List of Publications of Prof. Paolo Fornasiero

Publications on international peer review Journals

1. J. Kašpar, C. de Leitenburg, **P. Fornasiero**, A. Trovarelli, and M. Graziani, "NO reduction by CO over Rh/Al_2O_3. Effect of rhodium dispersion on the catalytic properties.", ***J.Catal***., 146 (1994) 136-143.
   Academic Press Inc., San Diego, USA. Codice ISSN: 0021-9517
   IF = 5.415, citazioni = 56

2. **P. Fornasiero**, R. Di Monte, G. Ranga Rao, J. Kašpar, S. Meriani, A. Trovarelli, and M. Graziani, "Rh-loaded CeO_2-ZrO_2 solid solutions as highly efficient oxygen exchangers: dependence of the reduction behavior and the oxygen storage capacity on the structural properties.", ***J.Catal***., 151 (1995) 168-177.
   Academic Press Inc., San Diego, USA. Codice ISSN: 0021-9517
   IF = 5.415, citazioni = 530

3. G. Ranga Rao, **P. Fornasiero**, J. Kašpar, S. Meriani, R. Di Monte, and M. Graziani, "NO decomposition over partially reduced metallized CeO_2 containing catalysts.", ***Stud.Surf.Sci.Catal.,*** 96 (1995) 631-643.
   Elsevier Science Publishers B.V., Amsterdam. Olanda. Codice ISBN: 0-444-82019-1
   IF = n.d., citazioni = 9

4. G. Balducci, **P. Fornasiero**, R. Di Monte, J. Kašpar, S. Meriani, and M. Graziani, "An unusual promotion of the redox behaviour of CeO_2-ZrO_2 solid solutions upon sintering at high temperatures.", ***Catal.Lett***., 33 (1995) 193-200.
   J.C.Baltzer AG, Science Publishers, Amsterdam, Olanda. Codice ISSN: 1011-372X
   IF = 1.907, citazioni = 119

5. G. Ranga Rao, **P. Fornasiero**, R. Di Monte, J. Kašpar, G. Vlaic, G. Balducci, S. Meriani, G. Gubitosa, A. Cremona, and M. Graziani, "Reduction of NO over partially reduced metal-loaded CeO_2-ZrO_2 solid solutions.", ***J.Catal***., 162 (1996) 1-9.
   Academic Press Inc., San Diego, USA. Codice ISSN: 0021-9517
   IF = 5.415, citazioni = 139

6. **P. Fornasiero**, G. Balducci, R. Di Monte, J. Kašpar, V. Sergo, G. Gubitosa, A. Ferrero, and M. Graziani, "Modification of the redox behaviour of CeO_2 induced by structural doping with ZrO_2.", ***J.Catal.,*** 164 (1996) 173-183.
   Academic Press Inc., San Diego, USA. Codice ISSN: 0021-9517
   IF = 5.415, citazioni = 410

7. **P. Fornasiero**, G. Balducci, J. Kašpar, S. Meriani, R. Di Monte, and M. Graziani, "Metal-loaded CeO_2-ZrO_2 solid solutions as innovative catalysts for automotive catalytic converters.", ***Catal.Today***, 29 (1996) 47-52.
   Elsevier Science Publishers B.V., Amsterdam. Olanda. Codice ISSN: 0920-5861
   IF = 2.993, citazioni = 52

8. H.C. Long, M.L. Turner, **P. Fornasiero**, J. Kašpar, M. Graziani, and P.M. Maitlis, "Vinylic initiation of the Fisher-Tropsch reaction over ruthenium on silica catalysts.", ***J.Catal***., 167 (1997) 172-179.
   Academic Press Inc., San Diego, USA. Codice ISSN: 0021-9517
   IF = 5. 415, citazioni = 42

9. **P. Fornasiero**, J. Kašpar, and M. Graziani, "Redox behaviour of high surface area Rh-loaded $Ce_{0.5}Zr_{0.5}O_2$ mixed oxide.", ***J.Catal***., 167 (1997) 576-580.
   Academic Press Inc., San Diego, USA. Codice ISSN: 0021-9517
   IF = 5. 415, citazioni = 81

10. G. Vlaic, **P. Fornasiero**, S. Geremia, J. Kašpar, and M. Graziani, "Relationship between the zirconia-promoted reduction in the Rh-loaded $Ce_{0.5}Zr_{0.5}O_2$ mixed oxide and the Zr-O local structure.", ***J.Catal.***, 168 (1997) 386-392.
    Academic Press Inc., San Diego, USA. Codice ISSN: 0021-9517
    IF = 5.415, citazioni = 127

11. G. Balducci, J. Kašpar, **P. Fornasiero**, M. Graziani, M.S. Islam, and J.D. Gale, "Computer simulation studies of bulk reduction and oxygen migration in $Ce_xZr_{(1-x)}O_2$ solid solutions.", ***J.Phys.Chem. B.***, 101 (1997) 1750-1753.
    American Chemical Society, Washington D.C., USA. Codice ISSN: 1089-5647
    IF = 3.603, citazioni = 135

12. P. Vidmar, **P. Fornasiero**, J. Kašpar, G. Gubitosa, and M. Graziani, "Effects of trivalent dopants on the redox properties of $Ce_{0.6}Zr_{0.4}O_2$ mixed oxide.", ***J.Catal.***, 171 (1997) 160-168.
    Academic Press Inc., San Diego, USA. Codice ISSN: 0021-9517
    IF = 5. 415, citazioni = 137

13. G. Vlaic, R. Di Monte, **P. Fornasiero**, E. Fonda, J. Kašpar, and M. Graziani, "The CeO_2-ZrO_2 system: redox properties and structural relationships.", ***Stud.Surf.Sci.Catal.***, 116 (1998) 185-195.
    Elsevier Science Publishers B.V., Amsterdam, Olanda. Codice ISBN: 0-444-82019-1
    IF = n.d., citazioni = 19

14. R. Di Monte, J. Kašpar, **P. Fornasiero**, A. Ferrero, G. Gubitosa, and M. Graziani, "NO reduction by CO over Pd/CeO_2-ZrO_2-Al_2O_3.", ***Stud.Surf.Sci.Catal.***, 116 (1998) 559-569. Elsevier Science Publishers B.V., Amsterdam, Olanda. Codice ISBN: 0-444-82019-1
    IF = n.d., citazioni = 18

15. R. Di Monte, **P. Fornasiero**, M. Graziani, and J. Kašpar, "Oxygen Storage and catalytic NO removal promoted by CeO_2-containing mixed oxides.", ***J.All.Compound.***, 275-277 (1998) 877-885.
    Elsevier Science Publishers B.V., Amsterdam. Olanda. Codice ISSN: 0925-8388
    IF = 2.134, citazioni = 46

16. G. Balducci, J. Kašpar, P. Fornasiero, M. Graziani, and M.S. Islam, "Surface and reduction energetics of the CeO_2-ZrO_2 catalysts.", ***J.Phys.Chem. B.***, 102 (1998) 557-561.
    American Chemical Society, Washington D.C., USA. Codice ISSN: 1089-5647
    IF = 3.603, citazioni = 118

17. **P. Fornasiero**, G. Ranga Rao, J. Kašpar, F. L'Erario, and M. Graziani, "Reduction of NO by CO over Rh/CeO_2-ZrO_2 catalysts: Evidence for a support promoted catalytic activity."**, *J. Catal.***, 175 (1998) 269-279.
    Academic Press Inc., San Diego, USA. Codice ISSN: 0021-9517
    IF = 5. 415, citazioni = 67

18. E. Bekyarova, **P. Fornasiero**, J. Kašpar, and M. Graziani, "CO oxidation on Pd/CeO_2-ZrO_2 catalysts.", ***Catal.Today***, 45 (1998) 179-183.
    Elsevier Science Publishers B.V., Amsterdam. Olanda. Codice ISSN: 0920-5861
    IF = 2.993, citazioni = 66

19. R. Burch, **P. Fornasiero**, T.C. Watling, "Kinetic and mechanism of the reduction of NO by n-octane over Pt/Al_2O_3 under lean burn conditions.", ***J.Catal.***, 176 (1998) 204-214.
    Academic Press Inc., San Diego, USA. Codice ISSN: 0021-9517
    IF = 5. 415, citazioni = 36

20. R. Burch, **P. Fornasiero,** B.L.W. Southward, "Particle size and support effects on the activity and deactivation of the Pt-based catalyst for the reduction of NO by n-octane under lean conditions.", ***Chem. Commun***. (1998) 625-626.
    The Royal Society of Chemistry, Cambridge, Gran Bretagna. Codice ISSN: 1359-7345
    IF = 5.787, citazioni = 13

21. R. Burch, **P. Fornasiero,** B.L.W. Southward, "A method for obtaining stable, high activity for NOx reduction at low temperatures.", ***Chem.Commun***. (1998) 739-740.
The Royal Society of Chemistry, Cambridge, Gran Bretagna. Codice ISSN: 1359-7345
IF = 5.787, citazioni = 7

22. **P. Fornasiero**, J. Kašpar, V. Sergo, and M. Graziani, "Redox behaviour of high surface area Rh, Pt, Pd-loaded $Ce_{0.5}Zr_{0.5}O_2$ mixed oxide.", ***J.Catal***., 182 (1999) 56-69.
Academic Press Inc., San Diego, USA. Codice ISSN: 0021-9517
IF = 5. 415, citazioni = 99

23. R. Burch, **P. Fornasiero,** and B.L.W. Southward, "An investigation into the reactivity, deactivation, and in situ regeneration of Pt-based catalysts for the selective reduction of NOx under lean burn conditions.", ***J.Catal***. 182 (1999) 234-243.
Academic Press Inc., San Diego, USA. Codice ISSN: 0021-9517
IF = 5. 415, citazioni = 21

24. G. Vlaic, R. Di Monte, **P. Fornasiero**, E. Fonda, J. Kašpar, and M. Graziani, "Redox properties-local structure relationships in the Rh-loaded CeO_2-ZrO_2 mixed oxides.", ***J.Catal***. 182 (1999) 378-389.
Academic Press Inc., San Diego, USA. Codice ISSN: 0021-9517
IF = 5. 415, citazioni = 98

25. J. Kašpar, **P. Fornasiero**, and M. Graziani, "Use of CeO_2-based oxides in the three way catalysis." ***Catal.Today***, 50 (1999) 285-298.
Elsevier Science Publishers B.V., Amsterdam. Olanda. Codice ISSN: 0920-5861
IF = 2.993, citazioni = 660

26. **P. Fornasiero,** J. Kašpar, and M. Graziani, "On the rate determining step in the reduction of CeO_2-ZrO_2 mixed oxides.", ***Appl.Catal.B: Environmental,*** 22 (1999) L11-L14.
Elsevier Science Publishers B.V., Amsterdam, Olanda. Codice ISSN: 0926-3373
IF = 4.749, citazioni = 56

27. **P. Fornasiero**, E. Fonda**,** R. Di Monte, G. Vlaic, J. Kašpar, and M. Graziani, "Relationships between structural/textural properties and redox behaviour in $Ce_{0.6}Zr_{0.4}O_2$ mixed oxides.", ***J.Catal.***, 187 (1999) 177-185.
Academic Press Inc., San Diego, USA. Codice ISSN: 0021-9517
IF = 5. 415, citazioni = 67

28. **P. Fornasiero**, N. Hickey, J. Kašpar, C. Dossi, D. Gava, and M. Graziani, "Redox and chemisorptive properties of ex-chloride and ex-nitrate $Rh/Ce_{0.6}Zr_{0.4}O_2$ catalysts Part 1: Effect of low temperature redox cycling.", ***J.Catal.,*** 189 (2000) 326-338.
Academic Press Inc., San Diego, USA. Codice ISSN: 0021-9517
IF = 5. 415, citazioni = 19

29. **P. Fornasiero**, N. Hickey, J. Kašpar, T. Montini, and M. Graziani, "Redox and chemisorptive properties of ex-chloride and ex-nitrate $Rh/Ce_{0.6}Zr_{0.4}O_2$ catalysts Part 2: Effect of high temperature redox cycling.", ***J.Catal***., 189 (2000) 339-348.
Academic Press Inc., San Diego, USA. Codice ISSN: 0021-9517
IF = 5. 415, citazioni = 21

30. **P. Fornasiero**, J. Kašpar, S. Fagotto, and M. Graziani, "Nitric oxide promoted partial oxidation of methane under strongly oxidising conditions.", ***J.Catal***., 189 (2000) 463-466.
Academic Press Inc., San Diego, USA. Codice ISSN: 0021-9517
IF = 5. 415, citazioni = 6

31. G. Balducci, M.S. Islam, J. Kašpar, **P. Fornasiero**, and M. Graziani, "Bulk reduction and oxygen migration in the ceria-based oxides.", ***Chem.Mater***., 12 (2000) 677-681.
American Chemical Society, Washington D.C., USA. Codice ISSN: 0897-4756

IF = 6.397, citazioni = 90

32. G. Vlaic, **P. Fornasiero**, G. Martra, E. Fonda, J. Kašpar, L. Marchese, E. Tomat, S. Coluccia, and M. Graziani, "Morphology of rhodium particles in ex-chloride Rh/$Ce_{0.5}Zr_{0.5}O_2$ catalysts.", ***J.Catal.***, 190 (2000) 182-190.
Academic Press Inc., San Diego, USA. Codice ISSN: 0021-9517
IF = 5. 415, citazioni = 18

33. R. Di Monte, **P. Fornasiero**, J. Kašpar, P. Rumori, G. Gubitosa, and M. Graziani, "Pd/$Ce_{0.6}Zr_{0.4}O_2$/Al_2O_3 as advanced materials for three-way catalysts. Part 1. Catalyst characterisation, thermal stability and catalytic activity in the reduction of NO by CO.", ***Appl.Catal.B: Environmental***, 24 (2000) 157-167.
Elsevier Science Publishers B.V., Amsterdam, Olanda. Codice ISSN: 0926-3373
IF = 4.749, citazioni = 64

34. **P. Fornasiero**, R. Di Monte, T. Montini, J. Kašpar, and M. Graziani, "Thermal stability and oxygen storage capacity of noble metal/ceria-zirconia catalysts for the automotive converters with the on-board-diagnostics (OBD).", ***Stud.Surf.Sci.Catal.***, 130 (2000) 1355-1360.
Elsevier Science Publishers B.V., Amsterdam, Olanda. Codice ISBN: 0-444-82019-1
IF = n.d., citazioni = n.d.

35. J.M Gatica, R.T. Baker, **P. Fornasiero**, S. Bernal, G. Blanco, and J. Kašpar, "Rhodium dispersion in a Rh/$Ce_{0.68}Zr_{0.32}O_2$ catalyst investigated by HRTEM and H_2 chemisorption.", ***J.Phys.Chem.B.***, 104 (2000) 4667-4672.
American Chemical Society, Washington D.C., USA. Codice ISSN: 1089-5647
IF = 3.603, citazioni = 40

36. N. Hickey, **P. Fornasiero**, J. Kašpar, M. Graziani, G. Blanco, and S. Bernal, "Significant room temperature oxygen storage over 0.58% Pt/$Ce_{0.68}Zr_{0.32}O_2$ when H_2 is used as a reducing agent.", ***Chem.Commun.***, (2000) 357-358.
The Royal Society of Chemistry, Cambridge, Gran Bretagna. Codice ISSN: 1359-7345
IF = 5.787, citazioni = 22

37. R. Di Monte, **P. Fornasiero**, J. Kašpar, M. Graziani, J.M. Gatica, S. Bernal, and A. Gomez-Herrero, "Stabilisation of nanostructured $Ce_{0.2}Zr_{0.8}O_2$ solid solution by impregnation of Al_2O_3: a suitable method for the production of thermally stable oxygen storage/release promoters for three-way catalysts.", ***Chem.Commun***., (2000) 2167-2168.
The Royal Society of Chemistry, Cambridge, Gran Bretagna. Codice ISSN: 1359-7345
IF = 5.787, citazioni = 45

38. N. Hickey, **P. Fornasiero**, J. Kašpar, J.M Gatica, and S. Bernal, "Effects of the nature of the reducing agent on the transient redox behaviour of NM/$Ce_{0.68}Zr_{0.32}O_2$ (NM = Pt, Pd and Rh).", ***J.Catal.*** 200 (2001) 181-193.
Academic Press Inc., San Diego, USA. Codice ISSN: 0021-9517
IF = 5. 415, citazioni = 62

39. R. Di Monte, **P. Fornasiero**, J. Kašpar, and M. Graziani, "Stabilisation of nanostructured CeO_2-ZrO_2 solid solutions by addition of Al_2O_3: a suitable way for production of thermally stable oxygen storage/release promoters for three-way catalysts.", ***Stud.Surf.Sci.Catal.***, 140 (2001) 229-234.
Elsevier Science Publishers B.V., Amsterdam, Olanda. Codice ISBN: 0-444-82019-1
IF = n.d., citazioni = 11

40. N. Hickey, **P. Fornasiero**, R. Di Monte, J. Kašpar, M. Graziani, and G. Dolcetti, "A comparative study of oxygen storage capacity over $Ce_{0.6}Zr_{0.4}O_2$ mixed oxides investigated by temperature programmed reduction and dynamic-OSC Measurements.", ***Cat.Lett.***, 72 (2001) 45-50.
J.C.Baltzer AG, Science Publishers, Amsterdam, Olanda. Codice ISSN: 1011-372X
IF = 1.907, citazioni = 17

41. J.M Gatica, R. Baker, **P. Fornasiero**, S. Bernal, and J. Kašpar, "Characterisation of the metal phase in NM/$Ce_{0.68}Zr_{0.32}O_2$ (NM: Pt and Pd) catalysts by hydrogen chemisorption and HRTEM microscopy: a comparative study.", ***J.Phys.Chem. B.***, 105 (2001) 1191-1199.
American Chemical Society, Washington D.C., USA. Codice ISSN: 1089-5647
IF = 3.603, citazioni = 50

42. G. Centi, **P. Fornasiero**, M. Graziani, J. Kašpar, and F. Vazzana, "Enhancement of the low temperature activity in NO reduction in lean conditions by SMSI effect in Pt/CeO_2-ZrO_2 on alumina catalyst.", ***Top.Catal.***, 16/17 (2001) 173-180.
Plenum Publishing Corporation/Kluwer Academic Publishers, New York, USA.
IF = 2.359, citazioni = 10 Codice ISSN: 1022-5528

43. J. Kašpar, R. Di Monte, **P. Fornasiero**, M. Graziani, H. Bradshaw, and C. Norman, "Dependency of the oxygen storage capacity in zirconia-ceria solid solutions upon textural properties." ***Top.Catal.***, 16/17 (2001) 83-87.
Plenum Publishing Corporation/ Kluwer Academic Publishers, New York, USA.
IF = 2.359, citazioni = 47 Codice ISSN: 1022-5528

44. **P. Fornasiero**, and J. Kašpar, "Infrared study of nitric oxide (NO) adsorption and conversion on CeO_2-ZrO_2 mixed oxide." ***Coll.Czek.Chem.Comun***., 66 (2001) 1287-1298.
Institute of Organic Chemistry and Biochemistry, Academy of Sciences of the Czech Republic, Praga, Reppublica Ceca. Codice ISSN: 0010-0765
IF = 0.853, citazioni = 5

45. **P. Fornasiero**, T. Montini, M. Graziani, J. Kašpar, A.B. Humgría, A. Martínez-Arias, and J.C. Conesa, "Effects of thermal pre-treatment on redox behaviour of $Ce_{0.5}Zr_{0.5}O_2$: isotopic and spectroscopic studies." ***Phys.Chem.Chem.Phys.***, 4 (2002) 149-159.
The Royal Society of Chemistry, Cambridge, Gran Bretagna. Codice ISSN: 1463-9076
IF = 3.453, citazioni = 40

46. J.M. Gatica, **P. Fornasiero**, J. Kašpar, T. Lesage, S. Aiello, and M. Daturi, "Hydrogen scrambling over Rh/$Ce_{0.68}Zr_{0.32}O_2$ and Rh/Al_2O_3 catalysts: Effects of support, metal precursor and redox aging." ***Phys.Chem.Chem.Phys.***, 4 (2002) 381-388.
The Royal Society of Chemistry, Cambridge, Gran Bretagna. Codice ISSN: 1463-
IF = 3.453, citazioni = 6

47. N. Hickey, **P. Fornasiero**, J. Kašpar, M. Graziani, G. Martra, S. Coluccia, S. Biella, L. Prati, and M. Rossi, "Improvement of SO_x-resistance of silver lean-DeNO_x catalysts by supporting on a CeO_2-containing zirconia.", ***J.Catal***. 209 (2002) 271-274.
Academic Press Inc., San Diego, USA. Codice ISSN: 0021-9517
IF = 5. 415, citazioni = 21

48. R. Di Monte, J. Kašpar, **P. Fornasiero**, M. Graziani, C. Pazé, amd G. Gubitosa, "NO reduction by CO over Pd/$Ce_{0.6}Zr_{0.4}O_2$/Al_2O_3 catalysts: In situ FT-IR studies of NO and CO adsorption.", ***Inorg. Chim. Acta***, 334 (2002) 318-326.
Elsevier Science Publishers B.V., Amsterdam, Olanda. Codice ISSN: 0020-1693
IF = 1.899, citazioni = 31

49. J. Kašpar, **P. Fornasiero**, and N. Hickey, "Automotive catalytic converters: current status and some perspectives.", ***Catal.Today*** , 77 (2003) 419-449.
Elsevier Science Publishers B.V., Amsterdam. Olanda. Codice ISSN: 0920-5861
IF = 2.993, citazioni = 359

50. J. Kašpar , **P. Fornasiero**, G. Balducci, R. Di Monte, N. Hickey, and V. Sergo, "Effect of ZrO_2 content on textural and structural properties of CeO_2-ZrO_2 solid solutions made by citrate complexation route.", ***Inorg.Chim.Acta***, 334 (2003) 217-226.
Elsevier Science Publishers B.V., Amsterdam, Olanda. Codice ISSN: 0020-1693

IF = 1.899, citazioni = 74

51. J. Kašpar and **P. Fornasiero**, "Nanostructured materials for advanced automotive de-pollution catalysts.", ***J.Solid.StateChem.***, 171 (2003) 19-29.
Academic Press Inc., San Diego, USA. Codice ISSN: 0022-4596
IF = 2.261, citazioni = 107

52. **P. Fornasiero**, J. Kašpar, T. Montini, M. Graziani, V. Del Santo, R. Psaro, and S. Recchia, "Interaction of molecular hydrogen with three-way catalysts model of $Pt/Ce_{0.6}Zr_{0.4}O_3/Al_2O_3$ type.", ***J.Mol.Catal. A: Chemical***., 204-205 (2003) 683-691.
Elsevier Science Publishers B.V., Amsterdam. Olanda. Codice ISSN: 1381-1169
IF = 2.872, citazioni = 21

53. G. Balducci, M. Saiful Islam, J. Kašpar, **P. Fornasiero,** and M. Graziani, "Reduction process in CeO_2-MO and CeO_2-M_2O_3 mixed oxides: a computer simulation study.", ***Chem.Mater***. 15 (2003) 3781-3785.
American Chemical Society, Washington D.C., USA. Codice ISSN: 0897-4756
IF = 6.397, citazioni = 27

54. T. Montini, M.A. Bañares, N. Hickey, R. Di Monte, **P. Fornasiero**, J. Kašpar, and M. Graziani, "Promotion of reduction in $Ce_{0.5}Zr_{0.5}O_2$: the pyrochlore structure as effect rather than cause?", ***Phys.Chem.Chem.Phys.*** 6 (2004) 1-3.
The Royal Society of Chemistry, Cambridge, Gran Bretagna. Codice ISSN: 1463-9076
IF = 3.453, citazioni = 47 (P. Fornasiero - corresponding author)

55. N. Hickey, **P. Fornasiero,** R. Di Monte, J. Kašpar, J.R. González-Velasco, M.A. Gutiérrez-Ortiz, M.P. González-Marcos, J.M. Gatica, S. Bernal, "Reactivation of aged model $Pd/Ce_{0.68}Zr_{0.32}O_2$ three-way catalyst by high temperature oxidising treatment.", ***Chem.Commun.***, (2004) 196-197.
The Royal Society of Chemistry, Cambridge, Gran Bretagna. Codice ISSN: 1359-7345
IF = 5.787, citazioni = 11

56. **P. Fornasiero**, A. Speghini, R. Di Monte, M. Bettinelli, J. Kašpar, A. Bigotto, V. Sergo and M. Graziani, " Laser-excited luminescence of trivalent lanthanide impurities and local structure in CeO_2-ZrO_2 mixed oxides.", ***Chem.Mater.*** 16 (2004) 1938-1944.
American Chemical Society, Washington D.C., USA. Codice ISSN: 0897-4756
IF = 6.397, citazioni = 34 (P. Fornasiero - corresponding author)

57. R. Di Monte, **P. Fornasiero**, S. Desinan, J. Kaspar, J. M. Gatica, J.J. Calvino, E. Fonda, "Thermal stabilization of $Ce_xZr_{1-x}O_2$ oxygen storage promoters by addition of Al_2O_3: effect of thermal ageing on textural, structural and morphological properties.", ***Chem.Mater.*** 16 (2004) 4273-4285.
American Chemical Society, Washington D.C., USA. Codice ISSN: 0897-4756
IF = 6.397, citazioni = 38

58. A. Serpe, F. Bigoli, M.C. Cabras, **P. Fornasiero**, M. Graziani, M.L. Mercuri, T. Montini, L. Pilia, E.F. Trogu, P. Deplano, " Pd-dissolution through a mild and effective one-step reaction and its application for Pd-recovery from spent catalytic converters." ***Chem.Commun.*** (2005) 1040-1042.
The Royal Society of Chemistry, Cambridge, Gran Bretagna. Codice ISSN: 1359-7345
IF = 5.787, citazioni = 7

59. T. Montini, N. Hickey, **P. Fornasiero**, M. Graziani, M.A. Bañares, I. Alessandri, and L.E. Depero, "Variations in the extent of pyrochlore-type cation ordering in $Ce_2Zr_2O_8$: A t' - k pathway to low temperature reduction." ***Chem.Mater.*** 17 (2005) 1157-1166
American Chemical Society, Washington D.C., USA. Codice ISSN: 0897-4756
IF = 6.397, citazioni = 32 (P. Fornasiero - corresponding author)

60. F.C. Gennari, C. Neyertz, G. Meyer, **P. Fornasiero**, M. Graziani, "Kinetics of hydrogen chemisorption on high surface area $Pd/Ce_{0.8}Zr_{0.2}O_2$" ***J.All.Compound.*** 404 (2005) 317-322.
Elsevier Science Publishers B.V., Amsterdam. Olanda. Codice ISSN: 0925-8388

IF = 2.134, citazioni = 2 **(P. Fornasiero - corresponding author)**

61. F. Esch, S. Fabris, L. Zhou, T. Montini, C. Africh, **P. Fornasiero**, G. Comelli, R. Rosei, "Electron localization determines defect formation on ceria substrates", ***Science*** 309 (2005) 752-755.
Science/AAAS, Washington, USA. Codice ISSN: 0036-8075
I**F = 31.364, citazioni = 221**

62. F.C. Gennari, T. Montini, N. Hickey, **P. Fornasiero**, and M. Graziani, "Chloride ion induced modification of the interaction of $Ce_{0.6}Zr_{0.4}O_2$ with deuterium." ***Appl.Surf.Sci.*** 252 (2006) 8456-8465.
Elsevier Science Publishers B.V., Amsterdam. Olanda. Codice ISSN: 0169-4332
IF = 1.793, citazioni = 5 (P. Fornasiero - corresponding author)

63. M. Bevilacqua, T. Montini, C. Tavagnacco, G. Vicario, **P. Fornasiero**, M. Graziani, "Influence of synthesis route on morphology and electrical properties of $LaNi_{0.6}Fe_{0.4}O_{3.}$", ***Solid State Ionics***, 177 (2006) 2957-2965.
Elsevier Science Publishers B.V., Amsterdam. Olanda. Codice ISSN: 0167-2738
IF = 2.491, citazioni = 15 (P. Fornasiero - corresponding author)

64. F.C. Gennari, C. Neyertz, G. Meyer, T. Montini, P. Fornasiero, "Hydrogen adsorption kinetics on $Pd/Ce_{0.8}Zr_{0.2}O_2$", ***Phys.Chem.Chem.Phys.*** 8 (2006) 2385-2395.
The Royal Society of Chemistry, Cambridge, Gran Bretagna. Codice ISSN: 1463-
IF = 3.453, citazioni = 2 (P. Fornasiero - corresponding author)

65. P.R. Shah, T. Kim, G. Zhou, P. Fornasiero and R.J. Gorte, "Evidence for entropy effects in the reduction of ceria-zirconia solutions.", ***Chem.Mater***., 18, (2006) 5363-5369.
American Chemical Society, Washington D.C., USA. Codice ISSN: 0897-4756
IF = 6.397, citazioni = 39

66. I. Alessandri, M.A. Bañares, M. Ferroni, L.E. Depero, **P. Fornasiero**, F.C. Gennari, N. Hickey, M.V. Martinez-Huerta and T. Montini, "Structural investigation of $Ce_2Zr_2O_8$ after redox treatments which lead to low temperature reduction.", ***Top.Catal.*** 41 (2006) 35-42.
Plenum Publishing Corporation/ Kluwer Academic Publishers, New York, USA.
IF = 2.359, citazioni = 13 (P. Fornasiero - corresponding author) Codice ISSN: 1022-5528

67. T. Montini, L. De. Rogatis, V. Gombac, **P. Fornasiero** , M. Graziani, "Rh(1%)@$Ce_xZr_{1-x}O_2$-Al_2O_3 nanocomposites: active and stable catalysts for Ethanol Steam Reforming.", ***Appl.Catal.B: Environmental.*** 71 (2007) 125-134.
Elsevier Science Publishers B.V., Amsterdam, Olanda. Codice ISSN: 0926-3373
IF = 4.749, citazioni = 43 (P. Fornasiero - corresponding author)

68. T. Montini, A.M. Condó, N. Hickey, F. Lovey, L. De. Rogatis, **P. Fornasiero** , M. Graziani, "Embedded Rh (1 wt %)@Al_2O_3: Effects of high temperature and prolonged aging under methane partial oxidation conditions.", ***Appl.Catal.B: Environmental.*** 73 (2007) 84-97.
Elsevier Science Publishers B.V., Amsterdam, Olanda. Codice ISSN: 0926-3373
IF = 4.749, citazioni = 22 (P. Fornasiero - corresponding author)

69. N. Hickey, P. Arneodo Larochette, C. Gentilini, L. Sordelli, L. Olivi, S. Polizzi, T. Montini, **P. Fornasiero**, L. Pasquato, and M. Graziani, "Monolayer protected gold nanoparticles on ceria for an efficient CO oxidation catalyst." ***Chem. Mater***. 19, (2007) 650-651.
American Chemical Society, Washington D.C., USA. Codice ISSN: 0897-4756
IF = 6.397, citazioni = 20 (P. Fornasiero - corresponding author)

70. G. Zhou, P.R. Shah, T. Kim, **P. Fornasiero**, and R.J. Gorte, "Oxidation entropies and enthalpies of ceria-zirconia solid solutions.", ***Cat.Today*** 123 (2007) 86-93.
Elsevier Science Publishers B.V., Amsterdam. Olanda. Codice ISSN: 0920-5861
IF = 2.993, citazioni = 22

71. G. Zhou, P.R. Shah, T. Montini, **P. Fornasiero**, and R.J. Gorte, "Oxidation enthalpies for reduction of ceria surfaces.", ***Surface Science*** 601 (2007) 2512.
Elsevier Science Publishers B.V., Amsterdam. Olanda. Codice ISSN: 0039-6028
IF = 2.010, citazioni = 30

72. M. Bevilacqua, T. Montini, C. Tavagnacco, E. Fonda, **P. Fornasiero**, M. Graziani, "Preparation, characterization and electrochemical properties of pure and composite $LaNi_{0.6}Fe_{0.4}O_3$ – based cathodes for IT-SOFC." ***Chem. Mater***. 19 (2007) 5926-5936.
American Chemical Society, Washington D.C., USA. Codice ISSN: 0897-4756
IF = 6.397, citazioni = 16 (P. Fornasiero - corresponding author)

73. M. Bettinelli, V. Dallacasa, D. Falcomer, **P. Fornasiero**, V. Gombac, T. Montini, L. Romanò, A. Speghini, "Photocatalytic activity of B and V doped TiO_2", ***J.Haz. Mater***.146 (2007) 529-534.
Elsevier Science Publishers B.V., Amsterdam. Olanda. Codice ISSN: 0304-3894
IF = 3.723, citazioni = 44 (P. Fornasiero – co-corresponding author)

74. V. Gombac; L. De Rogatis; A. Gasparotto; G. Vicario; T. Montini; D. Barreca; G. Balducci; **P. Fornasiero**, E. Tondello; M. Graziani, "TiO_2 nanopowders doped with boron and nitrogen for photocatalytic applications", ***Chem.Phys***, 339 (2007) 111-123.
Elsevier Science Publishers B.V., Amsterdam. Olanda. Codice ISSN: 0301-0104
IF = 2.017, citazioni = 61 (P. Fornasiero - corresponding author)

75. X. Ding, L. De Rogatis, E. Vesselli, A. Baraldi, G. Comelli, R. Rosei, L. Savio, L. Vattuone, M. Rocca, **P. Fornasiero**, F. Ancilotto, A. Baldereschi, M. Peressi, "Interaction of carbon dioxide with Ni(110): A combined experimental and theoretical study", ***Phys. Rew. B***, 76 (2007) 195425.
American Physical Society, One Physics Ellipse, College PK, USA Codice ISSN: 1098-0121
IF = 3.772, citazioni = 15

76. L. De Rogatis, T. Montini, M.F. Casula, and **P.Fornasiero**, "Design of $Rh@Ce_{0.2}Zr_{0.8}O_2$-Al_2O_3 nanocomposite for ethanol steam reforming,", ***J.All.Compound***., 451 (2008) 516-520.
Elsevier Science Publishers B.V., Amsterdam. Olanda. Codice ISSN: 0925-8388
IF = 2.134, citazioni = 10 (P. Fornasiero - corresponding author)

77. T. Montini, A. Speghini, **P. Fornasiero**, M. Bettinelli, and M. Graziani, **"**Effect of the thermal pretreatments on ceria - zirconia redox properties: an Eu^{3+} luminescence study"***., J.All.Compound***., 451 (2008) 617-620.
Elsevier Science Publishers B.V., Amsterdam. Olanda. Codice ISSN: 0925-8388
IF = 2.134, citazioni = 1

78. M. M. Natile, F. Poletto, A. Galenda, A. Glisenti, T. Montini, L. De Rogatis and **P. Fornasiero**, "$La_{0.6}Sr_{0.4}Co_{1-y}Fe_yO_{3-d}$ perovskites: influence of the Co/Fe atomic ratio on properties and catalytic activity towards alcohol steam-reforming.", ***Chem. Mater*** , 20 (2008) 2314-2327.
American Chemical Society, Washington D.C., USA. Codice ISSN: 0897-4756
IF = 6.397, citazioni = 11 (P. Fornasiero - corresponding author)

79. F. C. Gennari, T. Montini, **P. Fornasiero** and J. J. Andrade Gamboa, "Reduction behavior of nanoparticles of $Ce_{0.8}Zr_{0.2}O_2$ produced by different approaches.", ***Int.J.Hydrogen Energy*** 33 (2008), 3549-3554.
Elsevier Science Publishers B.V., Amsterdam. Olanda. Codice ISSN: 0360-3199
IF = 4.053, citazioni = 7 (P. Fornasiero – co-corresponding author)

80. M. Fittipaldi, V. Gombac, T. Montini, **P. Fornasiero** and M. Graziani, "A high-frequency (95 GHz) Electron Paramagnetic Resonance study of B-doped TiO_2 photocatalysts.", ***Inorg. Chim. Acta*** 361 (2008) 3980-3987.
Elsevier Science Publishers B.V., Amsterdam, Olanda. Codice ISSN: 0020-1693
IF = 1.899, citazioni = 13 (P. Fornasiero - corresponding author)

81. **P. Fornasiero**, T. Montini, M. Graziani, S. Zillio and M. Succi, "Development of functionalized Fe-Al-Cr alloy fibers as innovative catalytic oxidation devices.", ***Cat.Today*** 137 (2008) 475-482.
Elsevier Science Publishers B.V., Amsterdam. Olanda. Codice ISSN: 0920-5861

IF = 2.993, citazioni = 8 (P. Fornasiero – co-corresponding author)

82. M. Rossin, A. Ienco, F. Costantino, T. Montini, B. Di Credico, M. Caporali, L. Gonsalvi, **P. Fornasiero** and M. Peruzzini, "Phase transitions and CO_2 adsorption properties of polymeric magnesium formate.", ***Cryst. Growth Des.*** 8 (2008) 3302-3308.
American Chemical Society, Washington D.C., USA. Codice ISSN: 1528-7483
IF = 4.389, citazioni = 13

83. L. De Rogatis, T. Montini, B. Lorenzut and **P. Fornasiero**, "Ni_xCu_y/Al_2O_3 based catalysts for hydrogen production.", ***Energy Environ. Sci.*** 1 (2008) 501-509.
The Royal Society of Chemistry, Cambridge, Gran Bretagna. Codice ISSN: 1754-5692
IF = 9.446, citazioni = 8 (P. Fornasiero - corresponding author, inner cover page)

84. A. Hameed, T. Montini, V. Gombac, **P. Fornasiero**, "Surface phases and photocatalytic activity correlation of Bi_2O_3/Bi_2O_{4-x} nanocomposite.", ***J.Am.Chem.Soc***. 130 (2008) 9658-9659.
American Chemical Society, Washington D.C., USA. Codice ISSN: 0002-7863
IF = 9.019, citazioni = 43 (P. Fornasiero - corresponding author)

85. E. Vesselli, L. De Rogatis, X-L. Xun-Lei; A. Baraldi, L. Savio, L. Vattuone, M. Rocca, **P**. **Fornasiero**, M. Peressi, A. Baldereschi, R. Rosei, G. Comelli, "Carbon dioxide hydrogenation on Ni(110)", ***J.Am.Chem.Soc***. 130 (2008) 11417-11422.
American Chemical Society, Washington D.C., USA. Codice ISSN: 0002-7863
IF = 9.019, citazioni =17

86. L. De Rogatis, T. Montini, A. Cognigni, L. Olivi and **P. Fornasiero**, "Methane partial oxidation on NiCu-based catalysts.", ***Catal. Today*** 145 (2009) 176-185.
Elsevier Science Publishers B.V., Amsterdam. Olanda. Codice ISSN: 0920-5861
IF = 2.993, citazioni = 8 (P. Fornasiero - corresponding author)

87. A. Hameed, V. Gombac, T. Montini, M Graziani and **P. Fornasiero**, "Synthesis, characterization and photocatalytic activity of NiO-Bi_2O_3 nanocomposites", ***Chem.Phys.Letters*** 472 (2009) 212-216.
Elsevier Science Publishers B.V., Amsterdam. Olanda. Codice ISSN: 0009-2614
IF = 2.280, citazioni = 15 (P. Fornasiero - corresponding author)

88. A. Hameed, T. Montini, V. Gombac and **P. Fornasiero**, "Photocatalytic degradation of dyes on NiO-ZnO nano-composites.", ***Photochem. Photobiol. Sci.*** 8 (2009) 677-682. The Royal Society of Chemistry, Cambridge, Gran Bretagna. Codice ISSN: 1474-905X
IF = 2.378, citazioni = 7 (P. Fornasiero - corresponding author)

89. T. Montini, M. Bevilacqua, E. Fonda, M.F. Casula, S. Lee, C. Tavagnacco, R.J. Gorte, and **P. Fornasiero**, "Relationship between electrical behavior and structural characteristics in Sr-doped $LaNi_{0.6}Fe_{0.4}O_{3-\delta}$ mixed oxides", ***Chem.Mater.*** 21 (2009) 1768-1774.
American Chemical Society, Washington D.C., USA. Codice ISSN: 0897-4756
IF = 6.397, citazioni = 8 (P. Fornasiero - corresponding author)

90. S. Lee, M. Bevilacqua, **P. Fornasiero**, J. M. Vohs and R. J. Gorte, "SOFC cathodes prepared by infiltration of LNF and LSNF in porous YSZ.", ***J.Power Sources*** 193 (2009) 747-753.
Elsevier Science Publishers B.V., Amsterdam. Olanda. Codice ISSN: 0378-7753
IF = 4.283, citazioni = 9

91. A. Sivasamy, K.Y. Cheah, **P. Fornasiero**, F. Kemausuor, S. Zinoviev and S. Miertus, "Catalytic applications in biodiesel production from vegetable oils: a review.", ***ChemSusChem*** 2 (2009) 278-300.
WILEY-VCH Verlag GmbH & Co. KGaA, Weinheim. Codice ISSN: 1864-5631
IF = 6.325, citazioni = 37 (one of the 10 most-downloaded manuscripts from the first 18 issues of ChemSusChem (based on downloads in 2009).

92. D. Barreca, **P. Fornasiero**, A. Gasparotto, V. Gombac, C. Maccato, T. Montini and E. Tondello, "The potential of supported Cu_2O and CuO nanosystems in photocatalytic H_2 production.", ***ChemSusChem*** 2 (2009) 230-233.
WILEY-VCH Verlag GmbH & Co. KGaA, Weinheim. Codice ISSN: 1864-5631
IF = 6.325, citazioni = 23

93. V. Gombac, T. Montini, S. Polizzi, J. J. Delgado, A. Hameed and **P. Fornasiero**, "Photocatalytic production of hydrogen over tailored Cu-embedded TiO_2.", ***Nanoscience and Nanotechnology Letters*** 1 (2009), 128-133.
American Scientific Publishers, Stevenson Ranch, CA, USA Codice ISSN: 1941-4900
IF = n.d., citazioni = 2 (P. Fornasiero - corresponding author)

94. T. Montini, A. Speghini, L. De Rogatis, B. Lorenzut, M. Bettinelli, M. Graziani, and **P. Fornasiero**, "Unraveling the complex nature of $Ce_xZr_{1-x}O_2$ by Eu(III) luminescence studies", ***J.Am.Chem.Soc.*** 131 (2009), 13155-13160.
American Chemical Society, Washington D.C., USA. Codice ISSN: 0002-7863
IF = 9.019, citazioni = 21 (P. Fornasiero – co-corresponding author)

95. A. Gasparotto, D. Barreca, **P. Fornasiero**, V. Gombac, O. I. Lebedev, C. Maccato, T. Montini, E. Tondello, G. Van Tendeloo, E. Comini and G. Sberveglieri, "Multi-functional copper oxide nanosystems for H_2 sustainable production and sensing.", ***ECS Transactions*** 25 (2009), 1169-1176.
The Electrochemical Society.
IF = n.d., citazioni = 6

96. L. De Rogatis, E. Vesselli, A. Baraldi, M. Casula, T. Montini, G. Comelli, M. Graziani, and **P. Fornasiero**, "Charge redistribution at the embedded Rh-alumina interface.", ***J. Phys. Chem. C*** 113 (2009), 18069-18074.
American Chemical Society, Washington D.C., USA. Codice ISSN: 1932-7447
IF = 4.520, citazioni = 0 (P. Fornasiero - corresponding author)

97. A. Hameed, V. Gombac, T. Montini, L. Felisari, and **P. Fornasiero**, "Photocatalytic activity of zinc modified Bi_2O_3.", ***Chem.Phys.Letters*** 483 (2009), 254-261.
Elsevier Science Publishers B.V., Amsterdam. Olanda. Codice ISSN: 0009-2614
IF = 2.280, citazioni = 13 (P. Fornasiero - corresponding author)

98. E. Vesselli, M. Rizzi, L. De Rogatis, X. Ding, A. Baraldi, G. Comelli, L. Savio, L. Vattuone, M. Rocca, P. Fornasiero, A.Baldereschi, and M. Peressi "Heterogeneous catalytic transformation of CO_2 on nickel: the role of formate and carbon monoxide." ***J.Phys.Chem.Lett.*** 1 (2010), 402-406.
American Chemical Society, Washington D.C., USA. Codice ISSN: 1948-7185
IF = n.d., citazioni = 4

99. L. De Rogatis, M. Cargnello, V. Gombac, B. Lorenzut, T. Montini, and **P. Fornasiero** "Embedded active phases: a way to active and stable catalysts" ***ChemSusChem*** 3 (2010), 24-42.
WILEY-VCH Verlag GmbH & Co. KGaA, Weinheim. Codice ISSN: 1864-5631
IF = 6.325, citazioni = 30 (P. Fornasiero - corresponding author)

100. M. Cargnello, N. L. Wieder, T. Montini, R. J. Gorte and **P. Fornasiero**, "Synthesis of dispersible Pd@CeO_2 nanostructures by self-assembly.", ***J.Am.Chem.Soc.*** 132 (2010), 1402-1409.
American Chemical Society, Washington D.C., USA. Codice ISSN: 0002-7863
IF = 9.019, citazioni = 25 (P. Fornasiero – co-corresponding author)

101. S. Specchia, L. D. Vella, B. Lorenzut, T. Montini, V. Specchia, and **P. Fornasiero**, "Effect of the catalyst load on syngas production in short contact time catalytic partial oxidation reactors.", ***Ind.Eng.Chem. Res.*** 49 (2010), 1010-1017.
American Chemical Society, Washington D.C., USA. Codice ISSN: 0888-5885
IF = 2.071, citazioni = 9

102. M. Cargnello, T. Montini, N. Wieder, R.J.Gorte, and **P. Fornasiero**, "Novel embedded Pd@CeO_2 catalysts: A way to active and stable catalysts.", ***Dalton Trans.*** 39 (2010), 2122-2127

The Royal Society of Chemistry, Cambridge, Gran Bretagna. Codice ISSN: 1477-9226
IF = 3.647, citazioni = 9 (P. Fornasiero - corresponding author)

103. V. Gombac, L. Sordelli, T. Montini, J. J. Delgado, A. Adamski, G. Adami, M. Cargnello, S. Bernal, and **P. Fornasiero**, "CuO_x-TiO_2 photocatalysts for H_2 production from ethanol and glycerol solutions.", ***J.Phys. Chem. A*** 114 (2010), 3916-3925.
American Chemical Society, Washington D.C., USA. Codice ISSN: 1089-5639
IF = 2.732, citazioni = 21 (P. Fornasiero - corresponding author)

104. S. Specchia, L. De Rogatis, T. Montini, L.D. Vella, G. Saracco, V. Specchia, and **P. Fornasiero**, "Rh-based catalysts for syngas production via SCT-CPO reactors", ***Catal. Today*** 155 (2010), 101-107.
Elsevier Science Publishers B.V., Amsterdam. Olanda. Codice ISSN: 0920-5861
IF = 2.993, citazioni = 4

105. T. Montini, R. Singh, P. Das, B. Lorenzut, N. Bertero, P. Riello, A. Benedetti, G. Giambastiani, C. Bianchini, S. Zinoviev, S. Miertus, and **P. Fornasiero**, "Renewable H_2 from glycerol steam reforming: effect of La_2O_3 and CeO_2 addition to Pt/Al_2O_3 catalysts.", ***ChemSusChem*** 3 (2010), 619-628.
WILEY-VCH Verlag GmbH & Co. KGaA, Weinheim. Codice ISSN: 1864-5631
IF = 6.325, citazioni = 2 (P. Fornasiero - corresponding author)

106. S. Zinoviev, F. Muller-Langer, P. Das, N. Bertero, **P. Fornasiero**, M. Kaltschmitt, G. Centi, S. Miertus, "Next-Generation Biofuels: Survey of Emerging Technologies and Sustainability Issues.", ***ChemSusChem*** 3 (2010), 1106-1133.
WILEY-VCH Verlag GmbH & Co. KGaA, Weinheim. Codice ISSN: 1864-5631
IF = 6.325, citazioni = 14 (cover page)

107. M. Cargnello, C. Gentilini, T. Montini, E. Fonda, S. Mehraeen, N.D. Browning, S. Polizzi, L. Pasquato, and **P. Fornasiero**, "Active and stable embedded $Au@CeO_2$ catalysts for preferential oxidation of CO.", ***Chem.Mater.*** 22 (2010), 4335-4345.
American Chemical Society, Washington D.C., USA. Codice ISSN: 0897-4756
IF = 6.397, citazioni = 8 (P. Fornasiero – co-corresponding author)

108. D. Barreca, **P. Fornasiero**, A. Gasparotto, V. Gombac, C. Maccato, A. Pozza and E. Tondello, "CVD Co_3O_4 nanopyramids: a nano-platform for the photo-assisted H_2 production.", ***Chemical Vapor Deposition*** 16 (2010), 296-300
WILEY-VCH Verlag GmbH & Co. KGaA, Weinheim. Codice ISSN: 0948-1907
IF = 1.804, citazioni = 5 (P. Fornasiero – co-corresponding author)

109. T. Montini, V. Gombac, A. Hameed, L. Felisari, G. Adami and P. Fornasiero, "Synthesis, characterization and photocatalytic performance of transition metal tungstates.", ***Chemical Physics Letters*** 498 (2010), 113-119
Elsevier Science Publishers B.V., Amsterdam. Olanda. Codice ISSN: 0009-2614
IF = 2.280, citazioni = 5 (P. Fornasiero - corresponding author)

110. B. Lorenzut, T. Montini, C. Pavel, M. Comotti, F. Vizza, C. Bianchini, and **P. Fornasiero**, " Embedded $Ru@ZrO_2$ catalysts for H_2 production by ammonia decomposition..", ***Chem.Cat.Chem.*** 2 (2010), 1096-1106
WILEY-VCH Verlag GmbH & Co. KGaA, Weinheim. Codice ISSN: 1867-3880
IF = 3.345, citazioni = 6 (Most Accessed Journal 10/2010–9/2011)

111. B. Lorenzut, T. Montini, L. De Rogatis, and **P. Fornasiero**, "Hydrogen production through alcohol steam reforming on Cu/ZnO-based catalysts.", ***Appl.Catal.B: Environmental.*** 101 (2011), 397-408.
Elsevier Science Publishers B.V., Amsterdam, Olanda. Codice ISSN: 0926-3373
IF = 4.749, citazioni = 2 (P. Fornasiero - corresponding author)

112. N. L. Wieder, M. Cargnello, K. Bakhmutsky, T. Montini, **P. Fornasiero,** and R. J. Gorte, "A study of the water-gas-shift reaction over $Pd@CeO_2/Al_2O_3$ core-shell catalysts.", ***J. Phys.Chem. C.*** 115 (2011), 915-919.
American Chemical Society, Washington D.C., USA. Codice ISSN: 1932-7447
IF = 4.520, citazioni = 7 (P. Fornasiero – co-corresponding author)

113. T. Montini, V. Gombac, L. Sordelli, J. J. Delgado, X. Chen, G. Adami and **P. Fornasiero**, "Nanostructured Cu/TiO_2 photocatalysts for H_2 production from ethanol and glycerol aqueous solutions.", ***ChemCatChem*** 3 (2011), 574-577.
WILEY-VCH Verlag GmbH & Co. KGaA, Weinheim. Codice ISSN: 1867-3880
IF = 3.345, citazioni = 3 (P. Fornasiero – corresponding author)

114. M. Fittipaldi, V. Gombac, A. Gasparotto, C. Deiana, G. Adami, D. Barreca, T. Montini, G. Martra, D. Gatteschi and **P. Fornasiero**, "Synergistic Role of B and F Dopants in Promoting the Photocatalytic Activity of Rutile TiO_2.", ***ChemPhysChem*** 12 (2011), 2221-2224.
WILEY-VCH Verlag GmbH & Co. KGaA, Weinheim. Codice ISSN: 1439-4235
IF = 3.339, citazioni = 0 (P. Fornasiero – corresponding author)

115. L. D. Vella, T. Montini, S. Specchia, and **P. Fornasiero**, "Fixed beds of Rh/Al_2O_3-based catalysts for syngas production in methane SCT-CPO reactors.", ***Int. J. Hydrogen Energy*** 36 (2011) 7776-7784.
Elsevier Science Publishers B.V., Amsterdam. Olanda. Codice ISSN: 0360-3199
IF = 4.053, citazioni = 0

116. G. Giambastiani, S. Cicchi, M. Zoppi, A. Giannasi, L. Luconi, A. Rossin, C. Bianchini, F. Mercuri, A. Brandi, M. Melucci, G. Ghini, P. Stagnaro, L. Conzatti, E. Passaglia, T. Montini, and **P. Fornasiero**, "Functionalization of multiwalled carbon nanotubes with cyclic nitrones for materials and composites: addressing the role of CNT sidewall defects.", ***Chem. Mater.*** 23 (2011) 1923-1938.
American Chemical Society, Washington D.C., USA. Codice ISSN: 0897-4756
IF = 6.397, citazioni = 1 (cover page article)

117. J.-S. Kim, N. L. Wieder, A. J. Abraham, M. Cargnello, **P. Fornasiero**, R. J. Gorte, and J. M. Vohs, "Highly active and thermally stable core-shell catalysts for solid oxide fuel cells.", ***J. Electrochem. Soc.*** 158 (2011) B596-B600.
The Electrochemical Society, Pennington, USA Codice ISSN: 0013-4651
IF = 2.420, citazioni = 2

118. D. Barreca, G. Carraro, V. Gombac, A. Gasparotto, C. Maccato, **P. Fornasiero**, and E. Tondello, "Supported metal oxide nanosystems for H_2 photo-generation: quo vadis?", ***Advanced Functional Materials*** 21 (2011), 2611-2623.
WILEY-VCH Verlag GmbH & Co. KGaA, Weinheim. Codice ISSN: 1616-3028
IF = 8.486, citazioni = 3 (P. Fornasiero – co-corresponding author)

119. F. C. Gennari, A. C. Ramos, A. Condó, T. Montini, S. Bengió, A. Cortesi, J. J. Andrade-Gamboa, and **P. Fornasiero**, "Hydrogen interaction with $Pd/Ce_{0.8}Zr_{0.2}O_2$ nanocomposites prepared by microemulsion, coprecipitation and supercritical CO_2 treatment.", ***Applied Catalysis A: General*** 398 (2011), 123-133.
Elsevier Science Publishers B.V., Amsterdam. Olanda. Codice ISSN: 0926-860X
IF = 3.383, citazioni =0

120. A. Adamski, M. Tarach, **P. Fornasiero,** and Z. Sojka, "NO interaction with bare and transition-metal-ions-doped zirconia.", ***Catal.Today*** 176 (2011), 281-285.
Elsevier Science Publishers B.V., Amsterdam. Olanda. Codice ISSN: 0920-5861
IF = 2.993, citazioni = 0

121. M. Cargnello, A. Gasparotto, V. Gombac, T. Montini, D. Barreca and P. Fornasiero, "Photocatalytic H_2 and added-value byproducts: the role of metal oxide systems in their synthesis from liquid oxygenates.", ***European Journal of Inorganic Chemistr*****y** 2011 (2011), 4309-4323.
WILEY-VCH Verlag GmbH & Co. KGaA, Weinheim. Codice ISSN: 1099-0682
IF = 2.909, citazioni = 1 (P. Fornasiero – co-corresponding author, Cover Page Article)

122. M. Cargnello, N. L. Wieder, P. Canton, T. Montini, G. Giambastiani, A. Benedetti, R. J. Gorte and **P. Fornasiero**, "A Versatile Approach to the Synthesis of Functionalized Thiol-protected Palladium Nanoparticles.", 23 ***Chem. Mater.*** (2011) 3961-3969.

American Chemical Society, Washington D.C., USA. Codice ISSN: 0897-4756
IF = 6.397, citazioni = 1(P. Fornasiero – corresponding author)

123. Q. Simon, D. Barreca, D. Bekermann, A. Gasparotto, C. Maccato, E. Comini, V. Gombac, **P. Fornasiero**, O.I. Lebedev, S. Turner, A. Devi, R.A. Fischer, G. Van Tendeloo, "Plasma-assisted synthesis of Ag/ZnO nanocomposites: first example of photo-induced H_2 production and sensing.", ***Int. J. Hydrogen Energ***. 36 (2011) 15527 - 15537.
Elsevier Science Publishers B.V., Amsterdam. Olanda. Codice ISSN: 0360-3199
IF = 4.053, citazioni = 7

124. A. Gasparotto, D.Barreca, D.Bekermann, A. Devi, R.A. Fischer, **P. Fornasiero,** V**.** Gombac, O.I. Lebedev, C. Maccato, T. Montini, G. Van Tendeloo, E. Tondello, " F-Doped Co_3O_4 Photocatalysts for Sustainable H_2 Generation from Water/Ethanol.", ***J. Am. Chem. Soc***. 133 (2011) 19362-19365.
American Chemical Society, Washington D.C., USA. Codice ISSN: 0002-7863
IF = 9.019, citazioni = 0

125. I.A**.**Carbajal Ramos, T. Montini, B. Lorenzut, H. Troiani, F. C. Gennari, M. Graziani and **P. Fornasiero**, "Hydrogen production from ethanol steam reforming on M/CeO_2@/YSZ (M = Ru, Pd, Ag) nanocomposites.", ***Catal. Today*** 180 (2012) 96-104.
Elsevier Science Publishers B.V., Amsterdam. Olanda. Codice ISSN: 0920-5861
IF = 2.993, citazioni = 0 (P. Fornasiero – corresponding author)

126. C. Bianchini, **P. Fornasiero**, "A Synthetic Nickel Electrocatalyst with Turnover Frequency Above 100,000 s^{-1} for H_2 Production.", ***ChemCatChem*** 4 (2012) 45-46.
WILEY-VCH Verlag GmbH & Co. KGaA, Weinheim. Codice ISSN: 1867-3880
IF = 3.345, citazioni = 0 (P. Fornasiero – corresponding author, invited highlight paper)

127. A. Gallo, M. Marelli, R. Psaro, V. Gombac, T. Montini, **P. Fornasiero**, R. Pievo, V. Dal Santo, "Bimetallic Au-Pt/TiO_2 photocatalysts active under UV-A and simulated sunlight for H_2 production from ethanol.", ***Green Chem***. 14 (2012) 330-334.
The Royal Society of Chemistry, Cambridge, Gran Bretagna.
IF = 5.472, citazioni = 0

128. V. Khlebnikov, A. Meduri, H. Mueller-Bunz, T. Montini, **P. Fornasiero**, E. Zangrando, B. Milani, M. Albrecht, "Palladium carbene complexes for selective alkene di- and oligomerization.", ***Organometallics*** 31 (2012) 976-986.
American Chemical Society, Washington D.C., USA. Codice ISSN: 0276-7333
IF = 3.888, citazioni = 0

129. K. Bakhmutsky, N.L. Wieder, M. Cargnello, B. Galloway, **P. Fornasiero**, R.J. Gorte, "A versatile route to core-shell catalysts: synthesis of dispersible M@oxide (M = Pd, Pt; oxide = TiO_2, ZrO_2) nanostructures by self-assembly.", ***ChemSusChem*** 5 (2012) 140
WILEY-VCH Verlag GmbH & Co. KGaA, Weinheim. Codice ISSN: 1864-5631
IF = 6.325, citazioni = 0

130. M. Grzelczak,.S.A. Mezzasalma, W. Ni, Y Herasimenka, L. Feruglio, T. Montini, J. Perez-Juste, **P. Fornasiero**, M. Prato, L.M. Liz-Marzán, "Antibonding plasmon modes in colloidal gold nanorod clusters.", ***Langmuir*** 28 (2012) 8826
American Chemical Society, Washington D.C., USA. Codice ISSN: 0743-7463
IF = 4.269, citazioni = 0

131. B. Lorenzut, T. Montini, M. Bevilacqua, **P. Fornasiero,** "FeMo-based catalysts for H_2 production by NH_3 decomposition", ***Appl. Catal. B-Environ***., 125 (2012) 409
Elsevier Science Publishers B.V., Amsterdam, Olanda. Codice ISSN: 0926-3373
IF = 4.749, citazioni = 0

132. T.R. Gordon, M. Cargnello, T. Paik, F. Mangolini, R.T. Weber, **P. Fornasiero**, C.B. Murray, "Nonaqueous Synthesis of TiO_2 nanocrystals Using TiF_4 to Engineer Morphology, Oxygen Vacancy Concentration, and Photocatalytic Activity.", **J. Am. Chem. Soc**. 134 (2012) 6751
American Chemical Society, Washington D.C., USA. Codice ISSN: 0002-7863
IF = 9.019, citazioni = 0

133. M. Cargnello, M. Grzelczak, B. Rodríguez-González, Z. Syrgiannis, K. Bakhmutsky, V. La Parola, L. Liz-Marzán, R.J. Gorte, M. Prato, **P. Fornasiero**, "Multi-Walled Carbon Nanotubes drive the activity of metal@oxide core-shell catalysts in modular nanocomposites", ***J. Am. Chem. Soc.***, 134 (2012) 11760,
American Chemical Society, Washington D.C., USA. Codice ISSN: 0002-7863
IF = 9.019, citazioni = 0 **(P. Fornasiero – co-corresponding author,** highlighted in Spotlights on Recent JACS Publications.)

134. M. Cargnello, **P. Fornasiero**, R.J. Gorte, "Opportunities for tailoring catalytic properties through metal-support interactions", ***Catal. Lett***., 142 (2012) 1043
J.C.Baltzer AG, Science Publishers, Amsterdam, Olanda. Codice ISSN: 1011-372X
IF = 1.907, citazioni = 0

135. V. Bambagioni, C. Bianchini, Y. Chen, J. Filippi, **P**. **Fornasiero, M.** Innocenti, A. Lavacchi, A. Marchionni, W. Oberhauser, F. Vizza, "Energy Efficiency Enhancement of Ethanol Electrooxidation on Pd-(CeO_2)/C in Passive and Active Polymer Electrolyte-Membrane Fuel Cells.", ***ChemSusChem*** 5 (2012) 1266.
WILEY-VCH Verlag GmbH & Co. KGaA, Weinheim. Codice ISSN: 1864-5631
IF = 6.325, citazioni = 0

136. Y.X. Chen, A. Lavacchi, S.P. Chen, F. di Benedetto, M. Bevilacqua, C. Bianchini, **P. Fornasiero,** M. Innocenti, M. Marelli, W. Oberhauser, S.G. Sun, F. Vizza "Electrochemical Milling and Faceting (ECMF): a New Method for Size Reduction and Catalytic Activation of Palladium Nanoparticles", ***Angew. Chem. Int. Ed***., 51 (2012) 8500
WILEY-VCH Verlag GmbH & Co. KGaA, Weinheim. Codice ISSN: 1433-7851
IF = 13.445, citazioni = 0

137. S. Quentin, D. Barreca, A. Gasparotto, C. Maccato, T. Montini, V. Gombac, **P. Fornasiero**, O.I. Lebedev, S. Turner, G. Van Tendelo, "Vertically oriented CuO/ZnO nanorod arrays: from plasma-assisted synthesis to photocatalytic H_2 Production.", ***J. Mater. Chem***. 22 (2012), 11739,
The Royal Society of Chemistry, Cambridge, Gran Bretagna. Codice ISSN: 0959-9428
IF = 5.968, citazioni = 0

138. M. Cargnello, J.J. Delgado Jaén, J.C. Hernández Garrido, K. Bakhmutsky, T. Montini, J.J. Calvino Gámez, R.J. Gorte, **P. Fornasiero**, "Exceptional Activity for Methane Combustion over Modular Pd@CeO_2 Subunits on Functionalized Al_2O_3.", ***Science*** 337 (2012) 713.
Science/AAAS, Washington, USA. Codice ISSN: 0036-8075
IF = 31.364, citazioni = 1 (P. Fornasiero – corresponding author, highlighted in Science.)

139. A. Gallo, T. Montini, M. Marelli, A. Minguzzi, V. Gombac, R. Psaro, **P. Fornasiero**, V. Dal Santo, "H_2 production by renewables photoreforming on Pt-Au/TiO_2 catalysts activated by reduction.", ***ChemSusChem*** 5 (2012) in press, , doi:10.1002/cssc.201200085.
WILEY-VCH Verlag GmbH & Co. KGaA, Weinheim. Codice ISSN: 1864-5631
IF = 6.325, citazioni = 0

140. M. Fittipaldi, D. Gatteschi, **P. Fornasiero**, P. "The power of EPR techniques in revealing active sites in heterogeneous photocatalysis: the case of anion doped TiO_2.", ***Catal. Today*** 2012, in press, doi:10.1016/j.cattod.2012.04.024.

Book chapter

J. Kašpar, M. Graziani, and **P. Fornasiero**, "Ceria-Containing Three Way Catalysts", in "***Handbook on the Physics and Chemistry of Rare Earths***", K.A. Gschneidner, Jr. and L. Eyring, eds, Elsevier Science B.V., Amsterdam, Olanda, vol. 29, ch. 184, pp. 159-267 (2000).

J. Kašpar and **P. Fornasiero**, "Structural properties and thermal stability of ceria-zirconia and related materials", in " ***Catalysis by Ceria and Related Materials***", A.Trovarelli, ed., in "Catalytic Science Series" (G.J. Hutchkings, ed.), Imperial College Press, London, (UK), ch.6, pp.217-241, (2002).

N. Hickey, **P. Fornasiero** and M. Graziani, "Hydrogen based technologies for mobile applications", in ***Renewable Resources and Renewable Energy: A Global Challenge***, M. Graziani and P. Fornasiero Eds, Taylor & Francis, New York, ch. 11 pp. 225-272 (2006).

P. Fornasiero, "Catalysis for the protection of environment and quality of life.", in 6.190. Catalysis., Chemical sciences, engeeniring, and technology resources, edited by Gabriele Centi, in ***Encyclopedia of Life Support Systems*** (EOLSS), Developed under the Auspices of the UNESCO, Eolss Publishers, Oxford (UK). 2009 (http://www.eolss.net/)

P. Fornasiero, T. Montini and L. De Rogatis, "Catalyst design for hydrogen production: embedded rhodium nanoparticles", in ***Diffusion and Reactivity of Solids***, Nova Publisher,New York pp. 69-113, (2007).

L. De Rogatis, T. Montini, V. Gombac, M. Cargnello and **P. Fornasiero**, "Stabilized metal nanoparticles embedded into porous oxides: a challenging approach for robust catalysts.", in ***Nanorods, Nanotubes and Nanomaterials Research*** **Progress** (2008), Wesley V. Prescott and Arnold I. Schwartz Editors, Nova Science Publishers, New York, pp. 71-123 (2008).

L. De Rogatis and **P. Fornasiero** "Catalysts design for reforming of oxygenates", in ***Catalysis for Sustainable Energy Production***, C. Bianchini and P. Barbaro Eds, Wiley-VCH, New York, pp. 173-233, 2009.

L. De Rogatis and **P. Fornasiero**, "Hydrogen based technologies for mobile applications", in ***Renewable Resources and Renewable Energy: A Global Challenge: Second Edition***, P. Fornasiero and M. Graziani Eds, Taylor & Francis, New York, ch. 10 pp 245-290 (2011).

S Specchia, L. Di Vella, T. Montini and **P. Fornasiero**, "Syngas production by short contact time catalytic partial oxidation of methane", in ***Hydrogen Production: Prospects and Processes***, Nova Publisher, New York, pp. 95-139 (2012).

M. Cargnello and **P. Fornasiero,** "Photocatalysis by nanostructured TiO_2 based semiconductors.", in ***Handbook of Green Chemistry, Green Nanoscience***, M. Selva and A. Perosa Eds. Wiley-VCH Verlag GmbH & Co. KGaA, Weinheim, pp 89-136 (2012).

Patents

1.a) P. Deplano, M.L. Mercuri, E.F. Trogu, A. Serpe, **P. Fornasiero**, M. Graziani, "Metodo per il recupero del Palladio", Brevetto n° PD2004A000096
1.b) "Method for Palladium recovery" PCT/EP2005/051607, WO2005/100621.

2.a) P. Bert, C. Bianchini, **P. Fornasiero**, M. Graziani, T. Montini, R. Psaro, V. Del Santo, A. Tampucci, F. Vizza, "Uso di catalizzatori metallici nanostrutturati per la produzione di gas di sintesi e miscele gassose ricche in H_2." n° FI2004A0000220.
2.b) "Use of nanostructured metal catalysts for the production of syn gas and gas misture reach in H_2."

PCT/EP2005/054619, WO 2006/045673.

3.a) P. Bert, S. Catanorchi, **P. Fornasiero**, M. Graziani, B. Lorenzut, H. Miller, T. Montini, M. Ragnoli, A. Scaffidi, A. Tampucci, “Catalizzatori per la produzione di gas di sintesi da reforming di idrocarburi o alcoli comprendenti un supporto in ZnO e loro uso.”, Italian Patent FI2007A0000179.
3.b) “Catalysts supported on ZnO for syn-gas production by alcohols reforming and their use.”, PCT/EP2008/059937. WO/2009/016177.