

# Marc Henry

## List of Publications by Year in descending order

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105  
papers

8,234  
citations

126907

33  
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46799

89  
g-index

109  
all docs

109  
docs citations

109  
times ranked

8013  
citing authors

#	ARTICLE	IF	CITATIONS
1	Sol-gel chemistry of transition metal oxides. Progress in Solid State Chemistry, 1988, 18, 259-341.	7.2	2,003
2	A Rationale for the Large Breathing of the Porous Aluminum Terephthalate (MIL-53) Upon Hydration. Chemistry - A European Journal, 2004, 10, 1373-1382.	3.3	1,815
3	Chemical modification of alkoxide precursors. Journal of Non-Crystalline Solids, 1988, 100, 65-76.	3.1	741
4	Hydrolysis of titanium alkoxides: Modification of the molecular precursor by acetic acid. Journal of Non-Crystalline Solids, 1987, 89, 206-216.	3.1	598
5	Sol-gel synthesis of manganese oxides. Journal of Solid State Chemistry, 1990, 88, 325-333.	2.9	264
6	Aqueous chemistry of metal cations: Hydrolysis, condensation and complexation. , 1992, , 153-206.		225
7	Extending the {(Mo)Mo <sub>5</sub> } <sub>12</sub> M <sub>30</sub> Capsule Keplerate Sequence: A {Cr <sub>30</sub> } Cluster of S=3/2 Metal Centers with a {Na(H <sub>2</sub> O) <sub>12</sub> } Encapsulate. Angewandte Chemie - International Edition, 2007, 46, 6106-6110.	13.8	141
8	Synthesis and Molecular Structures of Some New Titanium(IV) Aryloxides. Journal of the American Chemical Society, 2001, 123, 11632-11637.	13.7	86
9	Order-Disorder in the Super-Sodalite Zn <sub>3</sub> Al <sub>6</sub> (PO <sub>4</sub> ) <sub>12</sub> ·4H <sub>2</sub> O (MIL-74): A Combined XRD-NMR Assessment. Journal of the American Chemical Society, 2003, 125, 9102-9110.	13.7	85
10	Sol-gel synthesis and characterization of titanium oxo-acetate polymers. Materials Research Bulletin, 1990, 25, 1519-1529.	5.2	82
11	Thermodynamics of Hydrogen Bond Patterns in Supramolecular Assemblies of Water Molecules. ChemPhysChem, 2002, 3, 607-616.	2.1	82
12	Molecular Weights of Cyclic and Hollow Clusters Measured by DOSY NMR Spectroscopy. Journal of the American Chemical Society, 2009, 131, 17254-17259.	13.7	82
13	Nonempirical Quantification of Molecular Interactions in Supramolecular Assemblies. ChemPhysChem, 2002, 3, 561-569.	2.1	81
14	The oxalate route to superconducting YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-x</sub> . Solid State Communications, 1987, 64, 881-883.	1.9	69
15	MIL-50, an Open-Framework GaPO with a Periodic Pattern of Small Water Ponds and Dry Rubidium Atoms: A Combined XRD, NMR, and Computational Study. Journal of the American Chemical Society, 2003, 125, 1912-1922.	13.7	66
16	The role of complexing ligands in the formation of non-aggregated nanoparticles of zirconia. Journal of Sol-Gel Science and Technology, 1994, 1, 233-240.	2.4	65
17	Cooperative Hydrogen-Bonding Effects in a Water Square: A Single-Crystal Neutron and Partial Atomic Charges and Hardness Analysis Study. Journal of the American Chemical Society, 2005, 127, 11063-11074.	13.7	64
18	Emergence of the Coherent Structure of Liquid Water. Water (Switzerland), 2012, 4, 510-532.	2.7	63

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19	Synthesis of niobium pentoxide gels. <i>Journal of Non-Crystalline Solids</i> , 1986, 79, 383-395.	3.1	62
20	Practical improvements in soil redox potential (Eh) measurement for characterisation of soil properties. Application for comparison of conventional and conservation agriculture cropping systems. <i>Analytica Chimica Acta</i> , 2016, 906, 98-109.	5.4	58
21	Is Water Templating Nanoporous Materials?. <i>Chemistry - A European Journal</i> , 2004, 10, 1366-1372.	3.3	54
22	Amphiphilic organorutheniumoxomolybdenumoxovanadium clusters. <i>Polyhedron</i> , 1998, 17, 2817-2827.	2.2	51
23	New Insights into an Old Molecule: Interaction Energies of Theophylline Crystal Forms. <i>Crystal Growth and Design</i> , 2012, 12, 1395-1401.	3.0	51
24	Free and bound polarons in vanadium pentoxide. <i>Journal of Physics C: Solid State Physics</i> , 1982, 15, 7133-7141.	1.5	50
25	Chemical and Structural Indicators for Large Redox Potentials in Fe-Based Positive Electrode Materials. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 10832-10839.	8.0	50
26	The Structure of Water in $\beta$ -Sulfonatocalix[4]arene. <i>Chemistry - A European Journal</i> , 2011, 17, 10259-10271.	3.3	46
27	Chemistry of 2,2,6,6-Tetramethyl-3,5-heptanedione (Hthd) Modification of Zirconium and Hafnium Propoxide Precursors. <i>Inorganic Chemistry</i> , 2006, 45, 4938-4950.	4.0	44
28	Molecular tectonics: geometry and energy based analysis of coordination networks. <i>New Journal of Chemistry</i> , 2004, 28, 897.	2.8	41
29	Physico-Chemical, Biological and Therapeutic Characteristics of Electrolyzed Reduced Alkaline Water (ERAW). <i>Water (Switzerland)</i> , 2013, 5, 2094-2115.	2.7	39
30	Hydrothermal synthesis of TiO <sub>2</sub> anatase nanocrystals using hexapristmatic-shaped oxo-carboxylate complexes. <i>Comptes Rendus Chimie</i> , 2002, 5, 59-66.	0.5	37
31	Synthesis of non-aggregated nanometric crystalline zirconia particles. <i>Materials Research Bulletin</i> , 1994, 29, 517-522.	5.2	36
32	Molecular templating using titanium(IV)(oxo)alkoxides and titanium(IV)(oxo)aryloxides. <i>Journal of Materials Chemistry</i> , 2004, 14, 3215.	6.7	36
33	Empirical calculations of <sup>29</sup> Si NMR chemical shielding tensors: A partial charge model investigation of hydrolysis in organically modified alkoxy silanes. <i>Physical Chemistry Chemical Physics</i> , 2000, 2, 23-28.	2.8	34
34	Stereoselective Synthesis of Biphenolate/Binaphtolate Titanate and Zirconate Alkoxide Species: Structural Characterization and Use in the Controlled ROP of Lactide. <i>Inorganic Chemistry</i> , 2012, 51, 10876-10883.	4.0	34
35	Chameleon water: assemblies confined in nanocapsules. <i>Journal of Molecular Liquids</i> , 2005, 118, 155-162.	4.9	33
36	The gel route to Cr <sup>3+</sup> -doped TiO <sub>2</sub> , an ESR study. <i>Journal of Non-Crystalline Solids</i> , 1987, 89, 84-97.	3.1	32

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37	Surface energy of talc and chlorite: Comparison between electronegativity calculation and immersion results. <i>Journal of Colloid and Interface Science</i> , 2007, 305, 352-360.	9.4	31
38	A Remarkable Solvent Effect on the Nuclearity of Neutral Titanium(IV)-Based Helicate Assemblies. <i>Chemistry - A European Journal</i> , 2014, 20, 5092-5101.	3.3	28
39	Molecular Recognition of Titanium(IV) Alkoxides by 2,6-Bis(hydroxymethyl)-p-cresol in the Crystal Engineering of Hybrid Organic-Inorganic Networks. <i>Journal of the American Chemical Society</i> , 2001, 123, 5612-5613.	13.7	27
40	Nanocapsule water-based chemistry. <i>Comptes Rendus Chimie</i> , 2003, 6, 1201-1208.	0.5	26
41	Polyoxomolybdate-based selective membranes for chemical protection. <i>Journal of Membrane Science</i> , 2011, 373, 196-201.	8.2	26
42	Molecular tectonics: design of 2-D networks by simultaneous use of charge-assisted hydrogen and coordination bonds. <i>Chemical Communications</i> , 2009, , 6786.	4.1	25
43	General principles driving the chemical reactivity of titanium(iv) alkoxides Electronic supplementary information (ESI) available: computational details, final crystal structure in CIF format and charge distribution from the PACHA output for the complexes described in the text. See <a href="http://www.rsc.org/suppdata/ni/b3/b312486i/">http://www.rsc.org/suppdata/ni/b3/b312486i/</a> . <i>New Journal of Chemistry</i> , 2004, 28, 764.	2.8	24
44	Calculation of surface enthalpy of solids from an ab initio electronegativity based model: case of ice. <i>Journal of Colloid and Interface Science</i> , 2003, 263, 554-561.	9.4	23
45	Toward colored reticular titanium-based hybrid networks: Evaluation of the reactivity of the [Ti8O8(OOCCH2But)16] wheel with phenol, resorcinol and catechol. <i>Polyhedron</i> , 2013, 57, 70-76.	2.2	23
46	Reactions inside a porous nanocapsule/artificial cell: encapsulates' structuring directed by internal surface deprotonations. <i>Chemical Communications</i> , 2006, , 3396-3398.	4.1	21
47	Nuclear Magnetic Resonance characterization of traditional homeopathically manufactured copper (I) complexes. <i>Journal of Inorganic Biochemistry</i> , 2010, 106, 223-239.	1.0	21
48	Synthesis and characterization of a monomeric octahedral C2-symmetric titanium complex bearing two 3,3'-diphenyl-2,2'-biphenol ligands. <i>Dalton Transactions</i> , 2009, , 10178.	3.3	20
49	Retrosynthesis in inorganic crystal structures: application to nesosilicate and inosilicate networks. <i>Coordination Chemistry Reviews</i> , 1998, 178-180, 1109-1163.	18.8	19
50	Rational Synthesis of a Family of Neutral Monomeric Heteroleptic Titanium Complexes Based on an Octahedral TiO <sub>4</sub> N <sub>2</sub> Motif. <i>European Journal of Inorganic Chemistry</i> , 2012, 5701-5713.	2.0	19
51	Random glass structure and electron localisation in amorphous V2O5. <i>Journal of Physics C: Solid State Physics</i> , 1981, 14, 829-837.	1.5	18
52	Quantitative Modelization of Hydrogen-Bonding in Polyoxometalate Chemistry. <i>Journal of Cluster Science</i> , 2002, 13, 437-458.	3.3	18
53	Determination of the surface energy of kaolinite and serpentine using PACHA formalism Comparison with immersion experiments. <i>Journal of Colloid and Interface Science</i> , 2006, 303, 617-626.	9.4	18
54	An unprecedented high nuclearity catecholato-based Ti(IV)-architecture bearing labile pyridine ligands. <i>Dalton Transactions</i> , 2014, 43, 3416-3419.	3.3	18

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55	Titanium oxo-clusters derivatized from the $Ti_{10}O_{12}(cat)_8(py)_8$ complex: structural investigation and spectroscopic studies of light absorption. Dalton Transactions, 2016, 45, 8760-8769.	3.3	18
56	Experimental and Theoretical Investigations of Condensation and Disproportionation of $Mn(bpy)Cl_3(H_2O)$ in Aqueous Solution. Inorganic Chemistry, 1999, 38, 4-11.	4.0	17
57	Coordination chemistry under confined conditions: a simplified illustrative view. Comptes Rendus Chimie, 2005, 8, 47-56.	0.5	17
58	A Bowl-Shaped Circular Trinuclear Helicate Generated from a $TiO_4N_2$ Motif by a Multicomponent Self-Assembly Approach. Chemistry - A European Journal, 2015, 21, 2435-2441.	3.3	17
59	Spontaneous Symmetry Breaking during Self-Assembly of a Double Stranded Biphenolate-Based Ti(IV)-Helicate. Inorganic Chemistry, 2010, 49, 6369-6371.	4.0	16
60	Small Polaron Mobility in $LiO_5$ . Physica Status Solidi (B): Basic Research, 1984, 122, 175-182.	1.5	15
61	Full spectroscopic characterization of an hydrolytically stable and colored Ti(IV)-precursor in solution. Comptes Rendus Chimie, 2010, 13, 69-96.	0.5	15
62	Structural characterization of hybrid materials obtained from zirconium n-propoxide and 1,2-ethanediol. Journal of Non-Crystalline Solids, 1994, 170, 1-10.	3.1	14
63	Study of the surface energy of montmorillonite using PACHA formalism. Journal of Colloid and Interface Science, 2007, 306, 175-182.	9.4	14
64	Monomeric Ti(IV)-based complexes incorporating luminescent nitrogen ligands: synthesis, structural characterization, emission spectroscopy and cytotoxic activities. Dalton Transactions, 2016, 45, 19072-19085.	3.3	14
65	Mechanistic aspects of the hydrolysis and condensation of titanium alkoxides complexed by tripodal ligands. Dalton Transactions RSC, 2001, , 2425-2428.	2.3	13
66	Thermodynamic analysis of the immersion of a smectite substituted with Na or Ca: Heat effect due to the cation. Journal of Colloid and Interface Science, 2007, 307, 531-542.	9.4	13
67	Synthetic Approaches to Zigzag-Shaped Oligophenylene Strands Laterally Decorated with Hydroxy Functions. European Journal of Organic Chemistry, 2010, 2010, 6949-6956.	2.4	13
68	Magnetic Properties of Segregated Layers Containing $MII_3(\frac{1}{4}OH)_2$ (M = Co or Ni) Diamond Chains Bridged by cis,cis,cis-1,2,4,5-Cyclohexanetetracarboxylate. Inorganic Chemistry, 2010, 49, 9700-9708.	4.0	12
69	Synthesis and characterisation of copper(II) hydroxide gels. Journal of Sol-Gel Science and Technology, 1996, 6, 155-167.	2.4	10
70	Unraveling Water Structure Inside and Between Nanocapsules. Journal of Cluster Science, 2003, 14, 267-287.	3.3	10
71	Incorporation of Lithium and Sodium in MIL-74 Super-Sodalites: $A_2M_7(PO_4)_{12} \cdot 4tren \cdot A(H_2O)_{16}$ (with A = Li) $T_j$ $ETQq1$ 1 0,784314	2.6	10
72	Synthesis, topology and energy analysis of crystalline resorcinol-based oligophenylene molecules with various symmetries. CrystEngComm, 2013, 15, 6845.	2.6	10

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73	Hofmeister series: The quantum mechanical viewpoint. <i>Current Opinion in Colloid and Interface Science</i> , 2016, 23, 119-125.	7.4	10
74	First-principles derivation of vacuum surface energies from crystal structures. <i>Solid State Sciences</i> , 2003, 5, 1201-1205.	3.2	9
75	Titanium(IV)-based helicates incorporating the ortho-phenylenediamine ligand: a structural and a computational investigation. <i>Dalton Transactions</i> , 2017, 46, 7594-7602.	3.3	9
76	From monomeric complexes to double-stranded helicates constructed around $\text{trans-TiO}_4\text{N}_2$ motifs with intramolecular inter-ligand hydrogen-bonding interactions. <i>Dalton Transactions</i> , 2018, 47, 11113-11122.	3.3	8
77	Metabolic Shifts as the Hallmark of Most Common Diseases: The Quest for the Underlying Unity. <i>International Journal of Molecular Sciences</i> , 2021, 22, 3972.	4.1	8
78	Spectroscopic properties of a mixed-valence binuclear cobalt complex: $[\text{CH}_3\text{N}(\text{PF}_2)_2]_3\text{Co}_2(\text{CO})_2$ . <i>Inorganic Chemistry</i> , 1985, 24, 1946-1949.	4.0	7
79	Application of the Partial Charge Model to the Aqueous Chemistry of Silica and Silicates. <i>Topics in Molecular Organization and Engineering</i> , 1997, , 273-334.	0.1	7
80	Structural Investigation of Pyridinecarboxylato Titanium(IV) Complexes: An Uncommon Monomeric Octacoordinated Complex vs. a Hexaprismatic Architecture. <i>European Journal of Inorganic Chemistry</i> , 2014, 2014, 357-363.	2.0	7
81	Changing the Oxothiomolybdate Ring from an Anionic to a Cationic Receptor. <i>Inorganic Chemistry</i> , 2007, 46, 9516-9518.	4.0	6
82	Dipyrrolyldiketonato Titanium(IV) Complexes from Monomeric to Multinuclear Architectures: Synthesis, Stability, and Liquid-Crystal Properties. <i>Inorganic Chemistry</i> , 2020, 59, 12802-12816.	4.0	6
83	Verification of Nuclear Magnetic Resonance Characterization of Traditional Homeopathically Manufactured Metal ( <i>Cuprum metallicum</i> ) and Plant ( <i>Gelsemium sempervirens</i> ) Medicines and Controls. <i>Homeopathy</i> , 2021, 110, 042-051.	1.0	6
84	Complexing mercuric oxide sols by acetone. <i>Journal of Non-Crystalline Solids</i> , 1993, 159, 22-30.	3.1	5
85	Bent 1,10-Phenanthroline Ligands within Octahedral Complexes Constructed around a $\text{TiO}_4\text{N}_2$ Core. <i>Inorganic Chemistry</i> , 2020, 59, 12005-12016.	4.0	5
86	A guest-induced reversible switching of a self-assembled H-bonded supramolecular framework. <i>Chemical Communications</i> , 2011, 47, 9630.	4.1	4
87	Identification of Zr(IV)-based architectures generated from ligands incorporating the 2,2'-biphenolato unit. <i>Dalton Transactions</i> , 2016, 45, 7998-8007.	3.3	4
88	Evaluation of the stereoselectivity for titanium(IV)-based coordination entities induced by the enantiopure diphenylethene-1,2-diamine ligand. <i>Inorganica Chimica Acta</i> , 2019, 498, 119119.	2.4	4
89	Modeling $^{17}\text{O}$ NMR Tensors' efg and Chemical Shifts' in Oxides and Polyoxometallates. <i>ACS Symposium Series</i> , 1999, , 277-303.	0.5	3
90	Water: Facts without Myths. <i>Water (Switzerland)</i> , 2009, 1, 3-4.	2.7	3

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91	Serendipitous Self-Assembly of Cyclometalated Complexes through Hydrogen Bonds: Dimers or Chains within Compact or Porous Networks. <i>Organometallics</i> , 2013, 32, 6195-6200.	2.3	3
92	Investigation of the protonation state of the macrocyclic $\{H_nP_8W_{48}O_{184}\}$ anion by modeling $^{183}W$ NMR chemical shifts. <i>New Journal of Chemistry</i> , 2017, 41, 6112-6119.	2.8	3
93	From a bulk solid to thin films of a hybrid material derived from the $[Ti_{10}O_{12}(cat)_8(py)_8]$ oxo-cluster and poly(4-vinylpyridine). <i>New Journal of Chemistry</i> , 2019, 43, 1581-1588.	2.8	3
94	Symmetry Decrease between Self-Assembled Circular $TiO_4N_2$ -Based Helicates. <i>European Journal of Inorganic Chemistry</i> , 2020, 2020, 3527-3531.	2.0	3
95	Crystal formation of 1D coordination polymers based on chiral, achiral and racemic 1,2-cyclohexane scaffolds. <i>CrystEngComm</i> , 2020, 22, 1746-1753.	2.6	2
96	Thermodynamics of Life. <i>Substantia</i> , 2021, 5, .	0.3	1
97	The Hydrogen Bond. <i>Inference</i> , 2015, 1, .	0.0	1
98	Super-Saturated Chemistry. <i>Inference</i> , 2016, 2, .	0.0	1
99	An alternate $[2\text{Å}-2]$ grid constructed around $TiO_4N_2$ units. <i>Chemistry - A European Journal</i> , 2022, , .	3.3	1
100	Singlet Dioxygen $^1O_2$ , its Generation, Physico-Chemical Properties and its Possible Hormetic Behavior in Cancer Therapy. <i>Substantia</i> , 2022, 6, 25-36.	0.3	1
101	MIL-50, an Open-Framework GaPO with a Periodic Pattern of Small Water Ponds and Dry Rubidium Atoms: A Combined XRD, NMR, and Computational Study.. <i>ChemInform</i> , 2003, 34, no.	0.0	0
102	Water and Its Mysteries. <i>Inference</i> , 2019, 4, .	0.0	0
103	The Fourth State of Water. <i>Inference</i> , 2019, 4, .	0.0	0
104	The Virus. <i>Inference</i> , 2019, 5, .	0.0	0
105	Is the Second Law of Thermodynamics Able to Classify Drugs?. <i>Substantia</i> , 2022, 6, 37-47.	0.3	0