

Frantisek Hartl

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Biomimics of [FeFe]-hydrogenases incorporating redox-active ligands: synthesis, redox properties and spectroelectrochemistry of diiron-dithiolate complexes with ferrocenyl-diphosphines as Fe ₄ S ₄ surrogates. Dalton Transactions, 2022, 51, 9748-9769.	3.3	11
2	Dynamic Covalent Properties of a Novel Indolo[3,2-a]carbazole Diradical. Chemistry - A European Journal, 2021, 27, 5509-5520.	3.3	11
3	Optical and Infrared Spectroelectrochemical Studies of CN-Substituted Bipyridyl Complexes of Ruthenium(II). Inorganic Chemistry, 2021, 60, 3514-3523.	4.0	4
4	Effect of the 2-R-Allyl and Chloride Ligands on the Cathodic Paths of [Mo(1-3-2-R-allyl)(1±-diimine)(CO) ₂ Cl] (R = H, CH ₃ ; 1±-diimine = 6,6'-Dimethyl-2,2'-bipyridine, Bis(p-tolylimino)acenaphthene). Organometallics, 2021, 40, 1598-1613.	2.3	2
5	Electronic Properties of Oxidized Cyclometalated Iridium Complexes: Spin Delocalization Controlled by the Mutual Position of the Iridium Centers. Chemistry - A European Journal, 2020, 26, 4567-4575.	3.3	6
6	Photo-Assisted Electrocatalytic Reduction of CO ₂ : A New Strategy for Reducing Catalytic Overpotentials. ChemCatChem, 2020, 12, 386-393.	3.7	14
7	Strong Impact of Intramolecular Hydrogen Bonding on the Cathodic Path of [Re(3,3'-dihydroxy-2,2'-bipyridine)(CO) ₃ Cl] and Catalytic Reduction of Carbon Dioxide. Inorganic Chemistry, 2020, 59, 5564-5578.	4.0	22
8	Group 6 Metal Complexes as Electrocatalysts of CO ₂ Reduction: Strong Substituent Control of the Reduction Path of [Mo(1 ^{sup} -3 ^{sup} -allyl)(CO) ₂ (1±-dimethyl-2,2'-bipyridine)(NCS)] (1± = 2,3,4,5-tetrahydro-1H-benzotriazin-2(1H)-one)	2.3	14
9	Spectro-electrochemical Studies on [Ru(TAP) ₂ (dppz)] ²⁺ Insights into the Mechanism of its Photosensitized Oxidation of Oligonucleotides. Inorganic Chemistry, 2019, 58, 663-671.	4.0	9
10	Anodic electrochemistry of mono- and dinuclear aminophenylferrocene and diphenylaminoferrocene complexes. Dalton Transactions, 2018, 47, 6112-6123.	3.3	10
11	Conjugated, rod-like viologen oligomers: Correlation of oligomer length with conductivity and photoconductivity. Synthetic Metals, 2018, 241, 31-38.	3.9	9
12	Diphenylamine-Substituted Osmanaphthalene Complexes: Structural, Bonding, and Redox Properties of Unusual Donor-Bridge-Acceptor Systems. Chemistry - A European Journal, 2018, 24, 18998-19009.	3.3	19
13	Accurate Description of Low-Lying Excited States in a Series of Photoreactive Clusters [Os ₃ (CO) ₁₀ (1±-diimine)] by DFT Calculations. Inorganic Chemistry, 2018, 57, 11704-11716.	4.0	3
14	A macrocyclic receptor containing two viologen species connected by conjugated terphenyl groups. Organic and Biomolecular Chemistry, 2018, 16, 5006-5015.	2.8	6
15	Solvent and Ligand Substitution Effects on the Electrocatalytic Reduction of CO ₂ with [Mo(CO) ₄ (1±-dimethyl-2,2'-bipyridine)] ⁺ Enhanced at a Gold Cathodic Surface. ChemElectroChem, 2018, 5, 3155-3161.	3.3	17
16	Synthesis, electronic structure and redox properties of the diruthenium sandwich complexes [Cp* ₂ Ru(1/4-C ₁₀ H ₈)RuCp*] ^x (x = 0, 1+; Cp* = 1,5-cyclooctadiene) J. Electroanal. Chem., 2018, 47, 11058-11069.	3.3	5
17	Excited-State Electronic Asymmetry Prevents Photoswitching in Terthiophene Compounds. Inorganic Chemistry, 2018, 57, 9039-9047.	4.0	1
18	Mononuclear piano-stool iron 2-ethynylbenzo[b]thiophene complex: crystal structure and reversible oxidation studied by spectro-electrochemical and DFT methods. Journal of Coordination Chemistry, 2017, 70, 722-733.	2.2	0

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19	Prediction of cathodic E 1/2 1 and E 1/2 2 values for viologen-containing conjugated unimers and dimers from calculated p K b values of the aromatic substituents. <i>Tetrahedron Letters</i> , 2017, 58, 1859-1862.	1.4	8
20	Sandwich and half-sandwich metal complexes derived from cross-conjugated 3-methylene-penta-1,4-diyne. <i>Dalton Transactions</i> , 2017, 46, 5522-5531.	3.3	13
21	Î-3-Allyl carbonyl complexes of group 6 metals: Structural aspects, isomerism, dynamic behaviour and reactivity. <i>Coordination Chemistry Reviews</i> , 2017, 335, 103-149.	18.8	23
22	Diacenaphthylene-fused benzo[1,2-b:4,5-bâ€²]dithiophenes: polycyclic heteroacenes containing full-carbon five-membered aromatic rings. <i>Chemical Communications</i> , 2017, 53, 751-754.	4.1	12
23	Multistep Oxidation of Diethynyl Oligophenylamine-Bridged Diruthenium and Diiron Complexes. <i>Inorganic Chemistry</i> , 2017, 56, 1001-1015.	4.0	25
24	Bonding and Electronic Properties of Linear Diethynyl Oligothienoacene-Bridged Diruthenium Complexes and Their Oxidized Forms. <i>Inorganic Chemistry</i> , 2017, 56, 11074-11086.	4.0	30
25	New Multiresponsive Chromic Soft Materials: Dynamic Interconversion of Short 2,7â€²-Dicyanomethylenecarbazoleâ€²-Based Biradicaloid and the Corresponding Cyclophane Tetramer. <i>Chemistry - A European Journal</i> , 2017, 23, 13776-13783.	3.3	33
26	Structural Variability of 4f and 5f Thiocyanate Complexes and Dissociation of Uranium(III)â€²-Thiocyanate Bonds with Increased Ionicity. <i>Inorganic Chemistry</i> , 2017, 56, 14426-14437.	4.0	16
27	Localized Mixedâ€²Valence and Redox Activity within a Triazoleâ€²Bridged Dinucleating Ligand upon Coordination to Palladium. <i>Chemistry - A European Journal</i> , 2016, 22, 13965-13975.	3.3	26
28	Manganese Tricarbonyl Complexes with Asymmetric 2-Iminopyridine Ligands: Toward Decoupling Steric and Electronic Factors in Electrocatalytic CO₂ Reduction. <i>Inorganic Chemistry</i> , 2016, 55, 12568-12582.	4.0	46
29	Tetrakis(ferrocenylethynyl)ethene: Synthesis, (Spectro)electrochemical and quantum chemical characterisation. <i>Journal of Organometallic Chemistry</i> , 2016, 821, 40-47.	1.8	11
30	Efficient access to conjugated 4,4â€²-bipyridinium oligomers using the Zincke reaction: synthesis, spectroscopic and electrochemical properties. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 980-988.	2.8	19
31	Asymmetric oxidation of vinyl- and ethynyl terthiophene ligands in triruthenium complexes. <i>Dalton Transactions</i> , 2016, 45, 768-782.	3.3	19
32	Effects of Electrodeâ€²Molecule Binding and Junction Geometry on the Single-Molecule Conductance of bis-2,2â€²:6â€²,2â€²-Terpyridine-based Complexes. <i>Inorganic Chemistry</i> , 2016, 55, 2691-2700.	4.0	22
33	Notable differences between oxidized diruthenium complexes bridged by four isomeric diethynyl benzodithiophene ligands. <i>Dalton Transactions</i> , 2016, 45, 6503-6516.	3.3	25
34	Elucidating the Structure of Chiral Molecules by using Amplified Vibrational Circular Dichroism: From Theory to Experimental Realization. <i>ChemPhysChem</i> , 2015, 16, 3347-3347.	2.1	1
35	Electrochemical Single-Molecule Transistors with Optimized Gate Coupling. <i>Journal of the American Chemical Society</i> , 2015, 137, 14319-14328.	13.7	94
36	Diruthenium Complexes with Bridging Diethynyl Polyaromatic Ligands: Synthesis, Spectroelectrochemistry, and Theoretical Calculations. <i>Organometallics</i> , 2015, 34, 3967-3978.	2.3	49

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37	Elucidating the Structure of Chiral Molecules by using Amplified Vibrational Circular Dichroism: From Theory to Experimental Realization. <i>ChemPhysChem</i> , 2015, 16, 3363-3373.	2.1	17
38	[M(CO) ₄ (2,2'-bipyridine)] (M=Cr, Mo, W) Complexes as Efficient Catalysts for Electrochemical Reduction of CO ₂ at a Gold Electrode. <i>ChemElectroChem</i> , 2015, 2, 213-217.	3.4	61
39	Bridge-Localized HOMO-Binding Character of Divinylanthracene-Bridged Dinuclear Ruthenium Carbonyl Complexes: Spectroscopic, Spectroelectrochemical, and Computational Studies. <i>Chemistry - an Asian Journal</i> , 2014, 9, 1152-1160.	3.3	30
40	Multistep π -Dimerization of Tetrakis(π -decyl)heptathienoacene Radical Cations: A Combined Experimental and Theoretical Study. <i>Chemistry - A European Journal</i> , 2014, 20, 10351-10359.	3.3	12
41	Spectroelectrochemical study of complexes [Mo(CO) ₂ (π -3-allyl)(π -diimine)(NCS)] (π -diimine = 2,6-dimethylphenyl-acenaphthenequinonediimine and 2,2'-bipyridine) exhibiting different molecular structure and redox reactivity. <i>Journal of Organometallic Chemistry</i> , 2014, 760, 30-41.	1.8	28
42	Rull(π -diimine) or Rull(π -diimine) π ? Structural, Spectroscopic, and Theoretical Evidence for the Stabilization of a Prominent Metal-to-Ligand Charge-Transfer Excited-State Configuration in the Ground State. <i>European Journal of Inorganic Chemistry</i> , 2014, 2014, 110-119.	2.0	23
43	Solvent-Dependent Formation of Os(0) Complexes by Electrochemical Reduction of [Os(CO) ₂ (2,2'-bipyridine)(L)Cl ₂]; L = Cl ⁻ , PrCN. <i>Inorganic Chemistry</i> , 2014, 53, 1382-1396.	4.0	11
44	Electrocatalytic Reduction of Carbon Dioxide with a Manganese(I) Tricarbonyl Complex Containing a Nonaromatic π -Diimine Ligand. <i>Organometallics</i> , 2014, 33, 5002-5008.	2.3	66
45	Structure and Spectroelectrochemical Response of Arene π -Ruthenium and Arene π -Osmium Complexes with Potentially Hemilabile Noninnocent Ligands. <i>Organometallics</i> , 2014, 33, 4973-4985.	2.3	44
46	Temperature-dependent reduction pathways of complexes fac-[Re(CO) ₃ (N-R-imidazole)(1,10-phenanthroline)] ⁺ (R=H, CH ₃). <i>Electrochimica Acta</i> , 2013, 110, 702-708.	5.2	7
47	Synthesis and Electronic Structure of Dissymmetrical, Naphthalene-Bridged Sandwich Complexes [Cp [*] Fe(π -C ₁₀ H ₈)MCP [*]] (π = 0, +1; M = Fe, Ru; Cp [*] = 1,5-ETQq ^{1,16}). <i>Journal of Organometallic Chemistry</i> , 2013, 871, 1-16.	2.3	0.784
48	Radical cations of end-capped tetrathienoacenes and their π -dimerization controlled by the nature of π -substituents and counterion concentration. <i>RSC Advances</i> , 2013, 3, 25644.	3.6	9
49	Syntheses, Spectroelectrochemical Studies, and Molecular and Electronic Structures of Ferrocenyl Ene-diynes. <i>Organometallics</i> , 2013, 32, 6022-6032.	2.3	21
50	Bis(azidophenyl)phosphole Building Block for Extended π -Conjugated Systems. <i>European Journal of Organic Chemistry</i> , 2012, 2012, 6711-6721.	2.4	12
51	Unraveling the Electronic Structures of Low-Valent Naphthalene and Anthracene Iron Complexes: X-ray, Spectroscopic, and Density Functional Theory Studies. <i>Inorganic Chemistry</i> , 2012, 51, 6719-6730.	4.0	34
52	Redox-Active, Dinuclear Sandwich Compounds [Cp [*] Fe(π -L)FeCp [*]] (L = Naphthalene and Anthracene). <i>European Journal of Inorganic Chemistry</i> , 2012, 2012, 1632-1638.	2.0	12
53	Electrochemical Reductive Deprotonation of an Imidazole Ligand in a Bipyridine Tricarbonyl Rhenium(I) Complex. <i>European Journal of Inorganic Chemistry</i> , 2012, 2012, 471-474.	2.0	21
54	Simultaneous Bridge-Localized and Mixed-Valence Character in Diruthenium Radical Cations Featuring Diethynylaromatic Bridging Ligands. <i>Journal of the American Chemical Society</i> , 2011, 133, 18433-18446.	13.7	138

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55	Reversible Addition of CO to Coordinatively Unsaturated High-Spin Iron(II) Complexes. <i>Organometallics</i> , 2011, 30, 6587-6601.	2.3	23
56	Origin of electronic absorption spectra of MLCT-excited and one-electron reduced 2,2'-bipyridine and 1,10-phenanthroline complexes. <i>Inorganica Chimica Acta</i> , 2011, 374, 578-585.	2.4	67
57	Ï-dimerization of pleiadiene radical cations at low temperatures revealed by UV-vis spectroelectrochemistry and quantum theory. <i>Journal of Solid State Electrochemistry</i> , 2011, 15, 2107-2117.	2.5	9
58	Soluble Redox-Active Polymetallic Chains $[Ru(CO)(L)(bpy)]_m$ ($bpy = 2,2'$ -bipyridine, $L = PrCN, Cl^-$; $m = 0, 1, 2$). <i>Journal of Organometallic Chemistry</i> , 2009, 688, 17-20.	4.0	17
59	Consequences of π - and σ -Coordination Modes on Electronic and Photophysical Properties of Cyclometalated Aryl Ruthenium(II) Complexes. <i>Inorganic Chemistry</i> , 2009, 48, 1887-1900.	4.0	159
60	Redox Chemistry and Electronic Properties of 2,3,5,6-Tetrakis(2-pyridyl)pyrazine-Bridged Diruthenium Complexes Controlled by π -BisCyclometalated Ligands. <i>Inorganic Chemistry</i> , 2009, 48, 5685-5696.	4.0	51
61	Ruthenium Complexes of π -Bis(ethynyl)carboranes: An Investigation of Electronic Interactions Mediated by Spherical Pseudo-aromatic Spacers. <i>Journal of the American Chemical Society</i> , 2008, 130, 3566-3578.	13.7	116
62	Some transition metal complexes derived from mono- and di-ethynyl perfluorobenzenes. <i>Dalton Transactions</i> , 2008, , 6763.	3.3	63
63	Isomeric Olefin Tetracarbonyl Complexes of Tungsten(I): An Infrared Spectroelectrochemical Study at Low Temperatures. <i>Organometallics</i> , 2007, 26, 4066-4071.	2.3	3
64	Electronic transitions and bonding properties in a series of five-coordinate d^6 -electron complexes $[Mn(CO)_3(L_2)]^+$ (L_2 =chelating redox-active Ï-donor ligand). <i>Coordination Chemistry Reviews</i> , 2007, 251, 557-576.	18.8	63
65	Heterosite Effects in Novel Heteronuclear Clusters $[Os_2Ru(CO)_{11}(PPh_3)]$ and $[Os_2Ru(CO)_{10}(2\text{-acetylpyridine-N-isopropylimine})]$. <i>European Journal of Inorganic Chemistry</i> , 2005, 2005, 2206-2222.	2.0	8
66	Redox Control of Light-Induced Charge Separation in a Transition Metal Cluster: Photochemistry of a Methyl Viologen-Substituted $[Os_3(CO)_{10}(\text{L})_3]$ Cluster. <i>Inorganic Chemistry</i> , 2005, 44, 1319-1331.	4.0	18
67	Syntheses, Structures, Some Reactions, and Electrochemical Oxidation of Ferrocenylethynyl Complexes of Iron, Ruthenium, and Osmium. <i>Organometallics</i> , 2005, 24, 5241-5255.	2.3	87
68	Electrochemical and Photochemical Conversion of $[Ru_3Ir(\text{H})_3(CO)_{13}]$ into $[Ru_3Ir(\text{H})_3(CO)_{12}]$. <i>Journal of Cluster Science</i> , 2004, 15, 47-59.	3.3	0
69	Strongly Nucleophilic RhI Centre in Square-Planar Complexes with Tridentate 2,2':6''-Terpyridine Ligands: Crystallographic, Electrochemical and Density Functional Theoretical Studies. <i>European Journal of Inorganic Chemistry</i> , 2004, 2004, 1675-1686.	2.0	20
70	Photochromic Dithienylethene Derivatives Containing Ru(II) or Os(II) Metal Units. Sensitized Photocyclization from a Triplet State. <i>Inorganic Chemistry</i> , 2004, 43, 2779-2792.	4.0	229
71	Electronic Properties of 4,4',5,5'-Tetramethyl-2,2'-biphosphinine (tmbp) in the Redox Series $fac-[Mn(Br)(CO)_3(tmbp)]$, $[Mn(CO)_3(tmbp)]_2$, and $[Mn(CO)_3(tmbp)]^+$: Crystallographic, Spectroelectrochemical, and DFT Computational Study. <i>Inorganic Chemistry</i> , 2003, 42, 4442-4455.	4.0	56
72	Marked influence of the bridging carbonyl ligands on the photo- and electrochemistry of the clusters $[Ru_3(CO)_8(\text{L})_3]$ ($\text{L} = 2,2'$ -bipyridine, $4,4'$ -dimethyl-2,2'-bipyridine and $1,10$ -phenanthroline). <i>Journal of Organometallic Chemistry</i> , 2003, 688, 17-20.	4.0	17

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73	Synthesis, Spectroscopy and Spectroelectrochemistry of Chlorocarbonyl {1,2-Bis[(2,6-diisopropylphenyl)imino]acenaphthene-1,2-N,N'}rhodium(I). Collection of Czechoslovak Chemical Communications, 2003, 68, 1687-1709.	1.0	58
74	On the structure, carbonyl-stretching frequencies and relative stability of trans- and cis-[W(CO)4(η -2-alkene)2]0/+ : a theoretical and IR spectroelectrochemical study. New Journal of Chemistry, 2002, 26, 145-152.	2.8	12
75	Novel Complexes trans(Cl)-[Os(bpy)(CO)(CH3CN)Cl2]n (n = 0, +1; bpy = 2,2'-Bipyridine): Photo- and Electrochemical Syntheses and Comparative Study of Their Bonding and Redox Properties. European Journal of Inorganic Chemistry, 2002, 2002, 2850-2856.	2.0	14
76	Redox Control of Conformation and Luminescence of a Dinuclear Ruthenium(II) Complex with a Bis-dipyridophenazine Bridging Ligand. European Journal of Inorganic Chemistry, 2002, 2002, 335-339.	2.0	14
77	Electrochemical and Catalytic Properties of Novel Manganese(III) Complexes with Substituted 2-(2-Hydroxyphenyl)oxazoline Ligands - X-ray Structures of Tris[5-methyl-2-(2-oxazoliny)phenolato]manganese(III) and Tris[5-chloro-2-(2-oxazoliny)phenolato]manganese(III). European Journal of Inorganic Chemistry, 2002, 2002, 377-387.	2.0	20
78	Light-induced formation of zwitterions and biradicals from the cluster [Os3(CO)10(iPr-AcPy)] studied with picosecond UV-vis and nanosecond IR spectroscopies. Coordination Chemistry Reviews, 2002, 229, 107-112.	18.8	6
79	Electrochemistry of different types of photoreactive ruthenium(II) dicarbonyl $\hat{\text{L}}$ -diimine complexes. Coordination Chemistry Reviews, 2002, 230, 107-125.	18.8	27
80	A Novel Organometallic Polymer of Osmium(0), [Os(2,2'-bipyridine)(CO)2]n: Its Electrosynthesis and Electrocatalytic Properties Towards CO2 Reduction. European Journal of Inorganic Chemistry, 2001, 2001, 613-617.	2.0	61
81	Theoretical Studies of [Os3(CO)10($\hat{\text{L}}$ -Diimine)]: Structures, Frontier Orbitals and Bonding. European Journal of Inorganic Chemistry, 2001, 2001, 223-231.	2.0	14
82	Unprecedented Coordination of 4,4'-Tetramethyl-2,2'-biphosphinine Doubly Bridging over an Open Triosmium Core. European Journal of Inorganic Chemistry, 2000, 2000, 843-845.	2.0	16
83	Temperature-Dependent Photophysical, Photochemical and Redox Properties of Novel Complexes (CO)2CpRu-Ru(Ln)-RuCp(CO)2 and (CO)2CpRu-Ru(Ln)-SnPh3 [Ln = (CO)2(N,N'-diisopropyl-1,4-diaza-1,3-butadiene)]. European Journal of Inorganic Chemistry, 2000, 2000, 847-855.	2.0	9
84	The spectroscopic, electrochemical and photophysical effects of the b1/a2 $\hat{\text{L}}$ * lowest unoccupied molecular orbital switching in [M(CO)4(N,N)] (M = Cr or W; N,N' = 1,10-phenanthroline or Tj ETQq 0 0 rgBT /Overlock 1 Transactions RSC, 2000, , 4323-4331.	2.3	52
85	Unprecedented Coordination of 4,4'-Tetramethyl-2,2'-biphosphinine Doubly Bridging over an Open Triosmium Core. European Journal of Inorganic Chemistry, 2000, 2000, 843.	2.0	1
86	Mechanistic study of the photoisomerization of Os3(CO)10(L) in which L (L=1,4-di-R-1,4-diazabutadiene) $\hat{\text{L}}$ -C $\hat{\text{r}}$...N $\hat{\text{a}}$ $\hat{\text{e}}$ $\hat{\text{2}}$. Journal of Organometallic Chemistry, 1999, 572, 271-281.	1.8	11
87	Light-Induced Insertion of a CO Ligand into an Os $\hat{\text{a}}$ $\hat{\text{N}}$ Bond of the Clusters Os3(CO)10(L), Where L Represents a Potentially Terdentate N,N'-Chelating $\hat{\text{L}}$ -Diimine. Organometallics, 1999, 18, 4380-4389.	2.3	19
88	Photochemistry of the Triangular Clusters Os3(CO)10($\hat{\text{L}}$ -diimine): Homolysis of an Os $\hat{\text{a}}$ $\hat{\text{O}}$ s Bond and Solvent-Dependent Formation of Biradicals and Zwitterions. Inorganic Chemistry, 1998, 37, 661-668.	4.0	39
89	Electrochemical and IR/UV-Vis Spectroelectrochemical Studies of fac-[Mn(X)(CO)3(iPr-DAB)]n (n= 0, X =) Tj ETQq 1 1 0.784314 rgBT /Overlock 1 Variable Temperatures: A Relation between Electrochemical and Photochemical Generation of [Mn(CO)3($\hat{\text{L}}$ -diimine)]-. Organometallics, 1997, 16, 4675-4685.	2.3	53
90	Electrocatalytic Reduction of CO2 Using the Complexes [Re(bpy)(CO)3L]n (n= +1, L = P(OEt)3, CH3CN; n= 0), Tj ETQq 0 0 0 rgBT /Overlock 1 Spectroelectrochemical Investigation. Organometallics, 1996, 15, 3374-3387.	2.3	291

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91	Rhenium(I) carbonyl dioxolene complexes: electrochemical and spectroelectrochemical (resonance) Tj ETQq1 1	0.784314	rgBT /Overl 4.0 31
92	Wavelength-dependent photosubstitution and excited-state dynamics of [Cr(CO) ₄ (2,2'-bipyridine)]: a quantum yield and picosecond absorption study. Journal of the American Chemical Society, 1992, 114, 10903-10910.	13.7	85