

Justin J Wilson

List of Publications by Year in descending order

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87
papers

4,506
citations

117571

34
h-index

106281

65
g-index

99
all docs

99
docs citations

99
times ranked

5339
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthetic Methods for the Preparation of Platinum Anticancer Complexes. <i>Chemical Reviews</i> , 2014, 114, 4470-4495.	23.0	531
2	Metal complexes as a promising source for new antibiotics. <i>Chemical Science</i> , 2020, 11, 2627-2639.	3.7	290
3	Phenanthriplatin, a monofunctional DNA-binding platinum anticancer drug candidate with unusual potency and cellular activity profile. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 11987-11992.	3.3	280
4	Anticancer activity of complexes of the third row transition metals, rhenium, osmium, and iridium. <i>Dalton Transactions</i> , 2018, 47, 9934-9974.	1.6	207
5	Monofunctional and Higher-Valent Platinum Anticancer Agents. <i>Inorganic Chemistry</i> , 2013, 52, 12234-12249.	1.9	199
6	An Eighteen-Membered Macrocyclic Ligand for Actinium-225 Targeted Alpha Therapy. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 14712-14717.	7.2	163
7	Targeting Mitochondrial DNA with a Platinum-Based Anticancer Agent. <i>Chemistry and Biology</i> , 2013, 20, 1323-1328.	6.2	159
8	In Vitro Anticancer Activity and in Vivo Biodistribution of Rhenium(I) Tricarbonyl Aqua Complexes. <i>Journal of the American Chemical Society</i> , 2017, 139, 14302-14314.	6.6	147
9	Photoactivated in Vitro Anticancer Activity of Rhenium(I) Tricarbonyl Complexes Bearing Water-Soluble Phosphines. <i>Inorganic Chemistry</i> , 2018, 57, 1311-1331.	1.9	121
10	A Selective and Cell-Permeable Mitochondrial Calcium Uniporter (MCU) Inhibitor Preserves Mitochondrial Bioenergetics after Hypoxia/Reoxygenation Injury. <i>ACS Central Science</i> , 2019, 5, 153-166.	5.3	112
11	In Vitro Anticancer Activity of <i>cis</i> -Diammineplatinum(II) Complexes with β^2 -Diketonate Leaving Group Ligands. <i>Journal of Medicinal Chemistry</i> , 2012, 55, 5326-5336.	2.9	110
12	Endoplasmic reticulum stress: an arising target for metal-based anticancer agents. <i>Chemical Society Reviews</i> , 2020, 49, 8113-8136.	18.7	110
13	Synthesis, Characterization, and Cytotoxicity of Platinum(IV) Carbamate Complexes. <i>Inorganic Chemistry</i> , 2011, 50, 3103-3115.	1.9	102
14	Actinium-225 for Targeted α Therapy: Coordination Chemistry and Current Chelation Approaches. <i>Cancer Biotherapy and Radiopharmaceuticals</i> , 2018, 33, 336-348.	0.7	89
15	Bis(thiosemicarbazone) Complexes of Cobalt(III). Synthesis, Characterization, and Anticancer Potential. <i>Inorganic Chemistry</i> , 2017, 56, 6609-6623.	1.9	82
16	Detection of Nitric Oxide and Nitroxyl with Benzoesorufin-Based Fluorescent Sensors. <i>Inorganic Chemistry</i> , 2013, 52, 3285-3294.	1.9	79
17	Spectroscopic and computational investigation of actinium coordination chemistry. <i>Nature Communications</i> , 2016, 7, 12312.	5.8	73
18	In Vivo Anticancer Activity of a Rhenium(I) Tricarbonyl Complex. <i>ACS Medicinal Chemistry Letters</i> , 2019, 10, 822-827.	1.3	64

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19	Implementing f-Block Metal Ions in Medicine: Tuning the Size Selectivity of Expanded Macrocycles. <i>Inorganic Chemistry</i> , 2019, 58, 10483-10500.	1.9	55
20	A Single Dose of ^{225}Ac -RPS-074 Induces a Complete Tumor Response in an LNCaP Xenograft Model. <i>Journal of Nuclear Medicine</i> , 2019, 60, 649-655.	2.8	55
21	Characterization and Biological Activity of a Hydrogen Sulfide-Releasing Red Light-Activated Ruthenium(II) Complex. <i>Journal of the American Chemical Society</i> , 2018, 140, 12383-12387.	6.6	53
22	A Rhenium Isonitrile Complex Induces Unfolded Protein Response-Mediated Apoptosis in Cancer Cells. <i>Chemistry - A European Journal</i> , 2019, 25, 9206-9210.	1.7	50
23	Inhibitors of the mitochondrial calcium uniporter for the treatment of disease. <i>Current Opinion in Chemical Biology</i> , 2020, 55, 9-18.	2.8	50
24	Oxidative halogenation of cisplatin and carboplatin: synthesis, spectroscopy, and crystal and molecular structures of Pt(IV) prodrugs. <i>Dalton Transactions</i> , 2015, 44, 119-129.	1.6	49
25	Towards the stable chelation of radium for biomedical applications with an 18-membered macrocyclic ligand. <i>Chemical Science</i> , 2021, 12, 3733-3742.	3.7	46
26	Physical and structural properties of [Cu(BOT1)Cl]Cl, a fluorescent imaging probe for HNO. <i>Journal of Inorganic Biochemistry</i> , 2013, 118, 162-170.	1.5	45
27	Rapid Dissolution of BaSO_4 by Macropa, an 18-Membered Macrocyclic Ligand with High Affinity for Ba^{2+} . <i>Journal of the American Chemical Society</i> , 2018, 140, 17071-17078.	6.6	45
28	Combinatorial Synthesis to Identify a Potent, Necrosis-Inducing Rhenium Anticancer Agent. <i>Inorganic Chemistry</i> , 2019, 58, 3895-3909.	1.9	43
29	Establishing Radiolanthanum Chemistry for Targeted Nuclear Medicine Applications. <i>Chemistry - A European Journal</i> , 2020, 26, 1238-1242.	1.7	42
30	Evaluation of nitrogen-rich macrocyclic ligands for the chelation of therapeutic bismuth radioisotopes. <i>Nuclear Medicine and Biology</i> , 2015, 42, 428-438.	0.3	41
31	Multifunctional Desferrichrome Analogues as Versatile $^{89}\text{Zr(IV)}$ Chelators for ImmunoPET Probe Development. <i>Molecular Pharmaceutics</i> , 2017, 14, 2831-2842.	2.3	41
32	The cell-permeable mitochondrial calcium uniporter inhibitor Ru265 preserves cortical neuron respiration after lethal oxygen glucose deprivation and reduces hypoxic/ischemic brain injury. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2020, 40, 1172-1181.	2.4	41
33	Exploring Ovarian Cancer Cell Resistance to Rhenium Anticancer Complexes. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 13391-13400.	7.2	39
34	Acetate-Bridged Platinum(III) Complexes Derived from Cisplatin. <i>Inorganic Chemistry</i> , 2012, 51, 9852-9864.	1.9	37
35	Macrocyclic Ligands with an Unprecedented Size-Selectivity Pattern for the Lanthanide Ions. <i>Journal of the American Chemical Society</i> , 2020, 142, 13500-13506.	6.6	37
36	A dual-targeting, p53-independent, apoptosis-inducing platinum(II) anticancer complex, [Pt(BDI ^{QQ})]Cl. <i>Metallomics</i> , 2014, 6, 437-443.	1.0	36

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37	Harnessing β -Emitting Radionuclides for Therapy: Radiolabeling Method Review. <i>Journal of Nuclear Medicine</i> , 2022, 63, 5-13.	2.8	32
38	Modulation of ligand fluorescence by the Pt(II)/Pt(IV) redox couple. <i>Inorganica Chimica Acta</i> , 2012, 389, 77-84.	1.2	31
39	Exploring the In Vivo and In Vitro Anticancer Activity of Rhenium Isonitrile Complexes. <i>Inorganic Chemistry</i> , 2020, 59, 10285-10303.	1.9	31
40	Py-Macrodipa: A Janus Chelator Capable of Binding Medicinally Relevant Rare-Earth Radiometals of Disparate Sizes. <i>Journal of the American Chemical Society</i> , 2021, 143, 10429-10440.	6.6	30
41	Therapeutic and Diagnostic Applications of Multimetallic Rhenium(I) Tricarbonyl Complexes. <i>European Journal of Inorganic Chemistry</i> , 2021, 2021, 1312-1324.	1.0	29
42	Nontoxic Cobalt(III) Schiff Base Complexes with Broad Spectrum Antifungal Activity. <i>Chemistry - A European Journal</i> , 2021, 27, 2021-2029.	1.7	28
43	Synthetic Methods for the Preparation of a Functional Analogue of Ru360, a Potent Inhibitor of Mitochondrial Calcium Uptake. <i>Inorganic Chemistry</i> , 2017, 56, 3123-3126.	1.9	26
44	Anticancer activity of hydroxy- and sulfonamide-azobenzene platinum(II) complexes in cisplatin-resistant ovarian cancer cells. <i>Journal of Inorganic Biochemistry</i> , 2017, 174, 102-110.	1.5	26
45	Formation cross-sections and chromatographic separation of protactinium isotopes formed in proton-irradiated thorium metal. <i>Radiochimica Acta</i> , 2016, 104, 291-304.	0.5	25
46	Synthesis, Characterization, and Photophysical Properties of Three Platinum(II) Complexes Bearing Fluorescent Analogues of the Di-2-pyridylmethane Ligand. <i>Inorganic Chemistry</i> , 2010, 49, 5303-5315.	1.9	24
47	Photoluminescent DNA binding and cytotoxic activity of a platinum(II) complex bearing a tetradentate β -diketiminato ligand. <i>Dalton Transactions</i> , 2013, 42, 3176-3180.	1.6	24
48	Radiometric evaluation of diglycolamide resins for the chromatographic separation of actinium from fission product lanthanides. <i>Talanta</i> , 2017, 175, 318-324.	2.9	24
49	X-Ray fluorescence microscopy reveals that rhenium(I) tricarbonyl isonitrile complexes remain intact <i>in vitro</i> . <i>Chemical Communications</i> , 2020, 56, 6515-6518.	2.2	24
50	Redox Stability Controls the Cellular Uptake and Activity of Ruthenium-Based Inhibitors of the Mitochondrial Calcium Uniporter (MCU). <i>Angewandte Chemie - International Edition</i> , 2020, 59, 6482-6491.	7.2	24
51	Systematically altering the lipophilicity of rhenium(I) tricarbonyl anticancer agents to tune the rate at which they induce cell death. <i>Dalton Transactions</i> , 2020, 49, 16062-16066.	1.6	24
52	Advancing Chelation Strategies for Large Metal Ions for Nuclear Medicine Applications. <i>Accounts of Chemical Research</i> , 2022, 55, 904-915.	7.6	23
53	Tuning the Separation of Light Lanthanides Using a Reverse-Size Selective Aqueous Complexant. <i>Inorganic Chemistry</i> , 2020, 59, 16522-16530.	1.9	22
54	Tuning the Kinetic Inertness of Bi ³⁺ Complexes: The Impact of Donor Atoms on Diaza-18-Crown-6 Ligands as Chelators for ²¹³ Bi Targeted Alpha Therapy. <i>Inorganic Chemistry</i> , 2021, 60, 9199-9211.	1.9	22

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55	Physical properties, ligand substitution reactions, and biological activity of Co(ⁱⁱⁱ)-Schiff base complexes. Dalton Transactions, 2019, 48, 5987-6002.	1.6	21
56	Biocompatible metal-organic frameworks for the storage and therapeutic delivery of hydrogen sulfide. Chemical Science, 2021, 12, 7848-7857.	3.7	21
57	Synthesis, characterization, and biological properties of rhenium(I) tricarbonyl complexes bearing nitrogen-donor ligands. Journal of Organometallic Chemistry, 2020, 907, 121064.	0.8	20
58	Accessing lanthanide-based, <i>in situ</i> illuminated optical turn-on probes by modulation of the antenna triplet state energy. Chemical Science, 2021, 12, 9442-9451.	3.7	18
59	H ₂ BZmacropa-NCS: A Bifunctional Chelator for Actinium-225 Targeted Alpha Therapy. Bioconjugate Chemistry, 2022, 33, 1222-1231.	1.8	16
60	A Dinuclear Persulfide-Bridged Ruthenium Compound is a Hypoxia-Selective Hydrogen Sulfide (H ₂ S) Donor. Angewandte Chemie - International Edition, 2021, 60, 1588-1592.	7.2	15
61	Chelating the Alpha Therapy Radionuclides ²²⁵ Ac ³⁺ and ²¹³ Bi ³⁺ with 18-Membered Macrocyclic Ligands Macrodipa and Py-Macrodipa. Inorganic Chemistry, 2022, 61, 801-806.	1.9	15
62	A suitable time point for quantifying the radiochemical purity of ²²⁵ Ac-labeled radiopharmaceuticals. EJNMMI Radiopharmacy and Chemistry, 2021, 6, 38.	1.8	15
63	Synthesis and Characterization of Nitrogen-Rich Macrocyclic Ligands and an Investigation of Their Coordination Chemistry with Lanthanum(III). Inorganic Chemistry, 2015, 54, 97-109.	1.9	14
64	Oxyaapa: A Picolinate-Based Ligand with Five Oxygen Donors that Strongly Chelates Lanthanides. Inorganic Chemistry, 2020, 59, 5116-5132.	1.9	14
65	Cobalt amine complexes and Ru ²⁶⁵ interact with the DIME region of the mitochondrial calcium uniporter. Chemical Communications, 2021, 57, 6161-6164.	2.2	14
66	Aquation and Anation Kinetics of Rhenium(I) Dicarboxylate Complexes: Relation to Cell Toxicity and Bioavailability. Inorganic Chemistry, 2020, 59, 15888-15897.	1.9	12
67	Photochemistry and <i>in vitro</i> anticancer activity of Pt(^{iv})Re(ⁱ) conjugates. Chemical Communications, 2021, 57, 11189-11192.	2.2	10
68	An Eighteen-Membered Macrocyclic Ligand for Actinium- ²²⁵ Targeted Alpha Therapy. Angewandte Chemie, 2017, 129, 14904-14909.	1.6	9
69	Enhanced Oxygen Solubility in Metastable Water under Tension. Langmuir, 2018, 34, 12017-12024.	1.6	9
70	Dinuclear nitrido-bridged ruthenium complexes bearing diimine ligands. Dalton Transactions, 2017, 46, 14256-14263.	1.6	8
71	Redox Stability Controls the Cellular Uptake and Activity of Ruthenium-Based Inhibitors of the Mitochondrial Calcium Uniporter (MCU). Angewandte Chemie, 2020, 132, 6544-6553.	1.6	8
72	A C ₂ -symmetric, basic Fe(ⁱⁱⁱ) carboxylate complex derived from a novel triptycene-based chelating carboxylate ligand. Dalton Transactions, 2012, 41, 9272.	1.6	7

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73	Reprint of "Anticancer activity of hydroxy- and sulfonamide-azobenzene platinum(II) complexes in cisplatin-resistant ovarian cancer cells". <i>Journal of Inorganic Biochemistry</i> , 2017, 177, 335-343.	1.5	7
74	A [¹ H, ¹⁵ N] Heteronuclear Single Quantum Coherence NMR Study of the Solution Reactivity of the Ruthenium-Based Mitochondrial Calcium Uniporter Inhibitor Ru265. <i>European Journal of Inorganic Chemistry</i> , 2022, 2022, .	1.0	7
75	Stable Chelation of the Uranyl Ion by Acyclic Hexadentate Ligands: Potential Applications for ²³⁰ U Targeted ±-Therapy. <i>Inorganic Chemistry</i> , 2022, , .	1.9	7
76	Evaluation of the Effect of Macrocyclic Ring Size on [²⁰³ Pb]Pb(II) Complex Stability in Pyridyl-Containing Chelators. <i>Inorganic Chemistry</i> , 2022, 61, 9638-9649.	1.9	7
77	Radioactive World: An Outreach Activity for Nuclear Chemistry. <i>Journal of Chemical Education</i> , 2019, 96, 2238-2246.	1.1	6
78	Rapid insertion of bismuth radioactive isotopes into texaphyrin in aqueous media. <i>Journal of Porphyrins and Phthalocyanines</i> , 2017, 21, 882-886.	0.4	5
79	Oxidative reactivity and cytotoxic properties of a platinum(II) complex prepared by outer-sphere amide bond coupling. <i>Polyhedron</i> , 2013, 58, 71-78.	1.0	4
80	Triptycene-Based, Carboxylate-Bridged Biomimetic Diiron(II) Complexes. <i>European Journal of Inorganic Chemistry</i> , 2013, 2013, 2011-2019.	1.0	4
81	Exploring Ovarian Cancer Cell Resistance to Rhenium Anticancer Complexes. <i>Angewandte Chemie</i> , 2020, 132, 13493-13502.	1.6	4
82	Probing the Drug Dynamics of Chemotherapeutics Using Metasurface-Enhanced Infrared Reflection Spectroscopy of Live Cells. <i>Cells</i> , 2022, 11, 1600.	1.8	4
83	Synthesis and Evaluation of a Ruthenium-based Mitochondrial Calcium Uptake Inhibitor. <i>Journal of Visualized Experiments</i> , 2017, , .	0.2	3
84	Emergence of repurposed drugs as modulators of MCU channel for clinical therapeutics. <i>Cell Calcium</i> , 2021, 99, 102456.	1.1	1
85	Development and Implementation of Nuclear Chemistry Experiments at the Undergraduate Level. <i>Journal of Chemical Education</i> , 0, , .	1.1	1
86	Frontispiece: Establishing Radiolanthanum Chemistry for Targeted Nuclear Medicine Applications. <i>Chemistry - A European Journal</i> , 2020, 26, .	1.7	0
87	A Dinuclear Persulfide-Bridged Ruthenium Compound is a Hypoxia-Selective Hydrogen Sulfide (H ₂ S) Donor. <i>Angewandte Chemie</i> , 2021, 133, 1612-1616.	1.6	0