

# Alessandro Ponti

## List of Publications by Citations

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94  
papers

2,125  
citations

25  
h-index

42  
g-index

101  
ext. papers

2,292  
ext. citations

4.2  
avg, IF

4.79  
L-index

#	Paper	IF	Citations
94	A smart platform for hyperthermia application in cancer treatment: cobalt-doped ferrite nanoparticles mineralized in human ferritin cages. <i>ACS Nano</i> , <b>2014</b> , 8, 4705-19	16.7	154
93	Cu/Cu-oxide nanoparticles as catalyst in the azide-alkyne cycloaddition. <i>New Journal of Chemistry</i> , <b>2006</b> , 30, 1137-1139	3.6	151
92	Pebbles and PebbleJuggler: software for accurate, unbiased, and fast measurement and analysis of nanoparticle morphology from transmission electron microscopy (TEM) micrographs. <i>Nanoscale</i> , <b>2012</b> , 4, 5356-72	7.7	105
91	Dependence of copper species on the nature of the support for dispersed CuO catalysts. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 7851-61	3.4	92
90	Insight into the properties of Fe oxide present in high concentrations on mesoporous silica. <i>Journal of Catalysis</i> , <b>2009</b> , 262, 224-234	7.3	85
89	Physisorption and Diffusion of Hydrogen Atoms on Graphite from Correlated Calculations on the H <sub>2</sub> /Graphene Model System. <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 5825-5829	3.8	85
88	DFT-Based Regioselectivity Criteria for Cycloaddition Reactions. <i>Journal of Physical Chemistry A</i> , <b>2000</b> , 104, 8843-8846	2.8	70
87	Arylazide cycloaddition to methyl propiolate: DFT-based quantitative prediction of regioselectivity. <i>Chemistry - A European Journal</i> , <b>2003</b> , 9, 2770-4	4.8	58
86	Monodisperse Octahedral MnS and MnO Nanoparticles by the Decomposition of Manganese Oleate in the Presence of Sulfur. <i>Chemistry of Materials</i> , <b>2010</b> , 22, 2804-2813	9.6	56
85	Simulation of magnetic resonance static powder lineshapes: A quantitative assessment of spherical codes. <i>Journal of Magnetic Resonance</i> , <b>1999</b> , 138, 288-97	3	49
84	Spider-like oligothiophenes. <i>Chemistry - A European Journal</i> , <b>2008</b> , 14, 459-71	4.8	45
83	DFT-based quantitative prediction of regioselectivity: cycloaddition of nitrilimines to methyl propiolate. <i>Journal of Organic Chemistry</i> , <b>2001</b> , 66, 5252-5	4.2	45
82	Direct observation of charge order in underdoped and optimally doped Bi <sub>2</sub> (Sr,La) <sub>2</sub> CuO <sub>6</sub> by resonant inelastic x-ray scattering. <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	43
81	One-step synthesis and functionalization of hydroxyl-decorated magnetite nanoparticles. <i>Journal of Colloid and Interface Science</i> , <b>2008</b> , 322, 173-9	9.3	43
80	Nuclear coherence-transfer echoes in pulsed EPR. <i>Journal of Chemical Physics</i> , <b>1995</b> , 102, 5207-5219	3.9	40
79	Nanodispersed Fe Oxide Supported Catalysts with Tuned Properties. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 4635-4642	3.8	38
78	Zwitterion-Coated Iron Oxide Nanoparticles: Surface Chemistry and Intracellular Uptake by Hepatocarcinoma (HepG2) Cells. <i>Langmuir</i> , <b>2015</b> , 31, 7381-90	4	35

77	Nitrations and their precursors: charge density rearrangements and nitrogen-15 NMR chemical shift changes. <i>Journal of the American Chemical Society</i> , <b>1992</b> , 114, 8634-8644	16.4	34
76	Uncommon aqueous media for nitrilimine cycloadditions. I. Synthetic and mechanistic aspects in the formation of 1-aryl-5-substituted-4,5-dihydropyrazoles. <i>New Journal of Chemistry</i> , <b>2002</b> , 26, 1340-1345	3.6	33
75	A green approach to magnetically-hard electrically-conducting polyaniline/CoFe <sub>2</sub> O <sub>4</sub> nanocomposites. <i>Composites Science and Technology</i> , <b>2015</b> , 110, 138-144	8.6	30
74	A few simple rules governing hydrogenation of graphene dots. <i>Journal of Chemical Physics</i> , <b>2011</b> , 135, 164701	3.9	29
73	Picosecond solvation dynamics of alkali cations in superfluid He <sub>4</sub> nanodroplets. <i>Physical Review B</i> , <b>2014</b> , 90,	3.3	28
72	Three-Fragment Counterpoise Correction of Potential Energy Curves for Proton-Transfer Reactions. <i>Journal of Physical Chemistry A</i> , <b>2003</b> , 107, 7589-7596	2.8	27
71	Echo phenomena in electron paramagnetic resonance spectroscopy. <i>Applied Magnetic Resonance</i> , <b>1994</b> , 7, 363-403	0.8	27
70	Process-scale preparation of enantiomerically pure $\beta$ -lactones by asymmetric hydrogenation of $\alpha$ -ketoesters and comparative tests of the sensory properties of some antipodes. <i>Tetrahedron: Asymmetry</i> , <b>2004</b> , 15, 2289-2297		26
69	DFT-HSAB prediction of regioselectivity in 1,3-dipolar cycloadditions: behavior of (4-substituted)benzonitrile oxides towards methyl propiolate. <i>Chemistry - A European Journal</i> , <b>2006</b> , 12, 1156-61	4.8	25
68	Assessment of mechanistic hypotheses of 1,3-dipolar cycloaddition of (arylsulfonyl)allene to nitrilimines by DFT reactivity indices. <i>Tetrahedron</i> , <b>2003</b> , 59, 5225-5229	2.4	24
67	Silver(I) oxide nanoparticles as a catalyst in the azide-alkyne cycloaddition. <i>Tetrahedron Letters</i> , <b>2015</b> , 56, 5727-5730	2	23
66	Controlled growth of Ni/NiO core-shell nanoparticles: Structure, morphology and tuning of magnetic properties. <i>Applied Surface Science</i> , <b>2014</b> , 306, 2-6	6.7	22
65	Configurational stability of molecular propellers: the [corrected] resolution of phosphorus-centered [corrected] residual enantiomers. <i>Angewandte Chemie - International Edition</i> , <b>2006</b> , 45, 6193-6	16.4	22
64	Stereoselective intramolecular cycloadditions of homochiral nitrile imines: synthesis of enantiomerically pure 3,3a-dihydro-pyrazolo[1,5-a][1,4]benzodiazepine-6(4H)-ones. <i>Tetrahedron: Asymmetry</i> , <b>1999</b> , 10, 2203-2212		22
63	Copper 1D coordination polymers and dimers: Role of the carboxylate and the ammonium cation, crystal structures and magnetic studies. <i>Polyhedron</i> , <b>2013</b> , 53, 157-165	2.7	21
62	Tunability of exchange bias in Ni@NiO core-shell nanoparticles obtained by sequential layer deposition. <i>Nanotechnology</i> , <b>2015</b> , 26, 405704	3.4	20
61	Poly(amidoamine)s carrying TEMPO residues for NMR imaging applications. <i>New Journal of Chemistry</i> , <b>2008</b> , 32, 323-332	3.6	20
60	The electronic structure of nitrilimine: absence of the carbenic form. <i>Chemical Communications</i> , <b>2006</b> , 1030-2	5.8	20

59	Electron spin-echo relaxation and envelope modulation of shallow phosphorus donors in silicon. <i>Physical Review B</i> , <b>2005</b> , 72,	3.3	20
58	Colloidal stability of iron oxide nanocrystals coated with a PEG-based tetra-catechol surfactant. <i>Nanotechnology</i> , <b>2013</b> , 24, 105702	3.4	19
57	FTIR and EPR characterisation of copper-exchanged mordenites and beta zeolites. <i>Journal of the Chemical Society, Faraday Transactions</i> , <b>1997</b> , 93, 2603-2608		17
56	Alternative low-energy mechanisms for isotopic exchange in gas-phase D <sub>2</sub> O-H+(H <sub>2</sub> O) <sub>n</sub> reactions. <i>ChemPhysChem</i> , <b>2006</b> , 7, 894-903	3.2	17
55	Shaped-controlled silicon-doped hematite nanostructures for enhanced PEC water splitting. <i>Catalysis Today</i> , <b>2019</b> , 328, 43-49	5.3	17
54	Towards bio-compatible magnetic nanoparticles: Immune-related effects, in-vitro internalization, and in-vivo bio-distribution of zwitterionic ferrite nanoparticles with unexpected renal clearance. <i>Journal of Colloid and Interface Science</i> , <b>2021</b> , 582, 678-700	9.3	17
53	One-pot synthesis of polyaniline/Fe <sub>3</sub> O <sub>4</sub> nanocomposites with magnetic and conductive behaviour. Catalytic effect of Fe <sub>3</sub> O <sub>4</sub> nanoparticles. <i>Synthetic Metals</i> , <b>2012</b> , 162, 2250-2258	3.6	16
52	Chirality in the absence of rigid stereogenic elements: the absolute configuration of residual enantiomers of C <sub>3</sub> -symmetric propellers. <i>Chemistry - A European Journal</i> , <b>2009</b> , 15, 86-93	4.8	16
51	Electron Paramagnetic Resonance Spectroscopy of Iron(III)-Doped MFI Zeolite. 1. Multifrequency CW-EPR. <i>Journal of Physical Chemistry B</i> , <b>2004</b> , 108, 1999-2005	3.4	16
50	Uncommon aqueous media for nitrilimine cycloadditions. II. Computational study of the effect of water on reaction rate. <i>New Journal of Chemistry</i> , <b>2002</b> , 26, 1346-1351	3.6	16
49	Experimental and theoretical investigations on magneto-structural correlation in trinuclear copper(II) hydroxido propellers. <i>Polyhedron</i> , <b>2018</b> , 145, 22-34	2.7	15
48	Synthesis of Water Dispersible and Catalytically Active Gold-Decorated Cobalt Ferrite Nanoparticles. <i>Langmuir</i> , <b>2016</b> , 32, 7117-26	4	15
47	Magnetic nanoparticles conjugated to chiral imidazolidinone as recoverable catalyst. <i>Journal of Nanoparticle Research</i> , <b>2013</b> , 15, 1	2.3	14
46	pH-sensitive polymersomes: controlling swelling via copolymer structure and chemical composition. <i>Journal of Drug Targeting</i> , <b>2017</b> , 25, 899-909	5.4	14
45	Chirality in the absence of rigid stereogenic elements: the design of configurationally stable C <sub>3</sub> -symmetric propellers. <i>Chemistry - A European Journal</i> , <b>2009</b> , 15, 94-105	4.8	14
44	Regioselectivity of aryl azide cycloaddition to methyl propiolate in aqueous media: experimental evidence versus local DFT HSAB principle. <i>Arkivoc</i> , <b>2007</b> , 2006, 49-56	0.9	14
43	Structure, Defects, and Magnetism of Electrospun Hematite Nanofibers Silica-Coated by Atomic Layer Deposition. <i>Langmuir</i> , <b>2020</b> , 36, 1305-1319	4	13
42	Process-Scale Total Synthesis of Nature-Identical (1 <i>S</i> ,5 <i>S</i> )-7-Hydroxycalamenal in High Enantiomeric Purity through Catalytic Enantioselective Hydrogenation. <i>Helvetica Chimica Acta</i> , <b>2005</b> , 88, 1776-1789	2	13

41	The Nitrilimine-Alkene Cycloaddition Regioselectivity Rationalized by Density Functional Theory Reactivity Indices. <i>Molecules</i> , <b>2017</b> , 22,	4.8	12
40	Colloidal polymer-coated Zn-doped iron oxide nanoparticles with high relaxivity and specific absorption rate for efficient magnetic resonance imaging and magnetic hyperthermia. <i>Journal of Colloid and Interface Science</i> , <b>2020</b> , 579, 186-194	9.3	11
39	Stereoselective nitrilimine cycloadditions to the CN bond of enantiopure N-(1-phenylethyl)-1-arylmethanimines. <i>Tetrahedron: Asymmetry</i> , <b>2004</b> , 15, 3711-3714		10
38	Shallow donor electron spins as qubits in Si and SiGe: a pulsed ESR study. <i>Physica B: Condensed Matter</i> , <b>2003</b> , 340-342, 895-902	2.8	10
37	Coinage metal exciplexes with helium atoms: a theoretical study of M*(2L)He(n) (M = Cu, Ag, Au; L = P,D). <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 18410-23	3.6	9
36	Configurationaly Stable Molecular Propellers: First Resolution of Residual Enantiomers. <i>Angewandte Chemie</i> , <b>2006</b> , 118, 6339-6342	3.6	9
35	Site- and Regioselectivity of Nitrile Oxide-Allene Cycloadditions: DFT-Based Semiquantitative Predictions. <i>Journal of Organic Chemistry</i> , <b>2017</b> , 82, 10710-10714	4.2	8
34	Enantiopure furo[3,4-c]pyrazole derivatives by intramolecular nitrilimine cycloaddition: a stereoselectivity rationale based upon MP2 calculations. <i>Tetrahedron: Asymmetry</i> , <b>2008</b> , 19, 1381-1384		8
33	EPR study of iron-doped MFI zeolite and silicalite catalysts: effect of treatments after synthesis. <i>Research on Chemical Intermediates</i> , <b>2002</b> , 28, 101-116	2.8	8
32	Microwave characterization of magnetically hard and soft ferrite nanoparticles in K-band. <i>Journal of Applied Physics</i> , <b>2014</b> , 116, 154306	2.5	7
31	Simulation of one-dimensional magnetic resonance powder lineshapes reduced to area computation. <i>Chemical Physics Letters</i> , <b>1999</b> , 302, 224-230	2.5	7
30	Nanoparticle-Catalysed 1,3-Dipolar Cycloadditions. <i>European Journal of Organic Chemistry</i> , <b>2020</b> , 2020, 6173-6191	3.2	6
29	Surfactant-controlled composition and crystal structure of manganese(II) sulfide nanocrystals prepared by solvothermal synthesis. <i>Beilstein Journal of Nanotechnology</i> , <b>2015</b> , 6, 2319-29	3	6
28	Quantitative texture analysis from powder-like electron diffraction data. <i>Journal of Applied Crystallography</i> , <b>2011</b> , 44, 454-461	3.8	6
27	Synthesis of bis-(3,5)pyrazolophanes via double cycloadditive macrocyclisation. <i>Tetrahedron</i> , <b>2003</b> , 59, 9315-9322	2.4	6
26	Single-pulse echo and oscillatory free induction decay: The importance of rephasing. <i>Molecular Physics</i> , <b>1998</b> , 95, 943-955	1.7	6
25	Steering the magnetic properties of Ni/NiO/CoO core-shell nanoparticle films: The role of core-shell interface versus interparticle interactions. <i>Physical Review Materials</i> , <b>2017</b> , 1,	3.2	6
24	Multinuclear ( <sup>1</sup> H, <sup>31</sup> P and <sup>195</sup> Pt) NMR study and dynamical analysis of binuclear mu-hydrido mu-carbonyl Pt(I) cations with chelating diphosphines. <i>Dalton Transactions</i> , <b>2004</b> , 2027-35	4.3	5

23	Investigation of Ni@CoO core-shell nanoparticle films synthesized by sequential layer deposition. <i>Applied Surface Science</i> , <b>2017</b> , 396, 1860-1865	6.7	4
22	Reaction of Hydrazonoyl Chlorides to Trimethylsilyl Homoallyl Ethers. <i>Heterocycles</i> , <b>2007</b> , 71, 1095	0.8	4
21	Intramolecular Nitrilimine Cycloadditions to the Thiophene and the Furan Rings. <i>Heterocycles</i> , <b>2007</b> , 71, 1371	0.8	4
20	Size-dependent catalytic effect of magnetite nanoparticles in the synthesis of tunable magnetic polyaniline nanocomposites. <i>Chemical Papers</i> , <b>2021</b> , 75, 5057-5069	1.9	4
19	Manganese Sulfide (MnS) Nanocrystals: Synthesis, Properties, and Applications <b>2016</b> ,		4
18	Personalised Profiling of Innate Immune Memory Induced by Nano-Imaging Particles in Human Monocytes. <i>Frontiers in Immunology</i> , <b>2021</b> , 12, 692165	8.4	4
17	Selective Formation, Reactivity, Redox and Magnetic Properties of Mn and Fe Dinuclear Complexes with Shortened Salen-Type Schiff Base Ligands. <i>International Journal of Molecular Sciences</i> , <b>2020</b> , 21,	6.3	3
16	Nitrilimine cycloadditions catalyzed by iron oxide nanoparticles. <i>Journal of Nanoparticle Research</i> , <b>2018</b> , 20, 1	2.3	3
15	EPR/ENDOR study of the decay of trapped radicals in photopolymerized butane-1,4-diol diacrylate. <i>Journal of Physical Organic Chemistry</i> , <b>1992</b> , 5, 55-61	2.1	3
14	Tensor: A program to extract hyperfine tensors from single crystal EPR and ENDOR data. <i>Computers &amp; Chemistry</i> , <b>1992</b> , 16, 233-238		3
13	Experimental methods in chemical engineering: Mössbauer spectroscopy. <i>Canadian Journal of Chemical Engineering</i> , <b>2021</b> , 99, 2105-2114	2.3	3
12	A comment on the theory of one-dimensional mixing-frequency electron spin echo envelope modulation (MIF-ESEEM) spectroscopy. <i>Applied Magnetic Resonance</i> , <b>1998</b> , 15, 1-9	0.8	2
11	Conformational disorder in the propagating radical of dimethacrylate polymers. <i>Research on Chemical Intermediates</i> , <b>2002</b> , 28, 159-174	2.8	2
10	Angular Momentum and the Two-Dimensional Free Particle. <i>Journal of Chemical Education</i> , <b>1998</b> , 75, 916	2.4	2
9	EPR Study of Triplet Defects in Ca <sub>2</sub> CuO <sub>3</sub> . <i>Applied Magnetic Resonance</i> , <b>1992</b> , 3, 873-881	0.8	2
8	Electron-nuclear double resonance of long-lived radicals in aged X- and Y-type zeolite catalysts. <i>Journal of the Chemical Society, Faraday Transactions</i> , <b>1991</b> , 87, 3151-3155		2
7	The Azide-Allene Dipolar Cycloaddition: Is DFT Able to Predict Site- and Regio-Selectivity?. <i>Molecules</i> , <b>2021</b> , 26,	4.8	2
6	Structural and conformational study of pyrazolobenzodiazonine and pyrazolobenzodiazecine skeletons. <i>Tetrahedron Letters</i> , <b>2015</b> , 56, 3842-3846	2	1

- 5 Interplay between inter- and intraparticle interactions in bi-magnetic core/shell nanoparticles. *Nanoscale Advances*, 5.1 1
- 4 The azidealkyne cycloaddition catalysed by transition metal oxide nanoparticles. *New Journal of Chemistry*, **2019**, 43, 18049-18061 3.6 1
- 3 Synthesis and design of ferro- and ferrimagnetic NPs: Size and shape control in wet-chemistry synthesis **2020**, 333-379
- 2 Physical mechanisms of spin echoes. I. Two-pulse locked echo. *Molecular Physics*, **2000**, 98, 815-827 1.7
- 1 Stereoselective Synthesis by Catalysts Supported on Magnetic Nanoferrite **2020**, 115-157