

# Samuel M Meier

## List of Publications by Year in descending order

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84  
papers

3,348  
citations

117571

34  
h-index

161767

54  
g-index

95  
all docs

95  
docs citations

95  
times ranked

4182  
citing authors

#	ARTICLE	IF	CITATIONS
1	Structure-activity relationships for ruthenium and osmium anticancer agents towards clinical development. <i>Chemical Society Reviews</i> , 2018, 47, 909-928.	18.7	330
2	Application of mass spectrometric techniques to delineate the modes-of-action of anticancer metallodrugs. <i>Chemical Society Reviews</i> , 2013, 42, 6186.	18.7	132
3	Organometallic anticancer complexes of lapachol: metal centre-dependent formation of reactive oxygen species and correlation with cytotoxicity. <i>Chemical Communications</i> , 2013, 49, 3348.	2.2	127
4	Target profiling of an antimetastatic RAPTA agent by chemical proteomics: relevance to the mode of action. <i>Chemical Science</i> , 2015, 6, 2449-2456.	3.7	127
5	Novel metal(ii) arene 2-pyridinecarbothioamides: a rationale to orally active organometallic anticancer agents. <i>Chemical Science</i> , 2013, 4, 1837.	3.7	111
6	Is the Reactivity of M(II)-Arene Complexes of 3-Hydroxy-2-pyridones to Biomolecules the Anticancer Activity Determining Parameter?. <i>Inorganic Chemistry</i> , 2010, 49, 7953-7963.	1.9	101
7	An Organoruthenium Anticancer Agent Shows Unexpected Target Selectivity For Plectin. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 8267-8271.	7.2	97
8	Dual Triggering of DNA Binding and Fluorescence via Photoactivation of a Dinuclear Ruthenium(II) Arene Complex. <i>Inorganic Chemistry</i> , 2007, 46, 5059-5068.	1.9	96
9	Pyrone derivatives and metals: From natural products to metal-based drugs. <i>Journal of Organometallic Chemistry</i> , 2011, 696, 999-1010.	0.8	86
10	Characterization of Hydrophilic Gold(I) N-Heterocyclic Carbene (NHC) Complexes as Potent TrxR Inhibitors Using Biochemical and Mass Spectrometric Approaches. <i>Inorganic Chemistry</i> , 2017, 56, 14237-14250.	1.9	76
11	Protein ruthenation and DNA alkylation: chlorambucil-functionalized RAPTA complexes and their anticancer activity. <i>Dalton Transactions</i> , 2015, 44, 3614-3623.	1.6	68
12	From hydrolytically labile to hydrolytically stable Ru(II)-arene anticancer complexes with carbohydrate-derived co-ligands. <i>Journal of Inorganic Biochemistry</i> , 2011, 105, 224-231.	1.5	65
13	On the binding modes of metal NHC complexes with DNA secondary structures: implications for therapy and imaging. <i>Chemical Communications</i> , 2017, 53, 8249-8260.	2.2	64
14	Proteomics and metabolomics identify molecular mechanisms of aging potentially predisposing for chronic lymphocytic leukemia. <i>Molecular and Cellular Proteomics</i> , 2018, 17, 290-303.	2.5	62
15	Aquaporins in cancer development: opportunities for bioinorganic chemistry to contribute novel chemical probes and therapeutic agents. <i>Metallomics</i> , 2018, 10, 696-712.	1.0	61
16	Half-Sandwich Ruthenium(II) Biotin Conjugates as Biological Vectors to Cancer Cells. <i>Chemistry - A European Journal</i> , 2015, 21, 5110-5117.	1.7	60
17	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> , 2017, 7, 42929.	1.6	59
18	Identification of the Structural Determinants for Anticancer Activity of a Ruthenium Arene Peptide Conjugate. <i>Chemistry - A European Journal</i> , 2013, 19, 9297-9307.	1.7	58

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19	Integrative Systemic and Local Metabolomics with Impact on Survival in High-Grade Serous Ovarian Cancer. <i>Clinical Cancer Research</i> , 2017, 23, 2081-2092.	3.2	55
20	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> , 2012, 108, 91-95.	1.5	53
21	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> , 2016, 55, 4248-4259.	1.9	53
22	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> , 2017, 16, 86-99.	2.5	50
23	Selective targeting of PARP-1 zinc finger recognition domains with Au( $\text{NHC}$ ) organometallics. <i>Chemical Communications</i> , 2018, 54, 611-614.	2.2	47
24	Rollover Cyclometalated Bipyridine Platinum Complexes as Potent Anticancer Agents: Impact of the Ancillary Ligands on the Mode of Action. <i>Inorganic Chemistry</i> , 2018, 57, 2851-2864.	1.9	45
25	Rhodium(I) N-Heterocyclic Carbene Bioorganometallics as In Vitro Antiproliferative Agents with Distinct Effects on Cellular Signaling. <i>Journal of Medicinal Chemistry</i> , 2015, 58, 9591-9600.	2.9	44
26	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> , 2020, 202, 110844.	1.5	42
27	An Organometallic Gold(I) Bis( $\text{NHC}$ ) Complex with Multimodal Activity in Ovarian Cancer Cells. <i>Chemistry - A European Journal</i> , 2020, 26, 15528-15537.	1.7	42
28	Design Strategies and Medicinal Applications of Metal-Peptidic Bioconjugates. <i>Bioconjugate Chemistry</i> , 2020, 31, 1279-1288.	1.8	41
29	Fragmentation methods on the balance: unambiguous top-down mass spectrometric characterization of oxaliplatin-ubiquitin binding sites. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 402, 2655-2662.	1.9	39
30	Striking Difference in Antiproliferative Activity of Ruthenium- and Osmium-Nitrosyl Complexes with Azole Heterocycles. <i>Inorganic Chemistry</i> , 2013, 52, 6273-6285.	1.9	39
31	Role of the immune system in the peritoneal tumor spread of high grade serous ovarian cancer. <i>Oncotarget</i> , 2016, 7, 61336-61354.	0.8	39
32	Interaction with Ribosomal Proteins Accompanies Stress Induction of the Anticancer Metallodrug BOLD-100/KP1339 in the Endoplasmic Reticulum. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 5063-5068.	7.2	39
33	Interfering with Metabolic Profile of Triple-Negative Breast Cancers Using Rationally Designed Metformin Prodrugs. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 13405-13413.	7.2	38
34	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> , 2014, 53, 2718-2729.	1.9	35
35	Poly(lactic acid) nanoparticles of the lead anticancer ruthenium compound KP1019 and its surfactant-mediated activation. <i>Dalton Transactions</i> , 2014, 43, 1096-1104.	1.6	35
36	Characterizing activation mechanisms and binding preferences of ruthenium metallo-prodrugs by a competitive binding assay. <i>Journal of Inorganic Biochemistry</i> , 2017, 177, 322-327.	1.5	35

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37	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> , 2017, 53, 4246-4249.	2.2	34
38	Combined Proteome and Eicosanoid Profiling Approach for Revealing Implications of Human Fibroblasts in Chronic Inflammation. <i>Analytical Chemistry</i> , 2017, 89, 1945-1954.	3.2	33
39	Bulky <i>N,N'</i> -(Di)alkylethane-1,2-diamineplatinum(II) Compounds as Precursors for Generating Unsymmetrically Substituted Platinum(IV) Complexes. <i>Inorganic Chemistry</i> , 2013, 52, 8151-8162.	1.9	32
40	Am(m)ines Make the Difference: Organoruthenium Am(m)ine Complexes and Their Chemistry in Anticancer Drug Development. <i>Chemistry - A European Journal</i> , 2013, 19, 4308-4318.	1.7	31
41	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> , 2017, 61, 1600731.	1.5	31
42	Response Profiling Using Shotgun Proteomics Enables Global Metallodrug Mechanisms of Action To Be Established. <i>Chemistry - A European Journal</i> , 2017, 23, 1881-1890.	1.7	30
43	Development and Validation of Liquid Chromatography-Based Methods to Assess the Lipophilicity of Cytotoxic Platinum(IV) Complexes. <i>Inorganics</i> , 2018, 6, 130.	1.2	30
44	Bioimaging of isosteric osmium and ruthenium anticancer agents by LA-ICP-MS. <i>Metallomics</i> , 2018, 10, 388-396.	1.0	29
45	New Variations on the Theme of Gold(III) C <sup>N</sup> Cyclometalated Complexes as Anticancer Agents: Synthesis and Biological Characterization. <i>Inorganic Chemistry</i> , 2018, 57, 14852-14865.	1.9	28
46	Finger sweat analysis enables short interval metabolic biomonitoring in humans. <i>Nature Communications</i> , 2021, 12, 5993.	5.8	28
47	Plecstatin-1 induces an immunogenic cell death signature in colorectal tumour spheroids. <i>Metallomics</i> , 2020, 12, 2121-2133.	1.0	27
48	DNA or protein? Capillary zone electrophoresis-mass spectrometry rapidly elucidates metallodrug binding selectivity. <i>Chemical Communications</i> , 2017, 53, 8002-8005.	2.2	26
49	Time-dependent shotgun proteomics revealed distinct effects of an organoruthenium prodrug and its activation product on colon carcinoma cells. <i>Metallomics</i> , 2019, 11, 118-127.	1.0	26
50	Plectin-mediated cytoskeletal crosstalk controls cell tension and cohesion in epithelial sheets. <i>Journal of Cell Biology</i> , 2022, 221, .	2.3	26
51	Exploring the Chemoselectivity towards Cysteine Arylation by Cyclometallated Au <sup>III</sup> Compounds: New Mechanistic Insights. <i>ChemBioChem</i> , 2020, 21, 3071-3076.	1.3	25
52	Influence of the $\pi$ -coordinated arene on the anticancer activity of ruthenium(II) carbohydrate organometallic complexes. <i>Frontiers in Chemistry</i> , 2013, 1, 27.	1.8	23
53	Coffee consumption modulates inflammatory processes in an individual fashion. <i>Molecular Nutrition and Food Research</i> , 2016, 60, 2529-2541.	1.5	23
54	Dicopper(II) and Dizinc(II) Complexes with Nonsymmetric Dinucleating Ligands Based on Indolo[3,2- <i>c</i> ]quinolines: Synthesis, Structure, Cytotoxicity, and Intracellular Distribution. <i>Inorganic Chemistry</i> , 2013, 52, 10137-10146.	1.9	22

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55	Serum-binding properties of isosteric ruthenium and osmium anticancer agents elucidated by SEC-ICP-MS. <i>Monatshefte für Chemie</i> , 2018, 149, 1719-1726.	0.9	22
56	Low-Generation Polyamidoamine Dendrimers as Drug Carriers for Platinum(IV) Complexes. <i>European Journal of Inorganic Chemistry</i> , 2017, 2017, 1713-1720.	1.0	20
57	Post-digestion stabilization of osmium enables quantification by ICP-MS in cell culture and tissue. <i>Analyst</i> , 2017, 142, 2327-2332.	1.7	17
58	Capillary zone electrophoresis and capillary zone electrophoresis-electrospray ionization mass spectrometry studies on the behavior of anticancer cis- and trans-[dihalidobis(2-propanone)] Tj ETQq0 0 0 rgBT /Overbeck 10.1002/1522-2675(201706)119:06:1-11	1.6	16
59	The antifibrotic potential of a sustained release formulation of a PDGF $\beta$ -receptor targeted rho kinase inhibitor. <i>Journal of Controlled Release</i> , 2019, 296, 250-257.	4.8	16
60	Lipid droplet-mediated scavenging as novel intrinsic and adaptive resistance factor against the multikinase inhibitor ponatinib. <i>International Journal of Cancer</i> , 2020, 147, 1680-1693.	2.3	16
61	Daily Caffeine Intake Induces Concentration-Dependent Medial Temporal Plasticity in Humans: A Multimodal Double-Blind Randomized Controlled Trial. <i>Cerebral Cortex</i> , 2021, 31, 3096-3106.	1.6	16
62	Ein Organoruthenium-Tumorthapeutikum mit unerwartet hoher Selektivität für Plectin. <i>Angewandte Chemie</i> , 2017, 129, 8379-8383.	1.6	14
63	The Anticancer Ruthenium Compound BOLD-100 Targets Glycolysis and Generates a Metabolic Vulnerability towards Glucose Deprivation. <i>Pharmaceutics</i> , 2022, 14, 238.	2.0	14
64	Heteropentanuclear Oxalato-Bridged $\text{Ln}_4(\text{Ln} = \text{La, Ce, Pr, Nd})$ Metal Complexes with NO Ligand: Synthesis, Crystal Structures, Aqueous Stability and Antiproliferative Activity. <i>Chemistry - A European Journal</i> , 2015, 21, 13703-13713.	1.7	13
65	Functionalization of Ruthenium(II)( $\eta^6$ -p-cymene)(3-hydroxy-2-pyridone) Complexes with (Thio)Morpholine: Synthesis and Bioanalytical Studies. <i>ChemPlusChem</i> , 2017, 82, 841-847.	1.3	13
66	Efficiently Detecting Metallo-drug-Protein Adducts: Ion Trap versus Time-of-Flight Mass Analyzers. <i>ChemMedChem</i> , 2014, 9, 1351-1355.	1.6	11
67	Sensing of Proteins by ICD Response of Iron(II) Clathrochelates Functionalized by Carboxyalkylsulfide Groups. <i>Biomolecules</i> , 2020, 10, 1602.	1.8	11
68	Metabo-tip: a metabolomics platform for lifestyle monitoring supporting the development of novel strategies in predictive, preventive and personalised medicine. <i>EPMA Journal</i> , 2021, 12, 141-153.	3.3	11
69	Investigations on the Anticancer Potential of Benzothiazole-Based Metallacycles. <i>Frontiers in Chemistry</i> , 2020, 8, 209.	1.8	10
70	Metabolic phenotyping of tear fluid as a prognostic tool for personalised medicine exemplified by T2DM patients. <i>EPMA Journal</i> , 2022, 13, 107-123.	3.3	10
71	Evaluation of inflammation-related signaling events covering phosphorylation and nuclear translocation of proteins based on mass spectrometry data. <i>Journal of Proteomics</i> , 2017, 152, 161-171.	1.2	9
72	Osmium-Nitrosyl Complexes with Glycine, Picolinic Acid, L-Proline and D-Proline: Synthesis, Structures and Antiproliferative Activity. <i>Zeitschrift für Anorganische und Allgemeine Chemie</i> , 2013, 639, 1590-1597.	0.6	8

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73	Aqueous chemistry and antiproliferative activity of a pyrone-based phosphoramidate Ru(arene) anticancer agent. Dalton Transactions, 2014, 43, 9851.	1.6	7
74	Ruthenium Carbonyl Complexes with Azole Heterocycles – Synthesis, X-ray Diffraction Structures, DFT Calculations, Solution Behavior, and Antiproliferative Activity. European Journal of Inorganic Chemistry, 2016, 2016, 1566-1576.	1.0	7
75	Epithelial Cell Line Derived from Endometriotic Lesion Mimics Macrophage Nervous Mechanism of Pain Generation on Proteome and Metabolome Levels. Biomolecules, 2021, 11, 1230.	1.8	6
76	Spectroelectrochemical Properties and Catalytic Activity in Cyclohexane Oxidation of the Hybrid Zr/Hf-Phthalocyaninate-Capped Nickel(II) and Iron(II) tris-Pyridineoximates and Their Precursors. Molecules, 2021, 26, 336.	1.7	5
77	Proteomic and Metabolomic Analyses Reveal Contrasting Anti-Inflammatory Effects of an Extract of Mucor Racemosus Secondary Metabolites Compared to Dexamethasone. PLoS ONE, 2015, 10, e0140367.	1.1	4
78	Interfering with Metabolic Profile of Triple-Negative Breast Cancers Using Rationally Designed Metformin Prodrugs. Angewandte Chemie, 2021, 133, 13517-13525.	1.6	3
79	A Proteomic Platform Enables to Test for AML Normalization In Vitro. Frontiers in Chemistry, 2022, 10, 826346.	1.8	3
80	Die Wechselwirkung mit ribosomalen Proteinen begleitet die Stressinduktion des Wirkstoffkandidaten BOLD-100/KP1339 im endoplasmatischen Retikulum. Angewandte Chemie, 2021, 133, 5121-5126.	1.6	2
81	Innentitelbild: Ein Organoruthenium-Tumorthapeutikum mit unerwartet hoher Selektivität für Plectin (Angew. Chem. 28/2017). Angewandte Chemie, 2017, 129, 8415-8415.	1.6	0
82	Innentitelbild: Die Wechselwirkung mit ribosomalen Proteinen begleitet die Stressinduktion des Wirkstoffkandidaten BOLD-100/KP1339 im endoplasmatischen Retikulum (Angew. Chem. 10/2021). Angewandte Chemie, 2021, 133, 5006-5006.	1.6	0
83	Organometallic Receptors and Conjugates With Biomolecules in Bioorganometallic Chemistry. , 2021, , .		0
84	Abstract A78: Serum metabolomics, cytokine measurements, and tumor RNA-seq identified phospholipids correlated with a molecular subclass as strong predictor for outcome in high-grade serous ovarian cancer.. , 2016, , .		0