

# Alessandro Ponti

## List of Publications by Year in descending order

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95  
papers

2,469  
citations

218381

26  
h-index

223531

46  
g-index

101  
all docs

101  
docs citations

101  
times ranked

3982  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Smart Platform for Hyperthermia Application in Cancer Treatment: Cobalt-Doped Ferrite Nanoparticles Mineralized in Human Ferritin Cages. ACS Nano, 2014, 8, 4705-4719.	7.3	180
2	Cu/Cu-oxide nanoparticles as catalyst in the "click" alkyne cycloaddition. New Journal of Chemistry, 2006, 30, 1137-1139.	1.4	165
3	Pebbles and PebbleJuggler: software for accurate, unbiased, and fast measurement and analysis of nanoparticle morphology from transmission electron microscopy (TEM) micrographs. Nanoscale, 2012, 4, 5356.	2.8	130
4	Dependence of Copper Species on the Nature of the Support for Dispersed CuO Catalysts. Journal of Physical Chemistry B, 2006, 110, 7851-7861.	1.2	110
5	Physisorption and Diffusion of Hydrogen Atoms on Graphite from Correlated Calculations on the H <sup>13</sup> C-Coronene Model System. Journal of Physical Chemistry C, 2007, 111, 5825-5829.	1.5	91
6	Insight into the properties of Fe oxide present in high concentrations on mesoporous silica. Journal of Catalysis, 2009, 262, 224-234.	3.1	91
7	DFT-Based Regioselectivity Criteria for Cycloaddition Reactions. Journal of Physical Chemistry A, 2000, 104, 8843-8846.	1.1	77
8	Arylazide Cycloaddition to Methyl Propiolate: DFT-Based Quantitative Prediction of Regioselectivity. Chemistry - A European Journal, 2003, 9, 2770-2774.	1.7	64
9	Monodisperse Octahedral MnS and MnO Nanoparticles by the Decomposition of Manganese Oleate in the Presence of Sulfur. Chemistry of Materials, 2010, 22, 2804-2813.	3.2	62
10	Simulation of Magnetic Resonance Static Powder Lineshapes: A Quantitative Assessment of Spherical Codes. Journal of Magnetic Resonance, 1999, 138, 288-297.	1.2	60
11	One-step synthesis and functionalization of hydroxyl-decorated magnetite nanoparticles. Journal of Colloid and Interface Science, 2008, 322, 173-179.	5.0	53
12	Direct observation of charge order in underdoped and optimally doped $\text{Bi}_{2-x}\text{Sr}_x\text{CuO}_4$ . Physical Review B, 2016, 94, .	1.1	51
13	DFT-Based Quantitative Prediction of Regioselectivity: Cycloaddition of Nitrilimines to Methyl Propiolate. Journal of Organic Chemistry, 2001, 66, 5252-5255.	1.7	50
14	Spider-Like Oligothiophenes. Chemistry - A European Journal, 2008, 14, 459-471.	1.7	45
15	Zwitterion-Coated Iron Oxide Nanoparticles: Surface Chemistry and Intracellular Uptake by Hepatocarcinoma (HepG2) Cells. Langmuir, 2015, 31, 7381-7390.	1.6	41
16	Nuclear coherence transfer echoes in pulsed EPR. Journal of Chemical Physics, 1995, 102, 5207-5219.	1.2	40
17	Nanodispersed Fe Oxide Supported Catalysts with Tuned Properties. Journal of Physical Chemistry C, 2008, 112, 4635-4642.	1.5	40
18	Nitranions and their precursors: charge density rearrangements and nitrogen-15 NMR chemical shift changes. Journal of the American Chemical Society, 1992, 114, 8634-8644.	6.6	38

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19	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> , 2002, 26, 1340-1345.	1.4	37
20	A few simple rules governing hydrogenation of graphene dots. <i>Journal of Chemical Physics</i> , 2011, 135, 164701.	1.2	34
21	Picosecond solvation dynamics of alkali cations in superfluid $^4\text{He}$ nanodroplets. <i>Physical Review B</i> , 2014, 90, ...	1.1	33
22	Silver(I) oxide nanoparticles as a catalyst in the azide-alkyne cycloaddition. <i>Tetrahedron Letters</i> , 2015, 56, 5727-5730.	0.7	33
23	Echo phenomena in electron paramagnetic resonance spectroscopy. <i>Applied Magnetic Resonance</i> , 1994, 7, 363-403.	0.6	30
24	Process-scale preparation of enantiomerically pure $\hat{\beta}$ -lactones by asymmetric hydrogenation of $\hat{\beta}$ -ketoesters and comparative tests of the sensory properties of some antipodes. <i>Tetrahedron: Asymmetry</i> , 2004, 15, 2289-2297.	1.8	30
25	A green approach to magnetically-hard electrically-conducting polyaniline/CoFe <sub>2</sub> O <sub>4</sub> nanocomposites. <i>Composites Science and Technology</i> , 2015, 110, 138-144.	3.8	30
26	Three-Fragment Counterpoise Correction of Potential Energy Curves for Proton-Transfer Reactions. <i>Journal of Physical Chemistry A</i> , 2003, 107, 7589-7596.	1.1	28
27	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> , 2006, 12, 1156-1161.	1.7	27
28	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> , 2021, 582, 678-700.	5.0	27
29	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> , 1999, 10, 2203-2212.	1.8	26
30	Copper 1D coordination polymers and dimers: Role of the carboxylate and the ammonium cation, crystal structures and magnetic studies. <i>Polyhedron</i> , 2013, 53, 157-165.	1.0	25
31	Controlled growth of Ni/NiO core-shell nanoparticles: Structure, morphology and tuning of magnetic properties. <i>Applied Surface Science</i> , 2014, 306, 2-6.	3.1	25
32	Assessment of mechanistic hypotheses of 1,3-dipolar cycloaddition of (arylsulfonyl)allene to nitrilimines by DFT reactivity indices. <i>Tetrahedron</i> , 2003, 59, 5225-5229.	1.0	24
33	Configurationaly Stable Molecular Propellers: First Resolution of Residual Enantiomers. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 6193-6196.	7.2	24
34	Shaped-controlled silicon-doped hematite nanostructures for enhanced PEC water splitting. <i>Catalysis Today</i> , 2019, 328, 43-49.	2.2	24
35	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> , 2020, 579, 186-194.	5.0	24
36	Colloidal stability of iron oxide nanocrystals coated with a PEG-based tetra-catechol surfactant. <i>Nanotechnology</i> , 2013, 24, 105702.	1.3	23

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37	The electronic structure of nitrilimine: absence of the carbenic form. <i>Chemical Communications</i> , 2006, , 1030.	2.2	22
38	Tunability of exchange bias in Ni@NiO core-shell nanoparticles obtained by sequential layer deposition. <i>Nanotechnology</i> , 2015, 26, 405704.	1.3	22
39	Electron spin-echo relaxation and envelope modulation of shallow phosphorus donors in silicon. <i>Physical Review B</i> , 2005, 72, .	1.1	21
40	Poly(amidoamine)s carrying TEMPO residues for NMR imaging applications. <i>New Journal of Chemistry</i> , 2008, 32, 323-332.	1.4	20
41	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> , 2012, 162, 2250-2258.	2.1	20
42	Uncommon aqueous media for nitrilimine cycloadditions. II.Part 1, preceding paper (ref. 1a). Computational study of the effect of water on reaction rate. <i>New Journal of Chemistry</i> , 2002, 26, 1346-1351.	1.4	19
43	Synthesis of Water Dispersible and Catalytically Active Gold-Decorated Cobalt Ferrite Nanoparticles. <i>Langmuir</i> , 2016, 32, 7117-7126.	1.6	19
44	Electron Paramagnetic Resonance Spectroscopy of Iron(III)-Doped MFI Zeolite. 1. Multifrequency CW-EPR. <i>Journal of Physical Chemistry B</i> , 2004, 108, 1999-2005.	1.2	18
45	Chirality in the Absence of Rigid Stereogenic Elements: The Absolute Configuration of Residual Enantiomers of <i>C</i> <sub>3</sub> -Symmetric Propellers. <i>Chemistry - A European Journal</i> , 2009, 15, 86-93.	1.7	18
46	Structure, Defects, and Magnetism of Electrospun Hematite Nanofibers Silica-Coated by Atomic Layer Deposition. <i>Langmuir</i> , 2020, 36, 1305-1319.	1.6	18
47	FTIR and EPR characterisation of copper-exchanged mordenites and beta zeolites. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1997, 93, 2603-2608.	1.7	17
48	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> , 2006, 7, 894-903.	1.0	17
49	pH-sensitive polymersomes: controlling swelling via copolymer structure and chemical composition. <i>Journal of Drug Targeting</i> , 2017, 25, 899-909.	2.1	17
50	Experimental and theoretical investigations on magneto-structural correlation in trinuclear copper(II) hydroxido propellers. <i>Polyhedron</i> , 2018, 145, 22-34.	1.0	17
51	Chirality in the Absence of Rigid Stereogenic Elements: The Design of Configurationally Stable <i>C</i> <sub>3</sub> -Symmetric Propellers. <i>Chemistry - A European Journal</i> , 2009, 15, 94-105.	1.7	16
52	Process-Scale Total Synthesis of Nature-Identical (S,S)-7-Hydroxycalamenal in High Enantiomeric Purity through Catalytic Enantioselective Hydrogenation. <i>Helvetica Chimica Acta</i> , 2005, 88, 1776-1789.	1.0	15
53	Regioselectivity of aryl azide cycloaddition to methyl propiolate in aqueous media: experimental evidence versus local DFT HSAB principle. <i>Arkivoc</i> , 2007, 2006, 49-56.	0.3	15
54	Magnetic nanoparticles conjugated to chiral imidazolidinone as recoverable catalyst. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	0.8	14

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55	Stereoselective nitrilimine cycloadditions to the CN bond of enantiopure N-(1-phenylethyl)-1-arylmethanimines. <i>Tetrahedron: Asymmetry</i> , 2004, 15, 3711-3714.	1.8	13
56	The Nitrilimine-Alkene Cycloaddition Regioselectivity Rationalized by Density Functional Theory Reactivity Indices. <i>Molecules</i> , 2017, 22, 202.	1.7	13
57	Interplay between inter- and intraparticle interactions in bi-magnetic core/shell nanoparticles. <i>Nanoscale Advances</i> , 2021, 3, 6912-6924.	2.2	13
58	Shallow donor electron spins as qubits in Si and SiGe: a pulsed ESR study. <i>Physica B: Condensed Matter</i> , 2003, 340-342, 895-902.	1.3	11
59	Selective Formation, Reactivity, Redox and Magnetic Properties of MnIII and FeIII Dinuclear Complexes with Shortened Salen-Type Schiff Base Ligands. <i>International Journal of Molecular Sciences</i> , 2020, 21, 7882.	1.8	11
60	EPR/ENDOR study of the decay of trapped radicals in photopolymerized butane-1,4-diol diacrylate. <i>Journal of Physical Organic Chemistry</i> , 1992, 5, 55-61.	0.9	10
61	EPR study of iron-doped MFI zeolite and silicalite catalysts: effect of treatments after synthesis. <i>Research on Chemical Intermediates</i> , 2002, 28, 101-116.	1.3	10
62	Personalised Profiling of Innate Immune Memory Induced by Nano-Imaging Particles in Human Monocytes. <i>Frontiers in Immunology</i> , 2021, 12, 692165.	2.2	10
63	Quantitative texture analysis from powder-like electron diffraction data. <i>Journal of Applied Crystallography</i> , 2011, 44, 454-461.	1.9	9
64	Coinage metal exciplexes with helium atoms: a theoretical study of M*(2L)He (M = Cu, Ag, Au; L = P,D). <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 18410.	1.3	9
65	Simulation of one-dimensional magnetic resonance powder lineshapes reduced to area computation. <i>Chemical Physics Letters</i> , 1999, 302, 224-230.	1.2	8
66	Enantiopure furo[3,4-c]pyrazole derivatives by intramolecular nitrilimine cycloaddition: a stereoselectivity rationale based upon MP2 calculations. <i>Tetrahedron: Asymmetry</i> , 2008, 19, 1381-1384.	1.8	8
67	Surfactant-controlled composition and crystal structure of manganese(II) sulfide nanocrystals prepared by solvothermal synthesis. <i>Beilstein Journal of Nanotechnology</i> , 2015, 6, 2319-2329.	1.5	8
68	Site- and Regioselectivity of Nitrile Oxide-Alkene Cycloadditions: DFT-Based Semiquantitative Predictions. <i>Journal of Organic Chemistry</i> , 2017, 82, 10710-10714.	1.7	8
69	Microwave characterization of magnetically hard and soft ferrite nanoparticles in K-band. <i>Journal of Applied Physics</i> , 2014, 116, 154306.	1.1	7
70	Nanoparticle-Catalysed 1,3-Dipolar Cycloadditions. <i>European Journal of Organic Chemistry</i> , 2020, 2020, 6173-6191.	1.2	7
71	Experimental methods in chemical engineering: Mössbauer spectroscopy. <i>Canadian Journal of Chemical Engineering</i> , 2021, 99, 2105-2114.	0.9	7
72	Single-pulse echo and oscillatory free induction decay: The importance of rephasing. <i>Molecular Physics</i> , 1998, 95, 943-955.	0.8	6

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73	Synthesis of bis-(3,5)pyrazolophanes via double cycloadditive macrocyclisation. <i>Tetrahedron</i> , 2003, 59, 9315-9322.	1.0	6
74	Manganese Sulfide (MnS) Nanocrystals: Synthesis, Properties, and Applications. , 0, , .		6
75	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> , 2017, 1, .	0.9	6
76	Reaction of Hydrazoneoyl Chlorides to Trimethylsilyl Homoallyl Ethers. <i>Heterocycles</i> , 2007, 71, 1095.	0.4	6
77	Multinuclear ( <sup>1</sup> H, <sup>31</sup> P and <sup>195</sup> Pt) NMR study and dynamical analysis of binuclear μ-hydrido μ-carbonyl Pt(i) cations with chelating diphosphines. <i>Dalton Transactions</i> , 2004, , 2027-2035.	1.6	5
78	The Azide-Allene Dipolar Cycloaddition: Is DFT Able to Predict Site- and Regio-Selectivity?. <i>Molecules</i> , 2021, 26, 928.	1.7	5
79	Size-dependent catalytic effect of magnetite nanoparticles in the synthesis of tunable magnetic polyaniline nanocomposites. <i>Chemical Papers</i> , 2021, 75, 5057-5069.	1.0	5
80	Intramolecular Nitrilimine Cycloadditions to the Thiophene and the Furan Rings. <i>Heterocycles</i> , 2007, 71, 1371.	0.4	5
81	Investigation of Ni@CoO core-shell nanoparticle films synthesized by sequential layer deposition. <i>Applied Surface Science</i> , 2017, 396, 1860-1865.	3.1	4
82	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> , 1991, 87, 3151-3155.	1.7	3
83	Tensor: A program to extract hyperfine tensors from single crystal EPR and ENDOR data. <i>Computers &amp; Chemistry</i> , 1992, 16, 233-238.	1.2	3
84	Angular Momentum and the Two-Dimensional Free Particle. <i>Journal of Chemical Education</i> , 1998, 75, 916.	1.1	3
85	Nitrilimine cycloadditions catalyzed by iron oxide nanoparticles. <i>Journal of Nanoparticle Research</i> , 2018, 20, 1.	0.8	3
86	The azide-alkyne cycloaddition catalysed by transition metal oxide nanoparticles. <i>New Journal of Chemistry</i> , 2019, 43, 18049-18061.	1.4	3
87	Computational Approaches to Molecular Properties, Chemical Reactivity, and Drug Virtual Screening. <i>Molecules</i> , 2020, 25, 5301.	1.7	3
88	EPR Study of Triplet Defects in Ca <sub>2</sub> CuO <sub>3</sub> . <i>Applied Magnetic Resonance</i> , 1992, 3, 873-881.	0.6	2
89	A comment on the theory of one-dimensional mixing-frequency electron spin echo envelope modulation (MIF-ESEEM) spectroscopy. <i>Applied Magnetic Resonance</i> , 1998, 15, 1-9.	0.6	2
90	Conformational disorder in the propagating radical of dimethacrylate polymers. <i>Research on Chemical Intermediates</i> , 2002, 28, 159-174.	1.3	2

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91	Structural and conformational study of pyrazolobenzodiazonine and pyrazolobenzodiazecine skeletons. Tetrahedron Letters, 2015, 56, 3842-3846.	0.7	1
92	Nanoferrites as Catalysts and Fillers for Polyaniline/Nanoparticle Composites Preparation. Journal of Advanced Catalysis Science and Technology, 2015, 2, 8-16.	1.0	1
93	Physical mechanisms of spin echoes. I. Two-pulse locked echo. Molecular Physics, 2000, 98, 815-827.	0.8	0
94	Stereoselective Nitrilimine Cycloadditions to the C=N Bond of Enantiopure N-(1-Phenylethyl)-1-arylmethanimines.. ChemInform, 2005, 36, no.	0.1	0
95	Synthesis and design of ferro- and ferrimagnetic NPs. , 2020, , 333-379.		0