Carlo Punta

List of Publications by Year
in descending order

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113 papers	4,427 citations	101384 36 h-index	123241 61 g-index
145 all docs	145 docs citations	145 times ranked	4235 citing authors

#	Article	IF	Citations
1	Zinc- and Copper-Loaded Nanosponges from Cellulose Nanofibers Hydrogels: New Heterogeneous Catalysts for the Synthesis of Aromatic Acetals. Gels, 2022, 8, 54.	2.1	16
2	Cellulose for the Production of Air-Filtering Systems: A Critical Review. Materials, 2022, 15, 976.	1.3	23
3	Synthesis and Application of Cellulose-Polyethyleneimine Composites and Nanocomposites: A Concise Review. Materials, 2021, 14, 473.	1.3	45
4	Influence of cellulose nanofibrils on the rheology, microstructure and strength of alkali activated ground granulated blast-furnace slag: a comparison with ordinary Portland cement. Materials and Structures/Materiaux Et Constructions, 2021, 54, 1.	1.3	16
5	Recent advances in photocatalytic Minisci reaction: an eco-friendly functionalization of biologically relevant heteroarenes. , 2021, , 189-206.		3
6	Effect of UV Irradiation and TiO2-Photocatalysis on Airborne Bacteria and Viruses: An Overview. Materials, 2021, 14, 1075.	1.3	81
7	2D Correlation Spectroscopy (2DCoS) Analysis of Temperature-Dependent FTIR-ATR Spectra in Branched Polyethyleneimine/TEMPO-Oxidized Cellulose Nano-Fiber Xerogels. Polymers, 2021, 13, 528.	2.0	23
8	The Era of Nanomaterials: A Safe Solution or a Risk for Marine Environmental Pollution?. Biomolecules, 2021, 11, 441.	1.8	23
9	Comparative Life Cycle Assessment of Cellulose Nanofibres Production Routes from Virgin and Recycled Raw Materials. Molecules, 2021, 26, 2558.	1.7	25
10	Cellular Responses Induced by Zinc in Zebra Mussel Haemocytes. Loss of DNA Integrity as a Cellular Mechanism to Evaluate the Suitability of Nanocellulose-Based Materials in Nanoremediation. Nanomaterials, 2021, 11, 2219.	1.9	5
11	Ecosafe Nano-based solutions for Pollution Monitoring and Control in the Marine Environment. , 2021, , .		0
12	Solventâ€Free Aerobic Oxidation of Ethylbenzene Promoted by NHPI/Co(II) Catalytic System: The Key Role of Ionic Liquids. ChemCatChem, 2020, 12, 259-266.	1.8	30
13	Life cycle assessment of emerging environmental technologies in the early stage of development: A case study on nanostructured materials. Journal of Industrial Ecology, 2020, 24, 101-115.	2.8	42
14	Eco-design of nanostructured cellulose sponges for sea-water decontamination from heavy metal ions. Journal of Cleaner Production, 2020, 246, 119009.	4.6	46
15	TEMPO-Nanocellulose/Ca2+ Hydrogels: Ibuprofen Drug Diffusion and In Vitro Cytocompatibility. Materials, 2020, 13, 183.	1.3	37
16	Ecosafe nanomaterials for environmental remediation. , 2020, , 383-405.		2
17	Effect-Based Approach to Assess Nanostructured Cellulose Sponge Removal Efficacy of Zinc Ions from Seawater to Prevent Ecological Risks. Nanomaterials, 2020, 10, 1283.	1.9	28
18	Silver Nanoparticles for Water Pollution Monitoring and Treatments: Ecosafety Challenge and Cellulose-Based Hybrids Solution. Polymers, 2020, 12, 1635.	2.0	77

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19	Suitability of a Cellulose-Based Nanomaterial for the Remediation of Heavy Metal Contaminated Freshwaters: A Case-Study Showing the Recovery of Cadmium Induced DNA Integrity Loss, Cell Proliferation Increase, Nuclear Morphology and Chromosomal Alterations on Dreissena polymorpha. Nanomaterials, 2020, 10, 1837.	1.9	20
20	Coâ€Polymeric Nanosponges from Cellulose Biomass as Heterogeneous Catalysts for amineâ€catalyzed Organic Reactions. ChemCatChem, 2020, 12, 6214-6222.	1.8	11
21	Nanostructured Cellulose-Based Sorbent Materials for Water Decontamination from Organic Dyes. Nanomaterials, 2020, 10, 1570.	1.9	28
22	FTIR-ATR analysis of the H-bond network of water in branched polyethyleneimine/TEMPO-oxidized cellulose nano-fiber xerogels. Cellulose, 2020, 27, 8605-8618.	2.4	21
23	Nakedâ€Eye Heterogeneous Sensing of Fluoride Ions by Coâ€Polymeric Nanosponge Systems Comprising Aromaticâ€Imideâ€Functionalized Nanocellulose and Branched Polyethyleneimine. ChemPlusChem, 2019, 84, 1512-1518.	1.3	19
24	Cross-linked cellulose nano-sponges: a small angle neutron scattering (SANS) study. Cellulose, 2019, 26, 9005-9019.	2.4	26
25	Microwave-assisted synthesis of TEMPO-labeled hydrogels traceable with MRI. Soft Matter, 2018, 14, 558-565.	1.2	15
26	Structural and molecular response in cyclodextrin-based pH-sensitive hydrogels by the joint use of Brillouin, UV Raman and Small Angle Neutron Scattering techniques. Journal of Molecular Liquids, 2018, 271, 738-746.	2.3	6
27	Environmentally Sustainable and Ecosafe Polysaccharide-Based Materials for Water Nano-Treatment: An Eco-Design Study. Materials, 2018, 11, 1228.	1.3	43
28	TEMPO-mediated oxidation of polysaccharides: An ongoing story. Carbohydrate Polymers, 2017, 165, 71-85.	5.1	122
29	SANS investigation of water adsorption in tunable cyclodextrin-based polymeric hydrogels. Physical Chemistry Chemical Physics, 2017, 19, 6022-6029.	1.3	15
30	Mechanical and Drug Release Properties of Sponges from Crossâ€linked Cellulose Nanofibers. ChemPlusChem, 2017, 82, 848-858.	1.3	45
31	Lipophilic Nâ€Hydroxyphthalimide Catalysts for the Aerobic Oxidation of Cumene: Towards Solventâ€Free Conditions and Back. Chemistry - A European Journal, 2017, 23, 10616-10625.	1.7	30
32	Correlation between collective and molecular dynamics in pH-responsive cyclodextrin-based hydrogels. Physical Chemistry Chemical Physics, 2017, 19, 22555-22563.	1.3	13
33	Tuning structural parameters for the optimization of drug delivery performance of cyclodextrin-based nanosponges. Expert Opinion on Drug Delivery, 2017, 14, 331-340.	2.4	46
34	Dynamics and interactions of ibuprofen in cyclodextrin nanosponges by solid-state NMR spectroscopy. Beilstein Journal of Organic Chemistry, 2017, 13, 182-194.	1.3	19
35	Vibrational signatures of the water behaviour upon confinement in nanoporous hydrogels. Physical Chemistry Chemical Physics, 2016, 18, 12252-12259.	1.3	10
36	Flexible hybrid coatings with efficient antioxidation properties. Food Packaging and Shelf Life, 2016, 10, 106-114.	3.3	7

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37	Guestâ€“matrix interactions affect the solvation of cyclodextrin-based polymeric hydrogels: a UV Raman scattering study. Soft Matter, 2016, 12, 8861-8868.	1.2	11
38	Transport Properties of Ibuprofen Encapsulated in Cyclodextrin Nanosponge Hydrogels: A Proton HR-MAS NMR Spectroscopy Study. Journal of Visualized Experiments, 2016, , .	0.2	7
39	N-Hydroxyphthalimide catalysts as bioactive pro-oxidants. RSC Advances, 2016, 6, 21749-21755.	1.7	3
40	An aerogel obtained from chemo-enzymatically oxidized fenugreek galactomannans as a versatile delivery system. Carbohydrate Polymers, 2016, 144, 353-361.	5.1	24
41	Surface-Functionalization of Nanostructured Cellulose Aerogels by Solid State Eumelanin Coating. Biomacromolecules, 2016, 17, 564-571.	2.6	45
42	TEMPOâ€Oxidized Cellulose Crossâ€Linked with Branched Polyethyleneimine: Nanostructured Adsorbent Sponges for Water Remediation. ChemPlusChem, 2015, 80, 1408-1415.	1.3	80
43	Functionalization of Cyclodextrins with N-Hydroxyphthalimide Moiety: A New Class of Supramolecular Pro-Oxidant Organocatalysts. Molecules, 2015, 20, 15881-15892.	1.7	13
44	Multicomponent versus domino reactions: One-pot free-radical synthesis of Î²-amino-ethers and Î²-amino-alcohols. Beilstein Journal of Organic Chemistry, 2015, 11, 66-73.	1.3	9
45	Photocatalytic Minisci Reaction. , 2015, , 339-352.		5
46	Water and polymer dynamics in a model polysaccharide hydrogel: the role of hydrophobic/hydrophilic balance. Physical Chemistry Chemical Physics, 2015, 17, 963-971.	1.3	27
47	Toward an understanding of the thermosensitive behaviour of pH-responsive hydrogels based on cyclodextrins. Soft Matter, 2015, 11, 5862-5871.	1.2	18
48	Combining Raman and infrared spectroscopy as a powerful tool for the structural elucidation of cyclodextrin-based polymeric hydrogels. Physical Chemistry Chemical Physics, 2015, 17, 10274-10282.	1.3	16
49	Dip in colorimetric fluoride sensing by a chemically engineered polymeric cellulose/bPEI conjugate in the solid state. RSC Advances, 2015, 5, 83197-83205.	1.7	21
50	Probing the molecular connectivity of water confined in polymer hydrogels. Journal of Chemical Physics, 2015, 142, 014901.	1.2	13
51	Effective magnetic moment in cyclodextrinâ€“polynitroxides: potential supramolecular vectors for magnetic resonance imaging. RSC Advances, 2015, 5, 76133-76140.	1.7	19
52	Anomalous diffusion of Ibuprofen in cyclodextrin nanosponge hydrogels: an HRMAS NMR study. Beilstein Journal of Organic Chemistry, 2014, 10, 2715-2723.	1.3	59
53	Is it possible to implement Nâ€hydroxyphthalimide homogeneous catalysis for industrial applications? A case study of cumene aerobic oxidation. Journal of Chemical Technology and Biotechnology, 2014, 89, 1370-1378.	1.6	50
54	Gel-sol evolution of cyclodextrin-based nanosponges: role of the macrocycle size. Journal of Inclusion Phenomena and Macrocyclic Chemistry, 2014, 80, 77-83.	0.9	15

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55	Hydrogen-bond dynamics of water confined in cyclodextrin nanosponges hydrogel. Journal of Inclusion Phenomena and Macrocyclic Chemistry, 2014, 80, 69-75.	0.9	23
56	Direct evidence of gelâ€“sol transition in cyclodextrin-based hydrogels as revealed by FTIR-ATR spectroscopy. Soft Matter, 2014, 10, 2320-2326.	1.2	29
57	Aerobic Oxidation of Alkylaromatics using a Lipophilic Nâ€Hydroxyphthalimide: Overcoming the Industrial Limit of Catalyst Solubility. ChemSusChem, 2014, 7, 2695-2703.	3.6	39
58	Glass-like dynamics of new cross-linked polymeric systems: Behavior of the Boson peak. Journal of Non-Crystalline Solids, 2014, 401, 73-77.	1.5	17
59	Synthesis and characterization of a hyper-branched water-soluble Î²-cyclodextrin polymer. Beilstein Journal of Organic Chemistry, 2014, 10, 2586-2593.	1.3	28
60	Sunlight Induced Oxidative Photoactivation of Nâ€Hydroxyphthalimide Mediated by Naphthalene Imides. Advanced Synthesis and Catalysis, 2013, 355, 3210-3220.	2.1	34
61	Understanding the topography effects on competitive adsorption on a nanosized anatase crystal: a molecular dynamics study. Chemical Communications, 2013, 49, 7581.	2.2	10
62	Ceramic aerogels from TEMPO-oxidized cellulose nanofibre templates: Synthesis, characterization, and photocatalytic properties. Journal of Photochemistry and Photobiology A: Chemistry, 2013, 261, 53-60.	2.0	61
63	Connection between the vibrational dynamics and the crossâ€linking properties in cyclodextrinsâ€based polymers. Journal of Raman Spectroscopy, 2013, 44, 1457-1462.	1.2	36
64	Metal-free aerobic oxidations mediated by N-hydroxyphthalimide. A concise review. Beilstein Journal of Organic Chemistry, 2013, 9, 1296-1310.	1.3	138
65	Selective Monoetherification of 1,4-Hydroquinone Promoted by NaNO2. Current Organic Chemistry, 2013, 17, 1108-1113.	0.9	12
66	O₂-Mediated Photocatalytic Functionalization of Organic Compounds: Recent Advances Towards Greener Synthetic Routes. Current Organic Chemistry, 2013, 17, 2406-2419.	0.9	11
67	Free-radical hydroxymethylation of ketimines generated in situ: a one-pot multicomponent synthesis of Î²,Î²-disubstituted-Î²-aminoalcohols. Tetrahedron, 2012, 68, 10151-10156.	1.0	14
68	New Advances in Titanium-Mediated Free Radical Reactions. Molecules, 2012, 17, 14700-14732.	1.7	49
69	Organocatalyzed Epoxidation of Alkenes in Continuous Flow using a Multiâ€Jet Oscillating Disk Reactor. ChemSusChem, 2012, 5, 261-265.	3.6	31
70	Selective catalytic aerobic oxidation of substituted ethylbenzenes under mild conditions. Journal of Molecular Catalysis A, 2012, 355, 155-160.	4.8	31
71	New domino radical synthesis of aminoalcohols promoted by TiCl4â€“Zn/t-BuOOH system: selective hydroxyalkylation of amines in alcohol or in cyclic ether cosolvents. Organic and Biomolecular Chemistry, 2011, 9, 3759.	1.5	12
72	Titanium Oxide Antibacterial Surfaces in Biomedical Devices. International Journal of Artificial Organs, 2011, 34, 929-946.	0.7	219

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73	Hydroperoxidation of Tertiary Alkylaromatics Catalyzed By Nâ€Hydroxyphthalimide and Aldehydes under Mild Conditions. Advanced Synthesis and Catalysis, 2011, 353, 147-154.	2.1	55
74	TiO2 in Organic Photosynthesis: Sunlight Induced Functionalization of Heterocyclic Bases. Current Organic Chemistry, 2010, 14, 1153-1169.	0.9	34
75	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.	2.0	4
76	Efficient radical domino approach to Î²-aminoalcohols from arylamines and alcohols triggered by Ti(III)/t-BuOOH. Tetrahedron, 2010, 66, 2044-2052.	1.0	14
77	Free-Radical Addition to Ketimines Generated In Situ. New One-Pot Synthesis of Quaternary Î±-Aminoamides Promoted by a H₂O₂/TiCl₄â^'Zn/HCONH₂ System. Organic Letters, 2010, 12, 3898-3901.	2.4	27
78	An Optimized Process to 10-Bromo-1-decanol. Organic Process Research and Development, 2010, 14, 1215-1220.	1.3	2
79	Recent Developments in Nucleophilic Radical Addition to Imines: the Key Role of Transition Metals and the New Porta Radical-Type Version of the Mannich and Strecker Reactions. Mini-Reviews in Organic Chemistry, 2009, 6, 184-195.	0.6	34
80	A New One-Pot, Four-Component Synthesis of 1,2-Amino Alcohols: TiCl₃/t-BuOOH-Mediated Radical Hydroxymethylation of Imines. Organic Letters, 2008, 10, 5063-5066.	2.4	36
81	Key Role of Ti(IV) in the Selective Radicalâ^'Radical Cross-Coupling Mediated by the Ingold-Fischer Effect. Journal of the American Chemical Society, 2008, 130, 18018-18024.	6.6	34
82	Selective Aerobic Radical Epoxidation of Î±-Olefins Catalyzed by N-Hydroxyphthalimide. , 2008, , 217-229.		5
83	Reductive Coupling of Aromatic Aldehydes Promoted by an Aqueous TiCl3/tBuOOH System in Alcoholic Cosolvents. European Journal of Organic Chemistry, 2007, 2007, 4050-4055.	1.2	10
84	Sunlight-induced functionalisation reactions of heteroaromatic bases with aldehydes in the presence of TiO2: A hypothesis on the mechanism. Journal of Photochemistry and Photobiology A: Chemistry, 2007, 189, 322-328.	2.0	26
85	Free Radical Functionalization of Organic Compounds Catalyzed by N-Hydroxyphthalimide. Chemical Reviews, 2007, 107, 3800-3842.	23.0	592
86	A green approach to the amidation of heterocyclic bases: the use of sunlight and air. Research on Chemical Intermediates, 2007, 33, 311-317.	1.3	17
87	Free-Radical Version of the Strecker Synthesis of Î±-Aminoamides Promoted by Aqueous H2O2/TiCl3/HCONH2System. Journal of the American Chemical Society, 2006, 128, 5358-5359.	6.6	42
88	New Developments in Peroxidation of Polyunsaturated Fatty Acids. Letters in Organic Chemistry, 2006, 3, 91-97.	0.2	4
89	Molecule-induced homolysis of N-hydroxyphthalimide (NHPI) by peracids and dioxirane. A new, simple, selective aerobic radical epoxidation of alkenes. Tetrahedron Letters, 2006, 47, 1421-1424.	0.7	47
90	Noncovalent paramagnetic complexes: detection of halogen bonding in solution by ESR spectroscopy. Tetrahedron Letters, 2006, 47, 3265-3269.	0.7	63

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91	Peroxyl Radical Clocks. Journal of Organic Chemistry, 2006, 71, 3527-3532.	1.7	69
92	Mechanisms of the aerobic oxidations catalyzed by N-hydroxyderivatives. Journal of Molecular Catalysis A, 2006, 251, 129-149.	4.8	71
93	Sunlight-induced reactions of some heterocyclic bases with ethers in the presence of TiO2. Journal of Photochemistry and Photobiology A: Chemistry, 2005, 171, 237-242.	2.0	48
94	Peroxidation of Polyunsaturated Fatty Acid Methyl Esters Catalyzed byN-Methyl Benzohydroxamic Acid:Â A New and Convenient Method for Selective Synthesis of Hydroperoxides and Alcohols. Chemical Research in Toxicology, 2005, 18, 349-356.	1.7	45
95	New, Simple and Selective Synthesis of Perfluoroalkylquinones by Perfluoroalkyl Radicals - Enthalpic and Polar Effects. European Journal of Organic Chemistry, 2005, 2005, 4434-4440.	1.2	12
96	New Selective Metal-Free Oxidations of Primary Alcohols by HNO3 or HNO3 and O2, Catalyzed by Br2.. ChemInform, 2005, 36, no.	0.1	0
97	New Selective Metal-Free Oxidations of Primary Alcohols by HNO3or HNO3and O2, Catalyzed by Br2. Synlett, 2004, 2004, 2203-2205.	1.0	26
98	A New, Convenient, Highly Selective Free-Radical Hydroxymethylation of Heteroaromatic Bases by Persulfate Oxidation of Ethylene Glycol and Glycerol, Catalysed by AgNO3. Synlett, 2004, 2004, 0874-0876.	1.0	26
99	Solvent and Temperature Effects in the Free Radical Aerobic Oxidation of Alkyl and Acyl Aromatics Catalysed by Transition Metal Salts andN-Hydroxyphthalimide:Â New Processes for the Synthesis ofp-Hydroxybenzoic Acid, Diphenols, and Dienes for Liquid Crystals and Cross-Linked Polymers. Organic Process Research and Development, 2004, 8, 163-168.	1.3	61
100	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 Saltsâ" Polar, Enthalpic, and Captodative Effects. European Journal of Organic Chemistry, 2004, 2004, 109-119.	1.2	138
101	Sunlight Induced Functionalization of Some Heterocyclic Bases in the Presence of Polycrystalline TiO2.. ChemInform, 2004, 35, no.	0.1	0
102	Enthalpic and Polar Effects in the Reactions of Perfluoroalkyl Radicals. New Selective Synthetic Developments with Alkenes and Heteroaromatic Bases.. ChemInform, 2004, 35, no.	0.1	0
103	Enthalpic and polar effects in the reactions of perfluoroalkyl radicals. Journal of Fluorine Chemistry, 2004, 125, 205-211.	0.9	25
104	Sunlight induced functionalisation of some heterocyclic bases in the presence of polycrystalline TiO2. Chemical Communications, 2003, , 2350.	2.2	70
105	Polar effects in freeâ€radical reactions. A novel homolytic acylation of heteroaromatic bases by aerobic oxidation of aldehydes, catalysed by Nâ€hydroxyphthalimide and Co salts. Journal of Heterocyclic Chemistry, 2003, 40, 325-328.	1.4	35
106	A Novel, Selective Free-Radical Carbamoylation of Heteroaromatic Bases by Ce(IV) Oxidation of Formamide, Catalyzed by N-Hydroxyphthalimide.. ChemInform, 2003, 34, no.	0.1	0
107	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.	0.1	0
108	Selective Functionalization of Hydrocarbons by Nitric Acid and Aerobic Oxidation Catalyzed by N-Hydroxyphthalimide and Iodine under Mild Conditions.. ChemInform, 2003, 34, no.	0.1	0

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109	Selective functionalisation of hydrocarbons by nitric acid and aerobic oxidation catalysed by N-hydroxyphthalimide and iodine under mild conditions. Tetrahedron Letters, 2003, 44, 6919-6922.	0.7	42
110	A New, Highly Selective, Free-Radical Aerobic Oxidation of Silanes to Silanols Catalysed by N-Hydroxyphthalimide under Mild Conditions.. Synlett, 2002, 2002, 1173-1175.	1.0	16
111	A novel, selective free-radical carbamoylation of heteroaromatic bases by Ce(iv) oxidation of formamide, catalysed by N-hydroxyphthalimide. Chemical Communications, 2002, , 2496-2497.	2.2	45
112	Aerobic Oxidation ofN-Alkylamides Catalyzed byN-Hydroxyphthalimide under Mild Conditions. Polar and Enthalpic Effects. Journal of Organic Chemistry, 2002, 67, 2671-2676.	1.7	100
113	A new, highly selective synthesis of aromatic aldehydes by aerobic free-radical oxidation of benzylic alcohols, catalysed by n-hydroxyphthalimide under mild conditions. Polar and enthalpic effects. Chemical Communications, 2002, , 688-689.	2.2	99