

Francesco Recupero

List of Publications by Year in descending order

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52
papers

2,837
citations

186265
28
h-index

214800
47
g-index

65
all docs

65
docs citations

65
times ranked

2323
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 1 | Free Radical Functionalization of Organic Compounds Catalyzed by <i>N</i> -Hydroxyphthalimide. <i>Chemical Reviews</i> , 2007, 107, 3800-3842. | 47.7 | 592 |
| 2 | Hydroxylamines as Oxidation Catalysts: Thermochemical and Kinetic Studies. <i>Journal of Organic Chemistry</i> , 2003, 68, 1747-1754. | 3.2 | 238 |
| 3 | Efficient Mn–Cu and Mn–Co–TEMPO-catalysed oxidation of alcohols into aldehydes and ketones by oxygen under mild conditions. <i>Tetrahedron Letters</i> , 2001, 42, 6651-6653. | 1.4 | 171 |
| 4 | Perfluorocarbon–hydrocarbon self-assembly. <i>Journal of Fluorine Chemistry</i> , 2002, 114, 27-33. | 1.7 | 143 |
| 5 | Mechanisms of the Aerobic Oxidation of Alcohols to Aldehydes and Ketones, Catalysed under Mild Conditions by Persistent and Non-Persistent Nitroxyl Radicals and Transition Metal Salts: Polar, Enthalpic, and Captodative Effects. <i>European Journal of Organic Chemistry</i> , 2004, 2004, 109-119. | 2.4 | 138 |
| 6 | Aerobic Oxidation of <i>N</i> -Alkylamides Catalyzed by <i>N</i> -Hydroxyphthalimide under Mild Conditions. Polar and Enthalpic Effects. <i>Journal of Organic Chemistry</i> , 2002, 67, 2671-2676. | 3.2 | 100 |
| 7 | A new, highly selective synthesis of aromatic aldehydes by aerobic free-radical oxidation of benzylic alcohols, catalysed by <i>n</i> -hydroxyphthalimide under mild conditions. Polar and enthalpic effects. <i>Chemical Communications</i> , 2002, , 688-689. | 4.1 | 99 |
| 8 | Transition metal salts catalysis in the aerobic oxidation of organic compounds Thermochemical and kinetic aspects and new synthetic developments in the presence of <i>N</i> -hydroxy-derivative catalysts. <i>Journal of Molecular Catalysis A</i> , 2003, 204-205, 63-90. | 4.8 | 93 |
| 9 | Synthesis and Characterization of Some Aza[5]helicenes. <i>European Journal of Organic Chemistry</i> , 2005, 2005, 1247-1257. | 2.4 | 79 |
| 10 | Mechanisms of the aerobic oxidations catalyzed by <i>N</i> -hydroxyderivatives. <i>Journal of Molecular Catalysis A</i> , 2006, 251, 129-149. | 4.8 | 71 |
| 11 | Sunlight induced functionalisation of some heterocyclic bases in the presence of polycrystalline TiO ₂ . <i>Chemical Communications</i> , 2003, , 2350. | 4.1 | 70 |
| 12 | Noncovalent paramagnetic complexes: detection of halogen bonding in solution by ESR spectroscopy. <i>Tetrahedron Letters</i> , 2006, 47, 3265-3269. | 1.4 | 63 |
| 13 | Solvent and Temperature Effects in the Free Radical Aerobic Oxidation of Alkyl and Acyl Aromatics Catalysed by Transition Metal Salts and <i>N</i> -Hydroxyphthalimide: New Processes for the Synthesis of <i>o</i> -Hydroxybenzoic Acid, Diphenols, and Dienes for Liquid Crystals and Cross-Linked Polymers. <i>Organic Process Research and Development</i> , 2004, 8, 163-168. | 2.7 | 61 |
| 14 | Hydroperoxidation of Tertiary Alkylaromatics Catalyzed By <i>N</i> -Hydroxyphthalimide and Aldehydes under Mild Conditions. <i>Advanced Synthesis and Catalysis</i> , 2011, 353, 147-154. | 4.3 | 55 |
| 15 | Sunlight-induced reactions of some heterocyclic bases with ethers in the presence of TiO ₂ . <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2005, 171, 237-242. | 3.9 | 48 |
| 16 | Molecule-induced homolysis of <i>N</i> -hydroxyphthalimide (NHPI) by peracids and dioxirane. A new, simple, selective aerobic radical epoxidation of alkenes. <i>Tetrahedron Letters</i> , 2006, 47, 1421-1424. | 1.4 | 47 |
| 17 | Binding Energies and ¹⁹ F Nuclear Magnetic Deshielding in Paramagnetic Halogen-Bonded Complexes of TEMPO with Haloperfluorocarbons. <i>Journal of Physical Chemistry A</i> , 2008, 112, 9911-9918. | 2.5 | 46 |
| 18 | A novel, selective free-radical carbamoylation of heteroaromatic bases by Ce(IV) oxidation of formamide, catalysed by <i>N</i> -hydroxyphthalimide. <i>Chemical Communications</i> , 2002, , 2496-2497. | 4.1 | 45 |

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|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 19 | Selective functionalisation of hydrocarbons by nitric acid and aerobic oxidation catalysed by N-hydroxyphthalimide and iodine under mild conditions. <i>Tetrahedron Letters</i> , 2003, 44, 6919-6922. | 1.4 | 42 |
| 20 | Approaches to the Azahelicene System: Synthesis and Spectroscopic Characterization of Some Diazapentahelicenes. <i>Helvetica Chimica Acta</i> , 2002, 85, 1-8. | 1.6 | 41 |
| 21 | A new selective free radical synthesis of aromatic aldehydes by aerobic oxidation of tertiary benzylamines catalysed by N-hydroxyimides and Co(II) under mild conditions. Polar and enthalpic effects. <i>Tetrahedron Letters</i> , 2002, 43, 3605-3607. | 1.4 | 41 |
| 22 | Free-Radical Mechanisms in the Oxidation and Halogenation of Alkanes, Alkenes and Alkylbenzenes by t-BuOOH under Gif-Barton Catalysis. <i>Synlett</i> , 1996, 1996, 119-125. | 1.8 | 36 |
| 23 | A Convenient Nitroxyl Radical Catalyst for the Selective Oxidation of Primary and Secondary Alcohols to Aldehydes and Ketones by O ₂ and H ₂ O ₂ under Mild Conditions. <i>Organic Process Research and Development</i> , 2003, 7, 794-798. | 2.7 | 36 |
| 24 | Polar effects in free radical reactions. A novel homolytic acylation of heteroaromatic bases by aerobic oxidation of aldehydes, catalysed by N-hydroxyphthalimide and Co salts. <i>Journal of Heterocyclic Chemistry</i> , 2003, 40, 325-328. | 2.6 | 35 |
| 25 | TiO ₂ in Organic Photosynthesis: Sunlight Induced Functionalization of Heterocyclic Bases. <i>Current Organic Chemistry</i> , 2010, 14, 1153-1169. | 1.6 | 34 |
| 26 | Redox catalysis in free-radical reactions: New, simple, convenient intramolecular homolytic aromatic substitutions. <i>Tetrahedron Letters</i> , 1995, 36, 4307-4310. | 1.4 | 32 |
| 27 | New syntheses of mixed peroxides under Gif-Barton oxidation of alkylbenzenes, conjugated alkenes and alkanes; a free-radical mechanism. <i>Journal of the Chemical Society Chemical Communications</i> , 1994, , 1823-1824. | 2.0 | 31 |
| 28 | Selective catalytic aerobic oxidation of substituted ethylbenzenes under mild conditions. <i>Journal of Molecular Catalysis A</i> , 2012, 355, 155-160. | 4.8 | 31 |
| 29 | Enhanced nucleophilic character of the 1-adamantyl radical in chlorine atom abstraction and in addition to electron-poor alkenes and to protonated heteroaromatic bases. Absolute rate constants and relationship with the Gif reaction. <i>Journal of the Chemical Society Perkin Transactions II</i> , 1997, , 2399-2406. | 0.9 | 30 |
| 30 | New Selective Metal-Free Oxidations of Primary Alcohols by HNO ₃ or HNO ₃ and O ₂ , Catalyzed by Br ₂ . <i>Synlett</i> , 2004, 2004, 2203-2205. | 1.8 | 26 |
| 31 | A New, Convenient, Highly Selective Free-Radical Hydroxymethylation of Heteroaromatic Bases by Persulfate Oxidation of Ethylene Glycol and Glycerol, Catalysed by AgNO ₃ . <i>Synlett</i> , 2004, 2004, 0874-0876. | 1.8 | 26 |
| 32 | Sunlight-induced functionalisation reactions of heteroaromatic bases with aldehydes in the presence of TiO ₂ : A hypothesis on the mechanism. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2007, 189, 322-328. | 3.9 | 26 |
| 33 | Enthalpic and polar effects in the reactions of perfluoroalkyl radicals. <i>Journal of Fluorine Chemistry</i> , 2004, 125, 205-211. | 1.7 | 25 |
| 34 | Diverging Effects of Steric Congestion on the Reaction of Tributylstannyl Radicals with Areneselenols and Aryl Bromides and Their Mechanistic Implications. <i>Journal of Organic Chemistry</i> , 1999, 64, 2877-2882. | 3.2 | 24 |
| 35 | New free-radical halogenations of alkanes, catalysed by N-hydroxyphthalimide. Polar and enthalpic effects on the chemo- and regioselectivity. <i>Tetrahedron Letters</i> , 2004, 45, 1607-1609. | 1.4 | 24 |
| 36 | New free-radical syntheses under Gif-Barton oxidation conditions. <i>Tetrahedron Letters</i> , 1994, 35, 3759-3762. | 1.4 | 21 |

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|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 37 | Highly Selective and Efficient Conversion of Alkyl Aryl and Alkyl Cyclopropyl Ketones to Aromatic and Cyclopropane Carboxylic Acids by Aerobic Catalytic Oxidation: A Free-radical Redox Chain Mechanism.. Synlett, 2002, 2002, 0610-0612. | 1.8 | 21 |
| 38 | A green approach to the amidation of heterocyclic bases: the use of sunlight and air. Research on Chemical Intermediates, 2007, 33, 311-317. | 2.7 | 17 |
| 39 | A New, Highly Selective, Free-Radical Aerobic Oxidation of Silanes to Silanols Catalysed by N-Hydroxyphthalimide under Mild Conditions.. Synlett, 2002, 2002, 1173-1175. | 1.8 | 16 |
| 40 | Polar Effects in Free-Radical Reactions. The Paradox of Reduction of Alkyl Iodides and Reductive Alkylation of Alkenes by Strong Oxidants (t-BuOOH, Pb(OAc) ₄). Journal of the American Chemical Society, 1999, 121, 7760-7765. | 13.7 | 13 |
| 41 | New, Simple and Selective Synthesis of Perfluoroalkylquinones by Perfluoroalkyl Radicals - Enthalpic and Polar Effects. European Journal of Organic Chemistry, 2005, 2005, 4434-4440. | 2.4 | 12 |
| 42 | New free-radical chain processes involving substitution of vinyl and aryl chlorides by alkanes, alkenes, esters and ethers. Tetrahedron Letters, 1996, 37, 6897-6900. | 1.4 | 11 |
| 43 | Hydroperoxides as pseudohalides: oxidation, oxidative alkylation, acylation and arylation of acrylonitrile. Journal of the Chemical Society Chemical Communications, 1995, , 1399. | 2.0 | 10 |
| 44 | Reactivity of benzyl radicals: The trapping of primary, secondary and tertiary benzyl radicals with heterocyclic bases. Journal of Photochemistry and Photobiology A: Chemistry, 2010, 214, 112-114. | 3.9 | 4 |
| 45 | Alternating addition of carbon-centered radicals to unsaturated systems. Novel homolytic aromatic substitutions. Tetrahedron Letters, 1996, 37, 7425-7428. | 1.4 | 3 |
| 46 | Steric acceleration in the reaction of aryl bromides with tributylstannyl radicals. Chemical Communications, 1998, , 189-190. | 4.1 | 2 |
| 47 | A Novel, Selective Free-Radical Carbamoylation of Heteroaromatic Bases by Ce(IV) Oxidation of Formamide, Catalyzed by N-Hydroxyphthalimide.. ChemInform, 2003, 34, no. | 0.0 | 0 |
| 48 | Polar Effects in Free-Radical Reactions. A Novel Homolytic Acylation of Heteroaromatic Bases by Aerobic Oxidation of Aldehydes, Catalyzed by N-Hydroxyphthalimide and Co Salts.. ChemInform, 2003, 34, no. | 0.0 | 0 |
| 49 | Selective Functionalization of Hydrocarbons by Nitric Acid and Aerobic Oxidation Catalyzed by N-Hydroxyphthalimide and Iodine under Mild Conditions.. ChemInform, 2003, 34, no. | 0.0 | 0 |
| 50 | A Convenient Nitroxyl Radical Catalyst for the Selective Oxidation of Primary and Secondary Alcohols to Aldehydes and Ketones by O ₂ and H ₂ O ₂ under Mild Conditions.. ChemInform, 2004, 35, no. | 0.0 | 0 |
| 51 | Enthalpic and Polar Effects in the Reactions of Perfluoroalkyl Radicals. New Selective Synthetic Developments with Alkenes and Heteroaromatic Bases.. ChemInform, 2004, 35, no. | 0.0 | 0 |
| 52 | New Selective Metal-Free Oxidations of Primary Alcohols by HNO ₃ or HNO ₃ and O ₂ , Catalyzed by Br ₂ .. ChemInform, 2005, 36, no. | 0.0 | 0 |