IsraÃ«l Martyr Mbomekalle

List of Publications by Year
in descending order

88 papers	2,493 citations	172457 29 h-index	214800 47 g-index
96 all docs	96 docs citations	96 times ranked	1788 citing authors

#	Article	IF	Citations
1	Iron Polyoxometalate Singleâ€Molecule Magnets. Angewandte Chemie - International Edition, 2009, 48, 3077-3081.	13.8	185
2	Structure, Magnetism, and Electrochemistry of the Multinickel Polyoxoanions [Ni6As3W24O94(H2O)2]17-, [Ni3Na(H2O)2(AsW9O34)2]11-, and [Ni4Mn2P3W24O94(H2O)2]17-. Inorganic Chemistry, 2003, 42, 5143-5152.	4.0	156
3	Multi-Iron Tungstodiarsenates. Synthesis, Characterization, and Electrocatalytic Studies of Î±Î²Î²Î±-(FeIIIOH2)2FeIII2(As2W15O56)212-. Inorganic Chemistry, 2003, 42, 1163-1169.	4.0	103
4	Sandwich-Type Phosphotungstates:Â Structure, Electrochemistry, and Magnetism of the Trinickel-Substituted Polyoxoanion [Ni3Na(H2O)2(PW9O34)2]11-. Inorganic Chemistry, 2002, 41, 6412-6416.	4.0	89
5	Simple, high yield and reagent-saving synthesis of pure Î±-K6P2W18O62Â·14H2O. Inorganic Chemistry Communication, 2004, 7, 86-90.	3.9	77
6	Polyoxometalates Functionalized by Bisphosphonate Ligands: Synthesis, Structural, Magnetic, and Spectroscopic Characterizations and Activity on Tumor Cell Lines. Inorganic Chemistry, 2012, 51, 7921-7931.	4.0	74
7	[H4AsW18O62]7â^', A novel Dawson heteropolyanion and two of its sandwich-type derivatives [Zn4(H2O)2(H4AsW15O56)2]18â^', [Cu4(H2O)2(H4AsW15O56)2]18â^': cyclic voltammetry and electrocatalytic properties towards nitrite and nitrate. Electrochemistry Communications, 2001, 3, 267-273.	4.7	64
8	Dual Photochromic/Electrochromic Compounds Based On Cationic Spiropyrans and Polyoxometalates. Chemistry - A European Journal, 2010, 16, 5572-5576.	3.3	63
9	Multi-Iron Wellsâ^'Dawson Heteropolytungstates. Electrochemical Probing of Siderophoric Behavior in Sandwich-Type Complexes. Inorganic Chemistry, 2004, 43, 3257-3263.	4.0	60
10	Structural, Magnetic, EPR, and Electrochemical Characterizations of a Spin-Frustrated Trinuclear Cr^{III}Polyoxometalate and Study of Its Reactivity with Lanthanum Cations. Inorganic Chemistry, 2010, 49, 2851-2858.	4.0	60
11	Influence of the Heteroatom Size on the Redox Potentials of Selected Polyoxoanions. Inorganic Chemistry, 2010, 49, 7001-7006.	4.0	58
12	Tuning the Photochromic Properties of Molybdenum Bisphosphonate Polyoxometalates. Inorganic Chemistry, 2012, 51, 2291-2302.	4.0	57
13	Electron Transfer Behavior of Multi-Iron Sandwich-Type Polyoxometalates and Electrocatalytic Reduction Reactions. European Journal of Inorganic Chemistry, 2004, 2004, 3462-3475.	2.0	52
14	Redox behaviours and electrocatalytic properties of copper within Dawson structure-derived sandwich heteropolyanions [Cu4(H2O)2(X2W15O56)2]16â^' (X=P or As). Electrochemistry Communications, 2003, 5, 830-837.	4.7	50
15	Tuning the formal potentials of new VIV-substituted Dawson-type polyoxometalates for facile synthesis of metal nanoparticles. Electrochemistry Communications, 2004, 6, 978-983.	4.7	49
16	Photoreduction of⁹⁹Tc Pertechnetate by Nanometer-Sized Metal Oxides: New Strategies for Formation and Sequestration of Low-Valent Technetium. Journal of the American Chemical Society, 2011, 133, 18802-18815.	13.7	49
17	Manganous heteropolytungstates. Synthesis and heteroatom effects in Wellsâ€"Dawson-derived sandwich complexes. Dalton Transactions, 2003, , 2646-2650.	3.3	46
18	High nuclearity Ni/Co polyoxometalates and colloidal TiO₂assemblies as efficient multielectron photocatalysts under visible or sunlight irradiation. Journal of Materials Chemistry, 2011, 21, 645-650.	6.7	46

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19	Poly(ionic liquid) and macrocyclic polyoxometalate ionic self-assemblies: new water-insoluble and visible light photosensitive catalysts. Journal of Materials Chemistry, 2012, 22, 319-323.	6.7	44
20	Investigation of Multi-Nickel-Substituted Tungstophosphates and Their Stability and Electrocatalytic Properties in Aqueous Media. European Journal of Inorganic Chemistry, 2004, 2004, 2036-2044.	2.0	43
21	Self-Assembly of Polyoxometalate Macroanion-Capped Pd0 Nanoparticles in Aqueous Solution. Langmuir, 2008, 24, 5277-5283.	3.5	43
22	Two New Sandwich-Type Manganese {Mn5}-Substituted Polyoxotungstates: Syntheses, Crystal Structures, Electrochemistry, and Magnetic Properties. Inorganic Chemistry, 2017, 56, 8759-8767.	4.0	43
23	Synthesis, structural characterization, and electrocatalytic studies of Î±Î²Î²Î±-(ZnIIOH2)2(FeIII)2(X2W15O56)214â€“ (X = P or As). Comptes Rendus Chimie, 2005, 8, 1077-1086.	0.5	41
24	Red phosphorescent organic light-emitting diodes (PhOLEDs) based on a heteroleptic cyclometalated Iridium (III) complex. Journal of Luminescence, 2013, 143, 145-149.	3.1	38
25	Tuning the Dimensionality of Polyoxometalate-Based Materials by Using a Mixture of Ligands. Crystal Growth and Design, 2015, 15, 449-456.	3.0	35
26	Confirmation of the Semivacant Wellsâ€“Dawson Polyoxotungstate Skeleton. The Structures of [Ce{X(H4)W17O61}2]19-(X = P, As) Indicate the Probable Location of Internal Protons. Inorganic Chemistry, 2005, 44, 169-171.	4.0	32
27	Oxothiomolybdenum Derivatives of the Superlacunary Crown Heteropolyanion {P₈W₄₈}: Structure of [K₄{Mo₄O₄S₄(H₂O)₃(OH)₂}₂[and Studies in Solution. Inorganic Chemistry, 2012, 51, 2349-2358.	4.0	32
28	Vanadium-substituted Dawson-type polyoxometalates as versatile electrocatalysts. Comptes Rendus Chimie, 2005, 8, 1057-1066.	0.5	31
29	Pd0@Polyoxometalate Nanostructures as Green Electrocatalysts: Illustrative Example of Hydrogen Production. Materials, 2010, 3, 741-754.	2.9	31
30	Electrochemical Behavior of Î±₁/Î±₂-[Fe(H₂O)P₂W₁₇O₆₁]^{7â€“} Isomers in Solution: Experimental and DFT Studies. Inorganic Chemistry, 2012, 51, 6129-6138.	4.0	31
31	Tetradecanuclear Iron(III)-Oxo Nanoclusters Stabilized by Trilacunary Heteropolyanions. Inorganic Chemistry, 2015, 54, 6136-6146.	4.0	29
32	Rationalization and improvement of the syntheses of two octadecatungstoarsenates: the novel Î±-K7[H4AsW18O62]Â·18H2O and the well known symmetrical Î±-K6[As2W18O62]Â·14H2O. Inorganica Chimica Acta, 2003, 342, 219-228.	2.4	28
33	Synthesis, Characterization and Electrochemistry of the Novel Dawson-Type Tungstophosphate [H4PW18O62]7â€“ and First Transition Metal Ions Derivatives. European Journal of Inorganic Chemistry, 2004, 2004, 276-285.	2.0	28
34	One-step synthesis and stabilization of gold nanoparticles in water with the simple oxothiometalate Na2[Mo3(Î¼3-S)(Î¼-S)3(Hnta)3]. Journal of Materials Chemistry, 2008, 18, 3196.	6.7	26
35	Attempts to immobilize catalytically active substituted-heteropolytungstates in multilayer film of charged polyelectrolyte poly(allylamine hydrochloride). Journal of Electroanalytical Chemistry, 2010, 645, 65-73.	3.8	25
36	[As8W48O184]40â€“, a new crown-shaped heteropolyanion: Electrochemistry and electrocatalytic properties towards reduction of nitrite. Electrochimica Acta, 2010, 55, 3118-3122.	5.2	24

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37	⁹⁹Tc and Re Incorporated into Metal Oxide Polyoxometalates: Oxidation State Stability Elucidated by Electrochemistry and Theory. Inorganic Chemistry, 2012, 51, 9017-9028.	4.0	24
38	Semi-vacant Wellsâ€“Dawson anions. Synthesis of tri-tungsten-vacant derivatives and crystallographic studies of [Î±Î²Î²Î±-(CuIIOH2)2(CuII)2(AsW15(OH2)3(OH)O52)2]12â». Dalton Transactions, 2004, , 4094-4095.	3.3	23
39	Rational Synthesis, Structure, Magnetism and Electrochemistry of Mixed Ironâ€“Nickelâ€Containing Wellsâ€“Dawsonâ€Fragmentâ€Based Sandwichâ€Type Polyoxometalates. European Journal of Inorganic Chemistry, 2009, 2009, 5194-5204.	2.0	23
40	Manganese(III)-Containing Wellsâ€“Dawson Sandwich-Type Polyoxometalates: Comparison with their Manganese(II) Counterparts. Inorganic Chemistry, 2011, 50, 6437-6448.	4.0	23
41	Understanding polyoxometalates as water oxidation catalysts through iron vs. cobalt reactivity. Chemical Science, 2021, 12, 8755-8766.	7.4	23
42	Synthesis, Structure Elucidation, and Redox Properties of⁹⁹Tc Complexes of Lacunary Wellsâ»Dawson Polyoxometalates: Insights into Molecular⁹⁹Tcâ»Metal Oxide Interactions. Inorganic Chemistry, 2011, 50, 1670-1681.	4.0	22
43	Carbon nanotube-polyoxometalate nanohybrids as efficient electro-catalysts for the hydrogen evolution reaction. Carbon, 2022, 188, 523-532.	10.3	20
44	Structural and Electrochemical Studies of Dicupric Wellsâ€“Dawson Sandwich-Type Complexes. Journal of Cluster Science, 2006, 17, 183-195.	3.3	19
45	Cyclic Voltammetry Study of the Mnâ€Substituted Polyoxoanions [Mn^{II}₄(H₂O)₂(H₄AsW₁₅O₅₆)₂/s and [((Mn^{II}OH₂)Mn^{II}₂PW₉O₃₄)₂(PW₆	2.9	18
46	Electrodeposition of Manganese Oxides Electrocatalysts for Dioxygen Reduction. Electroanalysis, 2011, 23, 1427-1434. Electrochemical behaviour of mixed d metal-iron containing Wells-Dawson sandwich-type complexes: [(FeOH2)2M2(X2W15O56)2]â» and [(MOH2)2Fe2(X2W15O56)2]â» (M = CrIII, MnIII, MnII, CoII, NiII, CuII, ZnII, X = P	5.2	18
47	Synthesis, Structure, and Magnetic Electrochemical Properties of a Family of Tungstoarsenates Containing Just CoII Centers or Both CoII and FeIII Centers. Inorganic Chemistry, 2017, 56, 1999-2012.	4.0	18
48	Activity evaluation of carbon paste electrodes loaded with pt nanoparticles prepared in different radiolytic conditions. Journal of Solid State Electrochemistry, 2006, 10, 506-511.	2.5	17
49	Electrochemical behavior and electrocatalytic properties towards hydrogen peroxide, dioxygen and nitrate of the polyanions [(NiIIOH2)2(FeIII)2(X2W15O56)2]14â» (X=PV or AsV): A comparative study. Journal of Electroanalytical Chemistry, 2010, 647, 97-102.	3.8	17
50	pH-modulated ion transport and amplified redox response of Keggin-type polyoxometalates through vertically-oriented mesoporous silica nanochannels. Electrochimica Acta, 2019, 309, 209-218.	5.2	17
51	Syntheses, crystal structure, electrochemistry and luminescence properties of lanthanoâ€“germanotungstates. RSC Advances, 2015, 5, 99754-99765.	3.6	16
52	Preparation of Î±₁- and Î±₂-isomers of mono-Ru-substituted Dawson-type phosphotungstates with an aqua ligand and comparison of their redox potentials, catalytic activities, and thermal stabilities with Keggin-type derivatives. Dalton Transactions, 2016, 45, 3715-3726.	3.3	16
53	Heptanickel(<scp>ii</scp>) double-cubane core in wells-dawson heteropolytungstate, [Ni₇(OH)₆(H₂O)₆(P₂W₁₅O₅₆)₂/sub>)₂/ Chemical Communications, 2016, 52, 2601-2604.	4.1	16
54	Direct and improved synthesis of the tri-nickel sandwich-type polyoxoanion [Ni3Na(H2O)2(PW9O34)2]11â». Inorganic Chemistry Communication, 2003, 6, 435-438.	3.9	15

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55	Synthesis and Electrochemistry of the Monolacunary Dawson-Type Tungstoarsenate [H4AsW17O61]11â^' and Some First-Row Transition-Metal Ion Derivatives. European Journal of Inorganic Chemistry, 2004, 2004, 4132-4139.	2.0	15
56	Phosphomolybdate@Carbon-Based Nanocomposites as Electrocatalysts for Oxygen Reduction Reaction. ChemistrySelect, 2016, 1, 6257-6266.	1.5	15
57	Molybdenum Bisphosphonates with Cr(III) or Mn(III) Ions. Journal of Cluster Science, 2014, 25, 795-809.	3.3	12
58	Improved Synthesis, Structure, and Solution Characterization of the Cyclic 48-Tungsto-8-Arsenate(V), [H4As8W48O184]36â^'. Journal of Cluster Science, 2014, 25, 277-285.	3.3	12
59	Effect of Electron (De)localization and Pairing in the Electrochemistry of Polyoxometalates: Study of Wellsâ€“Dawson Molybdotungstophosphate Derivatives. Inorganic Chemistry, 2014, 53, 5941-5949.	4.0	12
60	Synthesis, Crystal Structure, Electrochemistry and Electro-Catalytic Properties of the Manganese-Containing Polyoxotungstate, [(Mn(H2O)3)2(H2W12O42)]6â^'. Inorganics, 2019, 7, 15.	2.7	12
61	Encapsulated-polyoxometalates in surfactant/silica gel hybrid films: Electrochemical behavior and main characteristics. Electrochimica Acta, 2010, 55, 3213-3222.	5.2	11
62	Green Wet Chemical Route for the Synthesis of Silver and Palladium Dendrites. European Journal of Inorganic Chemistry, 2011, 2011, 1201-1204.	2.0	11
63	{AsW9O33}â€“{Mo3S4} based polyoxometalates including a metalâ€“metal bond with Pd or Ni. Synthesis, structure and studies in solution. Dalton Transactions, 2012, 41, 3174.	3.3	11
64	CrIII-Substituted Heteropoly-16-Tungstates [CrIII2(B-Î²-XIVW8O31)2]14â€“ (X = Si, Ge): Magnetic, Biological, and Electrochemical Studies. Inorganic Chemistry, 2016, 55, 10936-10946.	4.0	11
65	Reactions of V-Substituted Polyoxometalates with L-Cysteine. Journal of Cluster Science, 2006, 17, 221-233.	3.3	10
66	Syntheses, Crystal Structure, Electrocatalytic, and Magnetic Properties of the Monolanthanide-Containing Germanotungstates [Ln(H₂O)_nGeW₁₁O₃₉]^{5â€“} (Ln = Dy,) Tj ETQq0 0 0 rgBT /Ove	3.5	10
67	Electrocatalytic Reduction of O2 by a Cu(II)-Substituted Electron-Rich Wheel-Type Oxomolybdate Nanocluster. Journal of Cluster Science, 2006, 17, 333-348.	3.3	8
68	Synthesis and Characterisation of the Europium (III) Dimolybdo-Enneatungsto-Silicate Dimer, [Eu(Î±-SiW9Mo2O39)2]13â^'. Inorganics, 2015, 3, 341-354.	2.7	8
69	183W INADEQUATE 2D NMR Spectroscopy of Hetero Arsenatoâ€“Phosphatoâ€“Tungstate PV/AsV Substitution in Dawson-Type Î±-[AsxP2â€“xW18O62]6â€“ (x = 0â€“2) and Î±-[H4AsyP1â€“yW18O62]7â€“ (y = 0,1). Inorganic Chemistry, 2014, 53, 5568-5574.	4.0	7
70	Synthesis, structure and electrochemical characterization of an isopolytungstate (W₄O₁₆) held by Mn^{II} anchors within a superlacunary crown heteropolyanion {P₈W₄₈}. Dalton Transactions, 2019, 48, 15545-15552.	3.3	7
71	Synthesis, characterization and electrocatalytic behaviors of Î±-K 6 [As 2 W 12 Mo 6 O 62] Â· 12H 2 O. Inorganic Chemistry Communication, 2004, 7, 893-898.	3.9	6
72	Crystallographic Studies of a Molybdenum-Rich Diarsenotungstate and Reaction of FeIII with Its Isomerically Pure?1- and ?2-Monolacunary Derivatives. European Journal of Inorganic Chemistry, 2005, 2005, 1547-1551.	2.0	6

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73	Comparison between Lacunary and Saturated Keggin Polyoxometalates as Steel Corrosion Inhibitors in Chloride Solution: Contribution of the Lacuna in the Inhibition Mechanism. ChemistrySelect, 2020, 5, 10135-10143.	1.5	4
74	Synthesis, Structure and Electrochemistry of the Dinickel(II)-Containing 30-Tungsto-4-Phosphate [Ni2Na2(H2O)2(P2W15O56)2]18-. Current Inorganic Chemistry, 2018, 7, 21-27.	0.2	4
75	Permeability of Dawsonâ€“type polyoxometalates through vertically oriented nanoporous silica membranes on electrode: Effect of pore size and probe charge. Electrochimica Acta, 2020, 353, 136577.	5.2	3
76	Synergetic Effects of Mixed-Metal Polyoxometalates@Carbon-Based Composites as Electrocatalysts for the Oxygen Reduction and the Oxygen Evolution Reactions. Catalysts, 2022, 12, 440.	3.5	3
77	A channeled 3D structure of a new polyoxometalate-based triiron(III) cluster: Synthesis, crystal structure and electrochemical properties. Polyhedron, 2017, 130, 18-22.	2.2	2
78	Synthesis, Characterization, Electrochemistry, Photoluminescence and Magnetic Properties of a Dinuclear Erbium(III)-Containing Monolacunary Dawson-Type Tungstophosphate: [{Er(H2O)(CH3COO)(P2W17O61)}2]16â^'. Molecules, 2020, 25, 4229.	3.8	2
79	Tetrameric Lanthanideâ€Substituted Silicotungstate {Ln 8 Si 4 W 40 } Nanoclusters: Synthesis, Structural Characterization, Electrochemistry, and Catalytic Application for Oxidation of Thioethers. European Journal of Inorganic Chemistry, 2021, 2021, 1071-1081.	2.0	2
80	Investigation of Multi-Nickel-Substituted Tungstophosphates and Their Stability and Electrocatalytic Properties in Aqueous Media.. ChemInform, 2004, 35, no.	0.0	1
81	Electrochemical, Electrocatalytic, and Magnetic Properties of Vanadium-Containing Polyoxometalates. Magnetochemistry, 2021, 7, 157.	2.4	1
82	Sandwich-Type Phosphotungstates: Structure, Electrochemistry, and Magnetism of the Trinickel-Substituted Polyoxoanion [Ni3Na(H2O)2 (PW9O34)2]11-.. ChemInform, 2003, 34, no.	0.0	0
83	Multi-Iron Tungstodiarsenates. Synthesis, Characterization, and Electrocatalytic Studies of Î±Î²Î²Î±-(FeIIIOH2)2Fe2III (As2W15O56)212-.. ChemInform, 2003, 34, no.	0.0	0
84	Structure, Magnetism, and Electrochemistry of the Multinickel Polyoxoanions [Ni6As3W24O94 (H2O)2]17-, [Ni3Na(H2O)2 (AsW9O34)2]11-, and [Ni4Mn2P3W24O94 (H2O)2]17-.. ChemInform, 2003, 34, no.	0.0	0
85	Synthesis and Electrochemistry of the Monolacunary Dawson-Type Tungstoarsenate [H4AsW17O61]11- and Some First-Row Transition-Metal Ion Derivatives.. ChemInform, 2004, 35, no.	0.0	0
86	Confirmation of the Semivacant Wells?Dawson Polyoxotungstate Skeleton. The Structure of [Ce{X(H4)W17O61}2]19- (X: P, As) Indicate the Probable Location of Internal Protons.. ChemInform, 2005, 36, no.	0.0	0
87	Crystallographic Studies of a Molybdenum-Rich Diarsenotungstate and Reaction of FeIII with Its Isomerically Pure Î±1- and Î±2-Monolacunary Derivatives.. ChemInform, 2005, 36, no.	0.0	0
88	A tetrameric praseodymium substituted arsenotungstate (III) â€“ Synthesis & characterization, electrochemistry, catalytic and its magnetic applications. Polyhedron, 2022, 216, 115698.	2.2	0