1 and EHMT2. *Bioorganic and Medicinal Chemistry Letters*, **2019**, 29, 2516-2524	2.9	1
7	Importance of Ile71 in β-actin on histidine methyltransferase SETD3 catalysis.. *Organic and Biomolecular Chemistry*, **2022**,	3.9	1
6	Do Sulfonamides Interact with Aromatic Rings?. *Chemistry - A European Journal*, **2021**, 27, 5721-5729	4.8	1
5	β-Difluorolysine as a F NMR probe for histone lysine methyltransferases and acetyltransferases. *Chemical Communications*, **2021**, 57, 6788-6791	5.8	0
4	Characterization of Cyclic N-Acyliminium Ions by Infrared Ion Spectroscopy.. *Chemistry - A European Journal*, **2021**, e202104078	4.8	0

3	Histidine methyltransferase SETD3 methylates structurally diverse histidine mimics in actin.. *Protein Science*, **2022**, 31, e4305	6.3	0
2	Through-Space Polar-Interactions in 2,6-Diarylthiophenols. *ChemPhysChem*, **2020**, 21, 1080	3.2	
1	Biomolecular Recognition of Methylated Histones. *RNA Technologies*, **2019**, 435-451	0.2	