

Stefano Di Stefano

List of Publications by Year in descending order

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84
papers

2,868
citations

186265

28
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197818

49
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87
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87
docs citations

87
times ranked

2317
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanisms of imine exchange reactions in organic solvents. <i>Organic and Biomolecular Chemistry</i> , 2015, 13, 646-654.	2.8	215
2	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. <i>Chemical Science</i> , 2013, 4, 2253.	7.4	174
3	The Bis-Barium Complex of a Butterfly Crown Ether as a Phototunable Supramolecular Catalyst. <i>Journal of the American Chemical Society</i> , 2003, 125, 2224-2227.	13.7	143
4	Effective Molarities in Supramolecular Catalysis of Two-Substrate Reactions. <i>Accounts of Chemical Research</i> , 2004, 37, 113-122.	15.6	140
5	Metathesis Reaction of Formaldehyde Acetals: An Easy Entry into the Dynamic Covalent Chemistry of Cyclophane Formation. <i>Journal of the American Chemical Society</i> , 2005, 127, 13666-13671.	13.7	117
6	New horizons for catalysis disclosed by supramolecular chemistry. <i>Chemical Society Reviews</i> , 2021, 50, 7681-7724.	38.1	117
7	Dissipative Catalysis with a Molecular Machine. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 9876-9880.	13.8	116
8	Non-Heme Imine-Based Iron Complexes as Catalysts for Oxidative Processes. <i>Advanced Synthesis and Catalysis</i> , 2016, 358, 843-863.	4.3	91
9	Supramolecular Recognition Allows Remote, Site-Selective C-H Oxidation of Methylenic Sites in Linear Amines. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 16347-16351.	13.8	85
10	Abiotic Chemical Fuels for the Operation of Molecular Machines. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 8344-8354.	13.8	76
11	Coupling of the Decarboxylation of 2-Cyano-2-phenylpropanoic Acid to Large-Amplitude Motions: A Convenient Fuel for an Acid-Base-Operated Molecular Switch. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 6997-7001.	13.8	74
12	Effective catalysis of imine metathesis by means of fast transiminations between aromatic-aromatic or aromatic-aliphatic amines. <i>Organic and Biomolecular Chemistry</i> , 2014, 12, 3282-3287.	2.8	65
13	Variations in the fuel structure control the rate of the back and forth motions of a chemically fuelled molecular switch. <i>Chemical Science</i> , 2018, 9, 181-188.	7.4	49
14	Toward an Artificial Acetylcholinesterase. <i>Chemistry - A European Journal</i> , 2000, 6, 3228-3234.	3.3	47
15	Supramolecular Catalysis of Ester and Amide Cleavage by a Dinuclear Barium(II) Complex. <i>Angewandte Chemie - International Edition</i> , 1999, 38, 348-351.	13.8	39
16	Enzyme-like substrate-selectivity in C-H oxidation enabled by recognition. <i>Chemical Communications</i> , 2019, 55, 917-920.	4.1	39
17	Dissipative Catalysis with a Molecular Machine. <i>Angewandte Chemie</i> , 2019, 131, 9981-9985.	2.0	37
18	C-H Bond Oxidation Catalyzed by an Imine-Based Iron Complex: A Mechanistic Insight. <i>Inorganic Chemistry</i> , 2015, 54, 10141-10152.	4.0	36

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19	Ring-Opening Metathesis Polymerization of a Diolefinic [2]-Catenaneâ€“Copper(I) Complex: An Easy Route to Polycatenanes. <i>Macromolecules</i> , 2015, 48, 1358-1363.	4.8	35
20	Theoretical features of macrocyclization equilibria and their application on transacetalation based dynamic libraries. <i>Journal of Physical Organic Chemistry</i> , 2010, 23, 797-805.	1.9	33
21	Direct hydroxylation of benzene and aromatics with H ₂ O ₂ catalyzed by a self-assembled iron complex: evidence for a metal-based mechanism. <i>Catalysis Science and Technology</i> , 2017, 7, 5677-5686.	4.1	33
22	Predictable Selectivity in Remote C-H Oxidation of Steroids: Analysis of Substrate Binding Mode. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 12703-12708.	13.8	33
23	Dissipative operation of pH-responsive DNA-based nanodevices. <i>Chemical Science</i> , 2021, 12, 11735-11739.	7.4	33
24	Target-induced amplification in a dynamic library of macrocycles. A quantitative study. <i>New Journal of Chemistry</i> , 2012, 36, 40-43.	2.8	32
25	Alcohol oxidation with H ₂ O ₂ catalyzed by a cheap and promptly available imine based iron complex. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 10630-10635.	2.8	32
26	Photoinduced Release of a Chemical Fuel for Acid-Base-Operated Molecular Machines. <i>Chemistry - A European Journal</i> , 2018, 24, 10122-10127.	3.3	32
27	A well-behaved dynamic library of cyclophane formaldehyde acetals incorporating diphenylmethane units. <i>Organic and Biomolecular Chemistry</i> , 2011, 9, 8190.	2.8	31
28	Copper-induced amplification of a [2]catenane in a virtual dynamic library of macrocyclic alkenes. <i>Organic and Biomolecular Chemistry</i> , 2014, 12, 6167-6174.	2.8	30
29	Hydrocarbon oxidation catalyzed by a cheap nonheme imine-based iron(ii) complex. <i>Catalysis Science and Technology</i> , 2014, 4, 2900-2903.	4.1	30
30	Substituent Effects on the Catalytic Activity of Bipyrrolidine-Based Iron Complexes. <i>Journal of Organic Chemistry</i> , 2013, 78, 11508-11512.	3.2	29
31	Supramolecular Recognition Allows Remote, Site-Selective C-H Oxidation of Methylenic Sites in Linear Amines. <i>Angewandte Chemie</i> , 2017, 129, 16565-16569.	2.0	29
32	Metathesis Reactions of Formaldehyde Acetals â€“ Experimental and Computational Investigation of Isomeric Families of Cyclophanes under Dynamic Conditions. <i>European Journal of Organic Chemistry</i> , 2008, 2008, 186-195.	2.4	28
33	Applications of dynamic combinatorial chemistry for the determination of effective molarity. <i>Chemical Science</i> , 2015, 6, 144-151.	7.4	28
34	Size-Selective Catalysis of Ester and Anilide Cleavage by the Dinuclear Barium(II) Complexes of cis- and trans-Stilbenobis(18-crown-6). <i>Journal of Organic Chemistry</i> , 2002, 67, 521-525.	3.2	27
35	2-Cyano-2-phenylpropanoic Acid Triggers the Back and Forth Motions of an Acid-Base-Operated Paramagnetic Molecular Switch. <i>Journal of Organic Chemistry</i> , 2019, 84, 9364-9368.	3.2	27
36	Coupled X-ray Absorption/UV-vis Monitoring of Fast Oxidation Reactions Involving a Nonheme Iron-Oxo Complex. <i>Journal of the American Chemical Society</i> , 2019, 141, 2299-2304.	13.7	27

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37	Highly efficient intramolecular Cannizzaro reaction between 1,3-distal formyl groups at the upper rim of a cone-calix[4]arene. <i>Organic and Biomolecular Chemistry</i> , 2012, 10, 5109.	2.8	26
38	Reactivity of carbonyl and phosphoryl groups at calixarenes. <i>Supramolecular Chemistry</i> , 2013, 25, 537-554.	1.2	25
39	Dinuclear Barium(II) Complexes Based on a Calix[4]arene Scaffold as Catalysts of Acyl Transfer. <i>Chemistry - A European Journal</i> , 2004, 10, 4436-4442.	3.3	24
40	The Hydrolysis of the Anhydride of 2-Cyano-2-phenylpropanoic Acid Triggers the Repeated Back and Forth Motions of an Acid-Base Operated Molecular Switch. <i>Chemistry - A European Journal</i> , 2019, 25, 15205-15211.	3.3	24
41	Supramolecular Catalysts Featuring Crown Ethers as Recognition Units. <i>European Journal of Organic Chemistry</i> , 2020, 2020, 3340-3350.	2.4	24
42	Supramolecular Control of Reactivity and Catalysis - Effective Molarities of Recognition-Mediated Bimolecular Reactions. <i>European Journal of Organic Chemistry</i> , 2014, 2014, 7304-7315.	2.4	23
43	A Dinuclear Strontium(II) Complex as Substrate-Selective Catalyst of Ester Cleavage. <i>Journal of Organic Chemistry</i> , 2001, 66, 5926-5928.	3.2	22
44	Oxidation of Aryl Diphenylmethyl Sulfides Promoted by a Nonheme Iron(IV)-Oxo Complex: Evidence for an Electron Transfer-Oxygen Transfer Mechanism. <i>Journal of Organic Chemistry</i> , 2016, 81, 2513-2520.	3.2	22
45	Formation of Imidazo[1,5- <i>a</i>]pyridine Derivatives Due to the Action of Fe ²⁺ on Dynamic Libraries of Imines. <i>Journal of Organic Chemistry</i> , 2017, 82, 3820-3825.	3.2	22
46	Abiotic Chemical Fuels for the Operation of Molecular Machines. <i>Angewandte Chemie</i> , 2020, 132, 8420-8430.	2.0	22
47	Combinatorial Macrocyclizations under Thermodynamic Control: The Two-Monomer Case. <i>Macromolecules</i> , 2009, 42, 4077-4083.	4.8	21
48	One-shot preparation of an inherently chiral trifunctional calix[4]arene from an easily available cone-triformylcalix[4]arene. <i>Organic and Biomolecular Chemistry</i> , 2013, 11, 3642.	2.8	20
49	The canonical behavior of the entropic component of thermodynamic effective molarity. An attempt at unifying covalent and noncovalent cyclizations. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 955-987.	2.8	20
50	Time-programmable pH: decarboxylation of nitroacetic acid allows the time-controlled rising of pH to a definite value. <i>Chemical Science</i> , 2021, 12, 7460-7466.	7.4	20
51	Coupling of the Decarboxylation of 2-Cyano-2-phenylpropanoic Acid to Large-Amplitude Motions: A Convenient Fuel for an Acid-Base-Operated Molecular Switch. <i>Angewandte Chemie</i> , 2016, 128, 7111-7115.	2.0	19
52	<i>N</i> -Hydroxyphthalimide: A Hydrogen Atom Transfer Mediator in Hydrocarbon Oxidations Promoted by Nonheme Iron(IV)-Oxo Complexes. <i>Journal of Organic Chemistry</i> , 2019, 84, 13549-13556.	3.2	19
53	Time Programmable Locking/Unlocking of the Calix[4]arene Scaffold by Means of Chemical Fuels. <i>Chemistry - A European Journal</i> , 2020, 26, 14954-14962.	3.3	19
54	A Ring-Fusion/Ring-Fission Mechanism for the Metathesis Reaction of Macrocyclic Formaldehyde Acetals. <i>Chemistry - A European Journal</i> , 2006, 12, 8566-8570.	3.3	18

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55	Isotope effect profiles in the N-demethylation of N,N-dimethylanilines: a key to determine the pK _a of nonheme Fe(III)-OH complexes. <i>Chemical Communications</i> , 2015, 51, 5032-5035.	4.1	18
56	Temporal Control of the Host-Guest Properties of a Calix[6]arene Receptor by the Use of a Chemical Fuel. <i>Journal of Organic Chemistry</i> , 2022, 87, 3623-3629.	3.2	18
57	Dissipative Dynamic Covalent Chemistry (DDCvC) Based on the Transimination Reaction. <i>Chemistry - A European Journal</i> , 2022, 28, .	3.3	18
58	Chemical Tools for the Temporal Control of Water Solution pH and Applications in Dissipative Systems. <i>European Journal of Organic Chemistry</i> , 2022, 2022, .	2.4	18
59	Dissipative control of the fluorescence of a 1,3-dipyrenyl calix[4]arene in the cone conformation. <i>Organic and Biomolecular Chemistry</i> , 2021, 20, 132-138.	2.8	15
60	Ring-Expanding Polymerization by Reversible Ring Fusion. A Fascinating Process Driven by Entropy. <i>Journal of Physical Chemistry B</i> , 2008, 112, 4662-4665.	2.6	13
61	Direct Mechanistic Evidence for a Nonheme Complex Reaction through a Multivariate XAS Analysis. <i>Inorganic Chemistry</i> , 2020, 59, 9979-9989.	4.0	13
62	Electron Transfer Mechanism in the Oxidation of Aryl 1-Methyl-1-phenylethyl Sulfides Promoted by Nonheme Iron(IV)-Oxo Complexes: The Rate of the Oxygen Rebound Process. <i>Journal of Organic Chemistry</i> , 2016, 81, 12382-12387.	3.2	11
63	Following a Chemical Reaction on the Millisecond Time Scale by Simultaneous X-ray and UV/Vis Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 2958-2963.	4.6	11
64	Controlling the liberation rate of the in situ release of a chemical fuel for the operationally autonomous motions of molecular machines. <i>Organic and Biomolecular Chemistry</i> , 2020, 18, 3867-3873.	2.8	11
65	Concave reagents: Part 40-The copper(II) complex of a concave reagent as a selective catalyst for ester methanolysis. <i>Journal of Physical Organic Chemistry</i> , 2004, 17, 350-355.	1.9	10
66	Oxidative functionalization of aliphatic and aromatic amino acid derivatives with H ₂ O ₂ catalyzed by a nonheme imine based iron complex. <i>RSC Advances</i> , 2018, 8, 19144-19151.	3.6	10
67	Direct structural and mechanistic insights into fast bimolecular chemical reactions in solution through a coupled XAS/UV-Vis multivariate statistical analysis. <i>Dalton Transactions</i> , 2021, 50, 131-142.	3.3	10
68	Following a Silent Metal Ion: A Combined X-ray Absorption and Nuclear Magnetic Resonance Spectroscopic Study of the Zn ²⁺ Cation Dissipative Translocation between Two Different Ligands. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 5522-5529.	4.6	10
69	Activation of C-H bonds by a nonheme iron(iv)-oxo complex: mechanistic evidence through a coupled EDXAS/UV-Vis multivariate analysis. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 1188-1196.	2.8	9
70	A Cu ^I -Based Metallo-Supramolecular Gel-Like Material Built from a Library of Oligomeric Ligands Featuring Exotopic 1,10-Phenanthroline Units. <i>European Journal of Organic Chemistry</i> , 2015, 2015, 7504-7510.	2.4	7
71	Naphthalenophane formaldehyde acetals as candidate structures for the generation of dynamic libraries via transacetalation processes. <i>Tetrahedron</i> , 2013, 69, 2767-2774.	1.9	6
72	Predictable Selectivity in Remote C-H Oxidation of Steroids: Analysis of Substrate Binding Mode. <i>Angewandte Chemie</i> , 2020, 132, 12803-12808.	2.0	6

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73	Two Faces of the Same Coin: Coupling X-ray Absorption and NMR Spectroscopies to Investigate the Exchange Reaction Between Prototypical Cu Coordination Complexes. <i>Chemistry - A European Journal</i> , 2022, 28, .	3.3	6
74	Catenation Equilibria Between Ring Oligomers and Their Relation to Effective Molarities: Models From Theories and Simulations. <i>Macromolecular Theory and Simulations</i> , 2016, 25, 63-73.	1.4	5
75	Statistical Ring Catenation under Thermodynamic Control: Should the Jacobson-Stockmayer Cyclization Theory Take into Account Catenane Formation?. <i>Journal of Physical Chemistry B</i> , 2017, 121, 649-656.	2.6	5
76	Easy Synthesis of a Self-Assembled Imine-Based Iron(II) Complex Endowed with Crown-Ether Receptors. <i>European Journal of Organic Chemistry</i> , 2020, 2020, 3390-3397.	2.4	5
77	Insight into the chemoselective aromatic vs. side-chain hydroxylation of alkylaromatics with H ₂ O ₂ catalyzed by a non-heme imine-based iron complex. <i>Catalysis Science and Technology</i> , 2021, 11, 171-178.	4.1	5
78	Insights into the Structure of Reaction Intermediates Through Coupled X-ray Absorption/UV-Vis Spectroscopy. <i>Springer Proceedings in Physics</i> , 2021, , 141-154.	0.2	5
79	Role of electron transfer processes in the oxidation of aryl sulfides catalyzed by nonheme iron complexes. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 2017, 192, 241-244.	1.6	4
80	Change of Selectivity in C-H Functionalization Promoted by Nonheme Iron(IV)-oxo Complexes by the Effect of the N-hydroxyphthalimide HAT Mediator. <i>ACS Omega</i> , 2021, 6, 26428-26438.	3.5	4
81	Catalysis of Acyl Transfer Processes by Crown-Ether Supported Alkaline-Earth Metal Ions. , 0, , 113-142.		3
82	Inherently chiral cone-calix[4]arenes via a subsequent upper rim ring-closing/opening methodology. <i>Organic and Biomolecular Chemistry</i> , 2018, 16, 7255-7264.	2.8	3
83	Influence of topology on the gelation behavior of coordination polymers prepared via ROMP of macrocyclic olefins. <i>Journal of Polymer Science Part A</i> , 2017, 55, 1237-1242.	2.3	2
84	Increasing the steric hindrance around the catalytic core of a self-assembled imine-based non-heme iron catalyst for C-H oxidation. <i>RSC Advances</i> , 2021, 11, 537-542.	3.6	2