

Richard Villanneau

List of Publications by Year in descending order

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papers

1,975
citations

279798

23
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345221

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44
all docs

44
docs citations

44
times ranked

1848
citing authors

#	ARTICLE	IF	CITATIONS
1	Functionalization and post-functionalization: a step towards polyoxometalate-based materials. <i>Chemical Society Reviews</i> , 2012, 41, 7605.	38.1	788
2	Synthesis and Characterization of the Keggin-Type Ruthenium-Nitrido Derivative [PW11O39{RuN}]4- and Evidence of Its Electrophilic Reactivity. <i>Journal of the American Chemical Society</i> , 2007, 129, 7127-7135.	13.7	89
3	Merging Organometallic Chemistry with Polyoxometalate Chemistry. <i>Chemistry - A European Journal</i> , 2000, 6, 1184-1192.	3.3	74
4	A new organometallic heteropolytungstate related to [Sb2W22O74(OH)2]12-: synthesis and structural characterisation of the bis-{Ru(p-cymene)}2+-containing anion [Sb2W20O70{Ru(p-cymene)}2]10-. <i>Chemical Communications</i> , 2005, , 5524.	4.1	67
5	Synthesis and characterization of [NBu4]4[Ag2{Mo5O13(OMe)4(NO)}2], a novel polyoxomolybdate complex with a short AgI...AgI distance. <i>Chemical Communications</i> , 1998, , 1491-1492.	4.1	66
6	Covalent Grafting of Organic-Inorganic Polyoxometalates Hybrids onto Mesoporous SBA-15: A Key Step for New Anchored Homogeneous Catalysts. <i>Inorganic Chemistry</i> , 2013, 52, 2958-2965.	4.0	62
7	Zirconium-Substituted Isopolytungstates: Structural Models for Zirconia-Supported Tungsten Catalysts. <i>Inorganic Chemistry</i> , 2006, 45, 1915-1923.	4.0	61
8	Bifunctional Polyoxometalates for Planar Gold Surface Nanostructuring and Protein Immobilization. <i>Journal of Physical Chemistry C</i> , 2012, 116, 13217-13224.	3.1	54
9	Experimental and Theoretical Study of the Regiospecific Coordination of Rulland OslIFragments on the Lacunary Polyoxometalate [±PW11O39]7-. <i>Journal of Physical Chemistry A</i> , 2006, 110, 6345-6355.	2.5	52
10	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
11	Framework Fluxionality of Organometallic Oxides: Synthesis, Crystal Structure, EXAFS, and DFT Studies on [Ru(l-6-arene)]4Mo4O16 Complexes. <i>Chemistry - A European Journal</i> , 2004, 10, 208-217.	3.3	45
12	Efficiency of Polyoxometalate-Based Mesoporous Hybrids as Covalently Anchored Catalysts. <i>Inorganic Chemistry</i> , 2015, 54, 7607-7616.	4.0	40
13	Single ion magnets based on lanthanoid polyoxomolybdate complexes. <i>Dalton Transactions</i> , 2016, 45, 16653-16660.	3.3	40
14	Coordination Chemistry of the Soluble Metal Oxide Analogue [Mo5O13(OCH3)4(NO)]3 with Manganese Carbonyl Species. <i>Chemistry - A European Journal</i> , 2003, 9, 1982-1990.	3.3	39
15	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
16	Polyoxomolybdate-Stabilized Ru ⁰ Nanoparticles Deposited on Mesoporous Silica as Catalysts for Aromatic Hydrogenation. <i>ChemPhysChem</i> , 2007, 8, 2636-2642.	2.1	35
17	Vicinal Dinitridoruthenium-Substituted Polyoxometalates [±{XW ₁₀ O ₃₈ }{RuN} ₂] ^{6±} (X=Si or Ge). <i>Chemistry - A European Journal</i> , 2009, 15, 10233-10243.	3.3	33
18	Merging Organometallic Chemistry with Polyoxometalate Chemistry. <i>Chemistry - A European Journal</i> , 2000, 6, 1184-1192.	3.3	30

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19	Insights into the Coordination Chemistry of Phosphonate Derivatives of Heteropolyoxotungstates. <i>Inorganic Chemistry</i> , 2011, 50, 1164-1166.	4.0	29
20	Simple procedure for vacant POM-stabilized palladium (0) nanoparticles in water: structural and dispersive effects of lacunary polyoxometalates. <i>RSC Advances</i> , 2014, 4, 26491-26498.	3.6	28
21	Organometallic polyoxometalates: synthesis and structural analysis of (̐-6-arene) ruthenium-containing polyoxomolybdates. <i>Journal of Molecular Structure</i> , 2003, 656, 67-77.	3.6	27
22	Bisorganophosphonyl and ̐Organoarsenyl Derivatives of Heteropolytungstates as Hard Ligands for Early ̐Transition ̐Metal and Lanthanide Cations. <i>European Journal of Inorganic Chemistry</i> , 2013, 2013, 1815-1820.	2.0	26
23	A new synthetic route towards a Ru(III) substituted heteropolytungstate anion. <i>Inorganic Chemistry Communication</i> , 2009, 12, 1042-1044.	3.9	24
24	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
25	Hydrothermal Synthesis and Structural Characterization of the High ̐Valent Ruthenium ̐Containing Polyoxoanion $[\{ \text{PW}_{11}\text{O}_{39} \}_2 \{ (\text{HO})\text{Ru}^{\text{IV}}(\text{OH}) \}]^{10-}$. <i>European Journal of Inorganic Chemistry</i> , 2008, 2008, 2137-2142.	2.0	23
26	Palladium(II) Phosphotungstate Derivatives: Synthesis and Characterization of the $[\text{Pd}_x \{ \text{WO}(\text{H}_2\text{O})_3 \}_y \{ \text{A}_z \text{PW}_9\text{O}_{34} \}_z]^{2-}$ Anions. <i>European Journal of Inorganic Chemistry</i> , 2009, 2009, 479-488.	2.3	22
27	Nitrogen-Atom Transfer from $[\text{PW}_{11}\text{O}_{39}\text{Ru}^{\text{VI}}\text{N}]^{4-}$ to PPh_3 . <i>Inorganic Chemistry</i> , 2009, 48, 9436-9443.	4.0	18
28	Heteropolytungstate-decorated core-shell magnetic nanoparticles: A covalent strategy for polyoxometalate-based hybrid nanomaterials. <i>Journal of Colloid and Interface Science</i> , 2018, 514, 49-58.	9.4	18
29	Advantages of Covalent Immobilization of Metal ̐Salophen on Amino ̐Functionalized Mesoporous Silica in Terms of Recycling and Catalytic Activity for CO_2 Cycloaddition onto Epoxides. <i>European Journal of Inorganic Chemistry</i> , 2021, 2021, 1581-1591.	2.0	18
30	Relationship between structure, fluxionality and racemization activity in organometallic derivatives of polyoxometalates. <i>Tetrahedron: Asymmetry</i> , 2007, 18, 367-371.	1.8	17
31	Immobilization of polyoxometalate hybrid catalysts onto mesoporous silica supports using phenylene diisothiocyanate as a cross-linking agent. <i>Microporous and Mesoporous Materials</i> , 2019, 278, 314-321.	4.4	14
32	Synthesis, Structure, and Magnetic Properties of $(n\text{-Bu}_4\text{N})_2 [\{ \text{Ni}(\text{MeOH})_2 \}_2 \{ \text{Mo}(\text{NO})_2(\text{143-OH})_2(\text{14-OMe})_4 \{ \text{Mo}_5\text{O}_{13}(\text{OMe})_4(\text{NO}) \}_2]$, a New Type of Polyoxometalate Incorporating a Rhomb-like Cluster. <i>Inorganic Chemistry</i> , 1999, 38, 4981-4985.	4.0	9
33	Polyoxoanion-supported pentamethylcyclopentadienylrhodium complexes: syntheses and structural characterization by EXAFS. <i>Polyhedron</i> , 2003, 22, 1157-1165.	2.2	7
34	Chromium-Salophen as a Soluble or Silica-Supported Co-Catalyst for the Fixation of CO_2 Onto Styrene Oxide at Low Temperatures. <i>Frontiers in Chemistry</i> , 2021, 9, 765108.	3.6	7
35	Selective uptake of La^{3+} ions with polyoxometalates-functionalized mesoporous SBA-15: An EXAFS study. <i>Microporous and Mesoporous Materials</i> , 2019, 287, 264-270.	4.4	1
36	Selective Formation of Epoxyimonene Catalyzed by Phosphonyl/Arsonyl Derivatives of Trivalent Polyoxotungstates at Low Temperature. <i>European Journal of Inorganic Chemistry</i> , 2020, 2020, 605-612.	2.0	1

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37	Synthesis and Characterization of Zr(IV) Polyoxotungstates as Molecular Analogues of Zirconia-Supported Tungsten Catalysts.. ChemInform, 2004, 35, no.	0.0	0
38	Selective Formation of Epoxyimonene Catalyzed by Phosphonyl/Arsonyl Derivatives of Trivacant Polyoxotungstates at Low Temperature. European Journal of Inorganic Chemistry, 2020, 2020, 596-596.	2.0	0