

## Informazioni personali

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Nazionalità	Italiana
Data di nascita	22/02/1968

## Attività Accademica

2000	Ricercatore nel settore CHIM03.
2006-	Professore Associato (settore CHIM03, conferma nel 2009).
2008-	Componente del Collegio della scuola di Dottorato di ricerca in Scienze chimiche e molecolari
2013-	Conseguimento della Abilitazione Scientifica Nazionale, tornata 2012, settore CHIM03/B1, per il ruolo di Professore Ordinario con giudizio "ottimo".
2013-	Coordinatore ERASMUS

### • Principali mansioni e responsabilità

2000-2005	Delegato nazionale nel Gruppo di Esperti del IPCC Panel (Intergovernmental Panel on Climate Change) per la creazione di un Database sui fattori di emissione.
2009-2012	Direttore Centro Interdipartimentale METodologie e TECnologie Ambientali (METEA).
2012-	Direttore del Consorzio Interuniversitario Reattività Chimica e Catalisi (CIRCC).
2012-2014	Delegato per UNIBA nell'assemblea del CIRCC – Consorzio Interuniversitario per la Reattività Chimica e la Catalisi per il triennio 2012-2014.
2015 -	Coordinatore Centro Interdipartimentale METodologie e TECnologie Ambientali (METEA)
2015 -	Coordinatore Centro Interdipartimentale METodologie e TECnologie Ambientali (METEA), per il triennio 2015-2018.
2015-2017	Delegato per UNIBA nell'assemblea del CIRCC – Consorzio Nazionale per la Reattività Chimica e la Catalisi per il triennio 2015-2017
2015- :	Componente del Cluster Tecnologico Nazionale della "Chimica Verde" SPRING –Sustainable Processes and Resources for Innovation and National Growth CLUSTER SPRING
2016 -	Delegato del Rettore alla Ricerca ed Innovazione nel settore delle bioenergie e materiali derivanti da biomasse
2016 -	Coordinatore del Master Universitario di I livello in "Gestione rifiuti radioattivi e rifiuti pericolosi, tecniche di intervento per la salvaguardia ambientale".
2016 -	Rappresentante UNIBA in CdA di DITNE - Distretto Tecnologico Nazionale sull'Energia Scarl dell'Università degli Studi di Bari
2016 -	Promotrice ed coordinatrice del Gruppo Italiano CO <sub>2</sub>

## Attività di coordinamento a livello internazionale

2005-2010	Progetto ACENET ERA-NET for Applied Catalysis in Europe (2005-2010) coordinato da Dr Louis Vertegaal -Netherlands Organisation of Scientific Research (NWO) come esperto per il MIUR.
2011-2014	Progetto CAPITA ERANET "Catalytic Processes for Innovative Technology Applications" coordinato da Dr Louis Vertegaal -Netherlands Organisation of Scientific Research (NWO) come esperto del MIUR.
2012 -	Co-Chair della International Conference on Carbon Dioxide Utilization-ICCDU.
2016	Componente dell'European Biomass Research Committee "EUBREN committee of biomass research experts".
2016 -	Componente dell'European CLUSTER on Catalysis.
2017:	Membro del National Scientific Committee di EUROPACAT 2017

2017: Organizzatore della sessione sulla "Chimica Verde" per il Congresso International Conference on Coordination Chemistry 2020 - ICCS che si terrà a Rimini, 6-10 Luglio 2020.

### Riconoscimenti Scientifici:

8 Ottobre 2001 Premio RUCADI sul tema "Better Carbon Management - An Intelligent Chemical Use of CO<sub>2</sub>". Tale premio è stato conferito da tre industrie europee ACP-Belgio, Carburos Metalicos-Spagna ed ENIChem-Italia, Salonicco (Grecia).

1-5 Aprile, 2001 Nomination al " R. A. Glenn Award" per il lavoro dal titolo "Nb<sub>2</sub>O<sub>5</sub> as catalyst in the oxidative carboxylation of olefins" di A. Dibenedetto and M. Aresta presentato al 221st Congresso Nazionale "ACS" in San Diego.

April 7-11, 2002 Nomination al " R. A. Glenn Award" per il lavoro dal titolo "Bridging Natural Facts with Industrial Processes for Carbon Dioxide Utilization: Metal Enzymes and Transition Metal Systems" di A. Dibenedetto and M. Aresta presentato al 223rd National Meeting, American Chemical Society, Orlando - Florida.

2010 Finalista al premio EUCHEMS "European Sustainable Chemistry Award"

2011 Certificato di eccellenza per l'autore più citato "Journal of Catalysis" Impact Factor

### Attività editoriali:

2012 "Biorefinery: from biomass to chemicals and fuels" ISBN 978-3-11-026028-1, pubblicato da De Gruyter nel 2012.

2012 "Inorganic Micro- and Nanomaterials Synthesis and Characterization" ISBN 978-3-11-030666-8, pubblicato da De Gruyter nel 2012

2015 "Biorefineries: An Introduction" ISBN978-3-11-033153-0, pubblicato da De Gruyter nel 2015.

2016 Co-Autore del volume "Reaction Mechanisms in Carbon Dioxide Conversion" ISBN 978-3-662-46831-9, pubblicato da Springer

2015 Membro dell'Editorial Board della rivista Internazionale "Journal of CO<sub>2</sub> utilization"

2016- Membro dell'International Advisory Board della rivista Internazionale "CHEMSUSCHEM".

2016 - Membro dell'Editorial Board della rivista Internazionale "Carbon capture, storage and utilization".

2017: Guest editor Special issue "Carbon Dioxide Utilization" per la rivista internazionale ChemPhysChem

2017: Guest editor Special issue "Catalysis&Chemical Engineering" per la rivista internazionale Catalysis Today.

Pubblicazioni scientifiche Autrice di oltre 140 pubblicazioni su riviste internazionali  
Citazioni: 4072 citazioni totali su 2749 documenti; *h*-index:30 (SCOPUS)

### Lista delle Pubblicazioni

- 1995-1999
1. M. Aresta, A. Dibenedetto, E. Quaranta  
Reaction of Alkali-metal Tetraphenylborates with Amines in the Presence of CO<sub>2</sub>: a New Easy Way to Aliphatic and Aromatic Alkali-metal Carbamates. *J. Chem. Soc., Dalton Transactions*, 1995, 3359
  2. M. Aresta, E. Quaranta, A. Dibenedetto, P. Giannoccaro, I. Tommasi, M. Lanfranchi e A. Tiripicchio.  
Oxidative Addition of Ammonium and Iminium Tetraphenylborates to Low-Valent Metal Complexes. Evidence of Selective N-C and N-H Activation. A New, Easy Route to Cationic Allyl-and Hydrido Nickel Complexes. *Organometallics* 1997, 16, 834.
  3. M. Aresta, A. Dibenedetto, E. Quaranta  
Reaction of aromatic diamines with diphenylcarbonate catalyzed by phosphorous acids: a new clean synthetic route to mono- and di-carbamates. *Tetrahedron*, 1998, 54, 14145-14156.
  4. M. Aresta, A. Dibenedetto, E. Quaranta  
Selective carbomethoxylation of aromatic diamines with mixed carbonic acid diesters in the presence of phosphorous acids. *Green Chemistry*, 1999, pag. 237.
  5. M. Aresta, A. Dibenedetto, A. Caroppo  
Developing innovative synthetic methodologies based on carbon dioxide. Life cycle assessment (E-LCA) as a tool for the evaluation of the environmental and energetic performance of new technologies: Methanol and dimethylcarbonate as probe cases. *ACS Division of Fuel Chemistry*, 2001, 46(1) 108-109.
- 2000

2001

6. M. Aresta, A. Dibenedetto, M. Pascale, E. Quaranta and I. Tommasi  
New  $\eta^5$ - and  $\mu$ -(O)-Rh(I) phenoxide complexes: synthesis, characterization and unconventional reactivity of  $\eta^5$ -complexes towards carbon dioxide. *J. Organomet. Chem.*, 2000, 605, 143-150.
7. M. Aresta, P. Giannoccaro, I. Tommasi, A. Dibenedetto, A. Manotti, F. Ugozzoli,  
Synthesis and Solid State and Solution Characterization of Mono- and Di- ( $\eta^1$ -C) Carbamoyl-Palladium Complexes. New Efficient Palladium-Catalysed Routes to Carbamoyl Chlorides: Key Intermediates to Isocyanates, Carbamic Esters, and Ureas. *Organometallics*. 2000, 19, 3879-3889.
8. M. Aresta, A. Dibenedetto, E. Quaranta, M. Lanfranchi, A. Tiripicchio  
Oxidative Addition of Allylammonium  $BPh_4^-$  to Nickel(0): Synthesis, Crystal Structure, Fluxional Behaviour, and Catalytic Activity of Chiral  $[(\eta^3\text{-allyl})(NH_3)(PCy_3)Ni]BPh_4$ . *Organometallics*, 2000, 19, 21, 4199-4207.
9. M. Aresta, A. Dibenedetto, E. Quaranta  
*Carbon dioxide catalysis in trans-esterification reaction for the carbamation of amines of industrial interest. ACS Division of Fuel Chemistry*, 2000, 45(4), 681-685.
10. M. Aresta, A. Dibenedetto, I. Tommasi  
Oxidative carboxylation of olefins to afford organic carbonates: The role of metal catalysts under homogeneous and heterogeneous conditions. *ACS, Division of petroleum Chemistry*, 2000, 45(1), 108-109.
11. M. Aresta, A. Dibenedetto, I. Tommasi  
Direct synthesis of organic carbonates by oxidative carboxylation of olefins catalysed by metal oxides: developing green chemistry based on carbon dioxide. *Appl. Organomet. Chem.*, 2000, 14, 799-802.
12. M. Aresta, E. Quaranta, A. Dibenedetto, I. Tommasi and B. Marciniak  
 $CO_2$  catalysed carbamation of aminofunctional silanes. *Appl. Organomet. Chem.*, 2000, 14, 871-873.
13. M. Aresta, I. Tommasi, C. Dileo, A. Dibenedetto, M. Narracci, J. Ziolkowski, A. Jezierski  
Synthesis and spectroscopic ( $^1H$  NMR, ESR) characterization of new aryloxy-Mn(II) complexes: steric control over O- vs phenyl- $\pi$ -coordination of  $ArO^-$  ligands ( $ArO^- = C_6H_5O^-$ , 4-methyl- $C_6H_4O^-$ , 3,5-dimethyl- $C_6H_3O^-$ , 2,6-di-*tert*-butyl- $C_6H_3O^-$ , 2,6-dimethyl- $C_6H_3O^-$ ) to the "Mn(II)Cp" moiety and their reactivity with carbon dioxide. *J. Canad. Chem.*, 2001, 79, 570-577.
14. M. Aresta, A. Dibenedetto, I. Tommasi  
Developing Innovative Synthetic Technologies of Industrial Relevance based on Carbon Dioxide as Raw material. *Energy&Fuels*, 2001, 15, 2, 269-273.
15. M. Aresta, A. Dibenedetto, E. Quaranta, M. Boscolo, R. Larsson  
The Kinetics and Mechanism of the Reaction between Carbon Dioxide and a series of Amines. Observation and interpretation of an Isokinetic Effect. *J. Mol. Catalysis* 2001, 174, 7-13.
16. M. Aresta, A. Dibenedetto, I. Tommasi  
*Unique evidence for a RhIII to RhI reduction by deoxygenation of a carbonate moiety to CO2 by an out-of-sphere phosphane.* *Eur. J. Inorg. Chem.*, 2001, 7, 1801-1806.
17. M. Aresta, A. Dibenedetto  
 $Nb_2O_5$  as catalyst in the oxidative carboxylation of olefins. *ACS Division of Fuel Chemistry*, 2001, 46(1), 119-121.
- M. Aresta, A. Dibenedetto, A. Caroppo  
Developing innovative synthetic methodologies based on carbon dioxide. Life cycle assessment (E-LCA) as a tool for the evaluation of the environmental and energetic performance of new technologies: Methanol and dimethylcarbonate as probe cases *ACS Division of Fuel Chemistry*, 2001, 46(1), 108-109.
18. M. Aresta, A. Dibenedetto  
Bridging natural facts with industrial processes for carbon dioxide utilization: Metal enzymes and transition metal systems. *ACS Division of Fuel Chemistry*, 2002, 47(1), 298-299.
19. M. Aresta, A. Dibenedetto, M. Narracci  
Carbon dioxide capture by amines: Increasing the efficiency by amine structure modification. *ACS Division of Fuel Chemistry*, 2002, 47(1), 53-54.
- M. Aresta, A. Dibenedetto  
Key Issues in Carbon Dioxide Utilisation as a Building Block for Molecular Organic Compounds in the Chemical Industry. *ACS Book on CO2 Conversion and Utilisation*, 2002 54-70.

2002

20. M. Aresta, A. Dibenedetto  
Mixed anhydrides: key intermediates in carbamates forming processes of industrial interest. *Chemistry-A Eur. J.* 2002, 8, 685-690.
21. M. Aresta, A. Dibenedetto  
Development of environmentally friendly syntheses: use of enzymes and biomimetic systems for the direct carboxylation of organic substrates. *Review Molecular Biotechnology*, 2002, 90, 113-128.
22. M. Aresta, I. Tommasi, A. Dibenedetto, M. Fouassier, J. Mascetti  
Mechanism of formation of the peroxocarbonate complex  $(PCy_3)_2Ni(CO_4)$  from solid  $(PCy_3)_2Ni(CO_2)$  and dioxygen: an example of solid-state metallorganic reaction involving  $CO_2$  decoordination and reinsertion into the O-O bond of  $(PCy_3)_2Ni(O_2)$ . Reactivity of the peroxocarbonate complex towards olefins in the solid state and in solution. *Inorganica Chimica Acta*, 2002, 330, 63 – 71.
23. M. Aresta, A. Caroppo, A. Dibenedetto, M. Narracci  
Life cycle assessment (LCA) applied to the synthesis of methanol. comparison of the use of syngas with the use of  $CO_2$  and dihydrogen produced from renewables. *Book on "Environmental Challenges and Greenhouse Gas Control for Fossil Fuel Utilization in the 21<sup>st</sup> Century"* edited by Maroto Valer et al., Kluwer Academic/Plenum Publisher, New York, 2002, 331.
24. M. Aresta, A. Dibenedetto  
Carbon Dioxide as Building Block for the Synthesis of Organic Carbonates: Behavior of Homogeneous and Heterogeneous Catalysts in the Oxidative Carboxylation of Olefins. *J. Mol. Catal.*, 2002, 182-183, 399-409.
25. M. Aresta, A. Dibenedetto, I. Papai, G. Schubert  
Unprecedented formal "2+2" addition of allene to  $CO_2$  promoted by  $[RhCl(C_2H_4)(PPr_3)]_2$ : direct synthesis of the four membered lactone  $\alpha$ -methylene- $\beta$ -oxiethanone. Theoretical aspects and experiments. *Inorg. Chim. Acta*, 2002, 334, 294-300.
26. M. Aresta, A. Dibenedetto, I. Tommasi, E. Amodio  
Oxidative Addition of Benzyliminium tetraphenylborate to  $Pd(dba)(dppe)$ : Synthesis and Catalytic Activity of  $[(dppe)Pd(dba)\eta^1(N-PhCH_2N=CMe_2)](BPh_4)_2$ . *Eur. J. Inorg. Chem.*, 2002, 8, 2188-2193.
27. A. Dibenedetto, M. Narracci, M. Aresta, C. Fragale  
Reaction of silyl-mono and di-amines with carbon dioxide: evidence of formation of inter- and intra-molecular ammonium carbamates and their conversion into organic carbamates of industrial interest by transesterification of carbonates under carbon dioxide catalysis. *Green Chemistry*, 2002, 4(05), 439-443.
28. M. Aresta, A. Dibenedetto, E. Amodio, I. Pápai, G. Schubert  
Synthesis, Characterization and Reactivity of Cationic Hydride  $[HPd(diphosphine)_2]^+ CF_3SO_3^-$ , 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(25), 6550-6552.
29. M. Aresta, A. Dibenedetto, C. Dileo, I. Tommasi, E. Amodio  
The First Synthesis of a Cyclic Carbonate from a Ketal in  $SC-CO_2$ . *J. Sup. Fluid.*, 2003, 25/2, 177-182.
30. M. Aresta, A. Dibenedetto, M. Narracci, I. Tommasi  
A technology for the treatment of olive-mill waste-water in a continuously fed plant. An Insight into the degradation mechanism of methoxy-polyphenols. *Environmental Chemistry Letters* 2003, 1, 13-18.
31. M. Aresta, A. Dibenedetto, C. Pastore  
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, 10, 3256-3261.
32. M. Aresta, A. Dibenedetto, L. Gianfrate, C. Pastore  
Nb(V) Compounds as Epoxides Carboxylation Catalysts: The Role of the Solvent. *J. Mol. Catal. A: Chemical*, 2003, 204-205, 245-252.
33. M. Aresta, A. Dibenedetto, L. Gianfrate, C. Pastore  
Enantioselective synthesis of organic carbonates promoted by Nb(IV) and Nb(V) catalysts. *Appl. Catal. A: General*, 2003, 255, 1, 5-11.
34. M. Aresta, A. Dibenedetto  
Carbon dioxide fixation into organic compounds"Book on "Carbon dioxide recovery and utilization" M. Aresta Ed., Kluwer Publ., 2003, 211.
35. A. Dibenedetto, I. Tommasi  
Biological Utilization of Carbon Dioxide: the Marine Biomass Option. Book on "Carbon dioxide recovery and utilization" M. Aresta Ed., Kluwer Publ., 2003, 315.

2004

36. M. Aresta, A. Dibenedetto, I. Tommasi, E. Cecere, M. Narracci, A. Petrocelli, C. Perrone  
The use of marine macroalgae as renewable energy source for reducing CO<sub>2</sub> emissions. *Greenhouse Gas Control Technologies*, Vol. II, J. Gale and Y Kaya (Eds), 2003, 1497-1502.
37. M. Aresta, A. Dibenedetto  
New Amines for the reversible absorption of carbon dioxide from gas mixture"  
*Greenhouse Gas Control Technologies*, Vol. II, J. Gale and Y Kaya (Eds), 2003, 1599-1602.
38. M. Aresta, A. Dibenedetto C. Fragale, T. Pastore  
High-energy Milling (HEM) to decontaminate soils polluted by polychlorobiphenyls and atrazine. *Environmental Chemistry Letters*, 2, 1-4, 2004
39. M. Aresta, A. Dibenedetto, C. Pastore  
Group 5 (V, Nb and Ta) element-alkoxides as catalysts in the transesterification of ethylene-carbonate with methanol, ethanol and allyl alcohol. *Studies on Surface Sciences and Catalysis*, (Carbon Dioxide Utilization for Global Sustainability), 2004, 153, 221-226.
40. M. Aresta, A. Dibenedetto, C. Devita, O.A. Bourova, O. N. Chupakhin  
New catalysts for the conversion of urea into carbamates and carbonates with C1 and C2 alcohols. *Studies on Surface Sciences and Catalysis*, (Carbon Dioxide Utilization for Global Sustainability), 2004, 153, 213-220.
41. M. Aresta, A. Dibenedetto, I. Pápai, G. Schubert, A. Macchioni, D. Zuccaccia  
Behaviour of [HPd(dppe)<sub>2</sub>]X (X<sup>-</sup> = CF<sub>3</sub>SO<sub>3</sub>, SbF<sub>6</sub>, BF<sub>4</sub>) as Proton or Hydride Donor: Relevance to Catalysis. *Chem. Eur. J.*, 2004, 10, 3708-3716.
42. V. Birke, D. Runne, J. Mattik, A. Berger, C. Schuett, M. Aresta, A. Dibenedetto  
Emerging innovative and versatile mechanochemical techniques for remediation of hazardous wastes and contaminated sites. *Battelle Conference on Remediation of Chlorinated and Recalcitrant Compounds*, Monterey, CA, May 23-27, 2004.
43. M. Aresta, A. Dibenedetto  
The contribution of the utilization option to reducing the CO<sub>2</sub> atmospheric loading: research needed to overcome existing barriers for a full exploitation of the potential of the CO<sub>2</sub> use. *Catalysis Today*, 2004, 98, 455-462.

2005

44. M. Aresta, A. Dibenedetto, T. Pastore.  
Mechanochemistry: an old technology with new applications to environmental issues. Decontamination of polychlorobiphenyl-contaminated soil by high-energy milling in the solid state with ternary hydrides. In E. Lichtfouse, J. Schwarzbauer, D. Robert, Editor(s): *Environmental Chemistry 2005*, 553-559, Springer GmbH Publ., Berlin, Germany
45. M. Aresta, A. Dibenedetto, G. Barberio  
Utilization of macro-algae for enhanced CO<sub>2</sub> fixation and biofuels production: development of a computing software for a LCA study. *ACS - Fuel Processing Technology*, 2005, 86, 1679-1693.
46. M. Aresta, G. Barberio, A. Dibenedetto  
Life cycle assessment of fuel production from macro-algae: evaluation of the net energy gain and CO<sub>2</sub> atmospheric loading reduction. *GHGT-7 2005*
47. M. Aresta, A. Dibenedetto, E. Fracchiolla, P. Giannoccaro, C. Pastore, I. Pápai, G. Schubert  
Mechanism of formation of organic carbonates from aliphatic alcohols and carbon dioxide under mild conditions promoted by carbodiimides. DFT calculation and experimental study. *J. Org. Chem.* 2005, 70, 6177-6186.
48. M. Aresta, A. Dibenedetto, C. Pastore  
Biotechnology to develop innovative syntheses using CO<sub>2</sub>. *Env. Chem. Lett.* 2005, 3, 3, 113-117.
49. M. Aresta, A. Dibenedetto, M. Carone, T. Colonna, C. Fragale  
Production of biodiesel from macroalgae by supercritical CO<sub>2</sub> extraction and thermochemical liquefaction. *Env. Chem. Lett.* 2005, 3, 3, 136-139.
50. M. Aresta, A. Dibenedetto, P. Giannoccaro, C. Pastore, I. Pápai, G. Schubert

2006

On the existence of the elusive CH<sub>3</sub>OC(O)OH acid at 300 K: <sup>1</sup>H and <sup>13</sup>C NMR measurements and DFT calculations. *Eur. J. Inorg. Chem.* 2006, (5), 908-913

51. A. Dibenedetto, R. Lo Noce, C. Pastore, C. Fragale, M. Aresta  
First in vitro use of the phenylphosphate carboxylase enzyme in supercritical CO<sub>2</sub> for the selective carboxylation of phenol to 4-hydroxybenzoic acid. *Env. Chem. Lett.*, 2006, 3(4), 145-148.
52. M. Aresta, A. Dibenedetto, C. Pastore  
Direct carboxylation of alcohols to organic carbonates: comparison of the Group 5 element alkoxides catalytic activity. An insight into the reaction mechanism and its key steps. *Catalysis Today* 2006, 115, 88-94
53. M. Aresta, A. Dibenedetto, F. Nocito, C. Pastore, A. M. Venezia, E. Chirykalova, V. I. Kononenko, V.G. Shevchenko, I.A. Chupova  
Synthesis of cyclic carbonates from epoxides: use of reticular oxygen of Al<sub>2</sub>O<sub>3</sub> or Al/Al<sub>2</sub>O<sub>3</sub>-supported CeO<sub>x</sub> for the selective epoxidation of propene. *Catalysis Today* 2006, 115, 117-123
54. A. Dibenedetto, R.M. Lo Noce, M. Narracci, M. Aresta  
Correlation structure-biodegradation of polyphenols by *Thaueria aromatica* in anaerobic conditions. *Chemistry and Ecology* 2006, 22(1), 133-143.
55. M. Aresta, A. Dibenedetto, C. Pastore, I. Pápai, G. Schubert  
Reaction Mechanism of the Direct Carboxylation of Methanol to Dimethylcarbonate: Experimental and Theoretical Studies. *Topics in catalysis*, 2006, 40(1-4), 71-81
56. M. Aresta, A. Dibenedetto, F. Nocito, C. Pastore  
A study on the carboxylation of glycerol to glycerol carbonate with carbon dioxide: the role of the catalyst, solvent and reaction conditions. *J. Mol. Catal.*, 2006, 257, 1-2, 149-153
57. M. Aresta, A. Dibenedetto  
Artificial Carbon Sinks. Utilization of CO<sub>2</sub> for the synthesis of chemicals and technological applications. In "Greenhouse Gas Sinks" *CABI Book*, D Reay, N Hewitt, J Grace, K A Smith Eds. February 2007, 448 pages.
58. M. Aresta, A. Dibenedetto  
Utilisation of CO<sub>2</sub> as a chemical feedstock: opportunities and challenges. *Dalton Trans.*, 2007, 2975 – 2992
59. M. Aresta, A. Dibenedetto  
Catalyst development for the utilization of CO<sub>2</sub> as building block for chemicals. *La Chimica e l'Industria* (Milan, Italy) 2007, 89(9), 142-147.
60. M. Aresta, C. Pastore, P. Giannoccaro, G. Kovács, A. Dibenedetto, I. Pápai  
Evidence for spontaneous release of acrylates from a transition metal complex upon coupling ethene or propene with a carboxylic moiety or CO<sub>2</sub> *Chem Eur. J.*, 2007, 13, 9028-9034
61. A. Dibenedetto, M. Aresta, C. Pastore, F. Nocito  
Use of reticular oxygen of metal oxides for the selective epoxidation of propene. *ACS, Division of Petroleum Chemistry* 2007, 52(2), 273.
62. M. Aresta, A. Dibenedetto, F. Nocito, C. Pastore  
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.
63. M. Aresta, A. Dibenedetto, C. Fragale, P. Giannoccaro, C. Pastore, D. Zammiello  
Thermal desorption of polychlorobiphenyls from contaminated soils and their hydrodechlorination using Pd- and Rh-supported catalysts. *Chemosphere* 2008, 70, 1052-1058
64. A. Dibenedetto, M. Aresta, M. Distaso, C. Pastore, A. M. Venezia, C.-J. Liu, M. Zhang  
High Throughput Experiment Approach to the Oxidation of Propene to Propene Oxide with Transition Metal Oxides as O-Donors. *Catalysis Today* 137 (2008) 44-51
65. P. Giannoccaro, A. Dibenedetto, M. Gargano, E. Quaranta, M. Aresta  
Interaction of Pd(II) complexes with amino alcohols: synthesis of new amino carbonyl complexes, key intermediates to cyclic carbamates. *Organometallics* 2008, 27, 5, 967 – 975.
66. M. Aresta, A. Dibenedetto, C. Pastore  
Synthesis of Dimethyl Carbonate from Methanol and CO<sub>2</sub>: a Comparative Study of Homogeneous and Heterogenized Catalysts. *ACS, Div Fuel Chem.* 2008, 53(1), 244-245.
67. M. Aresta, A. Dibenedetto, C. Pastore, B. Aresta

2007

2008

- Modified Cerium(IV)Oxide for an Efficient Carboxylation of Methanol. *ACS, Div Fuel Chem.* 2008, 53(1), 322-323.
68. M. Aresta, A. Dibenedetto, C. Pastore, C. Cuocci, B. Aresta, S. Cometa, E. Degiglio  
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
69. M. Aresta, A. Dibenedetto, C. Pastore, C. Fragale  
Hybrid Materials for CO<sub>2</sub> Up-take from Simulated Flue-gases: Xerogels Containing Diamines. *ChemSusChem*, 2008, 1, 742-745.
- 2009
70. M. Aresta, A. Dibenedetto  
Energy from aquatic biomass. *La Chimica e l'Industria*, 2009, 133-137.
71. A. Dibenedetto, A. Angelini, M. Aresta, C. Pastore, E. Quaranta, M.R. Chierotti, R. Gobetto, I. Pàpai, C. Graiff, A. Tiripicchio  
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Bari, 02.10.2017

F.to Angela DIBENEDETTO