

# Richard Villanneau

## List of Publications by Year in descending order

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38  
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times ranked

1848  
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#	ARTICLE	IF	CITATIONS
1	Advantages of Covalent Immobilization of Metal-Salophen on Amino-Functionalized Mesoporous Silica in Terms of Recycling and Catalytic Activity for CO <sub>2</sub> Cycloaddition onto Epoxides. European Journal of Inorganic Chemistry, 2021, 2021, 1581-1591.	2.0	18
2	Chromium-Salophen as a Soluble or Silica-Supported Co-Catalyst for the Fixation of CO <sub>2</sub> Onto Styrene Oxide at Low Temperatures. Frontiers in Chemistry, 2021, 9, 765108.	3.6	7
3	Selective Formation of Epoxyimonene Catalyzed by Phosphonyl/Arsonyl Derivatives of Trivalent Polyoxotungstates at Low Temperature. European Journal of Inorganic Chemistry, 2020, 2020, 605-612.	2.0	1
4	Selective Formation of Epoxyimonene Catalyzed by Phosphonyl/Arsonyl Derivatives of Trivalent Polyoxotungstates at Low Temperature. European Journal of Inorganic Chemistry, 2020, 2020, 596-596.	2.0	0
5	Selective uptake of La <sup>3+</sup> ions with polyoxometalates-functionalized mesoporous SBA-15: An EXAFS study. Microporous and Mesoporous Materials, 2019, 287, 264-270.	4.4	1
6	Immobilization of polyoxometalate hybrid catalysts onto mesoporous silica supports using phenylene diisothiocyanate as a cross-linking agent. Microporous and Mesoporous Materials, 2019, 278, 314-321.	4.4	14
7	Heteropolytungstate-decorated core-shell magnetic nanoparticles: A covalent strategy for polyoxometalate-based hybrid nanomaterials. Journal of Colloid and Interface Science, 2018, 514, 49-58.	9.4	18
8	Single ion magnets based on lanthanoid polyoxomolybdate complexes. Dalton Transactions, 2016, 45, 16653-16660.	3.3	40
9	Efficiency of Polyoxometalate-Based Mesoporous Hybrids as Covalently Anchored Catalysts. Inorganic Chemistry, 2015, 54, 7607-7616.	4.0	40
10	Simple procedure for vacant POM-stabilized palladium (0) nanoparticles in water: structural and dispersive effects of lacunary polyoxometalates. RSC Advances, 2014, 4, 26491-26498.	3.6	28
11	Bisorganophosphonyl and Organoarsenyl Derivatives of Heteropolytungstates as Hard Ligands for Early Transition-Metal and Lanthanide Cations. European Journal of Inorganic Chemistry, 2013, 2013, 1815-1820.	2.0	26
12	Covalent Grafting of Organic-Inorganic Polyoxometalates Hybrids onto Mesoporous SBA-15: A Key Step for New Anchored Homogeneous Catalysts. Inorganic Chemistry, 2013, 52, 2958-2965.	4.0	62
13	Functionalization and post-functionalization: a step towards polyoxometalate-based materials. Chemical Society Reviews, 2012, 41, 7605.	38.1	788
14	Bifunctional Polyoxometalates for Planar Gold Surface Nanostructuring and Protein Immobilization. Journal of Physical Chemistry C, 2012, 116, 13217-13224.	3.1	54
15	Insights into the Coordination Chemistry of Phosphonate Derivatives of Heteropolyoxotungstates. Inorganic Chemistry, 2011, 50, 1164-1166.	4.0	29
16	Vicinal Dinitridoruthenium-Substituted Polyoxometalates [XW <sub>10</sub> O <sub>38</sub> {RuN <sub>2</sub> } <sup>6-</sup> ] (X=Si or Ge). Chemistry - A European Journal, 2009, 15, 10233-10243.	3.3	33
17	Palladium(II) Phosphotungstate Derivatives: Synthesis and Characterization of the [Pd <sub>x</sub> {WO(H <sub>2</sub> O)} <sub>3</sub> {A <sub>1±</sub> PW <sub>9</sub> O <sub>34</sub> } <sub>2</sub> ] Anions. European Journal of Inorganic Chemistry, 2009, 2009, 479-488.	2.8	28
18	A new synthetic route towards a Ru(III) substituted heteropolytungstate anion. Inorganic Chemistry Communication, 2009, 12, 1042-1044.	3.9	24

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19	Nitrogen-Atom Transfer from $[PW_{11}O_{39}Ru_{VI}N]^{4-}$ to $PPh_3$ . <i>Inorganic Chemistry</i> , 2009, 48, 9436-9443.	4.0	18
20	Experimental and Computational Study of the Framework Fluxionality of Organometallic Derivatives of Polyoxometalates: Analysis of the Effect of the Metal and of the Solvent. <i>Organometallics</i> , 2009, 28, 3140-3151.	2.3	24
21	Hydrothermal Synthesis and Structural Characterization of the High-Valent Ruthenium-Containing Polyoxoanion $[2\{PW_{11}O_{39}\}_2\{(HO)Ru_{IV}O\}_2\{(HO)Ru_{IV}(OH)\}_2]^{20-}$ . <i>European Journal of Inorganic Chemistry</i> , 2008, 2008, 2137-2142.	2.0	23
22	Synthesis and Characterization of the Keggin-Type Ruthenium-Nitrido Derivative $[PW_{11}O_{39}\{RuN\}]^{4-}$ and Evidence of Its Electrophilic Reactivity. <i>Journal of the American Chemical Society</i> , 2007, 129, 7127-7135.	13.7	89
23	Polyoxomolybdate-stabilized $Ru^{0}$ Nanoparticles Deposited on Mesoporous Silica as Catalysts for Aromatic Hydrogenation. <i>ChemPhysChem</i> , 2007, 8, 2636-2642.	2.1	35
24	Relationship between structure, fluxionality and racemization activity in organometallic derivatives of polyoxometalates. <i>Tetrahedron: Asymmetry</i> , 2007, 18, 367-371.	1.8	17
25	Experimental and Theoretical Study of the Regiospecific Coordination of Rulland OslFragments on the Lacunary Polyoxometalate $[1\pm-PW_{11}O_{39}]^{7-}$ . <i>Journal of Physical Chemistry A</i> , 2006, 110, 6345-6355.	2.5	52
26	Zirconium-Substituted Isopolytungstates: Structural Models for Zirconia-Supported Tungsten Catalysts. <i>Inorganic Chemistry</i> , 2006, 45, 1915-1923.	4.0	61
27	A new organometallic heteropolytungstate related to $[Sb_2W_{22}O_{74}(OH)_2]^{12-}$ : synthesis and structural characterisation of the bis- $\{Ru(p\text{-cymene})\}^{2+}$ -containing anion $[Sb_2W_{20}O_{70}\{Ru(p\text{-cymene})\}_2]^{10-}$ . <i>Chemical Communications</i> , 2005, , 5524.	4.1	67
28	Synthesis and Characterization of Zr(IV) Polyoxotungstates as Molecular Analogues of Zirconia-Supported Tungsten Catalysts.. <i>ChemInform</i> , 2004, 35, no.	0.0	0
29	Framework Fluxionality of Organometallic Oxides: Synthesis, Crystal Structure, EXAFS, and DFT Studies on $[Ru(\text{I-6-arene})_4Mo_4O_{16}]$ Complexes. <i>Chemistry - A European Journal</i> , 2004, 10, 208-217.	3.3	45
30	Synthesis and Characterization of Zr(IV) Polyoxotungstates as Molecular Analogues of Zirconia-Supported Tungsten Catalysts. <i>Journal of Physical Chemistry B</i> , 2004, 108, 12465-12471.	2.6	50
31	Coordination Chemistry of the Soluble Metal Oxide Analogue $[Mo_5O_{13}(OCH_3)_4(NO)]_3$ with Manganese Carbonyl Species. <i>Chemistry - A European Journal</i> , 2003, 9, 1982-1990.	3.3	39
32	Organometallic polyoxometalates: synthesis and structural analysis of (I-6-arene) ruthenium-containing polyoxomolybdates. <i>Journal of Molecular Structure</i> , 2003, 656, 67-77.	3.6	27
33	Polyoxoanion-supported pentamethylcyclopentadienylrhodium complexes: syntheses and structural characterization by EXAFS. <i>Polyhedron</i> , 2003, 22, 1157-1165.	2.2	7
34	Merging Organometallic Chemistry with Polyoxometalate Chemistry. <i>Chemistry - A European Journal</i> , 2000, 6, 1184-1192.	3.3	30
35	Merging Organometallic Chemistry with Polyoxometalate Chemistry. <i>Chemistry - A European Journal</i> , 2000, 6, 1184-1192.	3.3	74
36	Co-ordination chemistry of lacunary Lindqvist-type polyoxometalates: cubic vs. square-antiprismatic co-ordination. <i>Journal of the Chemical Society Dalton Transactions</i> , 1999, , 421-426.	1.1	36

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37	Synthesis, Structure, and Magnetic Properties of $(n\text{-Bu}_4\text{N})_2[\{\text{Ni}(\text{MeOH})_2\}_2\{\text{Mo}(\text{NO})\}_2(\frac{1}{4}\text{-OH})_2(\frac{1}{4}\text{-OMe})_4\{\text{Mo}_5\text{O}_{13}(\text{OMe})_4(\text{NO})\}_2]$ , a New Type of Polyoxometalate Incorporating a Rhomb-like Cluster. <i>Inorganic Chemistry</i> , 1999, 38, 4981-4985.	4.0	9
38	Synthesis and characterization of $[\text{NBu}_4]_4[\text{Ag}_2\{\text{Mo}_5\text{O}_{13}(\text{OMe})_4(\text{NO})\}_2]$ , a novel polyoxomolybdate complex with a short $\text{AgI}\cdots\text{AgI}$ distance. <i>Chemical Communications</i> , 1998, , 1491-1492.	4.1	66