

Laia Vilã -Nadal

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

1,849
citations

304368

22
h-index

344852

36
g-index

51
all docs

51
docs citations

51
times ranked

2059
citing authors

#	ARTICLE	IF	CITATIONS
1	Effective Storage of Electrons in Water by the Formation of Highly Reduced Polyoxometalate Clusters. <i>Journal of the American Chemical Society</i> , 2022, 144, 8951-8960.	6.6	37
2	Coordination Chemistry in Polyoxometalates and Metal Clusters. , 2021, , 118-154.		1
3	POMzites: A roadmap for inverse design in metal oxide chemistry. <i>International Journal of Quantum Chemistry</i> , 2021, 121, e26493.	1.0	1
4	Influence of the Contact Geometry and Counterions on the Current Flow and Charge Transfer in Polyoxometalate Molecular Junctions: A Density Functional Theory Study. <i>Journal of Physical Chemistry C</i> , 2021, 125, 3599-3610.	1.5	23
5	Looking for Options to Sustainably Fixate Nitrogen. Are Molecular Metal Oxides Catalysts a Viable Avenue?. <i>Frontiers in Chemistry</i> , 2021, 9, 742565.	1.8	4
6	Controlling the Reactivity of the $[P_8W_{48}O_{184}]^{40-}$ Inorganic Ring and Its Assembly into POMZite Inorganic Frameworks with Silver Ions. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 17282-17286.	7.2	36
7	Controlling the Reactivity of the $[P_8W_{48}O_{184}]^{40-}$ Inorganic Ring and Its Assembly into POMZite Inorganic Frameworks with Silver Ions. <i>Angewandte Chemie</i> , 2019, 131, 17442-17446.	1.6	9
8	Synthesis of polyoxometalate clusters using carbohydrates as reducing agents leads to isomer-selection. <i>Chemical Communications</i> , 2019, 55, 5797-5800.	2.2	6
9	First Principle Simulations of Current Flow in Inorganic Molecules: Polyoxometalates (POMs). , 2019, , .		2
10	Redox tuning the Weakley-type polyoxometalate archetype for the oxygen evolution reaction. <i>Nature Catalysis</i> , 2018, 1, 208-213.	16.1	97
11	Self-Sorting of Heteroanions in the Assembly of Cross-Shaped Polyoxometalate Clusters. <i>Journal of the American Chemical Society</i> , 2018, 140, 2595-2601.	6.6	62
12	A multi-scale simulation study for optimization and variability evaluation of molecular based flash cell. , 2018, , .		0
13	Investigating the Formation of Giant $\{Pd_{72}\}^{Prop}$ and $\{Pd_{84}\}^{Gly}$ Macrocycles Using NMR, HPLC, and Mass Spectrometry. <i>Journal of the American Chemical Society</i> , 2018, 140, 9379-9382.	6.6	27
14	A metamorphic inorganic framework that can be switched between eight single-crystalline states. <i>Nature Communications</i> , 2017, 8, 14185.	5.8	46
15	Design and synthesis of polyoxometalate-framework materials from cluster precursors. <i>Nature Reviews Materials</i> , 2017, 2, .	23.3	191
16	Molecular based flash cell for low power flash application: Optimization and variability evaluation. , 2017, , .		1
17	Investigating the Transformations of Polyoxoanions Using Mass Spectrometry and Molecular Dynamics. <i>Journal of the American Chemical Society</i> , 2016, 138, 8765-8773.	6.6	50
18	RÅ¼cktitelbild: Following the Reaction of Heteroanions inside a $\{W_{18}O_{56}\}$ Polyoxometalate Nanocage by NMR Spectroscopy and Mass Spectrometry (<i>Angew. Chem.</i> 27/2015). <i>Angewandte Chemie</i> , 2015, 127, 8112-8112.	1.6	0

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19	Trapping the Î Isomer of the Polyoxometalate-Based Keggin Cluster with a Tripodal Ligand. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 15488-15492.	7.2	31
20	Following the Reaction of Heteroanions inside a $\{W_{18}O_{56}\}$ Polyoxometalate Nanocage by NMR Spectroscopy and Mass Spectrometry. <i>Angewandte Chemie</i> , 2015, 127, 8006-8010.	1.6	10
21	Following the Reaction of Heteroanions inside a $\{W_{18}O_{56}\}$ Polyoxometalate Nanocage by NMR Spectroscopy and Mass Spectrometry. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 7895-7899.	7.2	28
22	Comparison Between Bulk and FDSOI POM Flash Cell: A Multiscale Simulation Study. <i>IEEE Transactions on Electron Devices</i> , 2015, 62, 680-684.	1.6	8
23	FDSOI molecular flash cell with reduced variability for low power flash applications. , 2014, , .		5
24	Optimization and Evaluation of Variability in the Programming Window of a Flash Cell With Molecular Metal-Oxide Storage. <i>IEEE Transactions on Electron Devices</i> , 2014, 61, 2019-2026.	1.6	13
25	Design and fabrication of memory devices based on nanoscale polyoxometalate clusters. <i>Nature</i> , 2014, 515, 545-549.	13.7	301
26	Formation, self-assembly and transformation of a transient selenotungstate building block into clusters, chains and macrocycles. <i>Chemical Communications</i> , 2014, 50, 2155-2157.	2.2	41
27	Polyoxometalate based open-frameworks (POM-OFs). <i>Chemical Society Reviews</i> , 2014, 43, 5679-5699.	18.7	359
28	Towards Polyoxometalate-Cluster-Based Nano-Electronics. <i>Chemistry - A European Journal</i> , 2013, 19, 16502-16511.	1.7	65
29	Multi-scale computational framework for the evaluation of variability in the programming window of a flash cell with molecular storage. , 2013, , .		1
30	Polyoxometalate $\{W_{18}O_{56}XO_6\}$ Clusters with Embedded Redox-Active Main-Group Templates as Localized Inner-Cluster Radicals. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 9695-9699.	7.2	26
31	Exploring the rotational isomerism in non-classical Wells-Dawson anions $\{W_{18}X\}$: a combined theoretical and mass spectrometry study. <i>Dalton Transactions</i> , 2012, 41, 2264-2271.	1.6	27
32	Structural and Electronic Features of Wells-Dawson Polyoxometalates. <i>NATO Science for Peace and Security Series B: Physics and Biophysics</i> , 2012, , 171-183.	0.2	4
33	Combined Theoretical and Mass Spectrometry Study of the Formation-Fragmentation of Small Polyoxomolybdates. <i>Inorganic Chemistry</i> , 2011, 50, 7811-7819.	1.9	53
34	Connecting theory with experiment to understand the initial nucleation steps of heteropolyoxometalate clusters. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 20136.	1.3	44
35	Towards the Accurate Calculation of ^{183}W NMR Chemical Shifts in Polyoxometalates: The Relevance of the Structure. <i>Chemistry - an Asian Journal</i> , 2010, 5, 97-104.	1.7	28
36	Theoretical view on the origin and implications of structural distortions in polyoxometalates. <i>Physics Procedia</i> , 2010, 8, 94-103.	1.2	8

#	ARTICLE	IF	CITATIONS
37	Assembly of titanium embedded polyoxometalates with unprecedented structural features. Dalton Transactions, 2010, 39, 11599.	1.6	36
38	Theoretical Analysis of the Possible Intermediates in the Formation of $[W_6O_{19}]^{2-}$. European Journal of Inorganic Chemistry, 2009, 2009, 5125-5133.	1.0	21
39	Nucleation Mechanisms of Molecular Oxides: A Study of the Assembly/Dissassembly of $[W_6O_{19}]^{2-}$ by Theory and Mass Spectrometry. Angewandte Chemie - International Edition, 2009, 48, 5452-5456.	7.2	83
40	Hydration of Hydrogentungstate Anions at Different pH Conditions: A CarâˆParrinello Molecular Dynamics Study. Inorganic Chemistry, 2008, 47, 7745-7750.	1.9	31