

# Transition Metal Complexes and Photodynamic Therapy Challenges, Opportunities, and Highlights from the Dev

Chemical Reviews

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Mechanisms of action of Ru(II) polypyridyl complexes in living cells upon light irradiation. <i>Chemical Communications</i> , 2018, 54, 13040-13059.	2.2	80
2	Cationic Chalcogenoviologen Derivatives for Photodynamic Antimicrobial Therapy and Skin Regeneration. <i>Chemistry - A European Journal</i> , 2019, 25, 13472-13478.	1.7	24
3	Photothermal Therapy Nanomaterials Boosting Transformation of Fe(III) into Fe(II) in Tumor Cells for Highly Improving Chemodynamic Therapy. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 31735-31742.	4.0	109
4	Oxygen self-sufficient NIR-activatable liposomes for tumor hypoxia regulation and photodynamic therapy. <i>Chemical Science</i> , 2019, 10, 9091-9098.	3.7	81
5	Neutral iridium(III) complexes bearing BODIPY-substituted N-heterocyclic carbene (NHC) ligands: synthesis, photophysics, in vitro theranostic photodynamic therapy, and antimicrobial activity. <i>Photochemical and Photobiological Sciences</i> , 2019, 18, 2381-2396.	1.6	23
6	Perspectives of molecular and nanostructured systems with d- and f-block metals in photogeneration of reactive oxygen species for medical strategies. <i>Coordination Chemistry Reviews</i> , 2019, 398, 113012.	9.5	23
7	A biotinylated ruthenium(II) photosensitizer for tumor-targeted two-photon photodynamic therapy. <i>Chemical Communications</i> , 2019, 55, 10972-10975.	2.2	42
8	Iron oxides with a reverse spinel structure: impact of active sites on molecule adsorption. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 2810-2816.	3.0	12
9	Thermally activated delayed fluorescence molecules and their new applications aside from OLEDs. <i>Chinese Chemical Letters</i> , 2019, 30, 1717-1730.	4.8	57
10	Towards Long Wavelength Absorbing Photodynamic Therapy Photosensitizers via the Extension of a [Ru(bipy) <sub>3</sub> ] <sup>2+</sup> Core. <i>European Journal of Inorganic Chemistry</i> , 2019, 2019, 3704-3712.	1.0	31
11	Molecular superoxide radical photogeneration in cancer cells by dipyrrophenazine iridium(III) complexes. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 2500-2513.	3.0	36
12	Polymeric Encapsulation of Novel Homoleptic Bis(dipyrinato) Zinc(II) Complexes with Long Lifetimes for Applications as Photodynamic Therapy Photosensitisers. <i>Angewandte Chemie</i> , 2019, 131, 14472-14478.	1.6	23
13	Polymeric Encapsulation of Novel Homoleptic Bis(dipyrinato) Zinc(II) Complexes with Long Lifetimes for Applications as Photodynamic Therapy Photosensitisers. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 14334-14340.	7.2	100
14	Binding mechanisms of half-sandwich Rh(III) and Ru(II) arene complexes on human serum albumin: a comparative study. <i>Journal of Biological Inorganic Chemistry</i> , 2019, 24, 703-719.	1.1	43
15	Photophysical Properties and Photobiological Activities of Ruthenium(II) Complexes Bearing $\pi$ -Expansive Cyclometalating Ligands with Thienyl Groups. <i>Inorganic Chemistry</i> , 2019, 58, 10778-10790.	1.9	34
16	Unconventional Anticancer Metallodrugs and Strategies to Improve Their Pharmacological Profile. <i>Inorganics</i> , 2019, 7, 88.	1.2	7
17	Functionalization and cancer-targeting design of ruthenium complexes for precise cancer therapy. <i>Chemical Communications</i> , 2019, 55, 9904-9914.	2.2	100
18	Synthesis and biological evaluation of an epidermal growth factor receptor-targeted peptide-conjugated phthalocyanine-based photosensitizer. <i>RSC Advances</i> , 2019, 9, 20652-20662.	1.7	20

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19	Visible light-induced cytotoxicity studies on Co( $\text{II}$ ) complexes having an anthracene-based curcuminoid ligand. <i>Dalton Transactions</i> , 2019, 48, 12933-12942.	1.6	18
20	Metal-based antibody drug conjugates. Potential and challenges in their application as targeted therapies in cancer. <i>Journal of Inorganic Biochemistry</i> , 2019, 199, 110780.	1.5	33
21	Ruthenium(II) Complexes as Potential Apoptosis Inducers in Cancer Therapy. <i>Serbian Journal of Experimental and Clinical Research</i> , 2019, .	0.2	0
22	Anticancer platinum agents and light. <i>Inorganica Chimica Acta</i> , 2019, 495, 118981.	1.2	25
23	Partially Solvated Dinuclear Ruthenium Compounds Bridged by Quinoxaline-Functionalized Ligands as Ru(II) Photocage Architectures for Low-Energy Light Absorption. <i>Inorganic Chemistry</i> , 2019, 58, 14568-14576.	1.9	8
24	Tuning Polyamidoamine Design To Increase Uptake and Efficacy of Ruthenium Complexes for Photodynamic Therapy. <i>Inorganic Chemistry</i> , 2019, 58, 14586-14599.	1.9	15
25	Selective Photoinactivation of Methicillin-Resistant <i>Staphylococcus aureus</i> by Highly Positively Charged Ru( $\text{II}$ ) Complexes. <i>Chemistry - A European Journal</i> , 2019, 25, 13879-13884.	1.7	30
26	Near-IR/Visible-Emitting Thiophenyl-Based Ru(II) Complexes: Efficient Photodynamic Therapy, Cellular Uptake, and DNA Binding. <i>Inorganic Chemistry</i> , 2019, 58, 14244-14259.	1.9	26
27	Elucidation of the photoaquation reaction mechanism in ferrous hexacyanide using synchrotron x-rays with sub-pulse-duration sensitivity. <i>Journal of Chemical Physics</i> , 2019, 151, 144306.	1.2	24
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30	Quinoline-Conjugated Ruthenacarboranes: Toward Hybrid Drugs with a Dual Mode of Action. <i>ChemMedChem</i> , 2019, 14, 2061-2074.	1.6	9
31	Towards Identification of Essential Structural Elements of Organoruthenium(II)-Pyridithionato Complexes for Anticancer Activity. <i>Chemistry - A European Journal</i> , 2019, 25, 14169-14182.	1.7	22
32	Fast repetition rate fs pulsed lasers for advanced PLIM microscopy. <i>Journal of Innovative Optical Health Sciences</i> , 2019, 12, 1940004.	0.5	1
33	The stepwise photodamage of organelles by two-photon luminescent ruthenium( $\text{II}$ ) photosensitizers. <i>Chemical Communications</i> , 2019, 55, 11235-11238.	2.2	24
34	Chemistry and reactivity of ruthenium(II) complexes: DNA/protein binding mode and anticancer activity are related to the complex structure. <i>Coordination Chemistry Reviews</i> , 2019, 398, 113011.	9.5	116
35	Photofunctions of iridium(III) complexes in vesicles: long-lived excited states and visible-light sensitization for hydrogen evolution in aqueous solution. <i>Dalton Transactions</i> , 2019, 48, 14914-14925.	1.6	18
36	A self-assembled Ru-Pt metallacage as a lysosome-targeting photosensitizer for 2-photon photodynamic therapy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 20296-20302.	3.3	113

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37	Luminescent Ruthenium(II) Polypyridine Complexes for a Wide Variety of Biomolecular and Cellular Applications. <i>Inorganic Chemistry</i> , 2019, 58, 2231-2247.	1.9	119
38	Catalysis Concepts in Medicinal Inorganic Chemistry. <i>Chemistry - A European Journal</i> , 2019, 25, 6651-6660.	1.7	35
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40	New Class of Homoleptic and Heteroleptic Bis(terpyridine) Iridium(III) Complexes with Strong Photodynamic Therapy Effects. <i>ACS Applied Bio Materials</i> , 2019, 2, 2964-2977.	2.3	45
41	Systematic investigation of the antiproliferative activity of a series of ruthenium terpyridine complexes. <i>Journal of Inorganic Biochemistry</i> , 2019, 198, 110752.	1.5	47
42	Epidermal Growth Factor Receptor-Targeted Delivery of a Singlet-Oxygen Sensitizer with Thermal Controlled Release for Efficient Anticancer Therapy. <i>Molecular Pharmaceutics</i> , 2019, 16, 3703-3710.	2.3	14
43	Diazido platinum(IV) complexes for photoactivated anticancer chemotherapy. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 1623-1638.	3.0	84
44	Evaluation of the Potential of Cobalamin Derivatives Bearing Ru(II) Polypyridyl Complexes as Photosensitizers for Photodynamic Therapy. <i>Helvetica Chimica Acta</i> , 2019, 102, e1900104.	1.0	21
45	Preclinical evaluation of an unconventional ruthenium-gold-based chemotherapeutic: RANCEA-1, in clear cell renal cell carcinoma. <i>Cancer Medicine</i> , 2019, 8, 4304-4314.	1.3	8
46	A Ru(II) polypyridyl complex bearing aldehyde functions as a versatile synthetic precursor for long-wavelength absorbing photodynamic therapy photosensitizers. <i>Bioorganic and Medicinal Chemistry</i> , 2019, 27, 2666-2675.	1.4	38
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48	In Vivo Anticancer Activity of a Rhenium(I) Tricarbonyl Complex. <i>ACS Medicinal Chemistry Letters</i> , 2019, 10, 822-827.	1.3	64
49	Pyridone-containing phenalenone-based photosensitizer working both under light and in the dark for photodynamic therapy. <i>Bioorganic and Medicinal Chemistry</i> , 2019, 27, 2201-2208.	1.4	12
50	Overview of Recent Strategic Advances in Medicinal Chemistry. <i>Journal of Medicinal Chemistry</i> , 2019, 62, 9375-9414.	2.9	108
51	Dual-action platinum(II) Schiff base complexes: Photocytotoxicity and cellular imaging. <i>Polyhedron</i> , 2019, 172, 157-166.	1.0	13
52	G-Quadruplex/Porphyrim Composite Photosensitizer: A Facile Way to Promote Absorption Redshift and Photodynamic Therapy Efficacy. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 13158-13167.	4.0	44
53	Towards Novel Photodynamic Anticancer Agents Generating Superoxide Anion Radicals: A Cyclometalated Ir <sup>III</sup> Complex Conjugated to a Far-Red Emitting Coumarin. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 6311-6315.	7.2	142
54	Investigation of photo-activation on ruthenium(II)-arene complexes for the discovery of potential selective cytotoxic agents. <i>Polyhedron</i> , 2019, 172, 22-27.	1.0	16

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55	Towards Novel Photodynamic Anticancer Agents Generating Superoxide Anion Radicals: A Cyclometalated Ir <sup>III</sup> Complex Conjugated to a Far-Red Emitting Coumarin. <i>Angewandte Chemie</i> , 2019, 131, 6377-6381.	1.6	28
56	Polymer encapsulation of ruthenium complexes for biological and medicinal applications. <i>Nature Reviews Chemistry</i> , 2019, 3, 261-282.	13.8	119
57	Preparation of Titanocene-Gold Compounds Based on Highly Active Gold(I)-Heterocyclic Carbene Anticancer Agents: Preliminary in-vitro Studies in Renal and Prostate Cancer Cell Lines. <i>ChemMedChem</i> , 2019, 14, 1086-1095.	1.6	26
58	Endoplasmic reticulum targeted cyclometalated iridium(III) complexes as efficient photodynamic therapy photosensitizers. <i>Dalton Transactions</i> , 2019, 48, 6408-6415.	1.6	64
59	A nuclear permeable Ru(II)-based photoactivated chemotherapeutic agent towards a series of cancer cells: in vitro and in vivo studies. <i>Dalton Transactions</i> , 2019, 48, 6492-6500.	1.6	26
60	Luminescent Platinum(IV) Complexes Bearing Cyclometalated 1,2,3-Triazolylidene and Bidentate 2,6-Diarylpyridine Ligands. <i>Chemistry - A European Journal</i> , 2019, 25, 6014-6025.	1.7	24
61	New organoruthenium compounds with pyrido[2,3- <i>b</i> ]pyrazino[2,3- <i>f</i> ][1, 10]phenanthroline: synthesis, characterization, cytotoxicity, and investigation of mechanism of action. <i>Journal of Biological Inorganic Chemistry</i> , 2019, 24, 297-310.	1.1	11
62	Biocompatible ruthenium polypyridyl complexes as efficient radiosensitizers. <i>Dalton Transactions</i> , 2019, 48, 4114-4118.	1.6	10
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66	Photoswitchable phthalocyanine-assembled nanoparticles for controlled double-lock photodynamic therapy. <i>Chemical Communications</i> , 2019, 55, 12316-12319.	2.2	18
67	The Influence of Light on Reactive Oxygen Species and NF- $\kappa$ B in Disease Progression. <i>Antioxidants</i> , 2019, 8, 640.	2.2	47
68	Unveiling coupled electronic and vibrational motions of chromophores in condensed phases. <i>Journal of Chemical Physics</i> , 2019, 151, 200901.	1.2	40
69	Selective synthesis, reactivity and luminescence of unsymmetrical bis-cyclometalated Pt(IV) complexes. <i>Dalton Transactions</i> , 2019, 48, 14367-14382.	1.6	16
70	Synthesis, Characterization, and Biological Evaluation of Red-Absorbing Fe(II) Polypyridine Complexes. <i>Inorganics</i> , 2019, 7, 4.	1.2	29
71	Nucleus-Targeted Organoiridium-Albumin Conjugate for Photodynamic Cancer Therapy. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 2350-2354.	7.2	134
72	Z-scheme Heterojunction Functionalized Pyrite Nanosheets for Modulating Tumor Microenvironment and Strengthening Photo/Chemodynamic Therapeutic Effects. <i>Advanced Functional Materials</i> , 2020, 30, 1906466.	7.8	89

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73	Synthesis, Characterisation and Biological Evaluation of $\pi$ -Extended Fe(II) Bipyridine Complexes as Potential Photosensitizers for Photodynamic Therapy. <i>Inorganica Chimica Acta</i> , 2020, 499, 119196.	1.2	10
74	Oxidovanadium(V) complexes as promising anticancer photosensitizers. <i>Journal of Inorganic Biochemistry</i> , 2020, 203, 110862.	1.5	10
75	New Designs for Phototherapeutic Transition Metal Complexes. <i>Angewandte Chemie</i> , 2020, 132, 61-73.	1.6	53
76	New Designs for Phototherapeutic Transition Metal Complexes. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 61-73.	7.2	257
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79	Classification of Metal-Based Drugs according to Their Mechanisms of Action. <i>CheM</i> , 2020, 6, 41-60.	5.8	231
80	Highly Efficient Singlet Oxygen Generators Based on Ruthenium Phthalocyanines: Synthesis, Characterization and in vitro Evaluation for Photodynamic Therapy. <i>Chemistry - A European Journal</i> , 2020, 26, 1789-1799.	1.7	27
81	A near infrared dye-coated silver nanoparticle/carbon dot nanocomposite for targeted tumor imaging and enhanced photodynamic therapy. <i>Nanoscale Advances</i> , 2020, 2, 489-494.	2.2	10
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84	Polyphotosensitizer nanogels for GSH-responsive histone deacetylase inhibitors delivery and enhanced cancer photodynamic therapy. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 188, 110753.	2.5	19
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92	Polymetallic Complexes for Applications as Photosensitisers in Anticancer Photodynamic Therapy. <i>Advanced Therapeutics</i> , 2020, 3, 1900139.	1.6	24
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94	Toward Optimal Ru(II) Photocages: Balancing Photochemistry, Stability, and Biocompatibility Through Fine Tuning of Steric, Electronic, and Physicochemical Features. <i>Inorganic Chemistry</i> , 2020, 59, 1006-1013.	1.9	55
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97	Cyclometalated Iridium(III) Complexes as High-Sensitivity Two-Photon Excited Mitochondria Dyes and Near-Infrared Photodynamic Therapy Agents. <i>Inorganic Chemistry</i> , 2020, 59, 14920-14931.	1.9	32
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100	Bis[pyrrolyl Ru(II)] triads: a new class of photosensitizers for metal-organic photodynamic therapy. <i>Chemical Science</i> , 2020, 11, 12047-12069.	3.7	23
101	Combining Inorganic Chemistry and Biology: The Underestimated Potential of Metal Complexes in Medicine. <i>ChemBioChem</i> , 2020, 21, 3044-3046.	1.3	29
102	Thionated organic compounds as emerging heavy-atom-free photodynamic therapy agents. <i>Chemical Science</i> , 2020, 11, 11113-11123.	3.7	49
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104	Enhancing the ROS generation ability of a rhodamine-decorated iridium(III) complex by ligand regulation for endoplasmic reticulum-targeted photodynamic therapy. <i>Chemical Science</i> , 2020, 11, 12212-12220.	3.7	46
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130	Design of a Tris-Heteroleptic Ru(II) Complex with Red-Light Excitation and Remarkably Improved Photobiological Activity. <i>Inorganic Chemistry</i> , 2020, 59, 11193-11204.	1.9	26
131	Enhancing Singlet Oxygen Generation in Conjugates of Silicon Nanocrystals and Organic Photosensitizers. <i>Frontiers in Chemistry</i> , 2020, 8, 567.	1.8	7
132	TLD1433-Mediated Photodynamic Therapy with an Optical Surface Applicator in the Treatment of Lung Cancer Cells In Vitro. <i>Pharmaceuticals</i> , 2020, 13, 137.	1.7	23
133	A Mitochondrion-Localized Two-Photon Photosensitizer Generating Carbon Radicals Against Hypoxic Tumors. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 20697-20703.	7.2	99
134	A Mitochondrion-Localized Two-Photon Photosensitizer Generating Carbon Radicals Against Hypoxic Tumors. <i>Angewandte Chemie</i> , 2020, 132, 20878-20884.	1.6	16
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