

# Pedro M Aguiar

## List of Publications by Year in descending order

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44  
papers

1,277  
citations

331670

21  
h-index

377865

34  
g-index

46  
all docs

46  
docs citations

46  
times ranked

1665  
citing authors

#	ARTICLE	IF	CITATIONS
1	NAD+ analog reveals PARP-1 substrate-blocking mechanism and allosteric communication from catalytic center to DNA-binding domains. <i>Nature Communications</i> , 2018, 9, 844.	12.8	163
2	Probing alkali coordination environments in alkali borate glasses by multinuclear magnetic resonance. <i>Journal of Non-Crystalline Solids</i> , 2007, 353, 2582-2590.	3.1	96
3	Structure and Multinuclear Solid-State NMR of a Highly Birefringent Lead-Gold Cyanide Coordination Polymer. <i>Journal of the American Chemical Society</i> , 2006, 128, 3669-3676.	13.7	73
4	Application of static microcoils and WURST pulses for solid-state ultra-wideline NMR spectroscopy of quadrupolar nuclei. <i>Chemical Physics Letters</i> , 2008, 466, 227-234.	2.6	53
5	Structural and Spectroscopic Impact of Tuning the Stereochemical Activity of the Lone Pair in Lead(II) Cyanoaurate Coordination Polymers via Ancillary Ligands. <i>Inorganic Chemistry</i> , 2008, 47, 6353-6363.	4.0	50
6	The occurrence of tetrahedrally coordinated Al and B in tourmaline: An <sup>11</sup> B and <sup>27</sup> Al MAS NMR study. <i>American Mineralogist</i> , 2009, 94, 785-792.	1.9	47
7	Mushroom elbaite from the Kat Chay mine, Momeik, near Mogok, Myanmar: I. Crystal chemistry by SREF, EMPA, MAS NMR and Mössbauer spectroscopy. <i>Mineralogical Magazine</i> , 2008, 72, 747-761.	1.4	45
8	Local and Average Structure in Zinc Cyanide: Toward an Understanding of the Atomistic Origin of Negative Thermal Expansion. <i>Journal of the American Chemical Society</i> , 2013, 135, 16478-16489.	13.7	44
9	Boron speciation and non-bridging oxygens in high-alkali borate glasses. <i>Journal of Non-Crystalline Solids</i> , 2007, 353, 1834-1839.	3.1	41
10	Experimental and numerical examination of eddy (Foucault) currents in rotating micro-coils: Generation of heat and its impact on sample temperature. <i>Journal of Magnetic Resonance</i> , 2009, 200, 6-14.	2.1	41
11	Oscillatory zoned liddicoatite from Anjanabonoina, central Madagascar. I. Crystal chemistry and structure by SREF and <sup>11</sup> B and <sup>27</sup> Al MAS NMR spectroscopy. <i>Canadian Mineralogist</i> , 2011, 49, 63-88.	1.0	39
12	Network connectivity in cesium borosilicate glasses: <sup>17</sup> O multiple-quantum MAS and double-resonance NMR. <i>Journal of Non-Crystalline Solids</i> , 2013, 363, 50-56.	3.1	32
13	Highly Cross-Linked, Self-Doped Polyaniline Exhibiting Unprecedented Hardness. <i>Chemistry of Materials</i> , 2005, 17, 3803-3805.	6.7	31
14	Redox Couple Involving NO <sub>3</sub> <sup>-</sup> in Aerobic Pd-Catalyzed Oxidation of sp <sup>3</sup> -C-H Bonds: Direct Evidence for Pd <sup>II</sup> -NO <sub>3</sub> <sup>-</sup> /NO <sub>2</sub> <sup>-</sup> Interactions Involved in Oxidation and Reductive Elimination. <i>Journal of the American Chemical Society</i> , 2017, 139, 1177-1190.	13.7	31
15	Factors Affecting the Solid-State Structure and Dimensionality of Mercury Cyanide/Chloride Double Salts, and NMR Characterization of Coordination Geometries. <i>Inorganic Chemistry</i> , 2004, 43, 6557-6567.	4.0	29
16	Germanium-73 NMR of amorphous and crystalline GeO <sub>2</sub> . <i>Chemical Communications</i> , 2009, , 4660.	4.1	27
17	Self-complementary nickel halides enable multifaceted comparisons of intermolecular halogen bonds: fluoride ligands vs. other halides. <i>Chemical Science</i> , 2018, 9, 3767-3781.	7.4	27
18	DNA recognition for virus assembly through multiple sequence-independent interactions with a helix-turn-helix motif. <i>Nucleic Acids Research</i> , 2016, 44, 776-789.	14.5	26

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19	A paramagnetic Cu(i)/Cu(ii)/Zn(ii) coordination polymer with multiple CN-binding modes and its solid-state NMR characterization. <i>Chemical Communications</i> , 2006, , 744.	4.1	25
20	Design, fabrication and evaluation of a low-cost homogeneous portable permanent magnet for NMR and MRI. <i>Comptes Rendus Chimie</i> , 2010, 13, 388-393.	0.5	25
21	Slow magic-angle coil spinning: A high-sensitivity and high-resolution NMR strategy for microscopic biological specimens. <i>Magnetic Resonance in Medicine</i> , 2010, 63, 269-274.	3.0	24
22	Benzo[ <i>f</i> ] and Benzo[ <i>h</i> ] Coumarin-Containing Poly(methyl methacrylate)s and Poly(methyl) Tj ETQq0 0 0 rgBT /Overloc 2008, 209, 84-103.	2.2	23
23	Medium-range order in cesium borate glasses probed by double-resonance NMR. <i>Solid State Nuclear Magnetic Resonance</i> , 2005, 27, 10-15.	2.3	20
24	Natural abundance <sup>13</sup> C and <sup>15</sup> N solid-state NMR analysis of paramagnetic transition-metal cyanide coordination polymers. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 6925.	2.8	20
25	A low-cost strategy for <sup>43</sup> Ca solid-state NMR spectroscopy. <i>Chemical Science</i> , 2011, 2, 815.	7.4	20
26	Synthesis of a series of new platinum organometallic complexes derived from bidentate Schiff-base ligands and their catalytic activity in the hydrosilylation and dehydrosilylation of styrene. <i>Dalton Transactions</i> , 2015, 44, 11919-11928.	3.3	20
27	Hyperbranched Polymers Containing Cyclopentadienyliron Complexes. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2005, 15, 349-359.	3.7	19
28	Mushroom elbaite from the Kat Chay mine, Momeik, near Mogok, Myanmar: II. Zoning and crystal growth. <i>Mineralogical Magazine</i> , 2008, 72, 999-1010.	1.4	17
29	Conserved asymmetry underpins homodimerization of Dicer-associated double-stranded RNA-binding proteins. <i>Nucleic Acids Research</i> , 2017, 45, 12577-12584.	14.5	17
30	<sup>1</sup> H high resolution magic-angle coil spinning (HR-MACS) <sup>13</sup> C NMR metabolic profiling of whole <i>Saccharomyces cerevisiae</i> cells: a demonstrative study. <i>Frontiers in Chemistry</i> , 2014, 2, 38.	3.6	16
31	Simultaneous Recovery of Organic and Inorganic Content of Paper Deinking Residue through Low-Temperature Microwave-Assisted Pyrolysis. <i>Environmental Science &amp; Technology</i> , 2015, 49, 2398-2404.	10.0	16
32	Photochemical pump and NMR probe to monitor the formation and kinetics of hyperpolarized metal dihydrides. <i>Chemical Science</i> , 2016, 7, 7087-7093.	7.4	16
33	Insights into Oxygen Exchange Between Gaseous O <sub>2</sub> and Supported Vanadium Oxide Catalysts via <sup>17</sup> O NMR. <i>Chemistry of Materials</i> , 2009, 21, 4127-4134.	6.7	15
34	Capacitance-Assisted Sustainable Electrochemical Carbon Dioxide Mineralisation. <i>ChemSusChem</i> , 2018, 11, 137-148.	6.8	15
35	Building Large Structures with Curved Aromatic Surfaces by Complexing Metals with Phosphangulene. <i>Journal of the American Chemical Society</i> , 2019, 141, 18740-18753.	13.7	11
36	Structural studies of solution-made high alkali content borate glasses. <i>Journal of Non-Crystalline Solids</i> , 2006, 352, 674-678.	3.1	10

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37	Field Stabilization of the Iseult/Inumac Magnet Operating in Driven Mode. IEEE Transactions on Applied Superconductivity, 2010, 20, 790-793.	1.7	10
38	Configurationally flexible zinc complexes as catalysts for <i>rac</i> -lactide polymerisation. Dalton Transactions, 2018, 47, 16279-16291.	3.3	10
39	The crystal chemistry of "wheatsheaf"™ tourmaline from Mogok, Myanmar. Mineralogical Magazine, 2011, 75, 65-86.	1.4	9
40	Cyanide orientational ordering and copper electric field gradients in CuCN <sub>2</sub> H <sub>4</sub> . Physical Chemistry Chemical Physics, 2009, 11, 834-840.	2.8	8
41	A convenient, high-sensitivity approach to multiple-resonance NMR at nanolitre volumes with inductively-coupled micro-coils. Chemical Communications, 2011, 47, 2119-2121.	4.1	7
42	Functionalising hydrothermal carbons for catalysis – investigating solid acids in esterification reactions. Catalysis Science and Technology, 2020, 10, 776-787.	4.1	6
43	Design of Pseudodiproline Dimers as Mimetics of Pro-Pro Units: Stereocontrolled Synthesis, Configurational Relevance, and Structural Properties. Journal of Organic Chemistry, 2021, 86, 16834-16847.	3.2	3
44	Nuclear Magnetic Resonance and Computational Study of trans-(1,2,3-Butadiene)bis(trichloroplatinate(II)). Organometallics, 2020, 39, 4723-4734.	2.3	0