

STEFANO DI STEFANO

Lista delle Pubblicazioni

L' Impact Factor (IF) è relativo all'anno di pubblicazione (per le pubblicazioni più recenti, se non ancora disponibile, è stato utilizzato l'IF dell'anno immediatamente precedente a quello di pubblicazione). Nelle pubblicazioni in cui SDS è corresponding author (o co-corresponding author) il suo nome è asteriscato.

- 1) "Catalysis of Anilide Ethanolysis by Barium- and Strontium-Ethoxide Pairs and Their Complexes with 18-Crown-6"
R. Cacciapaglia, S. Di Stefano, E. Kelderman, L. Mandolini, F. Spadola, *J. Org. Chem.*, **1998**, *63*, 6476-6479. (IF 3.50)
- 2) "Supramolecular Catalysis of Ester and Amide Cleavage by a Dinuclear Barium(II) Complex"
R. Cacciapaglia, S. Di Stefano, E. Kelderman, L. Mandolini, *Angew. Chem. Int. Ed.*, **1999**, *38*, 348-351. (IF 8.00)
- 3) "Towards an Artificial Acetylcholinesterase"
F. Cuevas, S. Di Stefano, O. J. Magrans, P. Prados, J. de Mendoza, L. Mandolini, *Chem. Eur. J.*, **2000**, *6*, 3228-3234. (IF 4.70)
- 4) "A Dinuclear Strontium(II) Complex as Substrate Selective Catalyst of Ester Cleavage"
R. Cacciapaglia, S. Di Stefano, L. Mandolini, *J. Org. Chem.*, **2001**, *66*, 5926-5928. (IF 3.28)
- 5) "Size Selective Catalysis of Ester and Anilide Cleavage by the Dinuclear Barium (II) Complexes of *Cis*- and *Trans*-Stilbeno-bis-18-Crown-6"
R. Cacciapaglia, S. Di Stefano, L. Mandolini, *J. Org. Chem.*, **2002**, *67*, 521-525. (IF 3.22)
- 6) "6-exo-Hydroxybicyclo[2.2.2]octan-2-ones from the Corresponding Acetates by Methanolysis in the Presence of CH₃ONa / La(OTf)₃"
S. Di Stefano, F. Leonelli, B. Garofalo, L. Mandolini, R. Marini Bettolo, L. M. Migneco, *Org. Lett.*, **2002**, *4*, 2783-2785. (IF 3.72)
- 7) "The Bis-Barium Complex of a Butterfly Crown Ether as a Phototunable Supramolecular Catalyst"
R. Cacciapaglia, S. Di Stefano, L. Mandolini, *J. Am. Chem. Soc.*, **2003**, *125*, 2224-2227. (IF 6.52)
- 8) "Effective Molarities in Supramolecular Catalysis of Two Substrate Reactions"
R. Cacciapaglia, S. Di Stefano, L. Mandolini, *Acc. Chem. Res.*, **2004**, *37*, 1131-1132. (IF 13.15)
- 9) "Concave Reagents 40[#]. The Cu(II) Complex of a Concave Reagent as a Selective Supramolecular Catalyst For Ester Methanolysis"
R. Cacciapaglia, S. Di Stefano, F. Fahrenkrug, U. Lüning, L. Mandolini, *J. Phys. Org. Chem.*, **2004**, *17*, 350-355. (IF 1.21)
- 10) "Zwitterion Receptors" in Encyclopedia of Supramolecular Chemistry
S. Di Stefano, L. Mandolini, P. Breccia, J. de Mendoza.
J. R. Atwood & J. Steed editors, Marcel-Dekker Inc., New York, **2004**, 1639-1647 (Questa pubblicazione non è indicizzata né in Scopus né in Web of Science).
- 11) "Dinuclear Barium(II) Complexes Based on a Calix[4]arene Scaffold as Catalysts of Acyl Transfer"
R. Cacciapaglia, A. Casnati, S. Di Stefano, L. Mandolini, D. Paolemili, D. N. Reinhoudt, A. Sartori, and R. Ungaro, *Chem. Eur. J.*, **2004**, *10*, 4336-4342. (IF 4.52)

- 12) "Metathesis Reaction of Formaldehyde Acetals: An Easy Entry into the Dynamic Covalent Chemistry of Cyclophane Formation"
R. Cacciapaglia, S. Di Stefano, L. Mandolini, *J. Am. Chem. Soc.*, **2005**, *127*, 13666-13671. (IF 7.42)
- 13) "Ring Fusion / Ring Fission Mechanism for the Metathesis Reaction of Macrocyclic Formaldehyde Acetals"
R. Cacciapaglia, S. Di Stefano, L. Mandolini, *Chem. Eur. J.*, **2006**, *12*, 8566-8570. (IF 5.02)
- 14) "Metathesis Reactions of Formaldehyde Acetals – Experimental and Computational Investigation of Isomeric Families of Cyclophanes under Dynamic Conditions"
R. Cacciapaglia, S. Di Stefano, L. Mandolini, P. Mencarelli, F. Uguzzoli, *Eur. J. Org. Chem.*, **2008**, 186-195. (IF 3.02)
- 15) "Catalysis of Acyl Transfer Processes by Crown-Ether Supported Alkaline-Earth Metal Ions"
R. Cacciapaglia, S. Di Stefano, L. Mandolini, in *Supramolecular Catalysis*, Piet W. N. M. van Leeuwen (Ed.), WILEY-VCH Verlag GmbH & Co. KGaA, Weinheim, **2008**.
- 16) "Ring-Expanding Polymerization by Reversible Ring Fusion. A Fascinating Process Driven by Entropy"
G. Ercolani, S. Di Stefano, *J. Phys. Chem. B*, **2008**, *112*, 4662-4665. (IF 4.19)
- 17) "On the 'livingness' of a dynamic library of cyclophane formaldehyde acetals incorporating calix[4]arene subunits"
R. Cacciapaglia, S. Di Stefano*, L. Mandolini, *J. Phys. Org. Chem.*, **2008**, *21*, 688-693. (IF 1.42)
- 18) "Combinatorial Macrocyclizations under Thermodynamic Control: the Two-monomer Case"
R. Cacciapaglia, S. Di Stefano*, G. Ercolani*, L. Mandolini*, *Macromolecules*, **2009**, *42*, 4077-4083. (IF 4.54)
- 19) "Reactivity Control by Calixarenes"
R. Cacciapaglia, S. Di Stefano, L. Mandolini, in *Molecular Encapsulation: Organic Reactions in Constrained Systems*, Udo Brinker J-L Miesusset (Eds.), WILEY and Sons Ltd, Chichester, West-Sussex (UK), **2010**, 201-224.)
- 20) "Electron transfer from wheel to axle in a rotaxane. A mass spectrometric investigation"
S. Pasquale, S. Di Stefano*, B. Masci*, *New J. Chem.*, **2010**, *34*, 426-431. (IF 2.63)
- 21) "Theoretical Features of Macrocyclization Equilibria and Their Application on Transacetalation Based Dynamic Libraries"
S. Di Stefano*, *J. Phys. Org. Chem.*, **2010**, *23*, 797-805. (IF 1.48)
- 22) "Photoinversion of Sulfoxides as a Source of Diversity in Dynamic Combinatorial Chemistry"
S. Di Stefano*, M. Mazzonna, E. Bodo, L. Mandolini, O. Lanzalunga*, *Org. Lett.*, **2011**, *13*, 142-145. (IF 5.86)
- 23) "Unusual reversible complexation between atropisomeric naphthalenophanes and molecular oxygen"
L. Rodríguez, J. C. Lima, F. Pina, R. Cacciapaglia, S. Di Stefano, A. Ruggi, *J. Phys. Chem. A*, **2011**, *115*, 123-127. (IF 2.95)
- 24) "A Well-Behaved Dynamic Library of Cyclophane Formaldehyde Acetals Incorporating Diphenylmethane Units"
J. A. Berrocal, R. Cacciapaglia, S. Di Stefano*, *Org. Biomol. Chem.*, **2011**, *9*, 8190-8194. (IF 3.70)
- 25) "Target-Induced Amplification in a Dynamic Library of Macrocycles. A Quantitative Study"
J. A. Berrocal, R. Cacciapaglia, S. Di Stefano*, Luigi Mandolini, *New J. Chem.*, **2012**, *36*, 40-43. (IF 2.97)

- 26) "A Photodynamic Library of Tetrasulfinylcalix[4]arenes: the Sulfinyl Dance"
R. Cacciapaglia*, S. Di Stefano*, O. Lanzalunga, L. Maugeri, M. Mazzonna, *Eur. J. Org. Chem.*, **2012**, 1426-1430. (IF 3.34)
- 27) "A Highly Efficient Intramolecular Cannizzaro Reaction between 1,3-Distal Formyl Groups at the Upper Rim of a *cone*-Calix[4]arene"
M. Galli, J. A. Berrocal, S. Di Stefano*, R. Cacciapaglia, L. Mandolini, L. Baldini, A. Casnati, F. Ugozzoli, *Org. Biomol. Chem.*, **2012**, *10*, 5109-5012. (IF 3.57)
- 28) "Naphthalenophane Formaldehyde Acetals as Candidate Structures for the Generation of Dynamic Libraries via Transacetalation Processes"
A. Ruggi, R. Cacciapaglia*, S. Di Stefano*, E. Bodo, F. Ugozzoli, *Tetrahedron*, **2013**, *69*, 2767-2774. (IF 2.82)
- 29) "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"
M. Ciaccia, R. Cacciapaglia, P. Mencarelli, L. Mandolini, S. Di Stefano*, *Chem. Sci.*, **2013**, *4*, 2253–2261. (IF 8.60)
- 30) "One-Shot Preparation of an Inherently Chiral Trifunctional Calix[4]arene from an Easily Available Cone-Triformylcalix[4]arene"
M. Ciaccia, I. Tosi, R. Cacciapaglia, A. Casnati, L. Baldini*, S. Di Stefano*, *Org. Biomol. Chem.*, **2013**, *11*, 3642-2648. (IF 3.49)
- 31) "Reactivity of Carbonyl and Phosphoryl Groups at Calixarenes"
R. Cacciapaglia, S. Di Stefano, L. Mandolini, R. Salvio, *Supramolecular Chemistry*, **2013**, *25*, 537-554. (IF 2.13)
- 32) "Substituent Effect on the Catalytic Activity of Bipyrrrolidine Based Iron Complexes"
G. Olivo, O. Lanzalunga, L. Mandolini, S. Di Stefano*, *J. Org. Chem.*, **2013**, *78*, 11508–11512. (IF 4.64)
- 33) "Effective Catalysis of Imine Metathesis by means of Fast Transiminations between Aromatic-Aromatic or Aromatic-Aliphatic Amines"
M. Ciaccia, Silvia Pilati, R. Cacciapaglia, L. Mandolini, S. Di Stefano*, *Org. Biomol. Chem.*, **2014**, *12*, 3282-3287. (IF 3.56)
- 34) "Hydrocarbon Oxidation Catalyzed by a Cheap Nonheme Imine-based Iron(II) Complex"
G. Olivo, G. Arancio, L. Mandolini, O. Lanzalunga, S. Di Stefano*, *Cat. Sci. & Technol.*, **2014**, *4*, 2900-2903. (IF 5.43)
- 35) "Copper(I)-Induced Amplification of a [2]catenane in a Virtual Dynamic Library of Macrocyclic Alkenes"
J. A. Berrocal, M. M. L. Nieuwenhuizen, L. Mandolini, E. W. Meijer*, S. Di Stefano*, *Org. Biomol. Chem.*, **2014**, *12*, 6167 - 6174. (IF 3.56)
- 36) "Supramolecular Control of Reactivity and Catalysis. Effective Molarities of Recognition-Mediated Bimolecular Reactions"
S. Di Stefano*, R. Cacciapaglia, L. Mandolini*, *Eur. J. Org. Chem.*, **2014**, 7304-7315. (IF 3.07)
- 37) "Applications of Dynamic Combinatorial Chemistry for the Determination of Effective Molarity"
M. Ciaccia, I. Tosi, L. Baldini, R. Cacciapaglia, L. Mandolini, S. Di Stefano*, C. A. Hunter*, *Chem. Sci.*, **2015**, *6*, 144–151. (IF 9.14)
- 38) "Mechanisms of Imine Exchange Reactions in Organic Solvents"
M. Ciaccia, S. Di Stefano*, *Org. Biomol. Chem.*, **2015**, *13*, 646–654. (IF 3.56)

- 39) "Isotope Effect Profiles in the *N*-demethylation of *N,N*-dimethylanilines. A Key to Determine the pK_a of Nonheme Fe(III)-OH Complexes"
A. Barbieri, M. De Gennaro, S. Di Stefano, O. Lanzalunga, A. Lapi, M. Mazzonna, G. Olivo, B. Ticconi, *Chem. Commun.*, **2015**, 51, 5032-5035. (IF 6.57)
- 40) "Ring-opening Metathesis Polymerization of a Diolefinic [2]-Catenane-copper(I) Complex: An Easy Route to Polycatenanes"
J. A. Berrocal, L. M. Pitet, M. M. L. Nieuwenhuizen, L. Mandolini, E. W. Meijer*, S. Di Stefano*, *Macromolecules*, **2015**, 48, 1358-1363. (IF 5.55)
- 41) "A CuI-Based Metallo-Supramolecular Gellike Material Built from a Library of Oligomeric Ligands Featuring Exotopic 1,10-Phenanthroline Units"
J. A. Berrocal, S. Albano, L. Mandolini, S. Di Stefano*, *Eur. J. Org. Chem.*, **2015**, 7504-7510. (IF 3.07)
- 42) "C-H Bond Oxidation Catalyzed by an Imine Based Iron Complex: A Mechanistic Insight"
G. Olivo, M. Nardi, D. Vidal-Sanchez, A. Barbieri, A. Lapi, L. Gómez, O. Lanzalunga, M. Costas*, S. Di Stefano*, *Inorg. Chem.*, **2015**, 54, 10141-10152. (IF 4.82)
- 43) "Catenation Equilibria between Ring Oligomers and their Relation to Effective Molarities. Models from Theories and Simulations"
S. Di Stefano*, G. Ercolani*, *Macromolecular Theory and Simulations*, **2016**, 25, 63-73. (IF 1.72)
- 44) "Nonheme Imine-based Iron Complexes as Catalysts for Oxidative Processes"
G. Olivo, O. Lanzalunga, S. Di Stefano*, *Adv. Synth. & Cat.*, **2016**, 358, 843-863. (IF 5.65)
- 45) "Oxidation of Aryl Diphenylmethyl Sulfides Promoted by a Non-Heme Iron(IV)-Oxo Complex: Evidence for Electron Transfer-Oxygen Transfer Mechanism"
A. Barbieri, R. De Carlo Chimienti, T. Del Giacco, S. Di Stefano, O. Lanzalunga, A. Lapi, M. Mazzonna, G. Olivo, M. Salamone, *J. Org. Chem.*, **2016**, 81, 2513-2520. (IF 4.85)
- 46) "Coupling Decarboxylation of 2-Cyano-2-phenylpropanoic Acid to Large Amplitude Motions: a Convenient Fuel for an Acid-Base Operated Molecular Switch"
J. A. Berrocal, C. Biagini, L. Mandolini, S. Di Stefano*, *Angew. Chem. Int. Ed.*, **2016**, 55, 6997-7001. (IF 11.99)
- 47) "Equilibrium Effective Molarity as a Key Concept in Ring-Chain Equilibria, Dynamic Combinatorial Chemistry, Cooperativity, and Self-Assembly"
S. Di Stefano*, G. Ercolani*, *Adv. Phys. Org. Chem.*, **2016**, volume 50, 1-76. (IF 0.75).
- 48) "Alcohol Oxidation with H₂O₂ Catalyzed by a Cheap and Promptly Available Imine Based Iron Complex"
G. Olivo, S. Giosia, A. Barbieri, O. Lanzalunga, S. Di Stefano*, *Org. Biomol. Chem.*, **2016**, 14, 10630-10635. (IF 3.56)
- 49) "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"
A. Barbieri, T. Del Giacco, S. Di Stefano, O. Lanzalunga, A. Lapi, M. Mazzonna, G. Olivo, *J. Org. Chem.*, **2016**, 81, 12382-12387. (IF 4.85)
- 50) "Role of Electron Transfer Processes in the Oxidation of Aryl Sulfides Catalysed by Nonheme Iron Complexes"
A. Barbieri, S. Di Stefano, O. Lanzalunga, A. Lapi, M. Mazzonna, G. Olivo, *Phosphorus, Sulfur and Silicon and the Related Elements*, **2017**, 112, 241-244. (IF 0.67)
- 51) "Statistical Ring Catenation under Thermodynamic Control: Should the Jacobson-Stockmayer Cyclization Theory Take into Account Catenane Formation?"
S. Di Stefano*, G. Ercolani*, *J. Phys. Chem. B*, **2017**, 112, 649-656. (IF 3.15)

- 52) "Influence of Topology on the Gelation Behavior of Coordination Polymers prepared via ROMP of Macrocyclic Olefins"
S. Albano, A. Fantozzi, J. A. Berrocal, S. Di Stefano*, *J. Poly. Sci., Part A: Polymer Chemistry*, **2017**, *55*, 1237–1242. (IF 2.59)
- 53) "Formation of Imidazo[1,5-a]pyridine Derivatives Due to the Action of Fe²⁺ on Dynamic Libraries of Imines"
S. Albano, G. Olivo, L. Mandolini, C. Massera, F. Ugozzoli, S. Di Stefano*, *J. Org. Chem.*, **2017**, *82*, 3820–3825. (IF 4.81)
- 54) "Following a Chemical Reaction in the ms Timescale by Simultaneous X-Ray and UV/Vis Spectroscopy"
G. Olivo, A. Barbieri, V. Dantignana, F. Sessa, V. Migliorati, M. Monte, S. Pascarelli, T. Narayanan, O. Lanzalunga*, S. Di Stefano*, P. D'Angelo*, *J. Phys. Chem. Lett.*, **2017**, *8*, 2958-2963. (IF 8.71)
- 55) "Supramolecular Recognition Allows Remote, Site-selective C-H Oxidation of Methylenic Sites in Linear Amines"
G. Olivo*, G. Farinelli, A. Barbieri, O. Lanzalunga, S. Di Stefano*, M. Costas*, *Angew. Chem. Int. Ed.*, **2017**, *56*, 16347–16351. (IF = 12.10)
- 56) "Direct Hydroxylation of Benzene and Aromatics with H₂O₂ Catalyzed by a Self-Assembled Iron Complex: Evidence for a Metal-based Mechanism"
G. Capocasa, G. Olivo, A. Barbieri, O. Lanzalunga, S. Di Stefano*, *Cat. Sci. & Technol.*, **2017**, *7*, 5677–5686. (IF 5.37) (**Hot Article**).
- 57) "Variations in the Fuel Structure Control the Rate of the Back and Forth Motions of a Chemically Fuelled Molecular Switch"
C. Biagini, S. Albano, R. Caruso, L. Mandolini, J. A. Berrocal, S. Di Stefano*, *Chem. Sci.* **2018**, *9*, 181-188. (IF = 9.56) (**Editor's Choice Collection**)
- 58) "Photoinduced Release of a Chemical Fuel for Acid-Base Operated Molecular Machines"
C. Biagini, F. Di Pietri, L. Mandolini, O. Lanzalunga, S. Di Stefano*, *Chem. Eur. J.*, **2018**, *24*, 10122-10127. (IF = 5.16) (**Hot Paper**, Spotlighted in *Angew. Chem. Int. Ed.*, **2018**, *57*, 10006-10009)
- 59) "Oxidative Functionalization of Aliphatic and Aromatic Amino Acid Derivatives with H₂O₂ Catalyzed by a Nonheme Imine Based Iron Complex"
B. Ticconi, A. Colcerasa, S. Di Stefano, O. Lanzalunga, A. Lapi, M. Mazzonna G. Olivo, *RSC Advances*, **2018**, *8*, 19144–19151. (IF = 3.05)
- 60) "Inherently Chiral Cone-calix[4]arenes via a Subsequent Upper Rim Ring-closing/opening Methodology"
J. A. Berrocal, M. B. Baker, L. Baldini, A. Casnati, S. Di Stefano, *Org. Biomol. Chem.*, **2018**, *16*, 7255-7264. (IF = 3.49)
- 61) "The Canonical Behavior of the Entropic Component of Thermodynamic Effective Molarity. An Attempt at Unifying Covalent and Noncovalent Cyclizations"
S. Di Stefano*, L. Mandolini*, *Phys. Chem. Chem. Phys.*, **2019**, *21*, 955-987. (IF = 3.43) (**Hot Article**).
- 62) "Enzyme-like Substrate-Selectivity in C-H Oxidation Enabled by Recognition"
G. Olivo*, G. Capocasa, O. Lanzalunga, S. Di Stefano*, M. Costas*, *Chem. Commun.*, **2019**, *55*, 917-920. (IF = 5.996)
- 63) "Coupled X-Ray Absorption/ UV-Vis Monitoring of Fast Oxidation Reactions Involving a Non-Heme Iron Oxo Complex"
G. Capocasa, F. Sessa, F. Tavani, G. Olivo, M. Monte, S. Pascarelli, O. Lanzalunga*, S. Di Stefano*, P. D'Angelo*, *J. Am. Chem. Soc.*, **2019**, *141*, 2299–2304. (IF = 14.61)

- 64) "Imine-based Iron and Manganese Complexes as Catalysts for Alkane Functionalization"
G. Olivo, O. Lanzalunga, S. Di Stefano, in *Alkane Functionalization*, Armando J. L Pombeiro, Maria de Fátima Costa Guedes da Silva (Eds.), John Wiley & Sons, Ltd., Hoboken (NJ), **2019**.
- 65) "Dissipative Catalysis with a Molecular Machine"
C. Biagini, S. D. P. Fielden, D. A. Leigh, F. Schaufelberger, S. Di Stefano, D. Thomas, *Angew. Chem. Int. Ed.*, **2019**, 58, 9876-9880. (IF = 12.96) (**Hot Paper, First Cover Angew. Chem. Int. Ed., Top Downloaded 2018-2019**)
- 66) "2-Cyano-2-phenylpropanoic Acid Triggers the Back and Forth Motions of an Acid-Base-Operated Paramagnetic Molecular Switch"
P. Franchi, C. Poderi, E. Mezzina, C. Biagini, S. Di Stefano*, M. Lucarini*, *J. Org. Chem.*, **2019**, 84, 9364-9368. (IF = 4.34)
- 67) "N-Hydroxyphthalimide: A Hydrogen Atom Transfer Mediator in Hydrocarbon Oxidations Promoted by Nonheme Iron(IV)-Oxo Complexes"
A. Barbieri, O. Lanzalunga, A. Lapi. S. Di Stefano, *J. Org. Chem.*, **2019**, 84, 13549-13556. (IF = 4.34)
- 68) "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"
C. Biagini, G. Capocasa, V. Cataldi, D. Del Giudice, L. Mandolini, S. Di Stefano*, *Chem. Eur. J.*, **2019**, 25, 15205 - 15211. (IF = 4.86)
- 69) "Abiotic Chemical Fuels for the Operation of Molecular Machines"
C. Biagini, S. Di Stefano*, *Angew. Chem. Int. Ed.*, **2020**, 59, 8344 -8354. (IF = 15.34)
- 70) "Supramolecular Catalysts Featuring Crown Ethers as Recognition Units"
S. Di Stefano*, G. Capocasa, L. Mandolini*, *Eur. J. Org. Chem.*, **2020**, 3340-3350. (IF = 3.02) (**Very Important Paper, VIP**)
- 71) "Controlling the Liberation Rate of the In Situ Release of a Chemical Fuel for the Operationally Autonomous Motions of Molecular Machines"
C. Biagini, G. Capocasa, D. Del Giudice, V. Cataldi, L. Mandolini, S. Di Stefano*, *Org. Biomol. Chem.*, **2020**, 18, 3867-3873. (IF = 3.88) (**Hot Article Collection**)
- 72) "Predictable Selectivity in Remote C-H Oxidation of Steroids: Analysis of Substrate Binding Mode"
G. Olivo*, G. Capocasa, B. Ticconi, O. Lanzalunga, S. Di Stefano*, M. Costas*, *Angew. Chem. Int. Ed.*, **2020**, 59, 12703-12708. (IF = 15.34) (**Very Important Paper, VIP**)
- 73) "Easy Synthesis of a Self-Assembled Imine-based Iron(II) Complex Endowed with Crown-ether Receptors"
G. Capocasa, M. Di Berto Mancini, F. Fratelloreto, O. Lanzalunga, G. Olivo, S. Di Stefano*, *Eur. J. Org. Chem.*, **2020**, 3390-3397. (IF = 3.02)
- 74) "Direct Mechanistic Evidence for a Non-heme Complex Reaction Through a Multivariate XAS Analysis"
F. Tavani, A. Martini, G. Capocasa, S. Di Stefano, O. Lanzalunga, P. D'Angelo, *Inorg. Chem.*, **2020**, 59, 14, 9979-9989. (IF = 5.17)

- 75) “Time Programmable Locking/Unlocking of the Calix[4]arene Scaffold by Means of Chemical Fuels”
D. Del Giudice, E. Spatola, R. Cacciapaglia, A. Casnati, L. Baldini*, G. Ercolani*, S. Di Stefano*, *Chem. Eur. J.*, **2020**, *26*, 14954 – 14962. (IF = 5.24)
- 76) “Insight into the Chemoselective Aromatic vs Side-chain Hydroxylation of Alkylaromatics with H₂O₂ Catalyzed by a Non-Heme Imine Based Iron Complex”
B. Ticconi, G. Capocasa, A. Cerrato, S. Di Stefano, A. Lapi, B. Marincioni, G. Olivo, *Cat. Sci. & Technol.*, **2021**, *11*, 171-178. (IF = 6.12)
- 77) “Direct Structural and Mechanistic Insights into Fast Biomolecular Chemical Reactions in Solutions Through a Coupled XAS/UV Multivariate Statistical Analysis”
F. Tavani, G. Capocasa, A. Martini, F. Sessa, S. Di Stefano, O. Lanzalunga, P. D'Angelo, *Dalton Trans.*, **2021**, *50*, 131–142. (IF = 4.39)
- 78) “Activation of C-H Bonds by a Nonheme iron(IV)-oxo Complex: Mechanistic Evidence Through a Coupled EDXAS/UV-Vis Multivariate Analysis”
F. Tavani, G. Capocasa, A. Martini, F. Sessa, S. Di Stefano, O. Lanzalunga, P. D'Angelo, *Phys. Chem. Chem. Phys.*, **2021**, *23*, 1188-1196. (IF = 3.68)
- 79) “Increasing the Steric Hindrance Around the Catalytic Core of a Self-Assembled Imine-Based Non-Heme Iron Catalyst for C-H Oxidation”
F. Fratello, G. Capocasa, G. Olivo, K. Abdel Hady, C. Sappino, M. Di Berto Mancini, S. Levi Mortera, O. Lanzalunga, S. Di Stefano*, *RSC Advances*, **2021**, *11*, 537–542. (IF = 3.36)
- 80) “Insights into the Structure of Reaction Intermediates Through Coupled X-ray Absorption/UV-Vis Spectroscopy”
F. Tavani, A. Martini, F. Sessa, G. Capocasa, G. Olivo, O. Lanzalunga, S. Di Stefano, P. D'Angelo, *Synchrotron Radiation Science and Applications In: Di Cicco A., Giuli G., Trapananti A. (eds) Synchrotron Radiation Science and Applications. Springer Proceedings in Physics, vol 220 (p 141-154).* **2021**. Springer, Cham.
- 81) “Time-programmable pH: Decarboxylation of Nitroacetic Acid Allows the Time-controlled Rising of pH to a Definite Value”
D. Del Giudice, E. Spatola, M. Valentini, C. Bombelli, G. Ercolani*, S. Di Stefano*, *Chem. Sci.*, **2021**, *12*, 7460–7466. (IF = 9.83)
- 82) “New Horizons for Catalysis Disclosed by Supramolecular Chemistry”
G. Olivo*, G. Capocasa, D. Del Giudice, O. Lanzalunga, S Di Stefano*, *Chem. Soc. Rev.*, **2021**, *50*, 7681–7724. (IF = 54.56)
- 83) “Change of Selectivity in C-H Functionalization Promoted by Nonheme Iron(IV)-oxo Complexes by Effect of N-hydroxyphthalimide HAT Mediator”
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