

Giorgio Zoppellaro

List of Publications by Year in descending order

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106
papers

4,513
citations

109137

35
h-index

110170

64
g-index

110
all docs

110
docs citations

110
times ranked

6909
citing authors

#	ARTICLE	IF	CITATIONS
1	Photocatalysis with Reduced TiO ₂ : From Black TiO ₂ to Cocatalyst-Free Hydrogen Production. ACS Catalysis, 2019, 9, 345-364.	5.5	495
2	Tailored functionalization of iron oxide nanoparticles for MRI, drug delivery, magnetic separation and immobilization of biosubstances. Biotechnology Advances, 2015, 33, 1162-1176.	6.0	301
3	Metal-Organic Honeycomb Nanomeshes with Tunable Cavity Size. Nano Letters, 2007, 7, 3813-3817.	4.5	297
4	Surface-Assisted Assembly of 2D Metal-Organic Networks That Exhibit Unusual Threefold Coordination Symmetry. Angewandte Chemie - International Edition, 2007, 46, 710-713.	7.2	219
5	On the Controlled Loading of Single Platinum Atoms as a Co-Catalyst on TiO ₂ Anatase for Optimized Photocatalytic H ₂ Generation. Advanced Materials, 2020, 32, e1908505.	11.1	189
6	Chiral Kagomé Lattice from Simple Ditopic Molecular Bricks. Journal of the American Chemical Society, 2008, 130, 11778-11782.	6.6	184
7	Spin Dynamics in the Negatively Charged Terbium (III) Bis-phthalocyaninato Complex. Journal of the American Chemical Society, 2009, 131, 4387-4396.	6.6	158
8	Mixed-Valence Single-Atom Catalyst Derived from Functionalized Graphene. Advanced Materials, 2019, 31, e1900323.	11.1	129
9	Random two-dimensional string networks based on divergent coordination assembly. Nature Chemistry, 2010, 2, 131-137.	6.6	106
10	Influence of Ti ³⁺ defect-type on heterogeneous photocatalytic H ₂ evolution activity of TiO ₂ . Journal of Materials Chemistry A, 2020, 8, 1432-1442.	5.2	89
11	Zero-Valent Iron Nanoparticles Reduce Arsenites and Arsenates to As(0) Firmly Embedded in Core-Shell Superstructure: Challenging Strategy of Arsenic Treatment under Anoxic Conditions. ACS Sustainable Chemistry and Engineering, 2017, 5, 3027-3038.	3.2	84
12	Quaternized carbon dot-modified graphene oxide for selective cell labelling – controlled nucleus and cytoplasm imaging. Chemical Communications, 2014, 50, 10782.	2.2	82
13	Fast and selective reduction of nitroarenes under visible light with an earth-abundant plasmonic photocatalyst. Nature Nanotechnology, 2022, 17, 485-492.	15.6	78
14	Tuning the spin-transition properties of pyrene-decorated 2,6-bispyrazolylpyridine based Fe(ii) complexes. Dalton Transactions, 2011, 40, 7564.	1.6	73
15	Review: Studies of ferric heme proteins with highly anisotropic/highly axial low spin (<i>S</i> = 1/2) electron paramagnetic resonance signals with bis-Histidine and histidine-methionine axial iron coordination. Biopolymers, 2009, 91, 1064-1082.	1.2	72
16	Spectroscopic and Kinetic Studies on the Oxygen-centered Radical Formed during the Four-electron Reduction Process of Dioxygen by <i>Rhus vernicifera</i> Laccase. Journal of Biological Chemistry, 1999, 274, 32718-32724.	1.6	60
17	Surface-Confined Self-Assembly of Diacetonitrile Polyphenyls. Advanced Functional Materials, 2011, 21, 1230-1240.	7.8	58
18	Reactivity of fluorographene is triggered by point defects: beyond the perfect 2D world. Nanoscale, 2018, 10, 4696-4707.	2.8	55

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19	Ribonucleotide reductase class I with different radical generating clusters. <i>Coordination Chemistry Reviews</i> , 2013, 257, 3-26.	9.5	54
20	Surface design of core-shell superparamagnetic iron oxide nanoparticles drives record relaxivity values in functional MRI contrast agents. <i>Chemical Communications</i> , 2012, 48, 11398.	2.2	49
21	A Magnetically Drivable Nanovehicle for Curcumin with Antioxidant Capacity and MRI Relaxation Properties. <i>Chemistry - A European Journal</i> , 2014, 20, 11913-11920.	1.7	48
22	Cobalt-entrenched N-, O-, and S-tridoped carbons as efficient multifunctional sustainable catalysts for base-free selective oxidative esterification of alcohols. <i>Green Chemistry</i> , 2018, 20, 3542-3556.	4.6	47
23	Core-shell hybrid nanomaterial based on prussian blue and surface active maghemite nanoparticles as stable electrocatalyst. <i>Biosensors and Bioelectronics</i> , 2014, 52, 159-165.	5.3	46
24	Theranostics of Epitaxially Condensed Colloidal Nanocrystal Clusters, through a Soft Biomineralization Route. <i>Chemistry of Materials</i> , 2014, 26, 2062-2074.	3.2	46
25	Using metal-organic templates to steer the growth of Fe and Co nanoclusters. <i>Applied Physics Letters</i> , 2008, 93, 243102.	1.5	45
26	Models for biological trinuclear copper clusters. Characterization and enantioselective catalytic oxidation of catechols by the copper(ii) complexes of a chiral ligand derived from (S)-(λ^5)-1,1'-binaphthyl-2,2'-diamine. <i>Dalton Transactions</i> , 2004, , 2192-2201.	1.6	44
27	Surface-Confined Metal-Organic Nanostructures from Co-Directed Assembly of Linear Terphenyl-dicarbonitrile Linkers on Ag(111). <i>Journal of Physical Chemistry C</i> , 2010, 114, 15602-15606.	1.5	44
28	Base-Free Transfer Hydrogenation of Nitroarenes Catalyzed by Micro-Mesoporous Iron Oxide. <i>ChemCatChem</i> , 2016, 8, 2351-2355.	1.8	44
29	Micro-mesoporous iron oxides with record efficiency for the decomposition of hydrogen peroxide: morphology driven catalysis for the degradation of organic contaminants. <i>Journal of Materials Chemistry A</i> , 2016, 4, 596-604.	5.2	42
30	Synthesis, physical properties and application of the zero-valent iron/titanium dioxide heterocomposite having high activity for the sustainable photocatalytic removal of hexavalent chromium in water. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 10637-10646.	1.3	39
31	Semimetallic core-shell TiO ₂ nanotubes as a high conductivity scaffold and use in efficient 3D-RuO ₂ supercapacitors. <i>Materials Today Energy</i> , 2017, 6, 46-52.	2.5	39
32	A Multifunctional High-Spin Biradical Pyrazolylbipyridine-bisnitronyl nitroxide. <i>Organic Letters</i> , 2004, 6, 4929-4932.	2.4	38
33	Synthesis, structure, magnetic properties and theoretical calculations of methoxy bridged dinuclear iron(μ_3) complex with hydrazone based O,N,N-donor ligand. <i>Dalton Transactions</i> , 2013, 42, 2803-2812.	1.6	38
34	Covalently bound DNA on naked iron oxide nanoparticles: Intelligent colloidal nano-vector for cell transfection. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2017, 1861, 2802-2810.	1.1	38
35	Synthetic models for biological trinuclear copper clusters. Trinuclear and binuclear complexes derived from an octadentate tetraamine-tetrabenzimidazole ligand. <i>Inorganica Chimica Acta</i> , 1998, 282, 180-192.	1.2	37
36	Synthesis, magnetic properties and theoretical calculations of novel nitronyl nitroxide and imino nitroxide diradicals grafted on terpyridine moiety. <i>Polyhedron</i> , 2003, 22, 2099-2110.	1.0	36

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37	Triggering Mechanism for DNA Electrical Conductivity: Reversible Electron Transfer between DNA and Iron Oxide Nanoparticles. <i>Advanced Functional Materials</i> , 2015, 25, 1822-1831.	7.8	36
38	Carbon Dots Detect Water-to-Ice Phase Transition and Act as Alcohol Sensors <i>via</i> Fluorescence Turn-Off/On Mechanism. <i>ACS Nano</i> , 2021, 15, 6582-6593.	7.3	34
39	Engineering Shape Anisotropy of Fe ₃ O ₄ - β -Fe ₂ O ₃ Hollow Nanoparticles for Magnetic Hyperthermia. <i>ACS Applied Nano Materials</i> , 2021, 4, 3148-3158.	2.4	33
40	Intrinsic Cu nanoparticle decoration of TiO ₂ nanotubes: A platform for efficient noble metal free photocatalytic H ₂ production. <i>Electrochemistry Communications</i> , 2019, 98, 82-86.	2.3	32
41	One-Step Synthesis of Symmetrically Substituted 2,6-Bis(pyrazol-1-yl)pyridine Systems. <i>European Journal of Organic Chemistry</i> , 2005, 2005, 2888-2892.	1.2	30
42	Modulation of the Ligand-Field Anisotropy in a Series of Ferric Low-Spin Cytochrome c Mutants derived from <i>Pseudomonas aeruginosa</i> Cytochrome c-551 and <i>Nitrosomonas europaea</i> Cytochrome c-552: A Nuclear Magnetic Resonance and Electron Paramagnetic Resonance Study. <i>Journal of the American Chemical Society</i> , 2008, 130, 15348-15360.	6.6	30
43	Supramolecular Organization and Chiral Resolution of <i>p</i> -Terphenyl- <i>m</i> -Dicarbonitrile on the Ag(111) Surface. <i>ChemPhysChem</i> , 2010, 11, 1446-1451.	1.0	29
44	NZVI modified magnetic filter paper with high redox and catalytic activities for advanced water treatment technologies. <i>Chemical Communications</i> , 2014, 50, 15673-15676.	2.2	29
45	Stealth Iron Oxide Nanoparticles for Organotropic Drug Targeting. <i>Biomacromolecules</i> , 2019, 20, 1375-1384.	2.6	28
46	A Novel Mixed Valence Form of <i>Rhus vernicifera</i> Laccase and Its Reaction with Dioxygen to Give a Peroxide Intermediate Bound to the Trinuclear Center. <i>Journal of Biochemistry</i> , 2001, 129, 949-953.	0.9	27
47	Biomimetic Modelling of Copper Enzymes: Synthesis, Characterization, EPR Analysis and Enantioselective Catalytic Oxidations by a New Chiral Trinuclear Copper(II) Complex. <i>European Journal of Inorganic Chemistry</i> , 2009, 2009, 554-566.	1.0	27
48	2,6-Bis(pyrazolyl)pyridine Functionalised with Two Nitronyl Nitroxide and Iminonitroxide Radicals. <i>European Journal of Organic Chemistry</i> , 2004, 2004, 2367-2374.	1.2	25
49	Carboxylated Graphene for Radical-Assisted Ultra-Trace-Level Water Treatment and Noble Metal Recovery. <i>ACS Nano</i> , 2021, 15, 3349-3358.	7.3	25
50	Graphene Acid for Lithium-Ion Batteries—Carboxylation Boosts Storage Capacity in Graphene. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	25
51	A new chiral, poly-imidazole N8-ligand and the related di- and tri-copper(ii) complexes: synthesis, theoretical modelling, spectroscopic properties, and biomimetic stereoselective oxidations. <i>Dalton Transactions</i> , 2011, 40, 5436.	1.6	24
52	Spectroscopic Studies of the Iron and Manganese Reconstituted Tyrosyl Radical in <i>Bacillus Cereus</i> Ribonucleotide Reductase R2 Protein. <i>PLoS ONE</i> , 2012, 7, e33436.	1.1	23
53	Modulation of Ligand-Field Parameters by Heme Ruffling in Cytochromes <i>c</i> Revealed by EPR Spectroscopy. <i>Inorganic Chemistry</i> , 2011, 50, 12018-12024.	1.9	21
54	HF-EPR, Raman, UV/VIS Light Spectroscopic, and DFT Studies of the Ribonucleotide Reductase R2 Tyrosyl Radical from Epstein-Barr Virus. <i>PLoS ONE</i> , 2011, 6, e25022.	1.1	21

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55	Spectroscopic and magnetic studies of wild-type and mutant forms of the Fe(II)- and 2-oxoglutarate-dependent decarboxylase ALKBH4. <i>Biochemical Journal</i> , 2011, 434, 391-398.	1.7	21
56	Efficient multicolor tunability of ultrasmall ternary-doped LaF ₃ nanoparticles: energy conversion and magnetic behavior. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 18660-18670.	1.3	21
57	Excitation Wavelength- and Medium-Dependent Photoluminescence of Reduced Nanostructured TiO ₂ Films. <i>Journal of Physical Chemistry C</i> , 2019, 123, 11292-11303.	1.5	21
58	Self-assembly of chlorin-e6 on $\hat{1}^3$ -Fe ₂ O ₃ nanoparticles: Application for larvicidal activity against <i>Aedes aegypti</i> . <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2019, 194, 21-31.	1.7	20
59	Zigzag sp ² Carbon Chains Passing through an sp ³ Framework: A Driving Force toward Room-Temperature Ferromagnetic Graphene. <i>ACS Nano</i> , 2018, 12, 12847-12859.	7.3	19
60	On-surface structural and electronic properties of spontaneously formed Tb ₂ Pc ₃ single molecule magnets. <i>Nanoscale</i> , 2018, 10, 15553-15563.	2.8	19
61	Magnetic Hyperthermia in the 400-1,100 kHz Frequency Range Using MIONs of Condensed Colloidal Nanocrystal Clusters. <i>Frontiers in Materials</i> , 2021, 8, .	1.2	19
62	Low-Temperature EPR and Mössbauer Spectroscopy of Two Cytochromes with His-Met Axial Coordination Exhibiting HALS Signals. <i>ChemPhysChem</i> , 2006, 7, 1258-1267.	1.0	17
63	Conductive Cu-Doped TiO ₂ Nanotubes for Enhanced Photoelectrochemical Methanol Oxidation and Concomitant Hydrogen Generation. <i>ChemElectroChem</i> , 2019, 6, 1244-1249.	1.7	17
64	A facile "dark" deposition approach for Pt single-atom trapping on faceted anatase TiO ₂ nanoflakes and use in photocatalytic H ₂ generation. <i>Electrochimica Acta</i> , 2022, 412, 140129.	2.6	17
65	Colloidal Surface Active Maghemite Nanoparticles for Biologically Safe Cr ^{VI} Remediation: from Core-Shell Nanostructures to Pilot Plant Development. <i>Chemistry - A European Journal</i> , 2016, 22, 14219-14226.	1.7	16
66	Microwave Energy Drives "Off-On" Spin-Switch Behavior in Nitrogen-Doped Graphene. <i>Advanced Materials</i> , 2019, 31, e1902587.	11.1	15
67	The Reversible Change in the Redox State of Type I Cu in <i>Myrothecium verrucaria</i> Bilirubin Oxidase Depending on pH. <i>Bioscience, Biotechnology and Biochemistry</i> , 2004, 68, 1998-2000.	0.6	13
68	Magnetic Interactions in Supramolecular NO \hat{A} -HC \hat{C} Type Hydrogen-Bonded Nitronyl Nitroxide Radical Chains. <i>Journal of Physical Chemistry B</i> , 2007, 111, 4327-4334.	1.2	13
69	Ligand Binding, Conformational and Spectroscopic Properties, and Biomimetic Monooxygenase Activity by the Trinuclear Copper-Phi Complex Derived from L-Histidine. <i>European Journal of Inorganic Chemistry</i> , 2008, 2008, 2081-2089.	1.0	13
70	Thermal decomposition of Prussian Blue microcrystals and nanocrystals " iron(III) oxide polymorphism control through reactant particle size. <i>RSC Advances</i> , 2013, 3, 19591.	1.7	13
71	An iron(III)-centred ferric wheel Fe \hat{S} , [Fe ₆] with a siloxane-based bis-salicylidene Schiff base. <i>Dalton Transactions</i> , 2017, 46, 1789-1793.	1.6	13
72	The non-innocent nature of graphene oxide as a theranostic platform for biomedical applications and its reactivity towards metal-based anticancer drugs. <i>RSC Advances</i> , 2015, 5, 76556-76566.	1.7	12

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73	Synthesis, structural and magnetic characterization of a copper(II) complex of 2,6-di(1H-imidazol-2-yl)pyridine and its application in copper-mediated polymerization catalysis. <i>Inorganica Chimica Acta</i> , 2017, 466, 456-463.	1.2	11
74	Enzymatic and spectroscopic studies on the activation or inhibition effects by substituted phenolic compounds in the oxidation of arylamines and catechols catalyzed by <i>Rhus vernicifera</i> laccase. <i>Journal of Inorganic Biochemistry</i> , 2006, 100, 2127-2139.	1.5	10
75	Studies of Ribonucleotide Reductase in Crucian Carp "An Oxygen Dependent Enzyme in an Anoxia Tolerant Vertebrate. <i>PLoS ONE</i> , 2012, 7, e42784.	1.1	10
76	Influence of heme c attachment on heme conformation and potential. <i>Journal of Biological Inorganic Chemistry</i> , 2018, 23, 1073-1083.	1.1	10
77	Biologically safe colloidal suspensions of naked iron oxide nanoparticles for in situ antibiotic suppression. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 181, 102-111.	2.5	10
78	Synthesis, Optical Properties and Magnetic Studies of 2,6-Bis(pyrazolylmethyl)pyridine Functionalized with Two Nitronyl Nitroxide Radicals. <i>European Journal of Organic Chemistry</i> , 2008, 2008, 1431-1440.	1.2	9
79	Strong Electronic Correlations in LiZnPc Organic Metals. <i>Physical Review Letters</i> , 2008, 100, 117601.	2.9	9
80	Fe_3O_4 Nanocrystals Tune the Magnetic Regime of the Fe/Ni Molecular Magnet: A New Class of Magnetic Superstructures. <i>Inorganic Chemistry</i> , 2013, 52, 8144-8150.	1.9	9
81	Structural Characterization of <i>Nitrosomonas europaea</i> Cytochrome c_552 Variants with Marked Differences in Electronic Structure. <i>ChemBioChem</i> , 2013, 14, 1828-1838.	1.3	9
82	Triggering Two-Step Spin Bistability and Large Hysteresis in Spin Crossover Nanoparticles via Molecular Nanoengineering. <i>Chemistry of Materials</i> , 2017, 29, 8875-8883.	3.2	9
83	Colloidal maghemite nanoparticles with oxyhydroxide-like interface and chiroptical properties. <i>Applied Surface Science</i> , 2020, 534, 147567.	3.1	9
84	Single-Atom Catalysis: Mixed-Valence Single-Atom Catalyst Derived from Functionalized Graphene (Adv.) <i>Tj ETQq0 0 0 rgBT /Overlo</i>	11.1	8
85	Smart synthetic maghemite nanoparticles with unique surface properties encode binding specificity toward AsIII. <i>Science of the Total Environment</i> , 2020, 741, 140175.	3.9	8
86	Stoichiometry and Orientation- and Shape-Mediated Switching Field Enhancement of the Heating Properties of Fe_3O_4 Nanodisks. <i>Physical Review Applied</i> , 2021, 15, .	3.1	8
87	Light-Induced Migration of Spin Defects in TiO_2 Nanosystems and their Contribution to the H_2 Evolution Catalysis from Water. <i>ChemSusChem</i> , 2021, 14, 4408-4414.	3.6	8
88	Evidence of Au(II) and Au(0) States in Bovine Serum Albumin-Au Nanoclusters Revealed by CW-EPR/LEPR and Peculiarities in HR-TEM/STEM Imaging. <i>Nanomaterials</i> , 2022, 12, 1425.	1.9	8
89	Zero-Valent Iron Nanoparticles with Unique Spherical 3D Architectures Encode Superior Efficiency in Copper Entrapment. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 2748-2753.	3.2	7
90	Unusual magnetic damping effect in a silver-cobalt ferrite hetero nano-system. <i>RSC Advances</i> , 2015, 5, 17117-17122.	1.7	6

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91	Iron Oxide Magnetic Nanoparticles (NPs) Tailored for Biomedical Applications. <i>Nanomedicine and Nanotoxicology</i> , 2020, , 57-102.	0.1	6
92	Electrostatically stabilized hybrids of carbon and maghemite nanoparticles: electrochemical study and application. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 11668-11677.	1.3	5
93	Tuning the shape, size, phase composition and stoichiometry of iron oxide nanoparticles: The role of phosphate anions. <i>Journal of Alloys and Compounds</i> , 2021, 856, 156940.	2.8	5
94	Self-assembly of a Ni(II)-photocatalyst for plain water splitting without sacrificial agents. <i>Electrochemistry Communications</i> , 2021, 122, 106909.	2.3	5
95	Ferromagnetic Coupling in an Fe[C(SiMe ₃) ₃] ₂ /Ferrihydrite Hetero-Mixture Molecular Magnet. <i>European Journal of Inorganic Chemistry</i> , 2014, 2014, 3178-3183.	1.0	4
96	Magnetic coupling and relaxation in Fe[N(SiPh ₂ Me) ₂] ₂ molecular magnet. <i>Structural Chemistry</i> , 2017, 28, 975-983.	1.0	4
97	Binary activated iron oxide/SiO ₂ /NaGdF ₄ :RE (RE = Ce, and Eu; Yb, and Er) nanoparticles: synthesis, characterization and their potential for dual T ₁ -weighted imaging. <i>New Journal of Chemistry</i> , 2020, 44, 832-844.	1.4	4
98	Base-free Transfer Hydrogenation of Nitroarenes Catalyzed by Micro-mesoporous Iron Oxide. <i>ChemCatChem</i> , 2016, 8, 2298-2298.	1.8	3
99	H ₂ O ₂ Tolerance in <i>Pseudomonas Fluorescens</i> : Synergy between Pyoverdine-Iron(III) Complex and a Blue Extracellular Product Revealed by a Nanotechnology-Based Electrochemical Approach. <i>ChemElectroChem</i> , 2019, 6, 5186-5190.	1.7	3
100	Enhancing Magnetic Cooperativity in Fe(II) Triazole-Based Spin-Crossover Nanoparticles by Pluronic Matrix Confinement. <i>Chemistry - an Asian Journal</i> , 2020, 15, 2637-2641.	1.7	2
101	Low-energy excitations in electron-doped metal phthalocyanines. <i>Physica B: Condensed Matter</i> , 2008, 403, 1523-1525.	1.3	1
102	Raman, UV-vis, and CD Spectroscopic Studies of Dodecameric Oxyhemocyanin from <i>Carcinus aestuarii</i> . <i>Chemistry Letters</i> , 2011, 40, 1360-1362.	0.7	1
103	Magnetic interaction in oxygenated alpha Fe-phthalocyanines. , 2014, , .		1
104	Importance of Val567 on heme environment and substrate recognition of neuronal nitric oxide synthase. <i>FEBS Open Bio</i> , 2018, 8, 1553-1566.	1.0	1
105	DNA Conductivity: Triggering Mechanism for DNA Electrical Conductivity: Reversible Electron Transfer between DNA and Iron Oxide Nanoparticles (<i>Adv. Funct. Mater.</i> 12/2015). <i>Advanced Functional Materials</i> , 2015, 25, 1821-1821.	7.8	0
106	H ₂ O ₂ Tolerance in <i>Pseudomonas Fluorescens</i> : Synergy between Pyoverdine-Iron(III) Complex and a Blue Extracellular Product Revealed by a Nanotechnology-Based Electrochemical Approach. <i>ChemElectroChem</i> , 2019, 6, 5166-5166.	1.7	0