

Mohammed Bakir

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Physicochemical and X-ray crystallographic properties of the first rhenium compound of benzophenone thiosemicarbazone (bptsc), fac-[Re(CO) ₃ (^η 2-Nim,S-bptsc)Cl]. Journal of Molecular Structure, 2021, 1235, 130135.	3.6	2
2	Novel ^η 2-Nim,S- and ^η 4-C,Nim,(^η 1/4-S),(^η 1/4-S)-coordination of di-2-thienyl ketone thiosemicarbazone (dtktsc). Hydrogen evolution and catalytic properties of palladacyclic [Pd(^η 4-C,Nim,(^η 1/4-S),(^η 1/4-S)-dtktsc-2H)] ₄ . Inorganica Chimica Acta, 2020, 507, 119592.	2.4	8
3	Catalytic C=C cross-coupling and hydrogen evolution by two Pd(II)-complexes of di-2-pyridyl ketone benzoyl hydrazones. Journal of Coordination Chemistry, 2019, 72, 2261-2278.	2.2	11
4	Physico-chemical properties of the first metal compound of di-2-pyridylketone <i>p</i> -nitrophenoxyacetic acid hydrazone (dpknxh), fac-[Re(CO) ₃ (^η 2-Npy, ^η 2-Npy-dpknxh)Cl]. Journal of Coordination Chemistry, 2019, 72, 3657-3673.	2.2	2
5	X-ray crystallographic, spectroscopic, and electrochemical properties of Group 12 metal-chlorides of di-2-pyridyl ketone acetic acid hydrazone (dpkaah). Journal of Coordination Chemistry, 2018, 71, 2322-2339.	2.2	8
6	X-ray crystallographic, spectroscopic and electrochemical properties of a bi-stable di-2-thienyl ketone 2,4-dinitrophenyl hydrazone (dtkdnph). Journal of Molecular Structure, 2018, 1173, 942-950.	3.6	8
7	Spectroscopic, electrochemical and X-ray crystallographic properties of a novel palladium(II) complex of thioamide deprotonated di-2-pyridyl ketone thiosemicarbazone (dpktsc-H) ⁻ . Journal of Coordination Chemistry, 2017, 70, 3048-3064.	2.2	17
8	Spectroscopic and electrochemical properties of di-2-thienyl ketone thiosemicarbazone (dtktsc): electrochemical reactions with electrophiles (H ⁺ and CO ₂). Electrochimica Acta, 2016, 212, 1010-1020.	5.2	21
9	Synthesis, spectroscopic and X-ray crystallographic properties of manganese compounds of keto- and enol-coordinated di-2-pyridyl ketone benzoyl hydrazone (dpkbh). Reactions of [Mn(CO) ₅ Br] with dpkbh. Journal of Coordination Chemistry, 2016, 69, 1244-1257.	2.2	5
10	Polymer-supported CuPd nanoalloy as a synergistic catalyst for electrocatalytic reduction of carbon dioxide to methane. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 15809-15814.	7.1	140
11	Spectroscopic and electrochemical properties of group 12 acetates of di-2-pyridylketone thiophene-2-carboxylic acid hydrazone (dpktch-H) complexes. The structure of [Cd(^η 3-N,N,O-dpktch-H) ₂]. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2015, 146, 323-330.	3.9	16
12	Synthesis, solution properties, and solid-state structural analysis of [Mn(^η 4-N,N,S,N-dpktsc)Br] ₂ ·CH ₃ CN (1, or 0). Tj ETQq0 0 0 r. Journal of Coordination Chemistry, 2014, 67, 249-264.	2.2	10
13	Spectroscopic, and electrochemical studies of [MCl ₂ (^η 2-N,N-dpksc)] (M=Zn, Cd, Hg and Tj ETQq1 1 0.784314 rgBTj/Overlock 10 Tf 5). Journal of Coordination Chemistry, 2014, 67, 249-264.	3.6	9
14	Synthesis, and molecular sensing behavior of fac-[Re(CO) ₃ (^η 2-N,N-dpksc)Cl], dpksc=di-2-pyridyl ketone semicarbazone. Journal of Molecular Structure, 2013, 1032, 118-125.	3.6	3
15	Spectroscopic and electrochemical properties of di-2-pyridyl ketone thiosemicarbazone [dpktsc] in non-aqueous media. Journal of Molecular Structure, 2011, 1006, 402-408.	3.6	14
16	Rhenium tricarbonyl chloro of di-2-pyridylketone 4-aminobenzoyl hydrazone (dpk4abh), fac-[Re(CO) ₃ (^η 2-N,N-dpk4abh)Cl]: Synthesis, spectroscopic and electrochemical properties. Journal of Molecular Structure, 2011, 996, 24-30.	3.6	6
17	Synthesis and physicochemical properties of fac-[Re(CO) ₃ (^η 2-N,N-dpkfah)Cl], dpkfah=di-2-pyridyl ketone 2-furoic acid hydrazone: the molecular structure of fac-[Re(CO) ₃ (^η 2-N,N-dpkfah)Cl]·acetone. Journal of Coordination Chemistry, 2011, 64, 1743-1757.	2.2	0
18	Synthesis, spectroscopic, and X-ray crystallographic analysis of manganese compounds of di-2-pyridyl ketone thiophene-2-carboxylic acid hydrazone (dpktch): The reaction of Mn(CO) ₅ Br with dpktch. Journal of Molecular Structure, 2010, 967, 174-182.	3.6	4

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19	Synthesis, characterization and structure of the first rhenium compound of di-2-pyridyl ketone thiophene-2-carboxylic acid hydrazone (dpktah), fac-[Re(CO) ₃ (N,N-î²-dpktah)Cl]. Journal of Molecular Structure, 2009, 918, 138-145.	3.6	7
20	X-ray crystallographic, spectroscopic, and electrochemical properties of [HgCl ₂ (î²-N,N-î²-dpktch)] (î²-N,N-î²-dpktch=di-2-pyridyl ketone thiophene-2-carboxylic acid hydrazone). Journal of Molecular Structure, 2009, 921, 51-57.	3.6	7
21	Synthesis, characterization and molecular sensing capability of fac-[Re(CO) ₃ (î²-N,N-dpktsc)Cl] where dpktsc=di-2-pyridylketone thiosemicarbazone. Journal of Molecular Structure, 2009, 930, 65-71.	3.6	18
22	Molecular sensing behavior of di-2-pyridyl ketone p-aminophenylhydrazone hydrate (dpkabh·H ₂ O) in non-aqueous media. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2009, 72, 50-55.	3.9	10
23	Synthesis, characterization and molecular sensing behavior of [ZnCl ₂ (î³-N,N,O-dpkbh)] (dpkbh=di-2-pyridyl ketone benzoyl hydrazone). Journal of Molecular Structure, 2008, 873, 17-28.	3.6	51
24	X-ray crystallographic and molecular sensing properties of [(î²-N,N-î²-dpknph)] (dpknph=di-2-pyridyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	3.6	9
25	Synthesis, spectroscopy, thermodynamics and structure of [ZnCl ₂ (î³-dpktch)] (î³-dpktch=î³-N,N,O) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50	2.2	18
26	catena-Poly[[[aqua(propane-1,3-diamine-î²N,N-î²)copper(II)]-î¼-fumarato-î²O:Oâ²] monohydrate]. Acta Crystallographica Section E: Structure Reports Online, 2008, 64, m303-m304.	0.2	1
27	Synthesis and characterization of a cadmium-dichloro compound of <i>N</i>, <i>N</i> , <i>O</i> -di-2-pyridyl ketone thiophene-2-carboxylic acid hydrazone (î). Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50	2.2	25
	Coordination Chemistry, 2007, 60, 2385-2399.		
28	Molecular sensing behavior of di-2-pyridylketone-2-thenoylhydrazone (dpktah) in non-aqueous media. Journal of Molecular Structure, 2007, 833, 161-168.	3.6	7
29	7-Acetyl-12-methoxyhorminone from Jamaican Hyptis verticillata (Labiatae). Acta Crystallographica Section E: Structure Reports Online, 2006, 62, o306-o308.	0.2	3
30	Synthesis and structure of the first molybdenum compound of N,O,N-hydroxybis(2-pyridyl)methanolato (î³-dpkO,â²OH). The structure of [Mo(O) ₂ (î¼-O)(î) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	3.6	10
31	Molecular sensing behavior of the first Mn(II)-compound of di-2-pyridylketone-p-nitrophenylhydrazone (dpknph), fac-[Mn(CO) ₃ (dpknph)Br]. Inorganica Chimica Acta, 2005, 358, 1835-1840.	2.4	17
32	Monosaccharide optical sensor based on ruthenium(II)-bis(bipyridine) of 4-nitrophenyl-di-2-pyridyl ketone hydrazone (dpknph), [Ru(bipy) ₂ (dpknph)]Cl ₂ . Journal of Molecular Structure, 2005, 753, 35-39.	3.6	17
33	Polymorphic di-2-pyridyl ketone 4-nitrophenylhydrazone (dpknph): the structure of î²-dpknph. Acta Crystallographica Section C: Crystal Structure Communications, 2005, 61, o607-o609.	0.4	2
34	5-[(4-Methylphenyl)diazenyl]salicylaldehyde. Acta Crystallographica Section E: Structure Reports Online, 2005, 61, o1611-o1613.	0.2	2
35	Porous solvent-free î¼-bis(salicylidene)propane-1,3-diaminato-bis{[bis(salicylidene)propane-1,3-diaminato]iron(III)}. Acta Crystallographica Section E: Structure Reports Online, 2005, 61, m1464-m1466.	0.2	1
36	Mikanolide from Jamaican Mikania micrantha. Acta Crystallographica Section C: Crystal Structure Communications, 2004, 60, o798-o800.	0.4	17

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37	trans-Bis(glycinato- λ^2 N,O)copper(II) 4-bromophenol solvate. Acta Crystallographica Section E: Structure Reports Online, 2004, 60, m868-m870.	0.2	3
38	cis-Dicarbonyl(hydroxydi-2-pyridylmethanolato- λ^3 N,O, λ^2)(triphenylphosphine- λ^1 P)rhenium(I) dimethyl sulfoxide hemisolvate. Acta Crystallographica Section E: Structure Reports Online, 2004, 60, m1966-m1969.	0.2	1
39	X-ray crystallographic, spectroscopic and molecular sensing properties of fac-tricarbonylchloro(di-2-pyridylketonebenzoylhydrazone)rhenium(I) dimethylformamide solvate. Journal of Molecular Structure, 2004, 691, 265-272.	3.6	14
40	X-ray crystallographic, electrochemical and spectroscopic properties of 2-pyridinio 2-pyridyl ketone phenyl hydrazone chloride hydrate. Journal of Molecular Structure, 2004, 688, 213-222.	3.6	42
41	Nuclear magnetic resonance and optosensing properties of di-2-thienyl ketone p-nitrophenylhydrazone (DSKNPH) in non-aqueous media. Talanta, 2004, 62, 781-789.	5.5	6
42	Optical, electrochemical and structural studies of the first rhenium compound of di-2-pyridylketone benzoylhydrazone (dpkbz) fac-Re(CO) ₃ (dpkbh)Cl. Inorganica Chimica Acta, 2003, 353, 89-98.	2.4	18
43	Structural, electrochemical and optical properties of di-2-pyridyl ketone 2-furoic acid hydrazone (dpkfah). Journal of Molecular Structure, 2003, 649, 133-142.	3.6	16
44	Manganese carbonyl compounds of N,N-bidentate di-2-pyridylketone (dpk) and N,O,N-tridentate hydroxybis(2-pyridyl)methanolato (dpkO,OH). The structure of fac-[Mn(CO) ₃ (dpkO,OH)]. Journal of Molecular Structure, 2003, 657, 75-83.	3.6	20
45	Optosensing behavior of the first Ru(II)-compound of di-2-pyridylketone- p -nitrophenylhydrazone (dpknph), [Ru(bpy) ₂ (dpknph)]Cl ₂ . Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2003, 59, 2123-2129.	3.9	13
46	Optosensing properties of fac-Re(CO) ₃ (dpknph)Cl (dpknph=di-2-pyridyl ketone p-nitrophenyl hydrazone) toward chemotactic N-formylamino acids. Talanta, 2002, 56, 1117-1121.	5.5	17
47	Synthesis, Characterization and Structural Studies on the First Rhenium Complex with Di(2-pyridyl) Ketone 2,4-Dinitrophenylhydrazone (dpkdnph),fac-[Re(CO) ₃ (dpkdnph)Cl]. European Journal of Inorganic Chemistry, 2002, 2002, 481-486.	2.0	22
48	fac-Tricarbonyl[hydroxybis(2-pyridyl)methanolato- λ^3 N,O, λ^2]rhenium(I). Acta Crystallographica Section C: Crystal Structure Communications, 2002, 58, m74-m76.	0.4	5
49	Di-2-pyridyl ketonep-aminobenzoylhydrazone hydrate. Acta Crystallographica Section C: Crystal Structure Communications, 2002, 58, o263-o265.	0.4	12
50	Molecular structure and optosensing behavior of di-2-pyridyl ketone benzoylhydrazone in non-aqueous solvents. Journal of Molecular Structure, 2002, 609, 129-136.	3.6	23
51	X-ray crystallographic and optosensing studies of di-2-pyridyl ketone p-nitrophenylhydrazone (dpknph) in dimethylsulfoxide (dms). Journal of Molecular Structure, 2002, 641, 183-191.	3.6	18
52	Optical, electrochemical and structural studies on the first rhenium compound of di-2-pyridylketonephenylhydrazone (dpkphh), fac-Re(CO) ₃ (dpkphh)Cl. Inorganica Chimica Acta, 2002, 332, 1-6.	2.4	24
53	The first pyridylN, λ^2 -coordinated di-2-pyridyl ketone oxime,fac-tricarbonylchloro(di-2-pyridyl ketone) Tj ETQq1 1 0.784314 rgBT /Over Communications, 2001, 57, 1154-1156.	0.4	7
54	The optical sensorfac-tricarbonylchloro(di-2-pyridylmethanolonep-nitrophenylhydrazone)rhenium(I) dimethyl sulfoxide solvate. Acta Crystallographica Section C: Crystal Structure Communications, 2001, 57, 1371-1373.	0.4	8

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55	Optosensing properties of fac-Re(CO) ₃ (dpknph)Cl (dpknph=di-2-pyridyl ketone p-nitrophenyl) Tj ETQq1 1 0.784314 rgBT /Overlock 107	5.5	27
56	Electrochemical properties of the first Re(I) carbonyl compound of di-2-pyridyl ketone.oxime (dpk.oxime), fac-Re(CO) ₃ (dpk.oxime)Cl, in non-aqueous media. Journal of Electroanalytical Chemistry, 1999, 466, 60-66.	3.8	64
57	Electro-optical properties of the first rhenium-hydrazone complex, fac-Re(CO) ₃ (dpknph)*Cl. Transition Metal Chemistry, 1999, 24, 384-388.	1.4	36
58	Nitrogen atom transfer and redox chemistry of terpyridyl phosphoraniminato complexes of osmium (IV). Inorganica Chimica Acta, 1998, 270, 511-526.	2.4	46
59	Rhenium(I) di- and tri-carbonyl compounds of polypyridyl-like ligands: electrochemical reactions of fac-[Re(CO) ₃ (dpk)Cl] (dpk= di-2-pyridyl ketone) with electrophiles and Group I and II metal ions. Journal of the Chemical Society Dalton Transactions, 1997, , 3571.	1.1	60
60	Electrochemical reactions of CO ₂ with fac-Re(dpk)(CO) ₃ Cl (dpk = di-2-pyridyl ketone). Journal of Electroanalytical Chemistry, 1997, 425, 61-66.	3.8	47
61	The first rhenium(V)-imido compounds containing two chelating phosphine ligands of the type trans-[Re(NPh)X(L-L) ₂] ²⁺ (L-L = bidentate phosphine ligand; X = halide or hydroxide). The structure of trans-[Re(NPh)(OH)(dppbe) ₂] (ClO ₄) ₂ ·2H ₂ O. Inorganica Chimica Acta, 1997, 254, 9-17.	2.4	7
62	Coordination Chemistry in Thin Polymeric Films of poly-[Fe(vbpy) ₂ (CN) ₂],poly-vbpy. Binding and Reduction of [Rh(COD)Cl] and PdCl ₂ . Chemistry of Materials, 1996, 8, 2461-2467.	6.7	8
63	Synthesis and characterization of phenylimidorhenium(V) compounds containing polypyridyl ligands. Crystal structures of mer-[Re(NPh)Cl ₃ (bipy)], trans-[Re(NPh)(OEt)(bipy) ₂][PF ₆] ₂ and trans-[Re(NPh)Cl ₂ (terpy)]PF ₆ (bipy = 2,2'-bipyridine, terpy = 2,2':6',2''-terpyridine). Journal of the Chemical Society Dalton Transactions, 1995, , 1733-1738.	1.1	11
64	Binding and Reduction of Silver Ions in Thin Polymeric Films of poly-[Fe(vbpy) ₂ (CN) ₂],poly-vbpy. Inorganic Chemistry, 1994, 33, 3945-3951.	4.0	12
65	Unusual stabilization of trans-2,2'-bipyridine ligands in a rhenium(V) phenylimido complex. Inorganic Chemistry, 1992, 31, 1127-1129.	4.0	39
66	Preparation of phosphoraniminato complexes containing polypyridyl ligands. Nitrogen atom transfer from dichloronitrido(terpyridine)osmium(1+). Inorganic Chemistry, 1991, 30, 2835-2836.	4.0	55
67	Photophysics and photochemistry of rhenium(V)-nitrogen triple bonds. Coordination Chemistry Reviews, 1991, 111, 27-32.	18.8	31
68	Metal-mediated reduction of alkanenitriles to imido ligands. Formation of the imido complexes Re(NCH ₂ R)X ₃ (dppbe) (R = Me, Et, iso-Pr; X = Cl, Br) from the reactions of the octahalodirhenate(III) anions with 1,2-bis(diphenylphosphino)benzene in nitrile solvents (RCN). Inorganic Chemistry, 1990, 29, 2055-2061.	4.0	27
69	Reversible interconversion between a nitrido complex of osmium(VI) and an ammine complex of osmium(II). Journal of the American Chemical Society, 1990, 112, 5507-5514.	13.7	91
70	Complexes of the type Mo ₂ (O ₂ CR) ₂ X ₂ (L-L) in which the bidentate phosphine ligands L-L straddle the Mo-Mo bond. Polyhedron, 1988, 7, 1279-1284.	2.2	10
71	Studies on the .alpha. and .beta. isomers of complexes of the type Re ₂ X ₄ (LL) ₂ . Structural characterization of .alpha.- and .beta.-bis[cis-bis(diphenylphosphino)ethene]tetrachlorodirhenium. Inorganic Chemistry, 1988, 27, 2460-2466.	4.0	17
72	Dimolybdenum(II) complexes that contain the ligand cis-1,2-bis(diphenylphosphino)ethene (dppee). Synthesis and characterization of the .alpha.- and .beta.-isomers of Mo ₂ X ₄ (dppee) ₂ (X = Cl, Br). Inorganic Chemistry, 1988, 27, 4197-4202.	4.0	12

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73	Molybdenum complexes of 1,2-bis(diphenylphosphino)benzene. Mononuclear molybdenum(II) species formed by facile metal-metal bond cleavage of the (Mo ₄ -MO) ⁴⁺ core. <i>Inorganic Chemistry</i> , 1988, 27, 2608-2612.	4.0	13
74	Reduction of nitriles to imido-species by quadruply bonded dirhenium(III) complexes. <i>Inorganic Chemistry</i> , 1988, 27, 2016-2017.	4.0	21
75	Isolation of the complexes (n-Bu ₄ N) ₂ [(Re ₂ Cl ₇) ₂ { μ -1/4-(L ⁻ -L)}], where L ⁻ -L = Ph ₂ PCl-1/4CPh ₂ or trans-Ph ₂ PCH ₂ -CHPh ₂ . The first examples of quadruply bonded dirhenium(III) anions of the type [Re ₂ Cl ₇ L] ⁻ . <i>Polyhedron</i> , 1987, 6, 1925-1927.	2.2	6
76	The isolation and characterization of the first examples of pairs of μ - and μ -isomers of dirhenium(II) of type Re ₂ X ₄ (LL) ₂ (X = Cl or Br, LL = bidentate phosphine ligand). <i>Polyhedron</i> , 1987, 6, 1483-1489.	2.2	8
77	Mononuclear rhenium(III) and rhenium(II) complexes of 1,2-bis(diphenylphosphino)ethylene: The structure of trans-ReCl ₂ (dppee) ₂ . <i>Polyhedron</i> , 1987, 6, 907-913.	2.2	30