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	Carbon nanotube-polyoxometalate nanohybrids as efficient electro-catalysts for the hydrogen evolution reaction. Carbon, 2022, 188, 523-532.	10.3	20
2	A tetrameric praseodymium substituted arsenotungstate (III) â€“ Synthesis & characterization, electrochemistry, catalytic and its magnetic applications. Polyhedron, 2022, 216, 115698.	2.2	0
3	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
4	Understanding polyoxometalates as water oxidation catalysts through iron vs. cobalt reactivity. Chemical Science, 2021, 12, 8755-8766.	7.4	23
5	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
6	Electrochemical, Electrocatalytic, and Magnetic Properties of Vanadium-Containing Polyoxometalates. Magnetochemistry, 2021, 7, 157.	2.4	1
7	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
8	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
9	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
10	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
11	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
12	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
13	Syntheses, Crystal Structure, Electrocatalytic, and Magnetic Properties of the Monolanthanide-Containing Germanotungstates [Ln(H₂O)_nGeW₁₁O₃₉]^{5â€“} (Ln = Dy,) Tj ETQq1 1 0.784314 rg	3.5	19
14	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
15	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
16	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
17	Two New Sandwich-Type Manganese {Mn5}-Substituted Polyoxotungstates: Syntheses, Crystal Structures, Electrochemistry, and Magnetic Properties. Inorganic Chemistry, 2017, 56, 8759-8767.	4.0	43
18	Phosphomolybdate@Carbon-Based Nanocomposites as Electrocatalysts for Oxygen Reduction Reaction. ChemistrySelect, 2016, 1, 6257-6266.	1.5	15

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19	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
20	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
21	Heptanickel(<scp>ii</scp>) double-cubane core in wells-dawson heteropolytungstate, [Ni₇(OH)₆(H₂O)₆(P₂W₁₅O₅₆)₂... Chemical Communications, 2016, 52, 2601-2604.	6.1	16
22	Synthesis and Characterisation of the Europium (III) Dimolybdo-Enneatungsto-Silicate Dimer, [Eu(Î±-SiW9Mo2O39)2]13â^'. Inorganics, 2015, 3, 341-354.	2.7	8
23	Tetradecanuclear Iron(III)-Oxo Nanoclusters Stabilized by Trilacunary Heteropolyanions. Inorganic Chemistry, 2015, 54, 6136-6146.	4.0	29
24	Syntheses, crystal structure, electrochemistry and luminescence properties of lanthanoâ€“germanotungstates. RSC Advances, 2015, 5, 99754-99765.	3.6	16
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	Molybdenum Bisphosphonates with Cr(III) or Mn(III) Ions. Journal of Cluster Science, 2014, 25, 795-809.	3.3	12
27	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 = S...	5.2	18
28	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
29	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 = 0,4,1)... Inorganic Chemistry, 2014, 53, 5568-5574.	4.0	7
30	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
31	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
32	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
33	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
34	Tuning the Photochromic Properties of Molybdenum Bisphosphonate Polyoxometalates. Inorganic Chemistry, 2012, 51, 2291-2302.	4.0	57
35	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
36	{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

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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	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
39	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
40	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
41	Manganese(III)-Containing Wellsâ€“Dawson Sandwich-Type Polyoxometalates: Comparison with their Manganese(II) Counterparts. Inorganic Chemistry, 2011, 50, 6437-6448.	4.0	23
42	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
43	Green Wet Chemical Route for the Synthesis of Silver and Palladium Dendrites. European Journal of Inorganic Chemistry, 2011, 2011, 1201-1204.	2.0	11
44	Cyclic Voltammetry Study of the Mnâ€Substituted Polyoxoanions [Mn^{II}₄(H₂O)₂(H₄AsW₁₅O₅₆)₂and [((Mn^{II}OH₂)Mn^{II}₂PW₉O₃₄)₂(PW₆Electrodeposition of Manganese Oxides Electrocatalysts for Dioxygen Reduction. Electroanalysis, 2011, 23, 1427-1434.	2.9	18
45	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
46	Dual Photochromic/Electrochromic Compounds Based On Cationic Spiropyrans and Polyoxometalates. Chemistry - A European Journal, 2010, 16, 5572-5576.	3.3	63
47	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
48	Encapsulated-polyoxometalates in surfactant/silica gel hybrid films: Electrochemical behavior and main characteristics. Electrochimica Acta, 2010, 55, 3213-3222.	5.2	11
49	[As8W48O184]40â^', a new crown-shaped heteropolyanion: Electrochemistry and electrocatalytic properties towards reduction of nitrite. Electrochimica Acta, 2010, 55, 3118-3122.	5.2	24
50	Influence of the Heteroatom Size on the Redox Potentials of Selected Polyoxoanions. Inorganic Chemistry, 2010, 49, 7001-7006.	4.0	58
51	Pd0@Polyoxometalate Nanostructures as Green Electrocatalysts: Illustrative Example of Hydrogen Production. Materials, 2010, 3, 741-754.	2.9	31
52	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
53	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
54	Iron Polyoxometalate Singleâ€Molecule Magnets. Angewandte Chemie - International Edition, 2009, 48, 3077-3081.	13.8	185

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55	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
56	Self-Assembly of Polyoxometalate Macroanion-Capped Pd0 Nanoparticles in Aqueous Solution. Langmuir, 2008, 24, 5277-5283.	3.5	43
57	Reactions of V-Substituted Polyoxometalates with L-Cysteine. Journal of Cluster Science, 2006, 17, 221-233.	3.3	10
58	Structural and Electrochemical Studies of Dicupric Wellsâ€“Dawson Sandwich-Type Complexes. Journal of Cluster Science, 2006, 17, 183-195.	3.3	19
59	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
60	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
61	Vanadium-substituted Dawson-type polyoxometalates as versatile electrocatalysts. Comptes Rendus Chimie, 2005, 8, 1057-1066.	0.5	31
62	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
63	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
64	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
65	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
66	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
67	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
68	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
69	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
70	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
71	Investigation of Multi-Nickel-Substituted Tungstophosphates and Their Stability and Electrocatalytic Properties in Aqueous Media.. ChemInform, 2004, 35, no.	0.0	1
72	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

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73	Simple, high yield and reagent-saving synthesis of pure Î±-K6P2W18O62Â·14H2O. Inorganic Chemistry Communication, 2004, 7, 86-90.	3.9	77
74	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
75	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
76	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
77	Multi-Iron Wellsâ¯Dawson Heteropolytungstates. Electrochemical Probing of Siderophoric Behavior in Sandwich-Type Complexes. Inorganic Chemistry, 2004, 43, 3257-3263.	4.0	60
78	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
79	Multi-Iron Tungstodiarsenates. Synthesis, Characterization, and Electrocatalytic Studies of Î±Î²Î²Î±-(FeIIIOH2)2Fe2III (As2W15O56)212-.. ChemInform, 2003, 34, no.	0.0	0
80	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
81	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
82	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
83	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
84	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
85	Multi-Iron Tungstodiarsenates. Synthesis, Characterization, and Electrocatalytic Studies of Î±Î²Î²Î±-(FeIIIOH2)2FeIII2(As2W15O56)212-. Inorganic Chemistry, 2003, 42, 1163-1169.	4.0	103
86	Manganous heteropolytungstates. Synthesis and heteroatom effects in Wellsâ€“Dawson-derived sandwich complexes. Dalton Transactions, 2003, , 2646-2650.	3.3	46
87	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
88	[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