

Timothy McCormac

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6748193/publications.pdf>

Version: 2024-02-01

59
papers

1,279
citations

331670

21
h-index

377865

34
g-index

59
all docs

59
docs citations

59
times ranked

1384
citing authors

#	ARTICLE	IF	CITATIONS
1	PtAu/C based bimetallic nanocomposites for non-enzymatic electrochemical glucose detection. <i>Sensors and Actuators B: Chemical</i> , 2010, 150, 80-92.	7.8	85
2	Assembly, electrochemical characterisation and electrocatalytic ability of multilayer films based on [Fe(bpy) ₃] ²⁺ , and the Dawson heteropolyanion, [P ₂ W ₁₈ O ₆₂] ⁶⁻ . <i>Journal of Electroanalytical Chemistry</i> , 2005, 574, 359-366.	3.8	84
3	Part I. A comparative electrochemical study of transition metal substituted Dawson type heteropolyanions. <i>Journal of Electroanalytical Chemistry</i> , 1997, 425, 49-54.	3.8	70
4	Fe ₂ and Fe ₄ Clusters Encapsulated in Vacant Polyoxotungstates: Hydrothermal Synthesis, Magnetic and Electrochemical Properties, and DFT Calculations. <i>Chemistry - A European Journal</i> , 2008, 14, 3189-3199.	3.3	67
5	Surface Immobilization of a Tetra-Ruthenium Substituted Polyoxometalate Water Oxidation Catalyst Through the Employment of Conducting Polypyrrole and the Layer-by-Layer (LBL) Technique. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 8022-8031.	8.0	54
6	Transition metal ion-substituted polyoxometalates entrapped in polypyrrole as an electrochemical sensor for hydrogen peroxide. <i>Analyst</i> , 2012, 137, 624-630.	3.5	50
7	Part II. Role of pH and the transition metal for the electrocatalytic reduction of nitrite with transition metal substituted Dawson type heteropolyanions. <i>Journal of Electroanalytical Chemistry</i> , 1997, 427, 155-159.	3.8	49
8	Synthesis and electrochemical characterisation of [Ru(bpy) ₃] ₃ [P ₂ W ₁₈ O ₆₂]. <i>Journal of Electroanalytical Chemistry</i> , 2003, 556, 63-74.	3.8	48
9	A stable and selective electrochemical biosensor for the liver enzyme alanine aminotransferase (ALT). <i>Biosensors and Bioelectronics</i> , 2009, 24, 2926-2930.	10.1	45
10	Immobilization of a Series of Dawson Type Heteropolyanions. <i>Electroanalysis</i> , 2001, 13, 836-842.	2.9	35
11	Photophysics of ruthenium polypyridyl complexes formed with lacunary polyoxotungstates with iron addenda. <i>Physical Chemistry Chemical Physics</i> , 2005, 7, 3426.	2.8	34
12	Preparation of multilayer films containing a crown heteropolyanion and an osmium functionalised pyrrole monomer. <i>Journal of Electroanalytical Chemistry</i> , 2007, 605, 24-30.	3.8	34
13	Detailed Electrochemical Studies of the Tetraruthenium Polyoxometalate Water Oxidation Catalyst in Acidic Media: Identification of an Extended Oxidation Series using Fourier Transformed Alternating Current Voltammetry. <i>Inorganic Chemistry</i> , 2012, 51, 11521-11532.	4.0	33
14	Redox Switching of Polyoxometalate-Methylene Blue-Based Layer-by-Layer Films. <i>Langmuir</i> , 2012, 28, 5480-5488.	3.5	29
15	Electrochemical and Surface Properties of Multilayer Films Based on a Ru ²⁺ Metallodendrimer and the Mixed Addenda Dawson Heteropolyanion. <i>Electroanalysis</i> , 2007, 19, 681-689.	2.9	27
16	Electrochemical deposition of prussian blue films across interdigital array electrodes and their use in gas sensing. <i>Electroanalysis</i> , 1996, 8, 195-198.	2.9	26
17	Carbon Supported Cobalt and Nickel Based Nanomaterials for Direct Uric Acid Determination. <i>Electroanalysis</i> , 2011, 23, 79-89.	2.9	26
18	Investigation of novel mediators for a glucose biosensor based on metal picolinate complexes. <i>Bioelectrochemistry</i> , 2005, 67, 23-35.	4.6	24

#	ARTICLE	IF	CITATIONS
19	Investigations into the Electrochemical, Surface, and Electrocatalytic Properties of the Surface-Immobilized Polyoxometalate, $\text{TBA}_{3}\text{K}[\text{SiW}_{10}\text{O}_{36}](\text{PhPO})_{2}$. ACS Applied Materials & Interfaces, 2015, 7, 1046-1056.	8.0	24
20	Redox, surface and electrocatalytic properties of layer-by-layer films based upon Fe(III)-substituted crown polyoxometalate $[\text{P8W}_{48}\text{O}_{184}\text{Fe}_{16}(\text{OH})_{28}(\text{H}_2\text{O})_4]^{20-}$. Electrochimica Acta, 2014, 134, 450-458.	5.2	22
21	Enhancement of Nitrite and Nitrate Electrocatalytic Reduction through the Employment of Self-Assembled Layers of Nickel- and Copper-Substituted Crown-Type Heteropolyanions. Langmuir, 2015, 31, 2584-2592.	3.5	22
22	Electrochemical Behavior and Multilayer Assembly Films with Fine Functional Activities of the Sandwich-Type Polyoxometalate $[\text{Sb}_2\text{W}_{20}\text{Fe}_2\text{O}_{70}(\text{H}_2\text{O})_6]^{8-}$. Electroanalysis, 2008, 20, 38-46.	2.9	21
23	Water-processable polypyrrole microparticle modules for direct fabrication of hierarchical structured electrochemical interfaces. Electrochimica Acta, 2016, 190, 495-503.	5.2	21
24	Voltammetry of $[\text{R}_4\text{N}]_4[\text{M18O54}(\text{SO}_3)_2]$ and $[\text{Ru}(\text{bpy})_3]_2[\text{M18O54}(\text{SO}_3)_2]$ (M = Mo, W) as microcrystals adhered to a glassy carbon electrode surface in contact with ionic liquid media. Dalton Transactions, 2009, , 6727.	3.3	20
25	Electron Transfer to Covalently Immobilized Keggin Polyoxotungstates on Gold. Langmuir, 2014, 30, 4509-4516.	3.5	19
26	Scanning electrochemical microscopy imaging of poly (3,4-ethylenedioxythiophene)/thionine electrodes for lactate detection via NADH electrocatalysis. Biosensors and Bioelectronics, 2019, 137, 15-24.	10.1	19
27	Nitrate and Nitrite Electrocatalytic Reduction at Layer-by-Layer Films Composed of Dawson-type Heteropolyanions Mono-substituted with Transitional Metal Ions and Silver Nanoparticles. Electrochimica Acta, 2015, 184, 323-330.	5.2	18
28	Electrochemical Sensing of NADH and Glutamate Based on Meldola Blue in 1,2-Diaminobenzene and 3,4-Ethylenedioxythiophene Polymer Films. Electroanalysis, 2009, 21, 2099-2108.	2.9	17
29	Electrochemical investigation into the interaction between various pyrrole moieties and the well-known electron acceptor, tetracyanoethylene. Electrochimica Acta, 2001, 46, 3287-3299.	5.2	16
30	Unusual reactivity of copper(I) complexes of functionalised calix[4]arenes. Inorganica Chimica Acta, 2005, 358, 2661-2670.	2.4	16
31	Surface immobilisation of transition metal substituted Krebs type polyoxometalates, $[\text{X}_2\text{W}_{20}\text{M}_2\text{O}_{70}(\text{H}_2\text{O})_6]^{n-}$ (X=Bi or Sb, M=Co ²⁺ or Cu ²⁺), by the layer by layer technique. Electrochimica Acta, 2011, 56, 10751-10761.	5.2	16
32	Electrocatalysis by crown-type polyoxometalates multi-substituted by transition metal ions; Comparative study. Electrochimica Acta, 2015, 176, 1248-1255.	5.2	15
33	Electrochemical Characterisation of Ni ^{II} -Crown-Type Polyoxometalate-Doped Polypyrrole Films for the Catalytic Reduction of Bromate in Water. European Journal of Inorganic Chemistry, 2019, 2019, 394-401.	2.0	15
34	Multilayer assemblies of a Cu-phthalocyanine with Dawson type polyoxometalates (POMs) for the electrocatalytic reduction of phosphate. Journal of Electroanalytical Chemistry, 2020, 858, 113770.	3.8	13
35	Cyclic voltammetry of polypyrroledodecylbenzenesulfonate layers. Electroanalysis, 1995, 7, 287-289.	2.9	12
36	Immobilisation of the polyoxometalate cluster, $\text{K}_6\text{NaH}[\text{Sb}_2\text{W}_{20}\text{Fe}_2\text{O}_{70}(\text{H}_2\text{O})_6] \cdot 29\text{H}_2\text{O}$, in a polypyrrole film. Electrochimica Acta, 2008, 54, 868-875.	5.2	11

#	ARTICLE	IF	CITATIONS
37	Fast cyclic voltammetry of redox system NAD ⁺ /NADH on the copper nanodoped mercury monolayer carbon fiber electrode. <i>Journal of Electroanalytical Chemistry</i> , 2012, 665, 12-19.	3.8	11
38	Synthesis and characterizations of cyclic octanuclear mixed-valence vanadium(IV,V) clusters with polyoxometalate counterions. <i>Dalton Transactions</i> , 2006, , 5141-5148.	3.3	10
39	Rapid catalytic-adsorptive determination of picomolar concentrations of Cu ²⁺ with the mercury monolayer carbon fiber electrode. <i>Journal of Electroanalytical Chemistry</i> , 2009, 632, 80-87.	3.8	10
40	Syntheses and Crystal Structures of dmsO-Coordinated Tungstoantimonates(III) and -bismuthates(III). <i>European Journal of Inorganic Chemistry</i> , 2009, 2009, 5259-5266.	2.0	9
41	Surface immobilisation of the sandwich type Na ₁₄ [Fe ₄ (Ox) ₄ (H ₂ O) ₂ (SbW ₉ O ₃₃) ₂]·6H ₂ O polyoxometalate. <i>Electrochimica Acta</i> , 2012, 59, 1-7.	5.2	9
42	Electrochemical, surface and electrocatalytic properties of layer-by-layer multilayer assemblies composed of silver nanoparticles and a Ni(II)-crown type polyoxometalate. <i>Journal of Electroanalytical Chemistry</i> , 2018, 824, 75-82.	3.8	9
43	Solution and solid phase electrochemical behaviour of [Os(bpy) ₃] ₃ [P ₂ W ₁₈ O ₆₂]. <i>Electrochimica Acta</i> , 2005, 51, 281-288.	5.2	8
44	Electrochemical Properties of an Osmium(II) Copolymer Film and Its Electrocatalytic Ability Towards the Oxidation of Ascorbic Acid in Acidic and Neutral pH. <i>Electroanalysis</i> , 2006, 18, 1097-1104.	2.9	8
45	Synthesis, Characterization and Electrochemical Polymerization of a Ru ²⁺ Functionalized Pyrrole Monomer. <i>Electroanalysis</i> , 2007, 19, 1509-1517.	2.9	8
46	Polypyrrole entrapped 18-molybdodisulphate anion for the detection of hydrogen peroxide. <i>Electrochimica Acta</i> , 2018, 287, 78-86.	5.2	7
47	Tetra-Mn ^{III} -Containing 30-Tungsto-4-phosphate, [Mn ^{III}] ₄ (H ₂ O) ₂ (P ₂ W ₁₅ O ₅₆) ₂ . Synthesis, Structure, XPS, Magnetism, and Electrochemical Study. <i>Inorganic Chemistry</i> , 2020, 59, 13034-13041.	4.0	7
48	Electrochemical characterisation of an Os (II) conjugated polymer in aqueous electrolytes. <i>Electrochimica Acta</i> , 2006, 51, 3484-3488.	5.2	6
49	Investigations into the Use of a Thionine/PEDOT Layer as an NADH Electrocatalyst with Applications in Glutamate Sensing. <i>ECS Transactions</i> , 2010, 25, 21-32.	0.5	6
50	Transition Metal-Substituted Krebs-Type Polyoxometalate-Doped PEDOT Films. <i>Langmuir</i> , 2019, 35, 11007-11015.	3.5	6
51	Voltammetric behaviour, homogeneous charge transport dynamics and electrocatalytic properties of an Os ²⁺ functionalised pyrrole monomer. <i>Journal of Electroanalytical Chemistry</i> , 2004, 573, 203-214.	3.8	5
52	Electrochemical, surface and electrocatalytic properties of electrode multilayer assemblies composed of a ruthenium metallodendrimer and a wheel-shaped Cu-20 Tungstophosphate. <i>Journal of Electroanalytical Chemistry</i> , 2019, 836, 77-84.	3.8	5
53	Layer-by-layer assembly of graphene oxide and 12-molybdosilicate composite films for the electrocatalytic reduction of chloroform in neutral aqueous solution. <i>Electrochimica Acta</i> , 2020, 343, 135987.	5.2	5
54	Electrochemical studies of osmium-(pyrrole-methyl) pyridine-co-polymers deposited using the membrane template method. <i>Electrochimica Acta</i> , 2008, 53, 4550-4556.	5.2	4

#	ARTICLE	IF	CITATIONS
55	Redox switching of polyoxometalate-doped polypyrrole films in ionic liquid media. <i>Electrochimica Acta</i> , 2018, 265, 254-258.	5.2	4
56	A model for a redox species confined to a thin layer with a variable diffusion coefficient. <i>Electroanalysis</i> , 1996, 8, 139-142.	2.9	2
57	Investigation into Charge Transport Dynamics of [Os(bpy) ₂ (picolinate)]Cl Nafion Films. <i>Electroanalysis</i> , 2006, 18, 1778-1785.	2.9	2
58	Surface immobilisation of the Krebs type polyoxometalates with silver nanoparticles. <i>Journal of Electroanalytical Chemistry</i> , 2019, 832, 493-499.	3.8	1
59	An Electrochemical Investigation into a Series of Tricyanovinylated Pyrrole Moieties. <i>Electroanalysis</i> , 2004, 16, 1682-1689.	2.9	0