# Angela Dibenedetto

List of Publications by Year
in descending order

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|---|---|---|---|
| 159 papers | 10,001 citations | 66234 42 h-index | 35952 97 g-index |
| 178 all docs | 178 docs citations | 178 times ranked | 10006 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Catalysis for the Valorization of Exhaust Carbon: from CO<sub>2</sub> to Chemicals, Materials, and Fuels. Technological Use of CO<sub>2</sub>. Chemical Reviews, 2014, 114, 1709-1742. | 23.0 | 2,428 |
| 2 | Utilisation of CO2 as a chemical feedstock: opportunities and challenges. Dalton Transactions, 2007, , 2975. | 1.6 | 1,260 |
| 3 | The changing paradigm in CO2 utilization. Journal of CO2 Utilization, 2013, 3-4, 65-73. | 3.3 | 366 |
| 4 | A study on the carboxylation of glycerol to glycerol carbonate with carbon dioxide: The role of the catalyst, solvent and reaction conditions. Journal of Molecular Catalysis A, 2006, 257, 149-153. | 4.8 | 287 |
| 5 | State of the art and perspectives in catalytic processes for CO2 conversion into chemicals and fuels: The distinctive contribution of chemical catalysis and biotechnology. Journal of Catalysis, 2016, 343, 2-45. | 3.1 | 276 |
| 6 | Utilization of macro-algae for enhanced CO2 fixation and biofuels production: Development of a computing software for an LCA study. Fuel Processing Technology, 2005, 86, 1679-1693. | 3.7 | 208 |
| 7 | Valorization of bio-glycerol: New catalytic materials for the synthesis of glycerol carbonate via glycerolysis of urea. Journal of Catalysis, 2009, 268, 106-114. | 3.1 | 204 |
| 8 | Production of biodiesel from macroalgae by supercritical CO2 extraction and thermochemical liquefaction. Environmental Chemistry Letters, 2005, 3, 136-139. | 8.3 | 187 |
| 9 | Use of carbon dioxide as feedstock for chemicals and fuels: homogeneous and heterogeneous catalysis. Journal of Chemical Technology and Biotechnology, 2014, 89, 334-353. | 1.6 | 181 |
| 10 | Atmospheric CO2 mitigation technologies: carbon capture utilization and storage. Current Opinion in Green and Sustainable Chemistry, 2020, 21, 34-43. | 3.2 | 170 |
| 11 | The contribution of the utilization option to reducing the CO2 atmospheric loading: research needed to overcome existing barriers for a full exploitation of the potential of the CO2 use. Catalysis Today, 2004, 98, 455-462. | 2.2 | 168 |
| 12 | Identification, abundance and seasonal variation of anthropogenic organic aerosols from a mega-city in China. Atmospheric Environment, 2007, 41, 407-416. | 1.9 | 134 |
| 13 | Converting wastes into added value products: from glycerol to glycerol carbonate, glycidol and epichlorohydrin using environmentally friendly synthetic routes. Tetrahedron, 2011, 67, 1308-1313. | 1.0 | 122 |
| 14 | Zinc sulfide functionalized with ruthenium nanoparticles for photocatalytic reduction of CO2. Applied Catalysis B: Environmental, 2015, 178, 170-176. | 10.8 | 120 |
| 15 | Nb(V) compounds as epoxides carboxylation catalysts: the role of the solvent. Journal of Molecular Catalysis A, 2003, 204-205, 245-252. | 4.8 | 115 |
| 16 | Influence of Al2O3 on the performance of CeO2 used as catalyst in the direct carboxylation of methanol to dimethylcarbonate and the elucidation of the reaction mechanism. Journal of Catalysis, 2010, 269, 44-52. | 3.1 | 113 |
| 17 | Carbon dioxide as building block for the synthesis of organic carbonates. Journal of Molecular Catalysis A, 2002, 182-183, 399-409. | 4.8 | 105 |
| 18 | Hybrid Technologies for an Enhanced Carbon Recycling Based on the Enzymatic Reduction of CO<sub>2</sub> to Methanol in Water: Chemical and Photochemical NADH Regeneration. ChemSusChem, 2012, 5, 373-378. | 3.6 | 99 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Cerium(IV)oxide modification by inclusion of a hetero-atom: A strategy for producing efficient and robust nano-catalysts for methanol carboxylation. Catalysis Today, 2008, 137, 125-131. | 2.2 | 93 |
| 20 | Mechanism of Formation of Organic Carbonates from Aliphatic Alcohols and Carbon Dioxide under Mild Conditions Promoted by Carbodiimides. DFT Calculation and Experimental Study. Journal of Organic Chemistry, 2005, 70, 6177-6186. | 1.7 | 90 |
| 21 | Reaction of silylalkylmono- and silylalkyldi-amines with carbon dioxide: evidence of formation of inter- and intra-molecular ammonium carbamates and their conversion into organic carbamates of industrial interest under carbon dioxide catalysis. Green Chemistry, 2002, 4, 439-443. | 4.6 | 86 |
| 22 | Direct synthesis of organic carbonates by oxidative carboxylation of olefins catalyzed by metal oxides: developing green chemistry based on carbon dioxide. Applied Organometallic Chemistry, 2000, 14, 799-802. | 1.7 | 81 |
| 23 | Synthesis and Characterization of Nb(OR)4[OC(O)OR] (R = Me, Et, Allyl) and Their Reaction with the Parent Alcohol To Afford Organic Carbonates. Inorganic Chemistry, 2003, 42, 3256-3261. | 1.9 | 73 |
| 24 | Direct carboxylation of alcohols to organic carbonates: Comparison of the Group 5 element alkoxides catalytic activity. Catalysis Today, 2006, 115, 88-94. | 2.2 | 71 |
| 25 | Selective Aerobic Oxidation of 5â€(Hydroxymethyl)furfural to 5â€Formylâ€2â€furancarboxylic Acid in Water. ChemSusChem, 2016, 9, 1096-1100. | 3.6 | 71 |
| 26 | Selective Aerobic Oxidation of 5â€Hydroxymethylfurfural to 2,5â€Diformylfuran or 2â€Formylâ€5â€furancarboxylic Acid in Water by using MgOâ‹…CeO<sub>2</sub> Mixed Oxides as Catalysts. ChemSusChem, 2018, 11, 1305-1315. | 3.6 | 71 |
| 27 | Reaction Mechanisms in Carbon Dioxide Conversion. , 2016, , . | | 70 |
| 28 | The first synthesis of a cyclic carbonate from a ketal in SC-CO2. Journal of Supercritical Fluids, 2003, 25, 177-182. | 1.6 | 69 |
| 29 | Developing Innovative Synthetic Technologies of Industrial Relevance Based on Carbon Dioxide as Raw Material. Energy & Fuels, 2001, 15, 269-273. | 2.5 | 67 |
| 30 | Biocatalytic and Bioelectrocatalytic Approaches for the Reduction of Carbon Dioxide using Enzymes. Energy Technology, 2017, 5, 812-821. | 1.8 | 64 |
| 31 | Enantioselective synthesis of organic carbonates promoted by Nb(IV) and Nb(V) catalysts. Applied Catalysis A: General, 2003, 255, 5-11. | 2.2 | 62 |
| 32 | Evidence for Spontaneous Release of Acrylates from a Transitionâ€Metal Complex Upon Coupling Ethene or Propene with a Carboxylic Moiety or CO<sub>2</sub>. Chemistry - A European Journal, 2007, 13, 9028-9034. | 1.7 | 61 |
| 33 | Tunable mixed oxides based on CeO<sub>2</sub>for the selective aerobic oxidation of 5-(hydroxymethyl)furfural to FDCA in water. Green Chemistry, 2018, 20, 3921-3926. | 4.6 | 58 |
| 34 | Thermal desorption of polychlorobiphenyls from contaminated soils and their hydrodechlorination using Pd- and Rh-supported catalysts. Chemosphere, 2008, 70, 1052-1058. | 4.2 | 57 |
| 35 | Palladium-catalyzed synthesis of symmetrical urea derivatives by oxidative carbonylation of primary amines in carbon dioxide medium. Journal of Catalysis, 2011, 282, 120-127. | 3.1 | 57 |
| 36 | Heterogeneous catalysts for the selective aerobic oxidation of 5-hydroxymethylfurfural to added value products in water. Inorganica Chimica Acta, 2018, 470, 11-21. | 1.2 | 57 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Synthesis, Characterization, and Use of Nb<sup>V</sup>/Ce<sup>IV</sup>â€Mixed Oxides in the Direct Carboxylation of Ethanol by using Pervaporation Membranes for Water Removal. Chemistry - A European Journal, 2012, 18, 10324-10334. | 1.7 | 54 |
| 38 | An integrated photocatalytic/enzymatic system for the reduction of CO<sub>2</sub> to methanol in bioglycerolâ€“water. Beilstein Journal of Organic Chemistry, 2014, 10, 2556-2565. | 1.3 | 53 |
| 39 | Photocatalytic Carboxylation of Organic Substrates with Carbon Dioxide at Zinc Sulfide with Deposited Ruthenium Nanoparticles. ChemPlusChem, 2014, 79, 708-715. | 1.3 | 53 |
| 40 | Reaction mechanism of the direct carboxylation of methanol to dimethylcarbonate: experimental and theoretical studies. Topics in Catalysis, 2006, 40, 71-81. | 1.3 | 50 |
| 41 | A General and Expedient Synthesis of 5â€•and 6â€Membered Cyclic Carbonates by Palladiumâ€Catalyzed Oxidative Carbonylation of 1,2â€•and 1,3â€Diols. ChemSusChem, 2011, 4, 1778-1786. | 3.6 | 49 |
| 42 | On the Existence of the Elusive Monomethyl Ester of Carbonic Acid [CH3OC(O)OH] at 300 K:1H- and13C NMR Measurements and DFT Calculations. European Journal of Inorganic Chemistry, 2006, 2006, 908-913. | 1.0 | 48 |
| 43 | Comparative life cycle assessment study on environmental impact of oil production from micro-algae and terrestrial oilseed crops. Bioresource Technology, 2017, 239, 266-275. | 4.8 | 45 |
| 44 | Conversion of fructose into 5-HMF: a study on the behaviour of heterogeneous cerium-based catalysts and their stability in aqueous media under mild conditions. RSC Advances, 2015, 5, 26941-26948. | 1.7 | 42 |
| 45 | Development of environmentally friendly syntheses: use of enzymes and biomimetic systems for the direct carboxylation of organic substrates. Reviews in Molecular Biotechnology, 2002, 90, 113-128. | 2.9 | 41 |
| 46 | The use of solar energy can enhance the conversion of carbon dioxide into energy-rich products: stepping towards artificial photosynthesis. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2013, 371, 20120111. | 1.6 | 41 |
| 47 | Organic Carbonates: Efficient Extraction Solvents for the Synthesis of HMF in Aqueous Media with Cerium Phosphates as Catalysts. ChemSusChem, 2016, 9, 118-125. | 3.6 | 41 |
| 48 | A novel and efficient method for the catalytic direct oxidative carbonylation of 1,2- and 1,3-diols to 5-membered and 6-membered cyclic carbonates. Tetrahedron Letters, 2009, 50, 7330-7332. | 0.7 | 40 |
| 49 | Photocatalytic Carbon Dioxide Reduction at pâ€Type Copper(I) Iodide. ChemSusChem, 2016, 9, 2933-2938. | 3.6 | 40 |
| 50 | Selective carbomethoxylation of aromatic diamines. Green Chemistry, 1999, 1, 237-242. | 4.6 | 39 |
| 51 | Ru<sup>II</sup>â€Mediated Hydrogen Transfer from Aqueous Glycerol to CO<sub>2</sub>: From Waste to Valueâ€Added Products. ChemSusChem, 2011, 4, 1311-1315. | 3.6 | 38 |
| 52 | The Future of Carbon Dioxide Chemistry. ChemSusChem, 2020, 13, 6219-6228. | 3.6 | 38 |
| 53 | Oxidative Addition of Ammonium and Iminium Tetraphenylborates to Low-Valent Metal Complexes. Evidence of Selective Nâ^'C and Nâ^'H Activation. A New, Easy Route to Cationic Allyl- and Hydridonickel Complexes. Organometallics, 1997, 16, 834-841. | 1.1 | 37 |
| 54 | Synthesis and Solid State and Solution Characterization of Mono- and Di-(Î·1-C) Carbamoylâ^'Palladium Complexes. New Efficient Palladium-Catalyzed Routes to Carbamoyl Chlorides:â€‰ Key Intermediates to Isocyanates, Carbamic Esters, and Ureas. Organometallics, 2000, 19, 3879-3889. | 1.1 | 35 |

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| 55 | Reaction of aromatic diamines with diphenylcarbonate catalyzed by phosphorous acids: a new clean synthetic route to mono- and dicarbamates. Tetrahedron, 1998, 54, 14145-14156. | 1.0 | 34 |
| 56 | Butanol synthesis from ethanol over CuMgAl mixed oxides modified with palladium (II) and indium (III). Fuel Processing Technology, 2018, 177, 353-357. | 3.7 | 34 |
| 57 | Synthesis of Organic Carbonates. Advances in Inorganic Chemistry, 2014, 66, 25-81. | 0.4 | 33 |
| 58 | Solar energy utilization in the direct photocarboxylation of 2,3-dihydrofuran using CO<sub>2</sub>. Faraday Discussions, 2015, 183, 413-427. | 1.6 | 33 |
| 59 | The kinetics and mechanism of the reaction between carbon dioxide and a series of amines. Journal of Molecular Catalysis A, 2001, 174, 7-13. | 4.8 | 32 |
| 60 | Recyclable catalytic synthesis of substituted quinolines: copper-catalyzed heterocyclization of 1-(2-aminoaryl)-2-yn-1-ols in ionic liquids. Tetrahedron, 2009, 65, 8507-8512. | 1.0 | 31 |
| 61 | The solid state structure and reactivity of NbCl5Â·(N,Nâ€²-dicyclohexylurea) in solution: evidence for co-ordinated urea dehydration to the relevant carbodiimide. Dalton Transactions, 2010, 39, 6985. | 1.6 | 31 |
| 62 | Energy issues in the utilization of CO2 in the synthesis of chemicals: The case of the direct carboxylation of alcohols to dialkyl-carbonates. Catalysis Today, 2017, 281, 345-351. | 2.2 | 31 |
| 63 | Interaction of Palladium(II) Complexes with Amino-Alcohols: Synthesis of New Amino-Carbonyl Complexes, Key Intermediates to Cyclic Carbamates. Organometallics, 2008, 27, 967-975. | 1.1 | 30 |
| 64 | Sustainable Synthesis of Oxalic and Succinic Acid through Aerobic Oxidation of C6 Polyols Under Mild Conditions. ChemSusChem, 2018, 11, 1073-1081. | 3.6 | 30 |
| 65 | Unique Evidence for a RhIII to RhI Reduction by Deoxygenation of a Carbonate Moiety to CO2 by an Out-of-Sphere Phosphane. European Journal of Inorganic Chemistry, 2001, 2001, 1801-1806. | 1.0 | 29 |
| 66 | Mixed Anhydrides: Key Intermediates in Carbamates Forming Processes of Industrial Interest. Chemistry - A European Journal, 2002, 8, 685-690. | 1.7 | 29 |
| 67 | First in vitro use of the phenylphosphate carboxylase enzyme in supercritical CO2 for the selective carboxylation of phenol to 4-hydroxybenzoic acid. Environmental Chemistry Letters, 2006, 3, 145-148. | 8.3 | 29 |
| 68 | High throughput experiment approach to the oxidation of propene-to-propene oxide with transition-metal oxides as O-donors. Catalysis Today, 2008, 137, 44-51. | 2.2 | 29 |
| 69 | Selective Oxidation of 5-(Hydroxymethyl)furfural to DFF Using Water as Solvent and Oxygen as Oxidant with Earth-Crust-Abundant Mixed Oxides. ACS Omega, 2018, 3, 18724-18729. | 1.6 | 28 |
| 70 | Productivity and biochemical composition of Tetradesmus obliquus and Phaeodactylum tricornutum: effects of different cultivation approaches. Journal of Applied Phycology, 2016, 28, 3179-3192. | 1.5 | 27 |
| 71 | Reaction of alkali-metal tetraphenylborates with amines in the presence of CO2: a new easy way to aliphatic and aromatic alkali-metal carbamates. Journal of the Chemical Society Dalton Transactions, 1995, , 3359. | 1.1 | 26 |
| 72 | Biotechnology to develop innovative syntheses using CO2. Environmental Chemistry Letters, 2005, 3, 113-117. | 8.3 | 25 |

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|---|---|---|---|
| 73 | Synthesis of cyclic carbonates from epoxides: Use of reticular oxygen of Al2O3 or Al2O3-supported CeOx for the selective epoxidation of propene. Catalysis Today, 2006, 115, 117-123. | 2.2 | 25 |
| 74 | Catalytic Synthesis of Hydroxymethylâ€2â€oxazolidinones from Glycerol or Glycerol Carbonate and Urea. ChemSusChem, 2013, 6, 345-352. | 3.6 | 25 |
| 75 | Comparison of the behaviour of supported homogeneous catalysts in the synthesis of dimethylcarbonate from methanol and carbon dioxide: Polystyrene-grafted tin-metallorganic species versus silesquioxanes linked Nb-methoxo species. Inorganica Chimica Acta, 2008, 361, 3215-3220. | 1.2 | 24 |
| 76 | Hybrid Materials for CO<sub>2</sub> Uptake from Simulated Flue Gases: Xerogels Containing Diamines. ChemSusChem, 2008, 1, 742-745. | 3.6 | 23 |
| 77 | Unprecedented formal â€˜2+2â€™ addition of allene to CO2 promoted by [RhCl(C2H4)(PiPr3)]2: direct synthesis of the four membered lactone Î±-methylene-Î²-oxiethanone. The intermediacy of [RhH2Cl(PiPr3)]2: theoretical aspects and experiments. Inorganica Chimica Acta, 2002, 334, 294-300. | 1.2 | 22 |
| 78 | Synthesis and characterization of a novel polystyrene-tethered niobium methoxo species. Its application in the CO2-based carboxylation of methanol to afford dimethyl carbonate. Applied Catalysis A: General, 2010, 387, 113-118. | 2.2 | 22 |
| 79 | Reaction Mechanisms in the Direct Carboxylation of Alcohols for the Synthesis of Acyclic Carbonates. Topics in Catalysis, 2015, 58, 2-14. | 1.3 | 22 |
| 80 | Photocatalytic carboxylation of C H bonds promoted by popped graphene oxide (PGO) either bare or loaded with CuO. Journal of CO2 Utilization, 2017, 20, 97-104. | 3.3 | 22 |
| 81 | Carbon Dioxide Utilization Coming of Age. ChemPhysChem, 2017, 18, 3091-3093. | 1.0 | 22 |
| 82 | Behaviour of[PdH(dppe)2]X (X=CF3SO3â€˜, SbF6â€˜, BF4â€˜) as Proton or Hydride Donor: Relevance to Catalysis. Chemistry - A European Journal, 2004, 10, 3708-3716. | 1.7 | 21 |
| 83 | Oxidative Addition of Allylammonium BPh4-to Nickel(0):Â Synthesis, Crystal Structure, Fluxional Behavior, and Catalytic Activity of Chiral [(Î·3-allyl)(NH3)(PCy3)Ni]BPh4. Organometallics, 2000, 19, 4199-4207. | 1.1 | 20 |
| 84 | Carbon Dioxide Fixation into Organic Compounds. , 2003, , 211-260. | | 20 |
| 85 | The potential of aquatic biomass for CO<sub>2</sub>â€enhanced fixation and energy production. , 2011, 1, 58-71. | | 20 |
| 86 | Biorefineries. , 2015, , . | | 20 |
| 87 | Carbonic Acid Diester Activation by Polymer-Bound DBU and Its Relevance to Catalytic N-Carbonylation of N-Heteroaromatics: Direct Evidence for an Elusive N-Carboxy-Substituted Amidinium Cation Intermediate. ACS Catalysis, 2014, 4, 195-202. | 5.5 | 19 |
| 88 | New catalysts for the conversion of urea into carbamates and carbonates with C1 and C2 alcohols. Studies in Surface Science and Catalysis, 2004, , 213-220. | 1.5 | 18 |
| 89 | Converting â€œExhaustâ€•Carbon into â€œWorkingâ€•Carbon. Advances in Inorganic Chemistry, 2014, 66, 259-288. | 0.4 | 18 |
| 90 | The reaction mechanism in the ethanolysis of urea with transition metal-based catalysts: DFT calculations and experiments. Journal of CO2 Utilization, 2014, 8, 27-33. | 3.3 | 18 |

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|---|---|---|---|
| 91 | ATR Copolymerization of Styrene with 2-Vinylfuran: An Entry to Functional Styrenic Polymers. Macromolecules, 2014, 47, 7129-7137. | 2.2 | 18 |
| 92 | Synthesis, Characterization, and Reactivity of Cationic Hydride [HPd(diphosphine)2]+CF3SO3-, the Missing Member of the Family [HM(dppe)2]+X-(M = Ni, Pd, Pt). DFT QM/MM Structural Predictions for the [HPd(dppe)2]+Moiety. Inorganic Chemistry, 2002, 41, 6550-6552. | 1.9 | 17 |
| 93 | Carbon Recycling Through CO2-Conversion for Stepping Toward a Cyclic-C Economy. A Perspective. Frontiers in Energy Research, 2020, 8, . | 1.2 | 17 |
| 94 | High-energy milling to decontaminate soils polluted by polychlorobiphenyls and atrazine. Environmental Chemistry Letters, 2004, 2, 1-4. | 8.3 | 16 |
| 95 | Ceriumâ€Based Binary and Ternary Oxides in the Transesterification of Dimethylcarbonate with Phenol. ChemSusChem, 2014, 7, 1155-1161. | 3.6 | 16 |
| 96 | Key Issues in Carbon Dioxide Utilization as a Building Block for Molecular Organic Compounds in the Chemical Industry. ACS Symposium Series, 2002, , 54-70. | 0.5 | 15 |
| 97 | The Biochemistry of Sabella spallanzanii (Annelida: Polychaeta): A Potential Resource for the Fish Feed Industry. Journal of the World Aquaculture Society, 2013, 44, 384-395. | 1.2 | 15 |
| 98 | The need to implement an efficient biomass fractionation and full utilization based on the concept of â€œbiorefineryâ€•for a viable economic utilization of microalgae. Environmental Science and Pollution Research, 2016, 23, 22274-22283. | 2.7 | 15 |
| 99 | Chemical recycling of poly-(bisphenol A carbonate) by diaminolysis: A new carbon-saving synthetic entry into non-isocyanate polyureas (NIPUreas). Journal of Hazardous Materials, 2021, 403, 123957. | 6.5 | 15 |
| 100 | Industrial utilization of carbon dioxide (CO2). , 2010, , 377-410. | | 14 |
| 101 | Synthesis of diethylcarbonate by ethanolysis of urea: A study on the recoverability and recyclability of new Zn-based heterogeneous catalysts. Applied Catalysis A: General, 2015, 493, 1-7. | 2.2 | 14 |
| 102 | Synthesis of diethylcarbonate by ethanolysis of urea catalysed by heterogeneous mixed oxides. RSC Advances, 2015, 5, 88401-88408. | 1.7 | 14 |
| 103 | Structureâ€"biodegradation correlation of polyphenols forThauera aromaticain anaerobic conditions. Chemistry and Ecology, 2006, 22, S133-S143. | 0.6 | 12 |
| 104 | Valorization of C5 polyols by direct carboxylation to FDCA: Synthesis and characterization of a key intermediate and role of carbon dioxide. Journal of CO2 Utilization, 2019, 32, 170-177. | 3.3 | 12 |
| 105 | Life Cycle Assessment (LCA) applied to the synthesis of methanol. Comparison of the use of syngas with the use of CO2 and dihydrogen produced from renewables. , 2002, , 331-347. | | 12 |
| 106 | CO2-catalysed carbamation of aminofunctional silanes. Applied Organometallic Chemistry, 2000, 14, 871-873. | 1.7 | 9 |
| 107 | A technology for the treatment of olive-mill waste water in a continuously fed plant. Environmental Chemistry Letters, 2003, 1, 13-18. | 8.3 | 9 |
| 108 | Synthesis and X-ray characterization of [RhCl(C2H4)(PiPr3)]2. Multinuclear NMR and DFT investigation of its solid-state and solution reaction with dihydrogen. Ethene and propene hydrogenation by the solid Rh-hydrides. Dalton Transactions, 2009, , 7924. | 1.6 | 9 |

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|---|---|---|---|
| 109 | Synthesis and Characterization of p-n Junction Ternary Mixed Oxides for Photocatalytic Coprocessing of CO2 and H2O. Catalysts, 2020, 10, 980. | 1.6 | 9 |
| 110 | New Î·5- and Î¼-(O)-Rh(I) phenoxide complexes: synthesis, characterisation and unconventional reactivity of Î·5-complexes towards carbon dioxide. Journal of Organometallic Chemistry, 2000, 605, 143-150. | 0.8 | 8 |
| 111 | Oxidative Addition of Benzyliminium Tetraphenylborate to Pd(dba)(dppe): Synthesis and Catalytic Activity of [(dppe)Pd(dba){Î·1(N)-PhCH2N=CMe2}](BPh4)2. European Journal of Inorganic Chemistry, 2002, 2002, 2188-2193. | 1.0 | 8 |
| 112 | New efficient and recyclable catalysts for the synthesis of di- and tri-glycerol carbonates. RSC Advances, 2015, 5, 64433-64443. | 1.7 | 8 |
| 113 | Stepping toward the carbon circular economy (CCE): Integration of solar chemistry and biosystems for an effective CO2 conversion into added value chemicals and fuels. Advances in Inorganic Chemistry, 2021, 78, 289-351. | 0.4 | 8 |
| 114 | Opto-Electronic Characterization of Photocatalysts Based on p,n-Junction Ternary and Quaternary Mixed Oxides Semiconductors (Cu2O-In2O3 and Cu2O-In2O3-TiO2). Catalysts, 2022, 12, 153. | 1.6 | 8 |
| 115 | Selective Aerobic Oxidation of Furfural into Furoic Acid over a Highly Recyclable MnO<sub>2</sub>@CeO<sub>2</sub> Coreâ€“Shell Oxide: The Role of the Morphology of the Catalyst. ACS Sustainable Chemistry and Engineering, 2022, 10, 8615-8623. | 3.2 | 8 |
| 116 | What Catalysis Can Do for Boosting CO2 Utilization. Advances in Catalysis, 2018, , 49-111. | 0.1 | 7 |
| 117 | Mechanism of formation of the peroxocarbonate complex (PCy3)2Ni(CO4) from solid (PCy3)2Ni(CO2) and dioxygen: an example of solid-state metallorganic reaction involving CO2 deco-ordination and reinsertion into the Oî—¸O bond of (PCy3)2Ni(O2). Reactivity of the peroxocarbonate complex towards olefins in the solid state and in solution. Inorganica Chimica Acta, 2002, 330, 63-71. | 1.2 | 6 |
| 118 | Synthesis of di-n-butyl carbonate from n-butanol: Comparison of the direct carboxylation with butanolysis of urea by using recyclable heterogeneous catalysts. Catalysis Today, 2017, 281, 371-378. | 2.2 | 6 |
| 119 | One-Pot Aerobic Cleavage of Monounsaturated Lipids Catalyzed by Mixed Oxides. ACS Sustainable Chemistry and Engineering, 2021, 9, 6459-6469. | 3.2 | 6 |
| 120 | Beyond fractionation in the utilization of microalgal components. , 2019, , 173-193. | | 5 |
| 121 | Synthesis and spectroscopic (<sup>1</sup>H NMR, ESR) characterization of new aryloxy-Mn(II) complexes: steric control over O- vs. phenyl-π-coordination of ArO<sup>-</sup> ligands | | |

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|---|---|---|---|
| 127 | 12 Heterogeneous catalysis applied to the conversion of biogenic substances, platform molecules, and oils. , 2012, , 279-296. | | 3 |
| 128 | 3. Production and uses of aquatic biomass. , 2015, , 57-80. | | 3 |
| 129 | Application of pervaporation membranes to the direct carboxylation of ethene glycol using CeO2-based catalystsâ€"Comparison of the batch reaction to a flow reaction in SC-CO2. Journal of CO2 Utilization, 2022, 58, 101918. | 3.3 | 3 |
| 130 | New Amines for the Reversible Absorption of Carbon Dioxide from Gas Mixtures. , 2003, , 1599-1602. | | 2 |
| 131 | Hybrid (Enzymatic and Photocatalytic) Systems for CO2-Water Coprocessing to Afford Energy-Rich Molecules. , 2015, , 149-169. | | 2 |
| 132 | Conditions for the Use of CO<SUB>2</SUB>. Chimia, 2015, 69, 353-361. | 0.3 | 2 |
| 133 | Across the Board: Angela Dibenedetto. ChemSusChem, 2016, 9, 3124-3127. | 3.6 | 2 |
| 134 | Insertion of CO2 into Eâ€"X Bonds. , 2016, , 85-141. | | 2 |
| 135 | Reaction Mechanisms in the Direct Carboxylation of Alcohols, Polyols, Cyclic Ethers, and Cyclic Amines to Afford Monomeric Compounds and Polymeric Materials. , 2016, , 183-235. | | 2 |
| 136 | The Carbon Dioxide Molecule. , 2016, , 1-34. | | 2 |
| 137 | Thermodynamics and Applications of CO2 Hydrates. , 2016, , 373-402. | | 2 |
| 138 | Synthesis and Characterization of Fe<sup>0</sup>(2,2â€²â€bipyridine) (2â€aminoethylâ€pyridine) and its Reaction with Dihydrogen. ChemSusChem, 2017, 10, 220-225. | 3.6 | 2 |
| 139 | The Atmosphere, the Natural Cycles, and the â€œGreenhouse Effectâ€• , 2021, , 31-43. | | 2 |
| 140 | Circular Economy and Carbon Dioxide Conversion. , 2021, , 139-175. | | 2 |
| 141 | Tunable Mixed Oxides: Efficient Agents for the Simultaneous Trans-Esterification of Lipids and Esterification of Free Fatty Acids from Bio-Oils for the Effective Production of Fames. International Journal of Renewable Energy and Biofuels, 0, , 1-15. | 0.0 | 2 |
| 142 | Erratum to â€œEnantioselective synthesis of organic carbonates promoted by Nb(IV) and Nb(V) catalystsâ€• [Appl. Catal. A: Gen. 255 (2003) 5â€"11]. Applied Catalysis A: General, 2004, 263, 121. | 2.2 | 1 |
| 143 | 1. Catalysis, Growth, and Society. , 2015, , 5-12. | | 1 |
| 144 | Carbon Dioxide Conversion in High Temperature Reactions. , 2016, , 237-310. | | 1 |

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|---|---|---|---|
| 145 | Interaction of CO2 with Câ€“C Multiple Bonds. , 2016, , 143-182. | | 1 |
| 146 | Enhanced Fixation of CO2 in Land and Aquatic Biomass. , 2019, , 379-412. | | 1 |
| 147 | Properties of the Carbon Dioxide Molecule. , 2021, , 101-121. | | 1 |
| 148 | Reduction of Carbon Dioxide Emission into the Atmosphere: The Capture and Storage (CCS) Option. , 2021, , 73-100. | | 1 |
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