

Giorgio Zoppellaro

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

104
papers

3,514
citations

32
h-index

56
g-index

110
ext. papers

3,991
ext. citations

7.6
avg, IF

5.22
L-index

#	Paper	IF	Citations
104	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	6.7	4
103	Graphene Acid for Lithium-Ion Batteries: Carboxylation Boosts Storage Capacity in Graphene. <i>Advanced Energy Materials</i> , 2022 , 12, 2103010	21.8	6
102	Carbon Dots Detect Water-to-Ice Phase Transition and Act as Alcohol Sensors: Fluorescence Turn-Off/On Mechanism. <i>ACS Nano</i> , 2021 , 15, 6582-6593	16.7	14
101	Magnetic Hyperthermia in the 400–100 kHz Frequency Range Using MIONs of Condensed Colloidal Nanocrystal Clusters. <i>Frontiers in Materials</i> , 2021 , 8,	4	6
100	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	5.7	1
99	Carboxylated Graphene for Radical-Assisted Ultra-Trace-Level Water Treatment and Noble Metal Recovery. <i>ACS Nano</i> , 2021 , 15, 3349-3358	16.7	11
98	Stoichiometry and Orientation- and Shape-Mediated Switching Field Enhancement of the Heating Properties of Fe ₃ O ₄ Circular Nanodiscs. <i>Physical Review Applied</i> , 2021 , 15,	4.3	3
97	Engineering Shape Anisotropy of Fe ₃ O ₄ -Fe ₂ O ₃ Hollow Nanoparticles for Magnetic Hyperthermia. <i>ACS Applied Nano Materials</i> , 2021 , 4, 3148-3158	5.6	9
96	Light-Induced Migration of Spin Defects in TiO Nanosystems and their Contribution to the H ₂ Evolution Catalysis from Water. <i>ChemSusChem</i> , 2021 , 14, 4408-4414	8.3	3
95	Self-assembly of a Ni(II)-photocatalyst for plain water splitting without sacrificial agents. <i>Electrochemistry Communications</i> , 2021 , 122, 106909	5.1	2
94	Smart synthetic maghemite nanoparticles with unique surface properties encode binding specificity toward As. <i>Science of the Total Environment</i> , 2020 , 741, 140175	10.2	5
93	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	4.5	
92	On the Controlled Loading of Single Platinum Atoms as a Co-Catalyst on TiO Anatase for Optimized Photocatalytic H ₂ Generation. <i>Advanced Materials</i> , 2020 , 32, e1908505	24	100
91	Iron Oxide Magnetic Nanoparticles (NPs) Tailored for Biomedical Applications. <i>Nanomedicine and Nanotoxicology</i> , 2020 , 57-102	0.3	5
90	Binary activated iron oxide/SiO ₂ /NaGdF ₄ :RE (RE = Ce, and Eu; Yb, and Er) nanoparticles: synthesis, characterization and their potential for dual T1/T2 weighted imaging. <i>New Journal of Chemistry</i> , 2020 , 44, 832-844	3.6	2
89	Influence of Ti ³⁺ defect-type on heterogeneous photocatalytic H ₂ evolution activity of TiO ₂ . <i>Journal of Materials Chemistry A</i> , 2020 , 8, 1432-1442	13	45
88	Colloidal maghemite nanoparticles with oxyhydroxide-like interface and chiroptical properties. <i>Applied Surface Science</i> , 2020 , 534, 147567	6.7	6

87	Stealth Iron Oxide Nanoparticles for Organotropic Drug Targeting. <i>Biomacromolecules</i> , 2019 , 20, 1375-1384	13.8	21
86	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	6	7
85	Single-Atom Catalysis: Mixed-Valence Single-Atom Catalyst Derived from Functionalized Graphene (Adv. Mater. 17/2019). <i>Advanced Materials</i> , 2019 , 31, 1970125	24	5
84	Self-assembly of chlorin-e6 on FeO nanoparticles: Application for larvicidal activity against <i>Aedes aegypti</i> . <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2019 , 194, 21-31	6.7	14
83	Excitation Wavelength- and Medium-Dependent Photoluminescence of Reduced Nanostructured TiO ₂ Films. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 11292-11303	3.8	12
82	Conductive Cu-Doped TiO ₂ Nanotubes for Enhanced Photoelectrochemical Methanol Oxidation and Concomitant Hydrogen Generation. <i>ChemElectroChem</i> , 2019 , 6, 1244-1249	4.3	10
81	Mixed-Valence Single-Atom Catalyst Derived from Functionalized Graphene. <i>Advanced Materials</i> , 2019 , 31, e1900323	24	76
80	Microwave Energy Drives "On-Off-On" Spin-Switch Behavior in Nitrogen-Doped Graphene. <i>Advanced Materials</i> , 2019 , 31, e1902587	24	10
79	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	4.3	3
78	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	4.3	
77	Photocatalysis with Reduced TiO: From Black TiO to Cocatalyst-Free Hydrogen Production. <i>ACS Catalysis</i> , 2019 , 9, 345-364	13.1	295
76	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	5.1	21
75	Reactivity of fluorographene is triggered by point defects: beyond the perfect 2D world. <i>Nanoscale</i> , 2018 , 10, 4696-4707	7.7	45
74	Influence of heme c attachment on heme conformation and potential. <i>Journal of Biological Inorganic Chemistry</i> , 2018 , 23, 1073-1083	3.7	8
73	On-surface structural and electronic properties of spontaneously formed TbPc single molecule magnets. <i>Nanoscale</i> , 2018 , 10, 15553-15563	7.7	9
72	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	10	35
71	Zigzag sp Carbon Chains Passing through an sp Framework: A Driving Force toward Room-Temperature Ferromagnetic Graphene. <i>ACS Nano</i> , 2018 , 12, 12847-12859	16.7	10
70	Importance of Val567 on heme environment and substrate recognition of neuronal nitric oxide synthase. <i>FEBS Open Bio</i> , 2018 , 8, 1553-1566	2.7	

69	An iron(iii)-centred ferric wheel Fe ₃ {Fe} with a siloxane-based bis-salicylidene Schiff base. <i>Dalton Transactions</i> , 2017 , 46, 1789-1793	4.3	10
68	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. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 3027-3038	8.3	63
67	Electrostatically stabilized hybrids of carbon and maghemite nanoparticles: electrochemical study and application. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 11668-11677	3.6	5
66	Efficient multicolor tunability of ultrasmall ternary-doped LaF nanoparticles: energy conversion and magnetic behavior. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 18660-18670	3.6	19
65	Magnetic coupling and relaxation in Fe[N(SiPh ₂ Me) ₂] ₂ molecular magnet. <i>Structural Chemistry</i> , 2017 , 28, 975-983	1.8	4
64	Triggering Two-Step Spin Bistability and Large Hysteresis in Spin Crossover Nanoparticles via Molecular Nanoengineering. <i>Chemistry of Materials</i> , 2017 , 29, 8875-8883	9.6	8
63	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	7	31
62	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	4	32
61	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	2.7	8
60	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, 14219-26	4.8	15
59	Base-free Transfer Hydrogenation of Nitroarenes Catalyzed by Micro-mesoporous Iron Oxide. <i>ChemCatChem</i> , 2016 , 8, 2298-2298	5.2	3
58	Base-Free Transfer Hydrogenation of Nitroarenes Catalyzed by Micro-Mesoporous Iron Oxide. <i>ChemCatChem</i> , 2016 , 8, 2351-2355	5.2	35
57	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, 10637-46	3.6	35
56	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	13	40
55	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	8.3	7
54	Tailored functionalization of iron oxide nanoparticles for MRI, drug delivery, magnetic separation and immobilization of biosubstances. <i>Biotechnology Advances</i> , 2015 , 33, 1162-76	17.8	240
53	Triggering Mechanism for DNA Electrical Conductivity: Reversible Electron Transfer between DNA and Iron Oxide Nanoparticles. <i>Advanced Functional Materials</i> , 2015 , 25, 1822-1831	15.6	30
52	DNA Conductivity: Triggering Mechanism for DNA Electrical Conductivity: Reversible Electron Transfer between DNA and Iron Oxide Nanoparticles (Adv. Funct. Mater. 12/2015). <i>Advanced Functional Materials</i> , 2015 , 25, 1821-1821	15.6	

51	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	3.7	12
50	Unusual magnetic damping effect in a silver/cobalt ferrite hetero nano-system. <i>RSC Advances</i> , 2015 , 5, 17117-17122	3.7	6
49	Quaternized carbon dot-modified graphene oxide for selective cell labelling--controlled nucleus and cytoplasm imaging. <i>Chemical Communications</i> , 2014 , 50, 10782-5	5.8	70
48	Correction to Theranostics of Epitaxially Condensed Colloidal Nanocrystal Clusters, through a Soft Biomineralization Route. <i>Chemistry of Materials</i> , 2014 , 26, 6085-6085	9.6	3
47	NZVI modified magnetic filter paper with high redox and catalytic activities for advanced water treatment technologies. <i>Chemical Communications</i> , 2014 , 50, 15673-6	5.8	27
46	A magnetically drivable nanovehicle for curcumin with antioxidant capacity and MRI relaxation properties. <i>Chemistry - A European Journal</i> , 2014 , 20, 11913-20	4.8	40
45	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	2.3	4
44	Theranostics of Epitaxially Condensed Colloidal Nanocrystal Clusters, through a Soft Biomineralization Route. <i>Chemistry of Materials</i> , 2014 , 26, 2062-2074	9.6	41
43	Core-shell hybrid nanomaterial based on prussian blue and surface active maghemite nanoparticles as stable electrocatalyst. <i>Biosensors and Bioelectronics</i> , 2014 , 52, 159-65	11.8	42
42	Fe ₃ O ₄ nanocrystals tune the magnetic regime of the Fe/Ni molecular magnet: a new class of magnetic superstructures. <i>Inorganic Chemistry</i> , 2013 , 52, 8144-50	5.1	8
41	Thermal decomposition of Prussian Blue microcrystals and nanocrystals Iron(III) oxide polymorphism control through reactant particle size. <i>RSC Advances</i> , 2013 , 3, 19591	3.7	11
40	Ribonucleotide reductase class I with different radical generating clusters. <i>Coordination Chemistry Reviews</i> , 2013 , 257, 3-26	23.2	50
39	Synthesis, structure, magnetic properties and theoretical calculations of methoxy bridged dinuclear iron(III) complex with hydrazone based O,N,N-donor ligand. <i>Dalton Transactions</i> , 2013 , 42, 2803-12	4.3	36
38	Structural characterization of nitrosomonas europaea cytochrome c-552 variants with marked differences in electronic structure. <i>ChemBioChem</i> , 2013 , 14, 1828-38	3.8	9
37	Surface design of core-shell superparamagnetic iron oxide nanoparticles drives record relaxivity values in functional MRI contrast agents. <i>Chemical Communications</i> , 2012 , 48, 11398-400	5.8	45
36	Studies of ribonucleotide reductase in crucian carp-an oxygen dependent enzyme in an anoxia tolerant vertebrate. <i>PLoS ONE</i> , 2012 , 7, e42784	3.7	9
35	Spectroscopic studies of the iron and manganese reconstituted tyrosyl radical in Bacillus cereus ribonucleotide reductase R2 protein. <i>PLoS ONE</i> , 2012 , 7, e33436	3.7	22
34	Modulation of ligand-field parameters by heme ruffling in cytochromes c revealed by EPR spectroscopy. <i>Inorganic Chemistry</i> , 2011 , 50, 12018-24	5.1	20

33	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, 5436-57	4.3	23
32	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	3.7	19
31	Raman, UV-Vis, and CD Spectroscopic Studies of Dodecameric Oxyhemocyanin from <i>Carcinus aestuarii</i> . <i>Chemistry Letters</i> , 2011 , 40, 1360-1362	1.7	1
30	Surface-Confined Self-Assembly of Di-carbonitrile Polyphenyls. <i>Advanced Functional Materials</i> , 2011 , 21, 1230-1240	15.6	54
29	Tuning the spin-transition properties of pyrene-decorated 2,6-bispyrazolylpyridine based Fe(II) complexes. <i>Dalton Transactions</i> , 2011 , 40, 7564-70	4.3	63
28	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, 391-8	3.8	17
27	Random two-dimensional string networks based on divergent coordination assembly. <i>Nature Chemistry</i> , 2010 , 2, 131-7	17.6	101
26	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	3.8	42
25	Supramolecular organization and chiral resolution of p-terphenyl-m-dicarbonitrile on the Ag(111) surface. <i>ChemPhysChem</i> , 2010 , 11, 1446-51	3.2	27
24	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	2.3	25
23	Review: studies of ferric heme proteins with highly anisotropic/highly axial low spin ($S = 1/2$) electron paramagnetic resonance signals with bis-histidine and histidine-methionine axial iron coordination. <i>Biopolymers</i> , 2009 , 91, 1064-82	2.2	67
22	Spin dynamics in the negatively charged terbium (III) bis-phthalocyaninato complex. <i>Journal of the American Chemical Society</i> , 2009 , 131, 4387-96	16.4	150
21	Chiral kagomé lattice from simple ditopic molecular bricks. <i>Journal of the American Chemical Society</i> , 2008 , 130, 11778-82	16.4	168
20	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, 15348-60	16.4	26
19	Using metal-organic templates to steer the growth of Fe and Co nanoclusters. <i>Applied Physics Letters</i> , 2008 , 93, 243102	3.4	43
18	Strong electronic correlations in Li _x ZnPc organic metals. <i>Physical Review Letters</i> , 2008 , 100, 117601	7.4	9
17	Ligand Binding, Conformational and Spectroscopic Properties, and Biomimetic Monooxygenase Activity by the Trinuclear Copper(II) Complex Derived from L-Histidine. <i>European Journal of Inorganic Chemistry</i> , 2008 , 2008, 2081-2089	2.3	11
16	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	3.2	7

15	Low-energy excitations in electron-doped metal phthalocyanines. <i>Physica B: Condensed Matter</i> , 2008 , 403, 1523-1525	2.8	1
14	Magnetic interactions in supramolecular N-O...H-C[triple bond]C- type hydrogen-bonded nitronylnitroxide radical chains. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 4327-34	3.4	10
13	Surface-assisted assembly of 2D metal-organic networks that exhibit unusual threefold coordination symmetry. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 710-3	16.4	208
12	Metal-organic honeycomb nanomeshes with tunable cavity size. <i>Nano Letters</i> , 2007 , 7, 3813-7	11.5	281
11	Low-temperature EPR and Mössbauer spectroscopy of two cytochromes with His-Met axial coordination exhibiting HALS signals. <i>ChemPhysChem</i> , 2006 , 7, 1258-67	3.2	13
10	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, 2127-39	4.2	10
9	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	3.2	27
8	2,6-Bis(pyrazolyl)pyridine Functionalised with Two Nitronylnitroxide and Iminonitroxide Radicals. <i>European Journal of Organic Chemistry</i> , 2004 , 2004, 2367-2374	3.2	23
7	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)-(-)-1,1'-binaphthyl-2,2'-diamine. <i>Dalton Transactions</i> , 2004 , 2192-201	4.3	40
6	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	2.1	11
5	A multifunctional high-spin biradical pyrazolylbipyridine-bisnitronylnitroxide. <i>Organic Letters</i> , 2004 , 6, 4929-32	6.2	36
4	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	2.7	34
3	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, 949-53	3.1	23
2	Spectroscopic and kinetic studies on the oxygen-centered radical formed during the four-electron reduction process of dioxygen by <i>Rhus vernicifera</i> laccase. <i>Journal of Biological Chemistry</i> , 1999 , 274, 32718-24	5.4	52
1	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	2.7	32