

# Sylvie Chardon-Noblat

## List of Publications by Year in descending order

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68  
papers

3,104  
citations

117625

34  
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155660

55  
g-index

72  
all docs

72  
docs citations

72  
times ranked

2675  
citing authors

#	ARTICLE	IF	CITATIONS
1	[Mn(bipyridyl)(CO) <sub>3</sub> Br]: An Abundant Metal Carbonyl Complex as Efficient Electrocatalyst for CO <sub>2</sub> Reduction. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 9903-9906.	13.8	498
2	Synthesis, Structural, Magnetic, and Redox Properties of Asymmetric Diiron Complexes with a Single Terminally Bound Phenolate Ligand. Relevance to the Purple Acid Phosphatase Enzymes. <i>Journal of the American Chemical Society</i> , 1997, 119, 9424-9437.	13.7	141
3	Electroreduction of CO <sub>2</sub> catalyzed by polymeric [Ru(bpy)(CO) <sub>2</sub> ] <sub>n</sub> films in aqueous media: Parameters influencing the reaction selectivity. <i>Journal of Electroanalytical Chemistry</i> , 1998, 444, 253-260.	3.8	126
4	Pulsed-EPR Evidence of a Manganese(II) Hydroxycarbonyl Intermediate in the Electrocatalytic Reduction of Carbon Dioxide by a Manganese Bipyridyl Derivative. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 240-243.	13.8	121
5	Selective Synthesis and Electrochemical Behavior of trans(Cl)- and cis(Cl)-[Ru(bpy)(CO) <sub>2</sub> Cl <sub>2</sub> ] Complexes (bpy = 2,2'-Bipyridine). Comparative Studies of Their Electrocatalytic Activity toward the Reduction of Carbon Dioxide. <i>Inorganic Chemistry</i> , 1997, 36, 5384-5389.	4.0	98
6	Electrocatalytic reduction of CO <sub>2</sub> into formate with [( $\eta^5$ -Me <sub>5</sub> C <sub>5</sub> )M(L)Cl] <sup>+</sup> complexes (L = 2,2'-bipyridine) <i>J Electroanal Chem</i> 1991, 300, 91-99	3.8	91
7	Formation of Polymeric [Ru(bpy)(CO) <sub>2</sub> ] <sub>n</sub> Films by Electrochemical Reduction of [Ru(bpy) <sub>2</sub> (CO) <sub>2</sub> ](PF <sub>6</sub> ) <sub>2</sub> : Its Implication in CO <sub>2</sub> Electrocatalytic Reduction. <i>Inorganic Chemistry</i> , 1994, 33, 4410-4412.	4.0	89
8	Electrocatalytic reduction of carbon dioxide on indium coated gas diffusion electrodes—Comparison with indium foil. <i>Applied Catalysis B: Environmental</i> , 2016, 189, 172-180.	20.2	83
9	Electro and photoreduction of CO <sub>2</sub> driven by manganese-carbonyl molecular catalysts. <i>Coordination Chemistry Reviews</i> , 2018, 361, 120-137.	18.8	80
10	Selective Catalytic Electroreduction of CO <sub>2</sub> at Silicon Nanowires (SiNWs) Photocathodes Using Non-Noble Metal-Based Manganese Carbonyl Bipyridyl Molecular Catalysts in Solution and Grafted onto SiNWs. <i>ACS Catalysis</i> , 2015, 5, 6138-6147.	11.2	75
11	Binuclear Manganese Compounds of Potential Biological Significance. 1. Syntheses and Structural, Magnetic, and Electrochemical Properties of Dimanganese(II) and -(II,III) Complexes of a Bridging Unsymmetrical Phenolate Ligand. <i>Inorganic Chemistry</i> , 2003, 42, 750-760.	4.0	74
12	Light-Induced Decarbonylation, Solvolysis, and Isomerization of Ru(L)(CO) <sub>2</sub> Cl <sub>2</sub> (L = 2,2'-Bipyridine and) <i>J Electroanal Chem</i> 1999, 469, 69-73	2.3	69
13	Electrochemical properties of [(C <sub>5</sub> Me <sub>5</sub> )RhIII(L)Cl] <sup>+</sup> complexes (L = 2,2'-bipyridine or 1,10-phenanthroline) <i>J Electroanal Chem</i> 1993, 352, 213-228.	3.8	68
14	Photoinduced electron transfer in multiporphyrin clusters and rotaxanes. <i>Pure and Applied Chemistry</i> , 1993, 65, 2343-2349.	1.9	65
15	Synthesis, Structure, and Physicochemical Characterizations of a New Cationic Ruthenium(I)~Ruthenium(I) Tetracarbonyl Bipyridine Dimer Precursor for the Electrochemical Synthesis of an Organometallic Ruthenium(0) Polymer. <i>Organometallics</i> , 2001, 20, 1668-1675.	2.3	64
16	A Novel Organometallic Polymer of Osmium(0), [Os(2,2'-bipyridine)(CO) <sub>2</sub> ] <sub>n</sub> : Its Electrosynthesis and Electrocatalytic Properties Towards CO <sub>2</sub> Reduction. <i>European Journal of Inorganic Chemistry</i> , 2001, 2001, 613-617.	2.0	61
17	Chemically modified ruthenium mono(bipyridine) carbonyl complexes in water gas shift reaction. <i>Applied Catalysis A: General</i> , 1999, 185, 157-164.	4.3	48
18	Manganese carbonyl terpyridyl complexes: their synthesis, characterization and potential application as CO-release molecules. <i>Chemical Communications</i> , 2014, 50, 2539-2542.	4.1	47

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19	A Mixed-Valent, Unsymmetrical Fe <sup>I</sup> Fe <sup>III</sup> Complex with a Terminal Phenolato Ligand as a Model for the Active Site of Purple Acid Phosphatases. <i>Angewandte Chemie International Edition in English</i> , 1994, 33, 887-889.	4.4	46
20	Towards New Molecular Photocatalysts for CO <sub>2</sub> Reduction: Photoinduced Electron Transfer versus CO Dissociation within [Os(NN)(CO) <sub>2</sub> Cl <sub>2</sub> ] Complexes. <i>Chemistry - A European Journal</i> , 2011, 17, 4313-4322.	3.3	45
21	Mode of formation of polymeric [{Ru(bipy)(CO) <sub>2</sub> }] <sub>n</sub> (bipy = 2,2'-bipyridine) films. <i>Journal of the Chemical Society Dalton Transactions</i> , 1996, , 2581-2583.	1.1	44
22	(Pentamethylcyclopentadienyl)(polypyridyl) rhodium and iridium complexes as electrocatalysts for the reduction of protons to dihydrogen and the hydrogenation of organics. <i>Journal of Organometallic Chemistry</i> , 1997, 540, 105-111.	1.8	44
23	Electrosynthesis of Electroactive Metal-Metal Bonded Polymers [Ru(CO) <sub>2</sub> L] <sub>n</sub> (L = 2,2'-Bipyridine) <i>Tj ETQq1 1 0.784314 rgBT /Overlock</i> <i>Chemical Communications</i> , 2001, 66, 207-227.	1.0	44
24	A Model of Semimet Hemerythrin; NMR Spectroscopic Evidence of Valence Localization in Bis(1/4-carboxylato)(1/4-phenolato)diiron(II,III) Complexes in Solution. <i>Angewandte Chemie International Edition in English</i> , 1995, 34, 588-590.	4.4	42
25	Efficient Photoinduced Intramolecular Energy Transfer in an Oblique Bis-Porphyrin System. <i>Angewandte Chemie International Edition in English</i> , 1989, 28, 593-595.	4.4	40
26	Synthesis of bis-porphyrins containing a 2,9-diphenyl-1,10-phenanthroline spacer. <i>Tetrahedron</i> , 1991, 47, 5123-5132.	1.9	40
27	Electrochemical formation and spectroelectrochemical characterization of organometallic [Ru(L)(CO) <sub>2</sub> ] <sub>n</sub> polymers; L=disubstituted-2,2'-bipyridine. <i>Journal of Electroanalytical Chemistry</i> , 1999, 466, 187-196.	3.8	40
28	Spectroscopic and Electrochemical Characterization of an Aqua Ligand Exchange and Oxidatively Induced Deprotonation in Diiron Complexes. <i>Inorganic Chemistry</i> , 2004, 43, 1638-1648.	4.0	40
29	Electrochemical generation of a metal-hydride complex [(C <sub>5</sub> Me <sub>5</sub> )Ir(L)H] <sup>+</sup> (L = 2,2'-bipyridine). The electrochemical behaviour.. <i>Journal of Electroanalytical Chemistry</i> , 1993, 362, 301-304.	3.8	39
30	Multiple Aromatic Amination Mediated by a Diiron Complex. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 715-717.	13.8	36
31	X-ray Powder Diffraction Study of Organometallic Polymers: [Ru(L)(CO) <sub>2</sub> ] <sub>n</sub> (L = 2,2'-Bipyridine or) <i>Tj ETQq1 1 0.784314 rgBT /Overlock</i>	2.3	35
32	Redox-Active Polymers Based on Nonbridged Metal-Metal Bonds. Electrochemical Formation of [Os(bpy)(CO)(L)] <sub>n</sub> (bpy = 2,2'-bipyridine; L = CO, MeCN) and of Their Reduced Forms: A Spectroelectrochemical Study. <i>Inorganic Chemistry</i> , 2004, 43, 7250-7258.	4.0	35
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37	Mn-carbonyl molecular catalysts containing a redox-active phenanthroline-5,6-dione for selective electro- and photoreduction of CO <sub>2</sub> to CO or HCOOH. <i>Electrochimica Acta</i> , 2017, 240, 288-299.	5.2	31
38	Electrocatalytic hydrogenation on poly[RhIII(L)2(Cl)2]+ (L=pyrrole-substituted 2,2'-bipyridine or) <i>J Electroanal Chem</i> 2017, 810, 10-17	4.8	25
39	Carbonyl-Terpyridyl-Manganese Complexes: Syntheses, Crystal Structures, and Photo-Activated Carbon Monoxide Release Properties. <i>European Journal of Inorganic Chemistry</i> , 2015, 2015, 5757-5766.	2.0	20
40	Co-ordinative properties of a hybrid phosphine-bipyridine ligand. <i>Journal of the Chemical Society Dalton Transactions</i> , 1997, , 3777-3784.	1.1	19
41	Structural characterization of metal-metal bonded polymer [Ru(L)(CO) <sub>2</sub> ] <sub>n</sub> (L = 2,2'-bipyridine) in the solid state using high-resolution NMR and DFT chemical shift calculations. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 15428.	2.8	19
42	Electrosynthesis, physico-chemical and electrocatalytic properties of a novel electroactive Ru(0) material based on the (Ru(terpy)(CO)) frame (terpy=2,2':6',2''-terpyridine). <i>Journal of Electroanalytical Chemistry</i> , 2002, 529, 135-144.	3.8	18
43	Electro- and Photo-driven Reduction of CO <sub>2</sub> by a <i>trans</i> -[Os(dimine)(CO) <sub>2</sub> Cl] <sub>2</sub> Precursor Catalyst: Influence of the Diimine Substituent and Activation Mode on CO/HCOO <sup>-</sup> Selectivity. <i>ChemCatChem</i> , 2016, 8, 2667-2677.	3.7	18
44	Soluble Redox-Active Polymetallic Chains [{RuO(CO)(L)(bpy)} <sub>m</sub> ] <sub>n</sub> (bpy = 2,2'-bipyridine, L = PrCN, Cl <sup>-</sup> ; m = 0, 1) <i>J Electroanal Chem</i> 2017, 810, 10-17	4.0	17
45	Carboxylate/Diphenylphosphate Exchanges in Asymmetric Diiron Complexes Modeling the Purple Acid Phosphatases Enzymes: Associated Redox Processes. <i>Inorganic Chemistry</i> , 1999, 38, 190-193.	4.0	16
46	Electrochemical preparation of nanometer sized noble metal particles into a polypyrrole functionalized by a molecular electrocatalyst precursor. <i>Journal of Materials Chemistry</i> , 2004, 14, 2606.	6.7	15
47	Novel Complexes <i>trans</i> -(Cl)-[Os(bpy)(CO)(CH <sub>3</sub> CN)Cl] <sub>2</sub> (n = 0, +1; bpy = 2,2'-Bipyridine): Photo- and Electrochemical Syntheses and Comparative Study of Their Bonding and Redox Properties. <i>European Journal of Inorganic Chemistry</i> , 2002, 2002, 2850-2856.	2.0	14
48	Electrochemical fabrication and characterization of thin films of redox-active molecular wires based on extended Rh-Rh bonded chains. <i>Dalton Transactions</i> , 2008, , 2149.	3.3	14
49	Electrochemical behavior of binuclear complexes (L=2,2'-bipyridine substituted by pyrrole groups). Their reductive and oxidative electropolymerization. <i>Journal of Electroanalytical Chemistry</i> , 2006, 597, 28-38.	3.8	13
50	Selective formation of <i>trans</i> and <i>cis</i> (CH <sub>3</sub> CN) isomers of [Ru(bpy)(CO) <sub>2</sub> (CH <sub>3</sub> CN) <sub>2</sub> ] <sub>2</sub> <sup>+</sup> (bpy=2,2'-bipyridine) from [Ru(CO) <sub>2</sub> (CH <sub>3</sub> CN) <sub>3</sub> ] <sub>2</sub> (PF <sub>6</sub> ) <sub>2</sub> using an electrochemical oxidation step. <i>Journal of Organometallic Chemistry</i> , 2004, 689, 484-488.	1.8	12
51	New mononuclear and homodinuclear Pt(II) complexes with heterocyclic nitrogen chelates: Synthesis, characterization, intercalating ability and in vitro cytotoxic activity evaluation. <i>Dalton Transactions</i> , 2008, , 5911.	3.3	12
52	One-Step Vs Stepwise Immobilization of 1-D Coordination-Based Rh-Rh Molecular Wires on Gold Surfaces. <i>Langmuir</i> , 2012, 28, 11779-11789.	3.5	12
53	Fe-Based Complexes as Styrene Aziridination Catalysts: Ligand Substitution Tunes Catalyst Activity. <i>ChemCatChem</i> , 2019, 11, 5296-5299.	3.7	12
54	Immobilization of Mn and Ru polypyridyl complexes on TiO <sub>2</sub> nanoparticles for selective photoreduction of CO <sub>2</sub> to formic acid. <i>Chemical Communications</i> , 2019, 55, 13598-13601.	4.1	12

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55	Effective Homogeneous Catalysis of Electrochemical Reduction of Nitrous Oxide to Dinitrogen at Rhenium Carbonyl Catalysts. ACS Catalysis, 2021, 11, 6099-6103.	11.2	12
56	Ein gemischtvalenter, unsymmetrischer Fe <sup>II</sup> FE <sup>III</sup> -Komplex mit einem terminalen Phenolatoliganden als Modell für das aktive Zentrum violetter saurer Phosphatasen. Angewandte Chemie, 1994, 106, 914-917.	2.0	9
57	Ein Modell für Semimet-Hämerythrin; NMR-spektroskopischer Nachweis für die Lokalisierung der Ladung in Bis(1-carboxylato)phenolato-dien(II,III)-Komplexen in Lösung. Angewandte Chemie, 1995, 107, 625-628.	2.0	9
58	An alternative synthesis method for [Os(NN)(CO)2X2] complexes (NN = 2,2'-bipyridine,) Dalton Transactions, 2007, , 3314.	3.3	9
59	Synthesis and Structural and Physicochemical Characterization of {[Rh <sub>2</sub> (1,4-OOCCH <sub>3</sub> ) <sub>2</sub> (dmbpy) <sub>2</sub> ][BF <sub>4</sub> ]} <sub>n</sub> molecular wire and [Rh <sub>2</sub> (1,4-OOCCH <sub>3</sub> ) <sub>2</sub> (dbbpy) <sub>2</sub> L <sub>2</sub> ] <sub>2+</sub> complexes; dbbpy=4,4'-di-tert-butyl-2,2'-bipyridine: Synthesis and physicochemical characterization. Molecular Wire. European Journal of Inorganic Chemistry, 2009, 2009, 111-118.	2.0	7
60	Effiziente photoinduzierte intramolekulare Energieübertragung in einem gewinkelten Bis(porphyrin)-System. Angewandte Chemie, 1989, 101, 631-632.	2.0	7
61	Soluble [Rh <sub>2</sub> (1,4-OOCCH <sub>3</sub> ) <sub>2</sub> (dbbpy) <sub>2</sub> ][BF <sub>4</sub> ] <sub>n</sub> molecular wire and [Rh <sub>2</sub> (1,4-OOCCH <sub>3</sub> ) <sub>2</sub> (dbbpy) <sub>2</sub> L <sub>2</sub> ] <sub>2+</sub> complexes; dbbpy=4,4'-di-tert-butyl-2,2'-bipyridine: Synthesis and physicochemical characterization. Polyhedron, 2010, 29, 3059-3065.	2.2	7
62	Anodic polymerization of 1-amino-2-methyl-9,10-anthraquinone in mixed solvent. Journal of Electroanalytical Chemistry, 2010, 647, 35-42.	3.8	6
63	Homogeneous molecular catalysis of the electrochemical reduction of N <sub>2</sub> O to N <sub>2</sub> : redox vs. chemical catalysis. Chemical Science, 2021, 12, 12726-12732.	7.4	6
64	Comparative study of the anchorage and the catalytic properties of nanoporous TiO <sub>2</sub> films modified with ruthenium (II) and rhenium (I) carbonyl complexes. Chemical Physics Letters, 2018, 694, 40-47.	2.6	5
65	An easy electrochemical and chemical synthesis of [Ru(bpy)(CH <sub>3</sub> CN) <sub>2</sub> Cl <sub>2</sub> ]: a synthon for heteroleptic tris(diimine) Ru(II) complexes. Dalton Transactions, 2008, , 5891.	3.3	2
66	Molecular Catalysis of Electrochemical Reactions: Competition between Reduction of the Substrate and Deactivation of the Catalyst by a Cosubstrate Application to N <sub>2</sub> O Reduction. ChemElectroChem, 2021, 8, 3740-3744.	3.4	1
67	Photoinduced Electron Transfer in Bis-Porphyrin-Stoppered [2]-Rotaxanes. , 1995, , 215-234.		0
68	Manganese-Carbonyl Complexes As Catalysts for CO <sub>2</sub> Electrochemical Reduction. ECS Meeting Abstracts, 2020, MA2020-01, 1517-1517.	0.0	0