

Jasmin Mecinovic

List of Publications by Year in Descending Order

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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	Importance of Ile71 in β -Actin on histidine methyltransferase SETD3 catalysis.. <i>Organic and Biomolecular Chemistry</i> , 2022 ,	3.9	1
91	Histidine methyltransferase SETD3 methylates structurally diverse histidine mimics in actin.. <i>Protein Science</i> , 2022 , 31, e4305	6.3	0
90	Metabolite Identification Using Infrared Ion Spectroscopy-Novel Biomarkers For Pyridoxine-Dependent Epilepsy. <i>Analytical Chemistry</i> , 2021 , 93, 15340-15348	7.8	3
89	Do Sulfonamides Interact with Aromatic Rings?. <i>Chemistry - A European Journal</i> , 2021 , 27, 5721-5729	4.8	1
88	β -Actin Peptide-Based Inhibitors of Histidine Methyltransferase SETD3. <i>ChemMedChem</i> , 2021 , 16, 2695-2702	3.7	3
87	Targeting SARS-CoV-2 spike protein by stapled hACE2 peptides. <i>Chemical Communications</i> , 2021 , 57, 3283-3286	5.8	11
86	β -Difluorolysine as a F NMR probe for histone lysine methyltransferases and acetyltransferases. <i>Chemical Communications</i> , 2021 , 57, 6788-6791	5.8	0
85	Untargeted metabolomics and infrared ion spectroscopy identify biomarkers for pyridoxine-dependent epilepsy. <i>Journal of Clinical Investigation</i> , 2021 , 131,	15.9	6
84	Substrate Scope for Human Histone Lysine Acetyltransferase KAT8. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	2
83	Characterization of Cyclic N-Acyliminium Ions by Infrared Ion Spectroscopy.. <i>Chemistry - A European Journal</i> , 2021 , e202104078	4.8	0
82	Fine-tuning of lysine side chain modulates the activity of histone lysine methyltransferases. <i>Scientific Reports</i> , 2020 , 10, 21574	4.9	2
81	Mechanism of biomolecular recognition of trimethyllysine by the fluorinated aromatic cage of KDM5A PHD3 finger. <i>Communications Chemistry</i> , 2020 , 3,	6.3	4
80	Through-Space Polar- π Interactions in 2,6-Diarylthiophenols. <i>ChemPhysChem</i> , 2020 , 21, 1080	3.2	
79	Examining sterically demanding lysine analogs for histone lysine methyltransferase catalysis. <i>Scientific Reports</i> , 2020 , 10, 3671	4.9	4
78	Exploring the Histone Acylome through Incorporation of β -Thialysine on Histone Tails. <i>Bioconjugate Chemistry</i> , 2020 , 31, 844-851	6.3	6
77	Through-Space Polar- π Interactions in 2,6-Diarylthiophenols. <i>ChemPhysChem</i> , 2020 , 21, 1092-1100	3.2	5
76	Comparison of Molecular Recognition of Trimethyllysine and Trimethylthialysine by Epigenetic Reader Proteins. <i>Molecules</i> , 2020 , 25,	4.8	3

75	Methylation of geometrically constrained lysine analogues by histone lysine methyltransferases. <i>Chemical Communications</i> , 2020 , 56, 3039-3042	5.8	7
74	Probing Halogen- π versus CH- π Interactions in Molecular Balance. <i>Organic Letters</i> , 2020 , 22, 7870-7873	6.2	3
73	Effect of lysine side chain length on histone lysine acetyltransferase catalysis. <i>Scientific Reports</i> , 2020 , 10, 13046	4.9	4
72	Trimethyllysine: From Carnitine Biosynthesis to Epigenetics. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	4
71	Lysine Ethylation by Histone Lysine Methyltransferases. <i>ChemBioChem</i> , 2020 , 21, 392-400	3.8	4
70	Catalytic transport of molecular cargo using diffusive binding along a polymer track. <i>Nature Chemistry</i> , 2019 , 11, 359-366	17.6	12
69	Small-molecules that covalently react with a human prolyl hydroxylase - towards activity modulation and substrate capture. <i>Chemical Communications</i> , 2019 , 55, 1020-1023	5.8	3
68	Mechanistic Insight into the Catalytic Staudinger Ligation. <i>Organic Letters</i> , 2019 , 21, 1011-1014	6.2	7
67	π -Thialysine versus Lysine: An Insight into the Epigenetic Methylation of Histones. <i>Bioconjugate Chemistry</i> , 2019 , 30, 1798-1804	6.3	10
66	Novel SAR for quinazoline inhibitors of EHMT1 and EHMT2. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2019 , 29, 2516-2524	2.9	1
65	Importance of the main chain of lysine for histone lysine methyltransferase catalysis. <i>Organic and Biomolecular Chemistry</i> , 2019 , 17, 5693-5697	3.9	11
64	Catalytic Staudinger Reduction at Room Temperature. <i>Journal of Organic Chemistry</i> , 2019 , 84, 6536-6545	4.2	13
63	Investigating the active site of human trimethyllysine hydroxylase. <i>Biochemical Journal</i> , 2019 , 476, 1109-1119	3.8	3
62	Installation of Trimethyllysine Analogs on Intact Histones via Cysteine Alkylation. <i>Bioconjugate Chemistry</i> , 2019 , 30, 952-958	6.3	7
61	Probing Through-Space Polar- π Interactions in 2,6-Diarylphenols. <i>Journal of Organic Chemistry</i> , 2019 , 84, 3632-3637	4.2	7
60	Alendronate-Functionalized Poly(2-oxazoline)s with Tunable Affinity for Calcium Cations. <i>Biomacromolecules</i> , 2019 , 20, 2913-2921	6.9	8
59	The nucleophilic amino group of lysine is central for histone lysine methyltransferase catalysis. <i>Communications Chemistry</i> , 2019 , 2,	6.3	11
58	Biomolecular Recognition of Methylated Histones. <i>RNA Technologies</i> , 2019 , 435-451	0.2	

57	Recognition of shorter and longer trimethyllysine analogues by epigenetic reader proteins. <i>Chemical Communications</i> , 2018 , 54, 2409-2412	5.8	11
56	Inhibition of histone lysine methyltransferases G9a and GLP by ejection of structural Zn(II). <i>Bioorganic and Medicinal Chemistry Letters</i> , 2018 , 28, 1234-1238	2.9	15
55	2-Oxoglutarate regulates binding of hydroxylated hypoxia-inducible factor to prolyl hydroxylase domain 2. <i>Chemical Communications</i> , 2018 , 54, 3130-3133	5.8	23
54	Structure-Activity Relationship Studies on (R)-PFI-2 Analogues as Inhibitors of Histone Lysine Methyltransferase SETD7. <i>ChemMedChem</i> , 2018 , 13, 1405-1413	3.7	7
53	Sustainable organophosphorus-catalysed Staudinger reduction. <i>Green Chemistry</i> , 2018 , 20, 4418-4422	10	17
52	LHP1 Interacts with ATRX through Plant-Specific Domains at Specific Loci Targeted by PRC2. <i>Molecular Plant</i> , 2018 , 11, 1038-1052	14.4	12
51	Fluorinated trimethyllysine as a F NMR probe for trimethyllysine hydroxylase catalysis. <i>Organic and Biomolecular Chemistry</i> , 2017 , 15, 1350-1354	3.9	5
50	Evidence That Trimethyllysine Hydroxylase Catalyzes the Formation of (2S,3S)-3-Hydroxy-N-trimethyllysine. <i>Organic Letters</i> , 2017 , 19, 400-403	6.2	8
49	Stabilization of 2,6-Diarylanilinium Cation by Through-Space Cation- π Interactions. <i>Journal of Organic Chemistry</i> , 2017 , 82, 9418-9424	4.2	11
48	Poly(methylhydrosiloxane) as a green reducing agent in organophosphorus-catalysed amide bond formation. <i>Organic and Biomolecular Chemistry</i> , 2017 , 15, 6426-6432	3.9	15
47	Investigating d-lysine stereochemistry for epigenetic methylation, demethylation and recognition. <i>Chemical Communications</i> , 2017 , 53, 13264-13267	5.8	16
46	Lysine Possesses the Optimal Chain Length for Histone Lysine Methyltransferase Catalysis. <i>Scientific Reports</i> , 2017 , 7, 16148	4.9	13
45	Multicolor Photoluminescence Including White-Light Emission by a Single Host-Guest Complex. <i>Journal of the American Chemical Society</i> , 2016 , 138, 13541-13550	16.4	182
44	Natural supramolecular protein assemblies. <i>Chemical Society Reviews</i> , 2016 , 45, 24-39	58.5	206
43	Cation- π Interactions Contribute to Substrate Recognition in β -Butyrobetaine Hydroxylase Catalysis. <i>Chemistry - A European Journal</i> , 2016 , 22, 1270-6	4.8	19
42	Substrate scope for trimethyllysine hydroxylase catalysis. <i>Chemical Communications</i> , 2016 , 52, 12849-12852	5.2	14
41	Zirconium-catalyzed direct amide bond formation between carboxylic esters and amines. <i>Tetrahedron</i> , 2015 , 71, 5547-5553	2.4	23
40	Chemoselective calcium-catalysed direct amidation of carboxylic esters. <i>RSC Advances</i> , 2015 , 5, 77658-77661	3.6	22

39	Chemical basis for the recognition of trimethyllysine by epigenetic reader proteins. <i>Nature Communications</i> , 2015 , 6, 8911	17.4	57
38	The Role of Electrostatic Interactions in Binding of Histone H3K4me2/3 to the Sgf29 Tandem Tudor Domain. <i>PLoS ONE</i> , 2015 , 10, e0139205	3.7	5
37	Stabilisation of 2,6-diarylpyridinium cation by through-space polar- π interactions. <i>Chemistry - A European Journal</i> , 2014 , 20, 6268-71	4.8	13
36	Transmission electron microscopy enables the reconstruction of the catenane and ring forms of CS2 hydrolase. <i>Chemical Communications</i> , 2014 , 50, 10281-3	5.8	3
35	Catenane versus ring: do both assemblies of CS2 hydrolase exhibit the same stability and catalytic activity?. <i>Chemical Science</i> , 2014 , 5, 2879	9.4	5
34	Triphenylphosphine-catalysed amide bond formation between carboxylic acids and amines. <i>Chemical Communications</i> , 2014 , 50, 5763-6	5.8	66
33	Thermodynamic investigation of Z33-antibody interaction leads to selective purification of human antibodies. <i>Journal of Biotechnology</i> , 2014 , 179, 32-41	3.7	8
32	Hydroxylamine as an oxygen nucleophile: substitution of sulfonamide by a hydroxyl group in benzothiazole-2-sulfonamides. <i>Organic and Biomolecular Chemistry</i> , 2013 , 11, 1103-8	3.9	15
31	Dual-action inhibitors of HIF prolyl hydroxylases that induce binding of a second iron ion. <i>Organic and Biomolecular Chemistry</i> , 2013 , 11, 732-745	3.9	20
30	Evidence that the catenane form of CS2 hydrolase is not an artefact. <i>Chemical Communications</i> , 2013 , 49, 7770-2	5.8	24
29	The effect of the length of histone H3K4me3 on recognition by reader proteins. <i>ChemBioChem</i> , 2013 , 14, 2408-12	3.8	6
28	Crotonase catalysis enables flexible production of functionalized prolines and carbapenams. <i>Journal of the American Chemical Society</i> , 2012 , 134, 471-9	16.4	30
27	Studies on the reaction of nitric oxide with the hypoxia-inducible factor prolyl hydroxylase domain 2 (EGLN1). <i>Journal of Molecular Biology</i> , 2011 , 410, 268-79	6.5	47
26	Inhibition of the histone demethylase JMJD2E by 3-substituted pyridine 2,4-dicarboxylates. <i>Organic and Biomolecular Chemistry</i> , 2011 , 9, 127-35	3.9	50
25	Fluoroalkyl and alkyl chains have similar hydrophobicities in binding to the "hydrophobic wall" of carbonic anhydrase. <i>Journal of the American Chemical Society</i> , 2011 , 133, 14017-26	16.4	77
24	Mechanism of the hydrophobic effect in the biomolecular recognition of arylsulfonamides by carbonic anhydrase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 17889-94	11.5	268
23	2-Oxoglutarate oxygenases are inhibited by a range of transition metals. <i>Metallomics</i> , 2010 , 2, 397-9	4.5	23
22	Selective inhibitors of the JMJD2 histone demethylases: combined nondenaturing mass spectrometric screening and crystallographic approaches. <i>Journal of Medicinal Chemistry</i> , 2010 , 53, 1810-8	8.3	139

21	Carboxymethylproline synthase catalysed syntheses of functionalised N-heterocycles. <i>Chemical Communications</i> , 2010 , 46, 1413-5	5.8	22
20	Therapeutic manipulation of the HIF hydroxylases. <i>Antioxidants and Redox Signaling</i> , 2010 , 12, 481-501	8.4	71
19	A mouse model for the metabolic effects of the human fat mass and obesity associated FTO gene. <i>PLoS Genetics</i> , 2009 , 5, e1000599	6	245
18	Epidithiodiketopiperazines block the interaction between hypoxia-inducible factor-1alpha (HIF-1alpha) and p300 by a zinc ejection mechanism. <i>Journal of Biological Chemistry</i> , 2009 , 284, 26831-8	5.4	130
17	Structural basis for binding of hypoxia-inducible factor to the oxygen-sensing prolyl hydroxylases. <i>Structure</i> , 2009 , 17, 981-9	5.2	174
16	Evidence for a Stereoelectronic Effect in Human Oxygen Sensing. <i>Angewandte Chemie</i> , 2009 , 121, 1816-1819	8	8
15	Iron-Mediated Cleavage of C-C Bonds in Vicinal Tricarbonyl Compounds in Water. <i>Angewandte Chemie</i> , 2009 , 121, 2834-2838	3.6	9
14	Evidence that thienamycin biosynthesis proceeds via C-5 epimerization: ThnE catalyzes the formation of (2S,5S)-trans-carboxymethylproline. <i>ChemBioChem</i> , 2009 , 10, 246-50	3.8	28
13	Evidence for a stereoelectronic effect in human oxygen sensing. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 1784-7	16.4	51
12	Iron-mediated cleavage of C-C bonds in vicinal tricarbonyl compounds in water. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 2796-800	16.4	55
11	Triflic anhydride-mediated synthesis of oxazoles. <i>Tetrahedron Letters</i> , 2009 , 50, 1045-1047	2	23
10	2-Oxoglutarate analogue inhibitors of prolyl hydroxylase domain 2. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2009 , 19, 6192-5	2.9	22
9	Use of mass spectrometry to probe the nucleophilicity of cysteinyl residues of prolyl hydroxylase domain 2. <i>Analytical Biochemistry</i> , 2009 , 393, 215-21	3.1	18
8	Direct analysis of enzyme-catalyzed DNA demethylation. <i>Analytical Chemistry</i> , 2009 , 81, 5871-5	7.8	21
7	Application of a proteolysis/mass spectrometry method for investigating the effects of inhibitors on hydroxylase structure. <i>Journal of Medicinal Chemistry</i> , 2009 , 52, 2799-805	8.3	42
6	Inhibition of the histone lysine demethylase JMJD2A by ejection of structural Zn(II). <i>Chemical Communications</i> , 2009 , 6376-8	5.8	67
5	Inhibitor scaffolds for 2-oxoglutarate-dependent histone lysine demethylases. <i>Journal of Medicinal Chemistry</i> , 2008 , 51, 7053-6	8.3	202
4	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. <i>Journal of Biological Chemistry</i> , 2008 , 283, 3808-15	5.4	64

3	ESI-MS studies on prolyl hydroxylase domain 2 reveal a new metal binding site. <i>ChemMedChem</i> , 2008 , 3, 569-72	3-7	23
2	Asparaginyl hydroxylation of the Notch ankyrin repeat domain by factor inhibiting hypoxia-inducible factor. <i>Journal of Biological Chemistry</i> , 2007 , 282, 24027-38	5-4	167
1	3-(Dimethylamino)propenoate-based Regioselective Synthesis of 1,4-Disubstituted 5-Hydroxy-1H-pyrazoles. <i>Heterocycles</i> , 2006 , 68, 897	0-8	6