

# Samuel M Meier

## List of Publications by Citations

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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.

81  
papers

2,491  
citations

29  
h-index

48  
g-index

95  
ext. papers

3,004  
ext. citations

6.8  
avg, IF

5.14  
L-index

#	Paper	IF	Citations
81	Structure-activity relationships for ruthenium and osmium anticancer agents - towards clinical development. <i>Chemical Society Reviews</i> , <b>2018</b> , 47, 909-928	58.5	245
80	Organometallic anticancer complexes of lapachol: metal centre-dependent formation of reactive oxygen species and correlation with cytotoxicity. <i>Chemical Communications</i> , <b>2013</b> , 49, 3348-50	5.8	116
79	Application of mass spectrometric techniques to delineate the modes-of-action of anticancer metallodrugs. <i>Chemical Society Reviews</i> , <b>2013</b> , 42, 6186-99	58.5	115
78	Target profiling of an antimetastatic RAPTA agent by chemical proteomics: relevance to the mode of action. <i>Chemical Science</i> , <b>2015</b> , 6, 2449-2456	9.4	105
77	Is the reactivity of M(II)-arene complexes of 3-hydroxy-2(1H)-pyridones to biomolecules the anticancer activity determining parameter?. <i>Inorganic Chemistry</i> , <b>2010</b> , 49, 7953-63	5.1	98
76	Novel metal(II) arene 2-pyridinecarbothioamides: a rationale to orally active organometallic anticancer agents. <i>Chemical Science</i> , <b>2013</b> , 4, 1837	9.4	95
75	Dual triggering of DNA binding and fluorescence via photoactivation of a dinuclear ruthenium(II) arene complex. <i>Inorganic Chemistry</i> , <b>2007</b> , 46, 5059-68	5.1	95
74	Pyrone derivatives and metals: From natural products to metal-based drugs. <i>Journal of Organometallic Chemistry</i> , <b>2011</b> , 696, 999-1010	2.3	77
73	An Organoruthenium Anticancer Agent Shows Unexpected Target Selectivity For Plectin. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 8267-8271	16.4	71
72	Protein ruthenation and DNA alkylation: chlorambucil-functionalized RAPTA complexes and their anticancer activity. <i>Dalton Transactions</i> , <b>2015</b> , 44, 3614-23	4.3	63
71	From hydrolytically labile to hydrolytically stable Ru(II)-arene anticancer complexes with carbohydrate-derived co-ligands. <i>Journal of Inorganic Biochemistry</i> , <b>2011</b> , 105, 224-31	4.2	63
70	Characterization of Hydrophilic Gold(I) N-Heterocyclic Carbene (NHC) Complexes as Potent TrxR Inhibitors Using Biochemical and Mass Spectrometric Approaches. <i>Inorganic Chemistry</i> , <b>2017</b> , 56, 14237-14250	5.1	58
69	On the binding modes of metal NHC complexes with DNA secondary structures: implications for therapy and imaging. <i>Chemical Communications</i> , <b>2017</b> , 53, 8249-8260	5.8	50
68	Half-sandwich ruthenium(II) biotin conjugates as biological vectors to cancer cells. <i>Chemistry - A European Journal</i> , <b>2015</b> , 21, 5110-7	4.8	49
67	Biomolecule binding vs. anticancer activity: reactions of Ru(arene)[(thio)pyr-(id)one] compounds with amino acids and proteins. <i>Journal of Inorganic Biochemistry</i> , <b>2012</b> , 108, 91-5	4.2	49
66	Identification of the structural determinants for anticancer activity of a ruthenium arene peptide conjugate. <i>Chemistry - A European Journal</i> , <b>2013</b> , 19, 9297-307	4.8	48
65	Mass Spectrometry Uncovers Molecular Reactivities of Coordination and Organometallic Gold(III) Drug Candidates in Competitive Experiments That Correlate with Their Biological Effects. <i>Inorganic Chemistry</i> , <b>2016</b> , 55, 4248-59	5.1	45

64	Absence of PD-L1 on tumor cells is associated with reduced MHC I expression and PD-L1 expression increases in recurrent serous ovarian cancer. <i>Scientific Reports</i> , <b>2017</b> , 7, 42929	4.9	41
63	Aquaporins in cancer development: opportunities for bioinorganic chemistry to contribute novel chemical probes and therapeutic agents. <i>Metallomics</i> , <b>2018</b> , 10, 696-712	4.5	40
62	Rhodium(I) N-Heterocyclic Carbene Bioorganometallics as in Vitro Antiproliferative Agents with Distinct Effects on Cellular Signaling. <i>Journal of Medicinal Chemistry</i> , <b>2015</b> , 58, 9591-600	8.3	39
61	Fragmentation methods on the balance: unambiguous top-down mass spectrometric characterization of oxaliplatin-ubiquitin binding sites. <i>Analytical and Bioanalytical Chemistry</i> , <b>2012</b> , 402, 2655-62	4.4	38
60	Integrative Systemic and Local Metabolomics with Impact on Survival in High-Grade Serous Ovarian Cancer. <i>Clinical Cancer Research</i> , <b>2017</b> , 23, 2081-2092	12.9	36
59	Striking difference in antiproliferative activity of ruthenium- and osmium-nitrosyl complexes withazole heterocycles. <i>Inorganic Chemistry</i> , <b>2013</b> , 52, 6273-85	5.1	36
58	Selective targeting of PARP-1 zinc finger recognition domains with Au(III) organometallics. <i>Chemical Communications</i> , <b>2018</b> , 54, 611-614	5.8	33
57	Proteomics and metabolomics identify molecular mechanisms of aging potentially predisposing for chronic lymphocytic leukemia. <i>Molecular and Cellular Proteomics</i> , <b>2018</b> , 17, 290-303	7.6	33
56	The metalation of hen egg white lysozyme impacts protein stability as shown by ion mobility mass spectrometry, differential scanning calorimetry, and X-ray crystallography. <i>Chemical Communications</i> , <b>2017</b> , 53, 4246-4249	5.8	31
55	Poly(lactic acid) nanoparticles of the lead anticancer ruthenium compound KP1019 and its surfactant-mediated activation. <i>Dalton Transactions</i> , <b>2014</b> , 43, 1096-104	4.3	31
54	Ruthenium-nitrosyl complexes with glycine, L-alanine, L-valine, L-proline, D-proline, L-serine, L-threonine, and L-tyrosine: synthesis, X-ray diffraction structures, spectroscopic and electrochemical properties, and antiproliferative activity. <i>Inorganic Chemistry</i> , <b>2014</b> , 53, 2718-29	5.1	29
53	Am(m)ines make the difference: organoruthenium am(m)ine complexes and their chemistry in anticancer drug development. <i>Chemistry - A European Journal</i> , <b>2013</b> , 19, 4308-18	4.8	29
52	Role of the immune system in the peritoneal tumor spread of high grade serous ovarian cancer. <i>Oncotarget</i> , <b>2016</b> , 7, 61336-61354	3.3	29
51	Rollover Cyclometalated Bipyridine Platinum Complexes as Potent Anticancer Agents: Impact of the Ancillary Ligands on the Mode of Action. <i>Inorganic Chemistry</i> , <b>2018</b> , 57, 2851-2864	5.1	28
50	Bulky N,N-(di)alkylethane-1,2-diamineplatinum(II) compounds as precursors for generating unsymmetrically substituted platinum(IV) complexes. <i>Inorganic Chemistry</i> , <b>2013</b> , 52, 8151-62	5.1	28
49	Multi-omics Analysis of Serum Samples Demonstrates Reprogramming of Organ Functions Via Systemic Calcium Mobilization and Platelet Activation in Metastatic Melanoma. <i>Molecular and Cellular Proteomics</i> , <b>2017</b> , 16, 86-99	7.6	27
48	Bioimaging of isosteric osmium and ruthenium anticancer agents by LA-ICP-MS. <i>Metallomics</i> , <b>2018</b> , 10, 388-396	4.5	25
47	Comparative biological evaluation and G-quadruplex interaction studies of two new families of organometallic gold(I) complexes featuring N-heterocyclic carbene and alkynyl ligands. <i>Journal of Inorganic Biochemistry</i> , <b>2020</b> , 202, 110844	4.2	25

46	A 12-week intervention with nonivamide, a TRPV1 agonist, prevents a dietary-induced body fat gain and increases peripheral serotonin in moderately overweight subjects. <i>Molecular Nutrition and Food Research</i> , <b>2017</b> , 61, 1600731	5.9	24
45	Characterizing activation mechanisms and binding preferences of ruthenium metallo-prodrugs by a competitive binding assay. <i>Journal of Inorganic Biochemistry</i> , <b>2017</b> , 177, 322-327	4.2	24
44	Design Strategies and Medicinal Applications of Metal-Peptidic Bioconjugates. <i>Bioconjugate Chemistry</i> , <b>2020</b> , 31, 1279-1288	6.3	23
43	Response Profiling Using Shotgun Proteomics Enables Global Metallo-drug Mechanisms of Action To Be Established. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 1881-1890	4.8	23
42	DNA or protein? Capillary zone electrophoresis-mass spectrometry rapidly elucidates metallo-drug binding selectivity. <i>Chemical Communications</i> , <b>2017</b> , 53, 8002-8005	5.8	21
41	New Variations on the Theme of Gold(III) CNN Cyclometalated Complexes as Anticancer Agents: Synthesis and Biological Characterization. <i>Inorganic Chemistry</i> , <b>2018</b> , 57, 14852-14865	5.1	20
40	Time-dependent shotgun proteomics revealed distinct effects of an organoruthenium prodrug and its activation product on colon carcinoma cells. <i>Metallomics</i> , <b>2019</b> , 11, 118-127	4.5	18
39	Dicopper(II) and dizinc(II) complexes with nonsymmetric dinucleating ligands based on indolo[3,2-c]quinolines: synthesis, structure, cytotoxicity, and intracellular distribution. <i>Inorganic Chemistry</i> , <b>2013</b> , 52, 10137-46	5.1	18
38	Combined Proteome and Eicosanoid Profiling Approach for Revealing Implications of Human Fibroblasts in Chronic Inflammation. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 1945-1954	7.8	17
37	An Organometallic Gold(I) Bis-N-Heterocyclic Carbene Complex with Multimodal Activity in Ovarian Cancer Cells. <i>Chemistry - A European Journal</i> , <b>2020</b> , 26, 15528-15537	4.8	17
36	Interaction with Ribosomal Proteins Accompanies Stress Induction of the Anticancer Metallo-drug BOLD-100/KP1339 in the Endoplasmic Reticulum. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 5063-5068	16.4	17
35	Influence of the $\pi$ -coordinated arene on the anticancer activity of ruthenium(II) carbohydrate organometallic complexes. <i>Frontiers in Chemistry</i> , <b>2013</b> , 1, 27	5	16
34	Coffee consumption modulates inflammatory processes in an individual fashion. <i>Molecular Nutrition and Food Research</i> , <b>2016</b> , 60, 2529-2541	5.9	15
33	Low-Generation Polyamidoamine Dendrimers as Drug Carriers for Platinum(IV) Complexes. <i>European Journal of Inorganic Chemistry</i> , <b>2017</b> , 2017, 1713-1720	2.3	15
32	Capillary zone electrophoresis and capillary zone electrophoresis-electrospray ionization mass spectrometry studies on the behavior of anticancer cis- and trans-[dihalidobis(2-propanone oxime)platinum(II)] complexes in aqueous solutions. <i>Journal of Chromatography A</i> , <b>2012</b> , 1267, 156-61	4.5	15
31	Serum-binding properties of isosteric ruthenium and osmium anticancer agents elucidated by SEC-ICP-MS. <i>Monatshefte Für Chemie</i> , <b>2018</b> , 149, 1719-1726	1.4	15
30	Post-digestion stabilization of osmium enables quantification by ICP-MS in cell culture and tissue. <i>Analyst, The</i> , <b>2017</b> , 142, 2327-2332	5	13
29	Functionalization of Ruthenium(II)( $\eta^5$ -cymene)(3-hydroxy-2-pyridone) Complexes with (Thio)Morpholine: Synthesis and Bioanalytical Studies. <i>ChemPlusChem</i> , <b>2017</b> , 82, 841-847	2.8	12

28	Exploring the Chemoselectivity towards Cysteine Arylation by Cyclometallated Au Compounds: New Mechanistic Insights. <i>ChemBioChem</i> , <b>2020</b> , 21, 3071-3076	3.8	12
27	Heteropentanuclear Oxalato-Bridged nd-4f (n=4, 5) Metal Complexes with NO Ligand: Synthesis, Crystal Structures, Aqueous Stability and Antiproliferative Activity. <i>Chemistry - A European Journal</i> , <b>2015</b> , 21, 13703-13	4.8	12
26	Development and Validation of Liquid Chromatography-Based Methods to Assess the Lipophilicity of Cytotoxic Platinum(IV) Complexes. <i>Inorganics</i> , <b>2018</b> , 6, 130	2.9	12
25	Efficiently detecting metallodrug-protein adducts: ion trap versus time-of-flight mass analyzers. <i>ChemMedChem</i> , <b>2014</b> , 9, 1351-5	3.7	11
24	Ein Organoruthenium-Tumorthapeutikum mit unerwartet hoher Selektivität für Plectin. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 8379-8383	3.6	11
23	Interfering with Metabolic Profile of Triple-Negative Breast Cancers Using Rationally Designed Metformin Prodrugs. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 13405-13413	16.4	10
22	The antifibrotic potential of a sustained release formulation of a PDGF $\beta$ -receptor targeted rho kinase inhibitor. <i>Journal of Controlled Release</i> , <b>2019</b> , 296, 250-257	11.7	9
21	Plecstatin-1 induces an immunogenic cell death signature in colorectal tumour spheroids. <i>Metallomics</i> , <b>2020</b> , 12, 2121-2133	4.5	8
20	Daily Caffeine Intake Induces Concentration-Dependent Medial Temporal Plasticity in Humans: A Multimodal Double-Blind Randomized Controlled Trial. <i>Cerebral Cortex</i> , <b>2021</b> , 31, 3096-3106	5.1	8
19	Aqueous chemistry and antiproliferative activity of a pyrone-based phosphoramidate Ru(arene) anticancer agent. <i>Dalton Transactions</i> , <b>2014</b> , 43, 9851-5	4.3	7
18	Osmium-Nitrosyl Complexes with Glycine, Picolinic Acid, L-Proline and D-Proline: Synthesis, Structures and Antiproliferative Activity. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , <b>2013</b> , 639, 1590-1597	1.3	7
17	Ruthenium Carbonyl Complexes with Azole Heterocycles: Synthesis, X-ray Diffraction Structures, DFT Calculations, Solution Behavior, and Antiproliferative Activity. <i>European Journal of Inorganic Chemistry</i> , <b>2016</b> , 2016, 1566-1576	2.3	6
16	Metabo-tip: a metabolomics platform for lifestyle monitoring supporting the development of novel strategies in predictive, preventive and personalised medicine. <i>EPMA Journal</i> , <b>2021</b> , 12, 141-153	8.8	6
15	Lipid droplet-mediated scavenging as novel intrinsic and adaptive resistance factor against the multikinase inhibitor ponatinib. <i>International Journal of Cancer</i> , <b>2020</b> , 147, 1680-1693	7.5	5
14	Finger sweat analysis enables short interval metabolic biomonitoring in humans. <i>Nature Communications</i> , <b>2021</b> , 12, 5993	17.4	5
13	Proteomic and Metabolomic Analyses Reveal Contrasting Anti-Inflammatory Effects of an Extract of <i>Mucor Racemosus</i> Secondary Metabolites Compared to Dexamethasone. <i>PLoS ONE</i> , <b>2015</b> , 10, e0140367	3.7	4
12	Investigations on the Anticancer Potential of Benzothiazole-Based Metallacycles. <i>Frontiers in Chemistry</i> , <b>2020</b> , 8, 209	5	3
11	Evaluation of inflammation-related signaling events covering phosphorylation and nuclear translocation of proteins based on mass spectrometry data. <i>Journal of Proteomics</i> , <b>2017</b> , 152, 161-171	3.9	3

10	Finger Sweat Analysis Enables Short Interval Metabolic Biomonitoring in Humans		2
9	Sensing of Proteins by ICD Response of Iron(II) Clathrochelates Functionalized by Carboxyalkylsulfide Groups. <i>Biomolecules</i> , <b>2020</b> , 10,	5.9	2
8	Metabolic phenotyping of tear fluid as a prognostic tool for personalised medicine exemplified by T2DM patients.. <i>EPMA Journal</i> , <b>2022</b> , 13, 107-123	8.8	1
7	Plectin-mediated cytoskeletal crosstalk controls cell tension and cohesion in epithelial sheets.. <i>Journal of Cell Biology</i> , <b>2022</b> , 221,	7.3	1
6	Epithelial Cell Line Derived from Endometriotic Lesion Mimics Macrophage Nervous Mechanism of Pain Generation on Proteome and Metabolome Levels. <i>Biomolecules</i> , <b>2021</b> , 11,	5.9	1
5	A Proteomic Platform Enables to Test for AML Normalization .. <i>Frontiers in Chemistry</i> , <b>2022</b> , 10, 826346	5	0
4	Interfering with Metabolic Profile of Triple-Negative Breast Cancers Using Rationally Designed Metformin Prodrugs. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 13517-13525	3.6	0
3	Die Wechselwirkung mit ribosomalen Proteinen begleitet die Stressinduktion des Wirkstoffkandidaten BOLD-100/KP1339 im endoplasmatischen Retikulum. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 5121-5126	3.6	0
2	Innenrücktitelbild: Ein Organoruthenium-Tumorthapeutikum mit unerwartet hoher Selektivität für Plectin (Angew. Chem. 28/2017). <i>Angewandte Chemie</i> , <b>2017</b> , 129, 8415-8415	3.6	
1	Innentitelbild: Die Wechselwirkung mit ribosomalen Proteinen begleitet die Stressinduktion des Wirkstoffkandidaten BOLD-100/KP1339 im endoplasmatischen Retikulum (Angew. Chem. 10/2021). <i>Angewandte Chemie</i> , <b>2021</b> , 133, 5006-5006	3.6	