

# RafaÅ, Czerwieciec

## List of Publications by Year in descending order

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70  
papers

4,237  
citations

236925

25  
h-index

110387

64  
g-index

74  
all docs

74  
docs citations

74  
times ranked

3789  
citing authors

#	ARTICLE	IF	CITATIONS
1	The triplet state of organo-transition metal compounds. Triplet harvesting and singlet harvesting for efficient OLEDs. <i>Coordination Chemistry Reviews</i> , 2011, 255, 2622-2652.	18.8	1,114
2	Cu(I) complexes – Thermally activated delayed fluorescence. Photophysical approach and material design. <i>Coordination Chemistry Reviews</i> , 2016, 325, 2-28.	18.8	416
3	Blue-Light Emission of Cu(I) Complexes and Singlet Harvesting. <i>Inorganic Chemistry</i> , 2011, 50, 8293-8301.	4.0	410
4	TADF Material Design: Photophysical Background and Case Studies Focusing on Cu <sup>I</sup> and Ag <sup>I</sup> Complexes. <i>ChemPhysChem</i> , 2017, 18, 3508-3535.	2.1	190
5	[Copper(phenanthroline)(bisonitrile)] <sup>+</sup> -Complexes for the Visible-Light-Mediated Atom Transfer Radical Addition and Allylation Reactions. <i>ACS Catalysis</i> , 2015, 5, 5186-5193.	11.2	168
6	Diversity of Copper(I) Complexes Showing Thermally Activated Delayed Fluorescence: Basic Photophysical Analysis. <i>Inorganic Chemistry</i> , 2015, 54, 4322-4327.	4.0	168
7	Brightly Luminescent Pt(II) Pincer Complexes with a Sterically Demanding Carboranyl-Phenylpyridine Ligand: A New Material Class for Diverse Optoelectronic Applications. <i>Journal of the American Chemical Society</i> , 2014, 136, 9637-9642.	13.7	165
8	Highly efficient thermally activated fluorescence of a new rigid Cu(I) complex [Cu(dmp)(phanephos)] <sup>+</sup> . <i>Dalton Transactions</i> , 2013, 42, 9826.	3.3	153
9	Photophysical Properties of Cyclometalated Pt(II) Complexes: Counterintuitive Blue Shift in Emission with an Expanded Ligand Ć System. <i>Inorganic Chemistry</i> , 2013, 52, 12403-12415.	4.0	143
10	Design Strategy for Ag(I)-Based Thermally Activated Delayed Fluorescence Reaching an Efficiency Breakthrough. <i>Chemistry of Materials</i> , 2017, 29, 1708-1715.	6.7	93
11	Thermally Activated Delayed Fluorescence from Ag(I) Complexes: A Route to 100% Quantum Yield at Unprecedentedly Short Decay Time. <i>Inorganic Chemistry</i> , 2017, 56, 13274-13285.	4.0	85
12	Synthesis of Cyclometalated Platinum Complexes with Substituted Thienylpyridines and Detailed Characterization of Their Luminescence Properties. <i>Inorganic Chemistry</i> , 2009, 48, 4179-4189.	4.0	74
13	Re(I)(tricarbonyl) <sup>+</sup> complexes with the 2-(2-pyridyl)-N-methyl-benzimidazole, 2-(2-pyridyl)benzoxazole and 2-(2-pyridyl)benzothiazole ligands – syntheses, structures, electrochemical and spectroscopic studies. <i>Inorganica Chimica Acta</i> , 2005, 358, 2701-2710.	2.4	54
14	The Lowest Excited State of Brightly Emitting Gold(I) Triphosphine Complexes. <i>Inorganic Chemistry</i> , 2010, 49, 3764-3767.	4.0	52
15	Modulation of Intersystem Crossing Rate by Minor Ligand Modifications in Cyclometalated Platinum(II) Complexes. <i>Inorganic Chemistry</i> , 2016, 55, 7457-7466.	4.0	44
16	Design of a New Mechanism beyond Thermally Activated Delayed Fluorescence toward Fourth Generation Organic Light Emitting Diodes. <i>Chemistry of Materials</i> , 2019, 31, 6110-6116.	6.7	44
17	Monomeric and dimeric Re(I)(tricarbonyl)(8-quinolinato) complexes. <i>Dalton Transactions RSC</i> , 2001, , 2756-2761.	2.3	43
18	Re(CO) <sub>3</sub> <sup>+</sup> complexes with N <sup>+</sup> bidentate ligands. <i>Dalton Transactions RSC</i> , 2002, , 3434-3441.	2.3	39

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19	Design of Conformationally Distorted Donor–Acceptor Dyads Showing Efficient Thermally Activated Delayed Fluorescence. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 3692-3697.	4.6	36
20	Synthesis, structure and photophysical properties of binuclear methylplatinum complexes containing cyclometalating 2-phenylpyridine or benzo[h]quinoline ligands: a comparison of intramolecular Pt–Pt and Pt–Ir interactions. <i>Dalton Transactions</i> , 2011, 40, 9123.	3.3	33
21	Luminescent $[\text{Re}(\text{CO})_3(\text{phen})]$ carboxylato complexes with non-steroidal anti-inflammatory drugs: synthesis and mechanistic insights into the <i>in vitro</i> anticancer activity of $[\text{Re}(\text{CO})_3(\text{phen})(\text{aspirin})]$ . <i>New Journal of Chemistry</i> , 2019, 43, 573-583.	2.8	32
22	Singlet harvesting with brightly emitting Cu(I) and metal-free organic compounds. , 2012, , .		31
23	Ag( $\text{scp}$ ) complex design affording intense phosphorescence with a landmark lifetime of over 100 milliseconds. <i>Dalton Transactions</i> , 2019, 48, 2802-2806.	3.3	30
24	Near Infrared Phosphorescent Dinuclear Ir(III) Complex Exhibiting Unusually Slow Intersystem Crossing and Dual Emissive Behavior. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 5849-5855.	4.6	27
25	Design strategies for materials showing thermally activated delayed fluorescence and beyond: Towards the fourth-generation OLED mechanism. <i>Journal of the Society for Information Display</i> , 2018, 26, 194-199.	2.1	26
26	Radiative electron transfer in planar donor–acceptor quinoxaline derivatives. <i>Chemical Physics Letters</i> , 2000, 325, 589-598.	2.6	25
27	Triplet state properties of a red light emitting $[\text{Pt}(\text{s-thpy})(\text{acac})]$ compound. <i>Chemical Physics Letters</i> , 2010, 486, 53-59.	2.6	24
28	Mitochondria Targeting with Luminescent Rhenium(I) Complexes. <i>Molecules</i> , 2017, 22, 809.	3.8	23
29	TADF for singlet harvesting: next generation OLED materials based on brightly green and blue emitting Cu(I) and Ag(I) compounds. <i>Proceedings of SPIE</i> , 2014, , .	0.8	22
30	Luminescent rhenium(I)–chromone bioconjugate: Synthesis, photophysical properties, and confocal luminescence microscopy investigation. <i>Journal of Organometallic Chemistry</i> , 2015, 782, 124-130.	1.8	22
31	Photophysical properties of $\text{Re}(\text{pbt})(\text{CO})_4$ studied by high resolution spectroscopy. <i>Chemical Physics Letters</i> , 2009, 468, 205-210.	2.6	20
32	Synthesis and Molecular Structure of the New Green Emitting Complex $[\text{Ir}(\text{I})_2(\text{oxamidato})\text{N}(\text{O})\text{O}(\text{Etolylpyridinato})_2]$ . <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2013, 639, 1090-1094.		20
33	Photophysical and biological characterization of new cationic cyclometalated M(III) complexes of rhodium and iridium. <i>Journal of Organometallic Chemistry</i> , 2014, 765, 46-52.	1.8	19
34	Synthesis and (spectro)electrochemistry of mixed-valent diferrocenyl–dihydrothiopyran derivatives. <i>Dalton Transactions</i> , 2015, 44, 6268-6276.	3.3	19
35	Eliminating the Reverse ISC Bottleneck of TADF Through Excited State Engineering and Environment-Tuning Toward State Resonance Leading to Mono-Exponential Sub- $\mu\text{s}$ Decay. High OLED External Quantum Efficiency Confirms Efficient Exciton Harvesting. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	19
36	Synthesis, Structure, and Spectroelectrochemistry of Ferrocenyl–Meldrum–Acid Donor–Acceptor Systems. <i>Organometallics</i> , 2014, 33, 4697-4705.	2.3	18

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37	Luminescent gold-silver complexes derived from neutral bis(perfluoroaryl)diphosphine gold(i) precursors. <i>Dalton Transactions</i> , 2013, 42, 4267.	3.3	17
38	Can Coumarins Break Kasha's Rule?. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 6468-6471.	4.6	17
39	Bis-cyclometalated rhodium- and iridium-complexes with the 4,4-dichloro-2,2'-bipyridine ligand. Evaluation of their photophysical properties and biological activity. <i>Inorganica Chimica Acta</i> , 2017, 463, 36-43.	2.4	15
40	Design of functionalized $\beta^2$ -ketoenole derivatives as efficient fluorescent dyes for detection of amyloid fibrils. <i>New Journal of Chemistry</i> , 2018, 42, 13308-13318.	2.8	15
41	A new cyclometalated rhenium(I) complex. <i>Inorganic Chemistry Communication</i> , 2005, 8, 1101-1104.	3.9	14
42	Substitution of Metallocenes with [2.2]Paracyclophane to Enable Confocal Microscopy Imaging in Living Cells. <i>European Journal of Inorganic Chemistry</i> , 2017, 2017, 297-305.	2.0	13
43	Temperature dependence of photophysical properties of a dinuclear C <sup>N</sup> -cyclometalated Pt( <i>ii</i> ) complex with an intimate Pt-Pt contact. Zero-field splitting and sub-state decay rates of the lowest triplet. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 25096-25104.	2.8	13
44	Fluorescent $\beta^2$ -ketoenole AmyGreen dye for visualization of amyloid components of bacterial biofilms. <i>Methods and Applications in Fluorescence</i> , 2020, 8, 035006.	2.3	13
45	Excited-State Switching between Ligand-Centered and Charge Transfer Modulated by Metal-Carbon Bonds in Cyclopentadienyl Iridium Complexes. <i>Inorganic Chemistry</i> , 2018, 57, 15445-15461.	4.0	12
46	Sandwich-Like Encapsulation of a Highly Luminescent Copper(I) Complex. <i>Advanced Optical Materials</i> , 2021, 9, 2100516.	7.3	12
47	Observation of the distorted form of Pd-porphin in single site spectra at low temperatures. <i>Journal of Luminescence</i> , 2008, 128, 531-536.	3.1	10
48	$\beta^2$ -ketoenole dyes: Synthesis and study as fluorescent sensors for protein amyloid aggregates. <i>Dyes and Pigments</i> , 2016, 132, 274-281.	3.7	10
49	Dual emissive dinuclear Pt( <i>ii</i> ) complexes and application to singlet oxygen generation. <i>Journal of Materials Chemistry C</i> , 2021, 9, 5808-5818.	5.5	10
50	Liquid-crystalline TADF materials based on substituted carbazoles and terephthalonitrile. <i>Journal of Materials Chemistry C</i> , 2021, 9, 6528-6535.	5.5	9
51	Re(I)(tricarbonyl) <sup>+</sup> complexes with anionic N <sup>3</sup> -thioxalato ligand. <i>Inorganic Chemistry Communication</i> , 2005, 8, 34-37.	3.9	8
52	Temperature-dependent phosphorescence spectra of Pd- and Pt-porphins and their applications. <i>Journal of Porphyrins and Phthalocyanines</i> , 2008, 12, 1201-1210.	0.8	8
53	Electric-field induced nonlinear optical materials based on a bipolar copper (I) complex embedded in polymer matrices. <i>Journal of Materials Science: Materials in Electronics</i> , 2015, 26, 8394-8397.	2.2	8
54	Luminescent pyrenyl-GNA nucleosides: synthesis, photophysics and confocal microscopy studies in cancer HeLa cells. <i>Photochemical and Photobiological Sciences</i> , 2019, 18, 2449-2460.	2.9	8

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55	Anthracene-thymine luminophores: Synthesis, photophysical properties, and imaging in living HeLa cells. <i>Dyes and Pigments</i> , 2019, 170, 107554.	3.7	8
56	Bis-cyclometalated Iridium Complexes Containing Modified Phenanthroline Ligands and Evaluation of their Cytotoxic Activities. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2021, 647, 306-311.	1.2	8
57	Near-infrared emitting copper( <sup>i</sup> ) complexes with a pyrazolylpyrimidine ligand: exploring relaxation pathways. <i>Dalton Transactions</i> , 2022, 51, 2898-2911.	3.3	7
58	Luminescent diiridium(III) complex with a bridging biuretato ligand in unprecedented N,N=O,O=O coordination. <i>Journal of Organometallic Chemistry</i> , 2013, 745-746, 341-346.	1.8	6
59	Cyclometalated Iridium(III) Complexes Containing Semicarbazone Ligands: Synthesis, Characterization, Photophysical and Biological Studies. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2015, 641, 1798-1802.	1.2	6
60	Pyrene nucleobase conjugates: synthesis, oligonucleotide binding and confocal bioimaging studies. <i>Beilstein Journal of Organic Chemistry</i> , 2017, 13, 2521-2534.	2.2	6
61	Benzannulation of a ditopic ligand to afford mononuclear and dinuclear Ir( <sup>iii</sup> ) complexes with intense phosphorescence: applications in singlet oxygen generation and bioimaging. <i>Journal of Materials Chemistry C</i> , 2022, 10, 1870-1877.	5.5	6
62	Ligand design and nuclearity variation towards dual emissive Pt( <sup>ii</sup> ) complexes for singlet oxygen generation, dual channel bioimaging, and theranostics. <i>Journal of Materials Chemistry C</i> , 2022, 10, 5636-5647.	5.5	4
63	Chemistry of glycol nucleic acid (GNA): Synthesis, photophysical characterization and insight into the biological activity of phenanthrenyl GNA constituents. <i>Bioorganic Chemistry</i> , 2022, 125, 105847.	4.1	3
64	Cytotoxic Activities of Bis-cyclometalated Rhodium(III) and Iridium(III) Complexes Containing 2,2'-Biphenyldiamine. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2021, 647, 519-524.	1.2	2
65	Photophysical and structural characterization of the bis-cyclometalated compound [Ir(ppy) <sub>2</sub> ( <sup>ip</sup> 2N-tpz)]PF <sub>6</sub> and evaluation of its cytotoxic activity. <i>Inorganica Chimica Acta</i> , 2022, 534, 120806.	2.4	2
66	<i>6</i> Distinguished Paper and Invited Paper: Design Strategies for Materials Showing Thermally Activated Delayed Fluorescence and Beyond: Towards the Fourth-generation OLED Mechanism. <i>Digest of Technical Papers SID International Symposium</i> , 2018, 49, 48-51.	0.3	1
67	Cytotoxic Activities of Bis-cyclometalated Iridium(III) Complexes Containing Chloro-substituted <sup>ip</sup> 2-terpyridines. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 0, , .	1.2	1
68	Phosphorescence study of matrix effect on Pd-porphin macrocycle conformation. <i>Proceedings of SPIE</i> , 2007, , .	0.8	0
69	Substitution of Metallocenes with [2.2]Paracyclophane to Enable Confocal Microscopy Imaging in Living Cells. <i>European Journal of Inorganic Chemistry</i> , 2019, 2019, 2565-2565.	2.0	0
70	Synthesis and structural characterization of bis-cyclometalated compounds [Ir(dFppy) <sub>2</sub> (Me <sub>4</sub> phen)]PF <sub>6</sub> and [Ir(dF(CF <sub>3</sub> )ppy) <sub>2</sub> (Me <sub>4</sub> phen)]PF <sub>6</sub> . <i>Inorganica Chimica Acta</i> , 2021, 527, 120554.	2.4	0