Mauro Carraro

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/2966912/publications.pdf

Version: 2024-02-01

107	4,954	100601	111975
papers	citations	38 h-index	67 g-index

121	121	121	5337
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Porous Polymeric Membranes Doped with Halloysite Nanotubes and Oxygenic Polyoxometalates. Advanced Materials Interfaces, 2022, 9, .	1.9	6
2	Physicochemical Properties and Atomic-Scale Interactions in Polyaniline (Emeraldine Base)/Starch Bio-Based Composites: Experimental and Computational Investigations. Polymers, 2022, 14, 1505.	2.0	9
3	Mechanism of CK2 Inhibition by a Ruthenium-Based Polyoxometalate. Frontiers in Molecular Biosciences, 2022, 9, .	1.6	4
4	Single versus Double Stenting in NSTEMI Patients with Complex Left Main Bifurcation Disease. Journal of Clinical Medicine, 2022, 11, 3559.	1.0	2
5	Au nanoparticles supported on piranha etched halloysite nanotubes for highly efficient heterogeneous catalysis. Applied Surface Science, 2021, 546, 149100.	3.1	24
6	A polyoxometalate-based self-cleaning smart material with oxygenic activity for water remediation with membrane technology. Applied Materials Today, 2021, 23, 101002.	2.3	10
7	Microwaveâ€Assisted 1,3â€Dipolar Cycloaddition of Azomethine Ylides to [60]Fullerene: Thermodynamic Control of Bisâ€Addition with Ionic Liquids Additives. European Journal of Organic Chemistry, 2021, 2021, 3545-3551.	1.2	3
8	Tuning the Activity of a Hybrid Polymerâ€“Oxocluster Catalyst: A Compositionâ€”Selectivity Correlation. Polymers, 2021, 13, 3268.	2.0	1
9	Structural, spectroscopic studies, thermal proprieties and Hirshfeld surface analysis of a novel tetra-piperidinium disodium decavanadate nonahydrate. Journal of Molecular Structure, 2021, 1244, 130969.	1.8	6
10	Supramolecular organicâ€“inorganic domains integrating fullerene-based acceptors with polyoxometalate-bis-pyrene tweezers for organic photovoltaic applications. Journal of Materials Chemistry C, 2021, 9, 16290-16297.	2.7	7
11	Enhancing the biological activity of polyoxometalateâ€“peptide nano-fibrils by spacer design. RSC Advances, 2021, 11, 4952-4957.	1.7	21
12	Catalytic processing in ruthenium-based polyoxometalate coacervate protocells. Nature Communications, 2020, 11, 41.	5.8	63
13	Neutralization of Reactive Oxygen Species at Dinuclear Cu(II)-Cores: Tuning the Antioxidant Manifold in Water by Ligand Design. ACS Catalysis, 2020, 10, 7295-7306.	5.5	8
14	Robust tuning metal/carbon heterointerfaces via ketonic oxygen enables hydrogen evolution reaction outperforming Pt/C. Applied Surface Science, 2020, 529, 147080.	3.1	3
15	Tailored Crafting of Coreâ€“Shell Cobalt-Hydroxides@Polyfluoroaniline Nanostructures with Strongly Coupled Interfaces and Improved Hydrophilicity to Enable Efficient Oxygen Evolution. ACS Sustainable Chemistry and Engineering, 2020, 8, 6127-6133.	3.2	12
16	Mesomorphic and electrooptical properties of viologens based on non-symmetric alkyl/polyfluoroalkyl functionalization and on an oxadiazolyl-extended bent core. Journal of Materials Chemistry C, 2019, 7, 7974-7983.	2.7	32
17	Mechanisms of Myocardial Ischemia Inducing Sudden Cardiac Death in Athletes with Anomalous Coronary Origin from the Opposite Sinus: Insights from a computational fluid dynamic study. Cardiovascular Revascularization Medicine, 2019, 20, 1112-1116.	0.3	11
18	Long-Term Clinical Outcomes of Isolated Ostial Left Anterior Descending Disease Treatment: Ostial Stenting Versus Left Main Cross-Over Stenting. Cardiovascular Revascularization Medicine, 2019, 20, 1058-1062.	0.3	18

#	Article	IF	Citations
19	Controlling Sizeâ€Dispersion of Single Walled Carbon Nanotubes by Interaction with Polyoxometalates Armed with a Tryptophan Tweezer. European Journal of Inorganic Chemistry, 2019, 2019, 374-379.	1.0	6
20	Culotte versus the novel nano-crush technique for unprotected complex bifurcation left main stenting: difference in procedural time, contrast volume and X-ray exposure and 3-years outcomes. International Journal of Cardiovascular Imaging, 2019, 35, 207-214.	0.7	12
21	Systemic thrombolysis in haemodynamically unstable pulmonary embolism: The earlier the better?. Thrombosis Research, 2019, 173, 117-123.	0.8	11
22	Synthesis and biological activity of an <scp>A</scp>nderson polyoxometalate bisâ€functionalized with a <scp>B</scp>ombesinâ€analog peptide. Peptide Science, 2018, 110, e24047.	1.0	26
23	Tracking Fluorescent Polyoxometalates within Cells. European Journal of Inorganic Chemistry, 2018, 2018, 4955-4961.	1.0	13
24	Highly Sensitive Membrane-Based Pressure Sensors (MePS) for Real-Time Monitoring of Catalytic Reactions. Analytical Chemistry, 2018, 90, 7659-7665.	3.2	7
25	Selective Targeting of Proteins by Hybrid Polyoxometalates: Interaction Between a Bis-Biotinylated Hybrid Conjugate and Avidin. Frontiers in Chemistry, 2018, 6, 278.	1.8	26
26	Merged Heme and Non-Heme Manganese Cofactors for a Dual Antioxidant Surveillance in Photosynthetic Organisms. ACS Catalysis, 2017, 7, 1971-1976.	5.5	13
27	Correlation and prognostic role of neutrophil to lymphocyte ratio and SYNTAX score in patients with acute myocardial infarction treated with percutaneous coronary intervention: A six-year experience. Cardiovascular Revascularization Medicine, 2017, 18, 565-571.	0.3	22
28	Antiplatelet therapy in patients with glucose-6-phosphate dehydrogenases deficiency after percutaneous coronary intervention: A reappraisal for clinical and interventional cardiologists. Cardiovascular Revascularization Medicine, 2017, 18, 226-229.	0.3	4
29	Facile Access to Amides from Oxygenated or Unsaturated Organic Compounds by Metal Oxide Nanocatalysts Derived from Single-Source Molecular Precursors. Inorganic Chemistry, 2017, 56, 10596-10608.	1.9	22
30	Prognostic role of a new risk index for the prediction of 30-day cardiovascular mortality in patients with acute pulmonary embolism: the Age-Mean Arterial Pressure Index (AMAPI). Heart and Vessels, 2017, 32, 1478-1487.	0.5	8
31	Hydrogen peroxide activation by fluorophilic polyoxotungstates for fast and selective oxygen transfer catalysis. Dalton Transactions, 2016, 45, 14544-14548.	1.6	11
32	Cardiovascular disease in patients with inflammatory bowel disease: An issue in no guidelines land. International Journal of Cardiology, 2016, 222, 984-985.	0.8	7
33	Photophysical Characterization and Recognition Behaviour of a Bis(dansylated) Polyoxometalate. European Journal of Inorganic Chemistry, 2016, 2016, 3405-3410.	1.0	7
34	Dual Role of Zirconium Oxoclusters in Hybrid Nanoparticles: Cross-Linkers and Catalytic Sites. ACS Applied Materials & Interfaces, 2016, 8, 26275-26284.	4.0	11
35	ECG parameters predict left ventricular conduction delay in patients with left ventricular dysfunction. Heart Rhythm, 2016, 13, 2289-2296.	0.3	18
36	Engineering of oxoclusters-reinforced polymeric materials with application as heterogeneous oxydesulfurization catalysts. Applied Catalysis B: Environmental, 2016, 182, 636-644.	10.8	22

#	Article	IF	Citations
37	Hydrolytic Stability and Hydrogen Peroxide Activation of Zirconium-Based Oxoclusters. European Journal of Inorganic Chemistry, 2015, 2015, 194-194.	1.0	0
38	Dynamic Antifouling of Catalytic Pores Armed with Oxygenic Polyoxometalates. Advanced Materials Interfaces, 2015, 2, 1500034.	1.9	11
39	Preparation of Polymeric Membranes and Microcapsules Using an Ionic Liquid as Morphology Control Additive. Macromolecular Symposia, 2015, 357, 159-167.	0.4	22
40	Fenton-like catalytic activity of wet-spun chitosan hollow fibers loaded with Fe3O4 nanoparticles: Batch and continuous flow investigations. Journal of Molecular Catalysis A, 2015, 398, 353-357.	4.8	40
41	Viral nano-hybrids for innovative energy conversion and storage schemes. Journal of Materials Chemistry B, 2015, 3, 6718-6730.	2.9	10
42	Viral Nanotemplates Armed with Oxygenic Polyoxometalates for Hydrogen Peroxide Detoxification. European Journal of Inorganic Chemistry, 2015, 2015, 3457-3461.	1.0	4
43	Hydrolytic Stability and Hydrogen Peroxide Activation of Zirconiumâ€Based Oxoclusters. European Journal of Inorganic Chemistry, 2015, 2015, 210-225.	1.0	37
44	Polyoxometalates Catalysts for Sustainable Oxidations and Energy Applications. , 2014, , 586-630.		2
45	Hybrid Materials Based on the Embedding of Organically Modified Transition Metal Oxoclusters or Polyoxometalates into Polymers for Functional Applications: A Review. Materials, 2014, 7, 3956-3989.	1.3	101
46	Catalytic Selfâ€Propulsion of Supramolecular Capsules Powered by Polyoxometalate Cargos. Chemistry - A European Journal, 2014, 20, 10910-10914.	1.7	45
47	Oxygenation by Ruthenium Monosubstituted Polyoxotungstates in Aqueous Solution: Experimental and Computational Dissection of a Ru(III)â€“Ru(V) Catalytic Cycle. Chemistry - A European Journal, 2014, 20, 10932-10943.	1.7	11
48	Chitosan-Polyoxometalate Nanocomposites: Synthesis, Characterization and Application as Antimicrobial Agents. Journal of Cluster Science, 2014, 25, 839-854.	1.7	40
49	Transfer Hydrogenation Catalysis by a N-Heterocyclic Carbene Iridium Complex on a Polyoxometalate Platform. European Journal of Inorganic Chemistry, 2014, 2014, 2356-2360.	1.0	22
50	Positive graphene by chemical design: tuning supramolecular strategies for functional surfaces. Chemical Communications, 2014, 50, 885-887.	2.2	26
51	Catalytic oxygen production mediated by smart capsules to modulate elastic turbulence under a laminar flow regime. Lab on A Chip, 2014, 14, 4391-4397.	3.1	13
52	The supramolecular design of low-dimensional carbon nano-hybrids encoding a polyoxometalate-bis-pyrene tweezer. Chemical Communications, 2014, 50, 4881-4883.	2.2	30
53	Ligand tuning of single-site manganese-based catalytic antioxidants with dual superoxide dismutase and catalase activity. Chemical Communications, 2014, 50, 4607-4609.	2.2	35
54	Bromide Ion Exchange with a Keggin Polyoxometalate on Functionalized Polymeric Membranes: A Theoretical and Experimental Study. Journal of Physical Chemistry B, 2014, 118, 2396-2404.	1.2	9

#	Article	IF	Citations
55	Dynamic Motion of Ruâ€Polyoxometalate Ions (POMs) on Functionalized Fewâ€Layer Graphene. Small, 2013, 9, 3922-3927.	5.2	22
56	A Lewis acid catalytic core sandwiched by inorganic polyoxoanion caps: selective H2O2-based oxidations with [AlIII4(H2O)10(Î²-XW9O33H)2]6â^' (X = AsIII, SbIII). Chemical Communications, 2013, 49, 7914.	2.2	43
57	Knitting the Catalytic Pattern of Artificial Photosynthesis to a Hybrid Graphene Nanotexture. ACS Nano, 2013, 7, 811-817.	7.3	93
58	Surfactant Hydrogels for the Dispersion of Carbonâ€Nanotubeâ€Based Catalysts. Chemistry - A European Journal, 2013, 19, 16415-16423.	1.7	27
59	Shaping the beating heart of artificial photosynthesis: oxygenic metal oxide nano-clusters. Energy and Environmental Science, 2012, 5, 5592.	15.6	93
60	Water Oxidation Catalysis by Molecular Metal-Oxides. Energy Procedia, 2012, 22, 78-87.	1.8	4
61	Hybrid Polyoxotungstates as Functional Comonomers in New Crossâ€Linked Catalytic Polymers for Sustainable Oxidation with Hydrogen Peroxide. Chemistry - A European Journal, 2012, 18, 13195-13202.	1.7	44
62	Thermal behaviour and electrochemical properties of bis(trifluoromethanesulfonyl)amide and dodecatungstosilicate viologen dimers. Physical Chemistry Chemical Physics, 2012, 14, 2710.	1.3	51
63	Organicâ€Inorganic Molecular Nanoâ€Sensors: A Bisâ€Dansylated Tweezerâ€Like Fluoroionophore Integrating a Polyoxometalate Core. European Journal of Organic Chemistry, 2012, 2012, 281-289.	1.2	23
64	Hybrid Polyoxometalates: Merging Organic and Inorganic Domains for Enhanced Catalysis and Energy Applications. Israel Journal of Chemistry, 2011, 51, 259-274.	1.0	34
65	Artificial Photosynthesis Challenges: Water Oxidation at Nanostructured Interfaces. Topics in Current Chemistry, 2011, 303, 121-150.	4.0	34
66	Oxygenic polyoxometalates: a new class of molecular propellers. Chemical Communications, 2011, 47, 1716.	2.2	47
67	Optically Active Tripodal Dendritic Polyoxometalates: Synthesis, Characterization and Their Use in Asymmetric Sulfide Oxidation with Hydrogen Peroxide. European Journal of Inorganic Chemistry, 2011, 2011, 727-738.	1.0	35
68	Tailored Functionalization of Carbon Nanotubes for Electrocatalytic Water Splitting and Sustainable Energy Applications. ChemSusChem, 2011, 4, 1447-1451.	3.6	64
69	Synthesis, Characterisation and Cytotoxicity of Polyoxometalate/Carboxymethyl Chitosan Nanocomposites. Chemistry - A European Journal, 2011, 17, 4619-4625.	1.7	65
70	Reactive Zr^{IV} and Hf^{IV} Butterfly Peroxides on Polyoxometalate Surfaces: Bridging the Gap between Homogeneous and Heterogeneous Catalysis. Chemistry - A European Journal, 2011, 17, 8371-8378.	1.7	77
71	Dendron-functionalized multiwalled carbon nanotubes incorporating polyoxometalates for water-splitting catalysis. Pure and Applied Chemistry, 2011, 83, 1529-1542.	0.9	23
72	Titanium(IV)â€“Salan Catalysts for Asymmetric Sulfoxidation with Hydrogen Peroxide. European Journal of Inorganic Chemistry, 2010, 2010, 5568-5578.	1.0	46

#	Article	IF	Citations
73	Polyoxometalateâ€Based Nâ€Heterocyclic Carbene (NHC) Complexes for Palladiumâ€Mediated Cï£¿C Coupling and Chloroaryl Dehalogenation Catalysis. Chemistry - A European Journal, 2010, 16, 10662-10666.	1.7	55
74	Efficient water oxidation at carbon nanotubeâ€“polyoxometalate electrocatalytic interfaces. Nature Chemistry, 2010, 2, 826-831.	6.6	459
75	Ruthenium polyoxometalate water splitting catalyst: very fast hole scavenging from photogenerated oxidants. Chemical Communications, 2010, 46, 3152.	2.2	165
76	Peroxo-Zr/Hf-Containing Undecatungstosilicates and -Germanates. Inorganic Chemistry, 2010, 49, 7-9.	1.9	75
77	Photo-induced water oxidation with tetra-nuclear ruthenium sensitizer and catalyst: A unique 4 Ã— 4 ruthenium interplay triggering high efficiency with low-energy visible light. Chemical Communications, 2010, 46, 4725.	2.2	162
78	Ironâ€Substituted Polyoxotungstates as Inorganic Synzymes: Evidence for a Biomimetic Pathway in the Catalytic Oxygenation of Catechols. Chemistry - A European Journal, 2009, 15, 7854-7858.	1.7	32
79	Microwaveâ€Assisted Functionalization of Carbon Nanostructures in Ionic Liquids. Chemistry - A European Journal, 2009, 15, 12837-12845.	1.7	47
80	Enantiopure Dendritic Polyoxometalates: Chirality Transfer from Dendritic Wedges to a POM Cluster for Asymmetric Sulfide Oxidation. Chemistry - A European Journal, 2009, 15, 8703-8708.	1.7	58
81	Optically Active Polyoxotungstates Bearing Chiral Organophosphonate Substituents. European Journal of Inorganic Chemistry, 2009, 2009, 5164-5174.	1.0	49
82	Water Oxidation at a Tetraruthenate Core Stabilized by Polyoxometalate Ligands: Experimental and Computational Evidence To Trace the Competent Intermediates. Journal of the American Chemical Society, 2009, 131, 16051-16053.	6.6	195
83	Metal-free, retro-cycloaddition of fulleropyrrolidines in ionic liquids under microwave irradiation. Chemical Communications, 2009, , 3940.	2.2	26
84	H₂O₂ activation by heteropolyacids with defect structures: the case of Î³â€[(XO₄)W₁₀O₃₂]^{nâ^'} (Xâ€‰=â€‰Si, Ge, nâ€‰=â€‰8; Xâ€‰=â€‰P		
85	Chiral Strandbergâ€Type Molybdates [(RPO₃)₂Mo₅O₁₅]^{2â^'} as Molecular Gelators: Selfâ€Assembled Fibrillar Nanostructures with Enhanced Optical Activity. Angewandte Chemie - International Edition, 2008, 47, 7275-7279.	7.2	113
86	Catalytic Membranes and Membrane Reactors: An Integrated Approach to Catalytic Process with a High Efficiency and a Low Environmental Impact. Chinese Journal of Catalysis, 2008, 29, 1152-1158.	6.9	20
87	Polyoxometalate Embedding of a Tetraruthenium(IV)-oxo-core by Template-Directed Metalation of [Î³-SiW₁₀O₃₆]^{8â^'}: A Totally Inorganic Oxygen-Evolving Catalyst. Journal of the American Chemical Society, 2008, 130, 5006-5007.	6.6	571
88	Catalytic Strategies for Sustainable Oxidations in Water. Synthesis, 2008, 2008, 1971-1978.	1.2	23
89	Fast Catalytic Epoxidation with H₂O₂ and [Î³-SiW₁₀O₃₆(PhPO)₂]⁴⁻ in Ionic Liquids under Microwave Irradiation. Journal of Organic Chemistry, 2007, 72, 8954-8957.	1.7	55
90	Asymmetric Tetraprotonation of Î³-[(SiO4)W10O32]8â^' Triggers a Catalytic Epoxidation Reaction: Perspectives in the Assignment of the Active Catalyst. Angewandte Chemie - International Edition, 2007, 46, 3255-3258.	7.2	72

#	Article	IF	Citations
91	Aerobic oxidation of cis-cyclooctene by iron-substituted polyoxotungstates: Evidence for a metal initiated auto-oxidation mechanism. Journal of Molecular Catalysis A, 2007, 262, 36-40.	4.8	32
92	Hybrid Polyoxotungstates as Second-Generation POM-Based Catalysts for Microwave-Assisted H2O2Activation. Organic Letters, 2006, 8, 3671-3674.	2.4	110
93	Solvent-free, heterogeneous photooxygenation of hydrocarbons by Hyflon? membranes embedding a fluorous-tagged decatungstate. Chemical Communications, 2006, , 4533.	2.2	65
94	Hybrid Photocatalytic Membranes Embedding Decatungstate for Heterogeneous Photooxydation. Desalination, 2006, 200, 705-707.	4.0	5
95	Bio-inspired oxidations with polyoxometalate catalysts. Journal of Molecular Catalysis A, 2006, 251, 93-99.	4.8	62
96	Hybrid photocatalytic membranes embedding decatungstate for heterogeneous photooxygenation. Topics in Catalysis, 2006, 40, 133-140.	1.3	49
97	A Feasible Approach for Direct His-Bundle Pacing Using a New Steerable Catheter to Facilitate Precise Lead Placement. Journal of Cardiovascular Electrophysiology, 2005, 17, 050914081521011.	0.8	110
98	Aerobic Photooxidation in Water by Polyoxotungstates: The Case of Uracil. European Journal of Organic Chemistry, 2005, 2005, 4897-4903.	1.2	7
99	Microwave-Assisted Fast Cyclohexane Oxygenation Catalyzed by Iron-Substituted Polyoxotungstates. Advanced Synthesis and Catalysis, 2005, 347, 1909-1912.	2.1	47
100	Photooxidation in Water by New Hybrid Molecular Photocatalysts Integrating an Organic Sensitizer with a Polyoxometalate Core. Advanced Synthesis and Catalysis, 2004, 346, 648-654.	2.1	96
101	Vanadium-Bromoperoxidase-Mimicking Systems: Direct Evidence of a Hypobromite-Like Vanadium Intermediate. European Journal of Inorganic Chemistry, 2003, 2003, 42-46.	1.0	37
102	Heterogeneous Photooxidation of Alcohols in Water by Photocatalytic Membranes Incorporating Decatungstate. Advanced Synthesis and Catalysis, 2003, 345, 1119-1126.	2.1	103
103	Efficient Sensitized Photooxygenation in Water by a Porphyrinâ"Cyclodextrin Supramolecular Complex. Organic Letters, 2002, 4, 4635-4637.	2.4	50
104	Vanadium catalyzed reduction of dioxygen to hydrogen peroxide: an oscillating process. Journal of Inorganic Biochemistry, 2000, 80, 191-194.	1.5	21
105	Models for the active site of vanadium-dependent haloperoxidases: insight into the solution structure of peroxo vanadium compounds. Journal of Inorganic Biochemistry, 2000, 80, 41-49.	1.5	87
106	Histidine-Containing Bisperoxovanadium(V) Compounds: Insight Into the Solution Structure by an ESI-MS and51V-NMR Comparative Study. European Journal of Inorganic Chemistry, 1999, 1999, 1489-1495.	1.0	32
107	Direct Synthesis of Stable Adamantylideneadamantane Bromonium Salts. European Journal of Organic Chemistry, 1999, 1999, 3237-3239.	1.2	7