Stefano Di Stefano

List of Publications by Year
in descending order

84 papers	2,868 citations	186265 28 h-index	197818 49 g-index
87 all docs	87 docs citations	87 times ranked	2317 citing authors

#	Article	IF	Citations
1	Two Faces of the Same Coin: Coupling Xâ€Ray Absorption and NMR Spectroscopies to Investigate the Exchange Reaction Between Prototypical Cu Coordination Complexes. Chemistry - A European Journal, 2022, 28, .	3.3	6
2	Temporal Control of the Hostâ€“Guest Properties of a Calix[6]arene Receptor by the Use of a Chemical Fuel. Journal of Organic Chemistry, 2022, 87, 3623-3629.	3.2	18
3	Dissipative Dynamic Covalent Chemistry (DDCvC) Based on the Transimination Reaction. Chemistry - A European Journal, 2022, 28, .	3.3	18
4	Chemical Tools for the Temporal Control of Water Solution pH and Applications in Dissipative Systems. European Journal of Organic Chemistry, 2022, 2022, .	2.4	18
5	Following a Silent Metal Ion: A Combined X-ray Absorption and Nuclear Magnetic Resonance Spectroscopic Study of the Zn²⁺ Cation Dissipative Translocation between Two Different Ligands. Journal of Physical Chemistry Letters, 2022, 13, 5522-5529.	4.6	10
6	Insight into the chemoselective aromatic vs. side-chain hydroxylation of alkylaromatics with H2O2 catalyzed by a non-heme imine-based iron complex. Catalysis Science and Technology, 2021, 11, 171-178.	4.1	5
7	Direct structural and mechanistic insights into fast bimolecular chemical reactions in solution through a coupled XAS/UVâ€“Vis multivariate statistical analysis. Dalton Transactions, 2021, 50, 131-142.	3.3	10
8	Activation of Câ€“H bonds by a nonheme iron(iv)â€“oxo complex: mechanistic evidence through a coupled EDXAS/UV-Vis multivariate analysis. Physical Chemistry Chemical Physics, 2021, 23, 1188-1196.	2.8	9
9	Increasing the steric hindrance around the catalytic core of a self-assembled imine-based non-heme iron catalyst for Câ€“H oxidation. RSC Advances, 2021, 11, 537-542.	3.6	2
10	Dissipative operation of pH-responsive DNA-based nanodevices. Chemical Science, 2021, 12, 11735-11739.	7.4	33
11	New horizons for catalysis disclosed by supramolecular chemistry. Chemical Society Reviews, 2021, 50, 7681-7724.	38.1	117
12	Time-programmable pH: decarboxylation of nitroacetic acid allows the time-controlled rising of pH to a definite value. Chemical Science, 2021, 12, 7460-7466.	7.4	20
13	Change of Selectivity in Câ€“H Functionalization Promoted by Nonheme Iron(IV)-oxo Complexes by the Effect of the <i>N</i>-hydroxyphthalimide HAT Mediator. ACS Omega, 2021, 6, 26428-26438.	3.5	4
14	Insights into the Structure of Reaction Intermediates Through Coupled X-ray Absorption/UV-Vis Spectroscopy. Springer Proceedings in Physics, 2021, , 141-154.	0.2	5
15	Dissipative control of the fluorescence of a 1,3-dipyrenyl calix[4]arene in the cone conformation. Organic and Biomolecular Chemistry, 2021, 20, 132-138.	2.8	15
16	Abiotic Chemical Fuels for the Operation of Molecular Machines. Angewandte Chemie, 2020, 132, 8420-8430.	2.0	22
17	Abiotic Chemical Fuels for the Operation of Molecular Machines. Angewandte Chemie - International Edition, 2020, 59, 8344-8354.	13.8	76
18	Time Programmable Locking/Unlocking of the Calix[4]arene Scaffold by Means of Chemical Fuels. Chemistry - A European Journal, 2020, 26, 14954-14962.	3.3	19

#	ARTICLE	IF	CITATIONS
19	Easy Synthesis of a Selfâ€Assembled Imineâ€Based Iron(II) Complex Endowed with Crownâ€Ether Receptors. European Journal of Organic Chemistry, 2020, 2020, 3390-3397.	2.4	5
20	Predictable Selectivity in Remote Câˆ’H Oxidation of Steroids: Analysis of Substrate Binding Mode. Angewandte Chemie, 2020, 132, 12803-12808.	2.0	6
21	Direct Mechanistic Evidence for a Nonheme Complex Reaction through a Multivariate XAS Analysis. Inorganic Chemistry, 2020, 59, 9979-9989.	4.0	13
22	Supramolecular Catalysts Featuring Crown Ethers as Recognition Units. European Journal of Organic Chemistry, 2020, 2020, 3340-3350.	2.4	24
23	Predictable Selectivity in Remote Câˆ’H Oxidation of Steroids: Analysis of Substrate Binding Mode. Angewandte Chemie - International Edition, 2020, 59, 12703-12708.	13.8	33
24	Controlling the liberation rate of the in situ release of a chemical fuel for the operationally autonomous motions of molecular machines. Organic and Biomolecular Chemistry, 2020, 18, 3867-3873.	2.8	11
25	The Hydrolysis of the Anhydride of 2â€Cyanoâ€2â€phenylpropanoic Acid Triggers the Repeated Back and Forth Motions of an Acidâ€"Base Operated Molecular Switch. Chemistry - A European Journal, 2019, 25, 15205-15211.	3.3	24
26	<i>N</i>-Hydroxyphthalimide: A Hydrogen Atom Transfer Mediator in Hydrocarbon Oxidations Promoted by Nonheme Iron(IV)â€"Oxo Complexes. Journal of Organic Chemistry, 2019, 84, 13549-13556.	3.2	19
27	The canonical behavior of the entropic component of thermodynamic effective molarity. An attempt at unifying covalent and noncovalent cyclizations. Physical Chemistry Chemical Physics, 2019, 21, 955-987.	2.8	20
28	Enzyme-like substrate-selectivity in Câ€"H oxidation enabled by recognition. Chemical Communications, 2019, 55, 917-920.	4.1	39
29	2-Cyano-2-phenylpropanoic Acid Triggers the Back and Forth Motions of an Acidâ€"Base-Operated Paramagnetic Molecular Switch. Journal of Organic Chemistry, 2019, 84, 9364-9368.	3.2	27
30	Dissipative Catalysis with a Molecular Machine. Angewandte Chemie - International Edition, 2019, 58, 9876-9880.	13.8	116
31	Dissipative Catalysis with a Molecular Machine. Angewandte Chemie, 2019, 131, 9981-9985.	2.0	37
32	Coupled X-ray Absorption/UVâ€"vis Monitoring of Fast Oxidation Reactions Involving a Nonheme Ironâ€"Oxo Complex. Journal of the American Chemical Society, 2019, 141, 2299-2304.	13.7	27
33	Photoinduced Release of a Chemical Fuel for Acidâ€"Baseâ€Operated Molecular Machines. Chemistry - A European Journal, 2018, 24, 10122-10127.	3.3	32
34	Variations in the fuel structure control the rate of the back and forth motions of a chemically fuelled molecular switch. Chemical Science, 2018, 9, 181-188.	7.4	49
35	Inherently chiral cone-calix[4]arenes via a subsequent upper rim ring-closing/opening methodology. Organic and Biomolecular Chemistry, 2018, 16, 7255-7264.	2.8	3
36	Oxidative functionalization of aliphatic and aromatic amino acid derivatives with H₂O₂ catalyzed by a nonheme imine based iron complex. RSC Advances, 2018, 8, 19144-19151.	3.6	10

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37	Influence of topology on the gelation behavior of coordination polymers prepared via ROMP of macrocyclic olefins. Journal of Polymer Science Part A, 2017, 55, 1237-1242.	2.3	2
38	Statistical Ring Catenation under Thermodynamic Control: Should the Jacobsonâ€“Stockmayer Cyclization Theory Take into Account Catenane Formation?. Journal of Physical Chemistry B, 2017, 121, 649-656.	2.6	5
39	Following a Chemical Reaction on the Millisecond Time Scale by Simultaneous X-ray and UV/Vis Spectroscopy. Journal of Physical Chemistry Letters, 2017, 8, 2958-2963.	4.6	11
40	Role of electron transfer processes in the oxidation of aryl sulfides catalyzed by nonheme iron complexes. Phosphorus, Sulfur and Silicon and the Related Elements, 2017, 192, 241-244.	1.6	4
41	Formation of Imidazo[1,5-<i>a</i>]pyridine Derivatives Due to the Action of Fe²⁺ on Dynamic Libraries of Imines. Journal of Organic Chemistry, 2017, 82, 3820-3825.	3.2	22
42	Direct hydroxylation of benzene and aromatics with H₂O₂ catalyzed by a self-assembled iron complex: evidence for a metal-based mechanism. Catalysis Science and Technology, 2017, 7, 5677-5686.	4.1	33
43	Supramolecular Recognition Allows Remote, Siteâ€Selective Câˆ’H Oxidation of Methylenic Sites in Linear Amines. Angewandte Chemie - International Edition, 2017, 56, 16347-16351.	13.8	85
44	Supramolecular Recognition Allows Remote, Siteâ€Selective Câˆ’H Oxidation of Methylenic Sites in Linear Amines. Angewandte Chemie, 2017, 129, 16565-16569.	2.0	29
45	Nonâ€Heme Imineâ€Based Iron Complexes as Catalysts for Oxidative Processes. Advanced Synthesis and Catalysis, 2016, 358, 843-863.	4.3	91
46	Coupling of the Decarboxylation of 2-Cyano-2-phenylpropanoic Acid to Large-Amplitude Motions: A Convenient Fuel for an Acid-Base-Operated Molecular Switch. Angewandte Chemie, 2016, 128, 7111-7115.	2.0	19
47	Electron Transfer Mechanism in the Oxidation of Aryl 1-Methyl-1-phenylethyl Sulfides Promoted by Nonheme Iron(IV)â€“Oxo Complexes: The Rate of the Oxygen Rebound Process. Journal of Organic Chemistry, 2016, 81, 12382-12387.	3.2	11
48	Alcohol oxidation with H₂O₂ catalyzed by a cheap and promptly available imine based iron complex. Organic and Biomolecular Chemistry, 2016, 14, 10630-10635.	2.8	32
49	Coupling of the Decarboxylation of 2â€Cyanoâ€2â€phenylpropanoic Acid to Largeâ€Amplitude Motions: A Convenient Fuel for an Acidâ€“Baseâ€Operated Molecular Switch. Angewandte Chemie - International Edition, 2016, 55, 6997-7001.	13.8	74
50	Catenation Equilibria Between Ring Oligomers and Their Relation to Effective Molarities: Models From Theories and Simulations. Macromolecular Theory and Simulations, 2016, 25, 63-73.	1.4	5
51	Oxidation of Aryl Diphenylmethyl Sulfides Promoted by a Nonheme Iron(IV)-Oxo Complex: Evidence for an Electron Transfer-Oxygen Transfer Mechanism. Journal of Organic Chemistry, 2016, 81, 2513-2520.	3.2	22
52	A Cu^Iâ€Based Metalloâ€Supramolecular Gelâ€Like Material Built from a Library of ÂOligomeric Ligands Featuring Exotopic 1,10â€Phenanthroline Units. European Journal of Organic Chemistry, 2015, 2015, 7504-7510.	2.4	7
53	Isotope effect profiles in the N-demethylation of N,N-dimethylanilines: a key to determine the pK_aof nonheme Fe(<scp>iii</scp>)â€“OH complexes. Chemical Communications, 2015, 51, 5032-5035.	4.1	18
54	Ring-Opening Metathesis Polymerization of a Diolefinic [2]-Catenaneâ€“Copper(I) Complex: An Easy Route to Polycatenanes. Macromolecules, 2015, 48, 1358-1363.	4.8	35

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55	Câ€“H Bond Oxidation Catalyzed by an Imine-Based Iron Complex: A Mechanistic Insight. Inorganic Chemistry, 2015, 54, 10141-10152.	4.0	36
56	Mechanisms of imine exchange reactions in organic solvents. Organic and Biomolecular Chemistry, 2015, 13, 646-654.	2.8	215
57	Applications of dynamic combinatorial chemistry for the determination of effective molarity. Chemical Science, 2015, 6, 144-151.	7.4	28
58	Copper(<scp>i</scp>)-induced amplification of a [2]catenane in a virtual dynamic library of macrocyclic alkenes. Organic and Biomolecular Chemistry, 2014, 12, 6167-6174.	2.8	30
59	Supramolecular Control of Reactivity and Catalysis â€“ Effective Molarities of Recognitionâ€Mediated Bimolecular Reactions. European Journal of Organic Chemistry, 2014, 2014, 7304-7315.	2.4	23
60	Hydrocarbon oxidation catalyzed by a cheap nonheme imine-based iron(ii) complex. Catalysis Science and Technology, 2014, 4, 2900-2903.	4.1	30
61	Effective catalysis of imine metathesis by means of fast transiminations between aromaticâ€“aromatic or aromaticâ€“aliphatic amines. Organic and Biomolecular Chemistry, 2014, 12, 3282-3287.	2.8	65
62	Naphthalenophane formaldehyde acetals as candidate structures for the generation of dynamic libraries via transacetalation processes. Tetrahedron, 2013, 69, 2767-2774.	1.9	6
63	Fast transimination in organic solvents in the absence of proton and metal catalysts. A key to imine metathesis catalyzed by primary amines under mild conditions. Chemical Science, 2013, 4, 2253.	7.4	174
64	One-shot preparation of an inherently chiral trifunctional calix[4]arene from an easily available cone-triformylcalix[4]arene. Organic and Biomolecular Chemistry, 2013, 11, 3642.	2.8	20
65	Substituent Effects on the Catalytic Activity of Bipyrrolidine-Based Iron Complexes. Journal of Organic Chemistry, 2013, 78, 11508-11512.	3.2	29
66	Reactivity of carbonyl and phosphoryl groups at calixarenes. Supramolecular Chemistry, 2013, 25, 537-554.	1.2	25
67	Target-induced amplification in a dynamic library of macrocycles. A quantitative study. New Journal of Chemistry, 2012, 36, 40-43.	2.8	32
68	Highly efficient intramolecular Cannizzaro reaction between 1,3-distal formyl groups at the upper rim of a cone-calix[4]arene. Organic and Biomolecular Chemistry, 2012, 10, 5109.	2.8	26
69	A well-behaved dynamic library of cyclophane formaldehyde acetals incorporating diphenylmethane units. Organic and Biomolecular Chemistry, 2011, 9, 8190.	2.8	31
70	Theoretical features of macrocyclization equilibria and their application on transacetalation based dynamic libraries. Journal of Physical Organic Chemistry, 2010, 23, 797-805.	1.9	33
71	Combinatorial Macrocyclizations under Thermodynamic Control: The Two-Monomer Case. Macromolecules, 2009, 42, 4077-4083.	4.8	21
72	Metathesis Reactions of Formaldehyde Acetals â€“ Experimental and Computational Investigation of Isomeric Families of Cyclophanes under Dynamic Conditions. European Journal of Organic Chemistry, 2008, 2008, 186-195.	2.4	28

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73	Ring-Expanding Polymerization by Reversible Ring Fusion. A Fascinating Process Driven by Entropy. Journal of Physical Chemistry B, 2008, 112, 4662-4665.	2.6	13
74	A Ring-Fusion/Ring-Fission Mechanism for the Metathesis Reaction of Macrocyclic Formaldehyde Acetals. Chemistry - A European Journal, 2006, 12, 8566-8570.	3.3	18
75	Metathesis Reaction of Formaldehyde Acetals:Â An Easy Entry into the Dynamic Covalent Chemistry of Cyclophane Formation. Journal of the American Chemical Society, 2005, 127, 13666-13671.	13.7	117
76	Effective Molarities in Supramolecular Catalysis of Two-Substrate Reactions. Accounts of Chemical Research, 2004, 37, 113-122.	15.6	140
77	Concave reagents: Part 40â€”The copper(II) complex of a concave reagent as a selective catalyst for ester methanolysis. Journal of Physical Organic Chemistry, 2004, 17, 350-355.	1.9	10
78	Dinuclear Barium(II) Complexes Based on a Calix[4]arene Scaffold as Catalysts of Acyl Transfer. Chemistry - A European Journal, 2004, 10, 4436-4442.	3.3	24
79	The Bis-Barium Complex of a Butterfly Crown Ether as a Phototunable Supramolecular Catalyst. Journal of the American Chemical Society, 2003, 125, 2224-2227.	13.7	143
80	Size-Selective Catalysis of Ester and Anilide Cleavage by the Dinuclear Barium(II) Complexes ofcis-andtrans-Stilbenobis(18-crown-6). Journal of Organic Chemistry, 2002, 67, 521-525.	3.2	27
81	A Dinuclear Strontium(II) Complex as Substrate-Selective Catalyst of Ester Cleavage. Journal of Organic Chemistry, 2001, 66, 5926-5928.	3.2	22
82	Toward an Artificial Acetylcholinesterase. Chemistry - A European Journal, 2000, 6, 3228-3234.	3.3	47
83	Supramolecular Catalysis of Ester and Amide Cleavage by a Dinuclear Barium(II) Complex. Angewandte Chemie - International Edition, 1999, 38, 348-351.	13.8	39
84	Catalysis of Acyl Transfer Processes by Crown-Ether Supported Alkaline-Earth Metal Ions. , 0, , 113-142.		3