

---

## REFERENCES

- A. Bueno-López, “Diesel soot combustion ceria catalysts,” *Applied Catalysis B: Environmental*, **146** (2014) 1-11.
- A. Civera, G. Negro, S. Specchia, G. Saracco and V. Specchia, “Optimal compositional and structural design of a LaMnO<sub>3</sub>/ZrO<sub>2</sub>/Pd based catalyst for methane combustion,” *Catalysis Today* **(1)100**, (2005) 275-281.
- A. Kulkarni, B.P. Rathore, S. Mahajan and P. Mathu, “Alarming retreat of Parbati Glacier, Beas Basin, Himachal Pradesh,” *Current Science*, **88**(2005)1844-1850.
- A. Messerer, R. Niessner and U. Poschl, “Comprehensive kinetic characterization of the oxidation and gasification of model and real diesel soot by nitrogen oxides and oxygen under engine exhaust conditions: Measurement, Langmuir-Hinshelwood, and Arrhenius parameters,” *Carbon*, **44** (2006) 307-324.
- A. Mishra and R. Prasad, “Preparation and Application of Perovskite Catalysts for Diesel Soot Emissions Control: An Overview,” *Catalysis Review: Science and Engineering*, **56(1)** (2014) 57-81.
- A. Mishra and R. Prasad, “Development of highly efficient double substituted perovskite catalysts for abatement of diesel soot emissions,” *Clean Technology Environmental Policy*, **17** (2015)2337-2347.
- A. Resitoglu, K. Altinisik and A. Keskin, “The pollutant emissions from diesel-engine vehicles and exhaust after treatment systems,” *Clean Technology Environmental Policy* **17**(2015)15-27.

- 
- A. Setiabudi, J. Chen, G. Mul, M. Makke and J.A. Moulijn, "CeO<sub>2</sub> catalysed soot oxidation: The role of active oxygen to accelerate the oxidation conversion," *Applied Catalysis:B*, **51** (2004) 9-19.
- A. Trovarelli, C. de Leitenburg, M. Boaro and G. Dolcetti, "The utilization of ceria in industrial catalysis," *Catalysis Today* **50** (1999)353-367.
- A.F. Ahlstrom and C.U.I. Odenbrand, "Combustion characteristics of soot deposits from diesel engines," *Carbon*, **27** (1989) 475-483.
- A.G. Konstandopoulos and E. Papaioannou, "Update on the Science and Technology of Diesel Particulate Filters," *KONA Powder and Particle Journal*, **26** (2008) 36-65.
- A.M. Stamatelos, "A review of the effect of particulate traps on the efficiency of vehicle diesel engines," *Energy Comers Mgmt*, **38**(1997)83-99.
- A.P. Walker, "Controlling particulate emissions from diesel vehicles: A Review," *Topics in Catalysis*, **28** (2004)165-170.
- A.S. Ansari and S.N. Pandis, "Water Absorption by secondary organic aerosol and its effect on inorganic aerosol behaviour," *Environmental Science & Technology*, **34** (2000)71-77.
- A.Vaccari, "Preparation and catalytic properties of cationic and anionic clays," *Catalysis Today* **41** (1998)53-71.
- A. Z. Abdullah, H. Abdullah and S. Bhatia, "Improvement of loose contact diesel soot oxidation by synergic effects between metal oxides in K<sub>2</sub>O-V<sub>2</sub>O<sub>5</sub>/ZSM-5 catalysts,"*Catalysis Communications*, **9**(2008)1196-1200.
- B. Albrecht, "Aerosols, Cloud microphysics, and fractional cloudiness," *Science*, **245**, (1989)1227-1239.

- 
- B. Dernaika and D. Uner, "A simplified approach to determine the activation energies of uncatalyzed and catalyzed combustion of soot," *Applied Catalysis: B*, **40** (2003) 219-229.
- B. Manoj, S. Sreelakshmi, A.N. Mohan, A.G. Kunjomana, "Characterization of Diesel Soot from the Combustion in Engine by X-ray and Spectroscopic techniques," *International Journal of Electrochemical Science*, **7** (2012)3215 -3221.
- B. Seyfi, M. Baghalha and H. Kazemian, "Modified LaCoO<sub>3</sub> nano-perovskite catalysts for the environmental application of automotive CO oxidation," *Chemical Engineering Journal*, **148** (2) (2009) 306-311.
- B. Ura, J. Trawczynski, A. Kotarba, W. Bieniasz M.J., Illan-Gomez A. Bueno- Lopez and F.E. Lopez-Suarez, "Effect of potassium addition on catalytic activity of SrTiO<sub>3</sub> catalyst for diesel soot combustion," *Applied Catalysis B: Environmental*, **101** (2011)169-175.
- B. Ura, J. Trawczynski, M. Zawadzki, M.J. Illan Gomez, A. Bueno Lopez and F.E. Lopez Suarez, "Sr<sub>1-x</sub>K<sub>x</sub>TiO<sub>3</sub> catalysts for diesel soot combustion," *Catalysis Today*, **176** (2011) 169-172.
- B. Van Setten, M. Makkee and J.A. Moulijn, "Science and technology of catalytic diesel particulate filters", *Catalysis Reviews*, **43**(2001)489-564.
- B. Zhao, R. Wang and X. Yang, "Simultaneous catalytic removal of NO<sub>x</sub> and diesel soot particulates over La<sub>1-x</sub>Ce<sub>x</sub>NiO<sub>3</sub> perovskite oxide catalysts," *Catalysis Communications*, **10** (2009)1029-1033.
- B.A.A.L. Van Setten, J.M. Schouten, M. Makkee and J.A. Moulijn, "Realistic contact for soot with an oxidation catalyst for laboratory studies," *Applied Catalysis: B*, **28** (2000) 253-257.

- 
- C. Badini, G. Saracco, V. Serra and V. Specchia, "Suitability of some promising soot combustion catalysts for application in diesel exhaust treatment," *Applied Catalysis B: Environmental*, **18**(1998)137-150.
- C. Harris, Daniel, "24. Gas Chromatography". Quantitative chemical analysis (Chapter) (Fifth ed.). W. H. Freeman and Company (1999) 675-712. *ISBN 0-7167-2881-8*.
- C. Papageorgiou, G.I. Athanasopoulos, T. Kyratsi and J. Giapintzakis, "Influence of processing conditions on the thermoelectric properties of  $\text{La}_{1-x}\text{Sr}_x\text{CoO}_3$  ( $x=0, 0.05$ )," *AIP Conference Proceedings*, **1449** (2012) 323-326.
- C. Wang Lu, Y. Liu, M. Chen, Y. Cao, H. Yong, G. Wu, W. Dai and K. Fan, "Production of Hydrogen by steam reforming of methanol over Cu/ZnO catalysts prepared via a practical soft reactive grinding route based on dry oxalate precursor synthesis," *Journal of Catalysis*, **246** (1) (2007) 193-204.
- C.A. Davis, "Annual Progress Report Water Quality, Air Quality and Forest Health- Research, Monitoring, and Modeling," University of California (2000).
- C.A. Pope, R.T. Burnett, M.J. Thun, E.E. Calle, D. Krewski, I. Kaz and G.D., Thurston, "Lung cancer, cardiopulmonary mortality, and long term exposure to fine particulate air pollution", *Journal of the american medical association*, **287**(2002) 1132-1141.
- California Air Resource Board Diesel PM Control Technologies  
<http://www.arb.ca.gov/diesel/documents/rrpapp9.PDF> (2000).
- California Air Resource Board Staff Report, <http://www.arb.ca.gov/regact/2010/res2010/res10isor.pdf> (2002).
- D. B. Kittelson, "Engines and nanoparticles: a review", *Journal of Aerosol Science*, **29** (1998)575-588.

- 
- D. Fino, N. Russo, E. Cauda, G. Saracco, V. Specchia, "La-Li-Cr perovskite catalysts for diesel particulate combustion," *Catalysis Today*, **114** (2006) 31-39.(a)
- D. Fino, N. Russo, G. Saracco and V. Specchia, "Catalytic removal of NO<sub>x</sub> and diesel soot over nanostructured spinel-type oxides," *Journal of Catalysis*, **242** (2006) 38-47.(b)
- D. Fino, N. Russo, G. Saracco and V. Specchia, "Removal of NO<sub>x</sub> and diesel soot over catalytic traps based on spinel-type oxides," *Powder Technology*, **180** (2008) 74-78.
- D. Fino, N. Russo, G. Saracco and V. Specchia, "The role of suprafacial oxygen in some perovskites for the catalytic combustion of soot," *Journal of Catalysis*, **217** (2003) 367-375.(a)
- D. Fino, P. Fino, G. Saracco and V. Specchia, "Studies on kinetics and reactions Mechanism of La<sub>2-x</sub>K<sub>x</sub>Cu<sub>1-y</sub>V<sub>y</sub>O<sub>4</sub> layered perovskites for the combined removal of diesel particulate and No<sub>x</sub>," *Applied Catalysis: B*, **43**(2003) 243-259.(b)
- D. M. Roessler, F. R. Faxvog, R. Stevenson, and G. W. Smith, "Optical Properties and Morphology of Particulate Carbon: Variation with Air/Fuel Ratio, in Particulate Carbon - Formation during Combustion," (eds.) D. Sieglä and G. W. Smith, Plenum Press, (1981)57-89.
- D. Sonar, S. L. Soni, D. Sharma, A. Srivastava and R. Goyal, "Performance and emission characteristics of a diesel engine with varying injection pressure and fuelled with raw mahua oil (preheated and blends) and mahua oil methyl ester," *Clean Technology Environmental Policy*, **17** (2014) 1499-1511.
- D. V. Cesar, C.A. Perez, M. Schmal and V.M.M. Salim, "Quantitative XPS analysis of silica-supported Cu-Co oxides," *Applied Surface Science*, **157**(3) (2000) 159-166.
- D. Xiaoping, Y. Changchun, L. Ranjia, W. Qiong, S. Kaijiao and H. Zhengping, "Effect of calcination temperature and reaction conditions on methane partial
-

- 
- oxidation using lanthanum-based perovskite as oxygen donor,” *Journal of rare earths* **26** (2008) 341-346.
- D.A. Grantz, J.H.B. Garner and D.W. Johnson, “Ecological effects of particulate matter,” *Environment International*, **29** (2003)213-239.
- D.A. Morris and H.B., “Calvin Heterogeneous Catalyst Deactivation and Regeneration: A Review” *Catalysts*, **5(1)** (2015)145-269.
- D.B. Kittelson, “Engines and nanoparticles: A review,” *Journal of Aerosol Science*, **29** (1998) 575-588.
- D.G. Klissursski and E.L. Uzunova, “Synthesis of high dispersity  $\text{CuCo}_2\text{O}_4$  from a coprecipitated hydroxide carbonate,” *Journal of Materials Science Letters*, **9** (1990) 1255-1258.
- D.L. Roberts and A. Jones, “Climate sensitivity to black carbon aerosol from fossil fuel combustion,” *Journal of Geophysical Research*, **109**(2004) D16202.
- D.L. Trimm, in C. Kemball and D.A. Dowden, (Eds.), *Catalysis*, The Royal Society of Chemistry, London, 4 (1981).
- E. Campagnoli, A. Tavares, L. Fabbrini, I. Rossetti, Y.A. Dubitsky, A. Zaopo and L. Forni, “Effect of preparation method on activity and stability of  $\text{LaMnO}_3$  and  $\text{LaCoO}_3$  catalysts for the flameless combustion of methane,” *Applied Catalysis B: Environmental*, **55**, (2005) 133-139.
- E. D. Banús, M.A. Ulla, E. E. Miró and V. G. Milt, “Structured Catalysts for Soot Combustion for Diesel Engines,” in:Bari, S. (Ed.), *Diesel Engine - Combustion, Emissions and Condition Monitoring*, (2013)117-142.
- E. Illekova and K. Csomorova, “Kinetics of oxidation in various forms of carbon,” *Journal of Thermal Analysis and Calorimetry*, **80** (2005) 103-108.

- 
- E. Mandelovici, R. Villalba and A. Sagarzazu, "A distinctive mechanochemical transformation of manganosite into manganite by mortar dry grinding," *Materials Research Bulletin*, **29(2)** (1994) 167-174.
- E.A. Lombardo and M.A. Ulla, "Perovskite oxides in catalysis: past, present and future," *Research on Chemical Intermediates*, **24(5)** (1998) 581-591.
- E.K. Miller, J.A. Panek, A.J. Friedland, J.A. Kadlecck, and V.A. Mohnen, "Atmospheric deposition to a high-elevation forest at white face mountain," *New York, USA Tellus B* **45** (1993)209-227.
- F. Dai, M. Meng, Y. Zha, Z. Li, T. Hu, Y. Xie and J. Zhang, "Performance of Ce substituted hydrotalcite-derived mixed oxide catalysts  $\text{Co}_{2.5}\text{Mg}_{0.5}\text{Al}_{1-x}\text{Ce}_x\text{O}$  used for soot combustion and simultaneous  $\text{NO}_x$ -soot removal," *Fuel Processing Technology*, **104** (2012)43-49.
- F. Lin, X. Wu, S. Liu, D. Weng and Y. Huang, "Preparation of  $\text{MnO}_x\text{-CeO}_2\text{-Al}_2\text{O}_3$  mixed oxides for  $\text{NO}_x$ -assisted soot oxidation: Activity, structure and thermal stability," *Chemical Engineering Journal*, **226** (2013)105-112.
- F. Lopez-Surez, E. Parres-Esclapez, S.A. Bueno-Lopez, M.J. Illan-Gomez, B. Ura and J. Trawczynski, "Role of surface and lattice copper species in copper-containing (Mg/Sr)TiO<sub>3</sub> perovskite catalysts for soot combustion," *Applied Catalysis B: Environmental*, **93** (2009) 82-89.
- F. Patel and S. Patel, "recent trends in catalyst development for diesel engine exhaust emission control," *Journal of Environmental Research and Development*, **6(4)** (2012)1047-1054.
- F. Severino, J.L. Brito, J. J.L.G. LaineFierro and A. Lopez Agudo, "Nature of Copper Active Sites in the Carbon Monoxide Oxidation on  $\text{CuAl}_2\text{O}_4$  and  $\text{CuCr}_2\text{O}_4$  Spinel Type Catalysts," *Journal of Catalysis*, **177(1)** (1998) 82-95.

- 
- G. Neri, L. Bonaccorsi, A. Donato, C. Milone, M.G. Musolino and A.M. Visco, "Catalytic combustion of diesel soot over metal oxide catalysts," *Applied Catalysis B: Environmental*, **11** (1997) 217-231.
- G. Oberdorster, G. Sharp, Z. Atudorei, V. Elder, A. Gelein, R. Kreyling and W.C. Cox, "Translocation of inhaled ultrafine particles to the brain," *Inhalation Toxicology*, **16**(2004) 437-445.
- G. Pecchi, B. Cabrera, A. Buljan, E.J. Delgado, A.L. Gordon and R. Jimenez, "Catalytic oxidation of soot over alkaline niobates," *Journal of Alloys and Compounds*, **551** (2013)255-261.
- G. Zhang, Z. Zhao, J. Liu, J. Xu, Y. Jing, A. Duan and G. Jiang, "Macroporous perovskite-type complex oxide catalysts of  $\text{La}_{1-x}\text{K}_x\text{Co}_{1-y}\text{Fe}_y\text{O}_3$  for diesel soot combustion," *Journal of Rare earths*, **27** (6) (2009) 955-960.
- H. L. Zhu, D. R. Yang, H. Yang, L. M. Zhu, D. S. Li, D. L. Jin and K. H. Yao, "Reductive hydrothermal synthesis of  $\text{La}(\text{OH})_3:\text{Tb}^{3+}$  nanorods as a new green emitting phosphor," *Journal of Nanoparticle Research*, **10** (2008) 307-312.
- H. Lin, Y. Li, W. Shangguan and Z. Huang, "Soot oxidation and  $\text{NO}_x$  reduction over  $\text{BaAl}_2\text{O}_4$  catalyst," *Combustion and Flame*, **156** (2009)2063-2070.
- H. Mi, X. Zhang, Y. Xu and F. Xiao, "Synthesis, characterization and electrochemical behavior of polypyrrole/carbon nanotube composites using organometallic-functionalized carbon nanotubes ," *Applied Surface Science*, **256** (2010) 2284-2288.
- H. Tanaka, N. Mizuno and M. Misono, "Catalytic activity and structural stability of  $\text{La}_{0.9}\text{Ce}_{0.1}\text{Co}_{1-x}\text{Fe}_x\text{O}_3$  perovskite catalysts for automotive emissions control," *Applied Catalysis A: General* **244** (2003), 371–382.



- 
- H. Wang, J. Liu, Z. Zhao, Y. Wei and C. Xu, "Comparative study of nanometric Co-, Mn- and Fe-based perovskite-type complex oxide catalysts for the simultaneous elimination of soot and NO<sub>x</sub> from diesel engine exhaust," *Catalysis Today*, **184** (2012) 288-300.
- J. B. Heywood, "Internal combustion Engine Fundamentals", McGraw-Hill International Editions, (1988).
- J. Dec and C. Espey, "Ignition and Early Soot Formation in a DI Diesel Engine using multiple 2-D Imaging Diagnostics," *SAE Technical Paper* 950456 (1995)doi: 10.4271/950456.
- J. Goldstein, "Scanning Electron Microscopy and X-Ray Microanalysis," Springer ISBN 978-0-306-47292-3 (2003).
- J. Kagawa, "Health effects of diesel exhaust emissions - a mixture of air pollutants of worldwide Concern," *Toxicology*, **181**(2002)349-353.
- J. Lahaye, P. Boehm, P. Chambrion and P. Ehrburger, "Influence of cerium oxide on the formation and oxidation of soot," *Combustion and Flame*, **104** (1996) 199-207.
- J. Liu, Z. Zhao, C. M. Xu, A. J. Duan, L. Zhu and X.Z. Wang, "Diesel soot oxidation over supported vanadium oxide and K-promoted vanadium oxide catalysts," *Applied Catalysis:B*, **61** (2005) 36-46.
- J. Liu, Z. Zhao, C.M. Xu, A.J. Duan, G.Y. Jiang, "The Structures, Adsorption Characteristics of La-Rb-Cu-O Perovskite-like Complex Oxides, and Their Catalytic Performances for the Simultaneous Removal of Nitrogen Oxides and Diesel Soot," *Journal of Physical Chemistry: C*, **112** (2008)5930-5941.
- J. M. Smith, "Chemical Engineering Kinetics," Mc Graw Hill Inc., Kogakusha Ltd. Second edition (1970).

- 
- J. P. A. Neeft, M. Makkee and J. A. Moulijn, "Metal oxides as catalysts for the oxidation of soot," *Chemical Engineering Journal*, **64** (1996) 295-302.(a)
- J.P.A. Neeft, M. Makkee, J.A. Moulijn, "Review article on Diesel particulate emission control," *Fuel Processing Technology*, **47**(1996)1-69.(b)
- J.P.A. Neeft, T.X. Nijhuis, E. Smakman, M. Makkee and J.A. Moulijn, "Kinetics of the oxidation of diesel soot," *Fuel*, **76(12)** (1997) 1129-1136.
- J. R. Anderson, K. Foger, T. Mole, R A. Rajadhyaksha, and J. V. Saunders, "Reactions on ZSM-5-type zeolite catalysts," *Journal of Catalysis*, **58** (1979)114-130.
- J. Riederer, "Pollution Damage to Works of Art," *Experientia Supplementum*, **20** (1974)73-85.
- J. Schroder, K.Eelsch-Pausch and M.S. McLachlan, "Measurement of atmospheric deposition of Polychlorinated Dibenzo-p-Dioxins (PCDDs) and Dibenzo furans (PCDFs) to a Soil," *Atmospheric Environment*, **31** (1997)2983-2989.
- J. Xu, J. Liu, Z. Zhao, J. Zheng, G. Zhang, A. Duan and G. Jiang, "Three dimensionally ordered macroporous  $\text{LaCo}_x\text{Fe}_{1-x}\text{O}_3$  perovskite-type complex oxide catalysts for diesel soot combustion," *Catalysis Today*, **153** (2010)136-142.
- J. Zheng, J. Liu, Z. Zhao, J. Xu, A. Duan and G. Jiang, "The synthesis and catalytic performances of three-dimensionally ordered macroporous perovskite-type  $\text{LaMn}_{1-x}\text{Fe}_x\text{O}_3$  complex oxide catalysts with different pore diameters for diesel soot combustion," *Catalysis Today*, **191** (2012)146-153.
- J.G. Watson and J.C. Chow, "Clear sky visibility as a challenge for society," *Annual Review of Energy and the Environment*, **19**(1994) 241-266.
- J. O. Uchisavwa, A. Obuchi, R. Enomoto, S. Liu, T. Nanba, and S. Kushiya, "Catalytic performance of Pt supported on various metal oxides in the oxidation of carbon black," *Applied Catalysis B: Environmental*, **26**, (2000) 17-24.
-

- 
- J.O. Uchisawa, A. Obuchi, S. Wang, T. Nanba and A. Ohi, "Catalytic performance of Pt/MO<sub>x</sub> loaded over SiC-DPF for soot oxidation," *Applied Catalysis:B*, **43**(2003)117- 129.(a)
- J.O. Uchisawa, S. Wang, T. Nanba, A. Ohi and A. Obuchi, "Improvement of Pt catalyst for soot oxidation using mixed oxide as a support," *Applied Catalysis:B*, **44**(2003)207-215.(b)
- J.S. Yang, G.D. Lee, B.H. Ahn and S.S. Hong, "Simultaneous catalytic removal of NO carbon particulates over perovskite-type oxides," *Journal of Industrial and Engineering Chemistry*, **4** (1998) 263-269.
- K. Hinot, H. Burtscher, A. P. Webe and G. Kasper, "The effect of the contact between platinum and soot particles on the catalytic oxidation of soot deposits on a diesel particle filter," *Applied Catalysis:B*, **71** (2007) 271-278.
- K. Ichimura, Y. Inoue and I. Yasumori, "Catalysis by mixed oxide perovskites. I. hydrogenolysis of ethylene and ethane on LaCoO<sub>3</sub>," *Bulletin of the Chemical Society of Japan*, **53** (1980) 3044-3049.
- K. Johansen, "Multi-catalytic Soot filtration in automotive and marine applications," *Catalysis Today*, **258** (2015) 2-10.
- K. Nakamoto Infrared and Raman spectra of inorganic and coordination compounds, part B, applications in coordination, organometallic and bioinorganic chemistry, Wiley, New York (1997).
- K.M. Parida, K.H. Reddy, S. Martha, D.P. Das and N. Biswal, "Fabrication of nanocrystalline LaFeO<sub>3</sub>: An efficient solgel auto-combustion assisted visible light responsive photocatalyst for water decomposition," *International Journal of Hydrogen Energy*, **35**(22) (2010) 12161-12168.

- 
- K. Shimizu, H. Kawachi and A. Satsuma, "Study of active sites and mechanism for soot oxidation by silver-loaded ceria catalyst," *Applied Catalysis B: Environmental*, **96** (2010)169-175.
- K. Shimizu, M. Katagiri, S. Satokawa and A. Satsuma, "Sintering-resistant and self-regenerative properties of Ag/SnO<sub>2</sub> catalyst for soot oxidation," *Applied Catalysis B: Environmental*, **108** (2011)9-46.
- K. Tikhomirov, O. Krocher, M. Elsener and A. Wokaun, "MnO<sub>x</sub>-CeO<sub>2</sub> mixed oxides for the low-temperature oxidation of diesel soot," *Applied Catalysis:B*, **64** (2006)72-78.
- K. Wang, L. Qian, L. Zhang, H. Liu and Z. Yan, "Simultaneous removal of NO<sub>x</sub> and soot particulates over La<sub>0.7</sub>Ag<sub>0.3</sub>MnO<sub>3</sub> perovskite oxide catalysts," *Catalysis Today*, **158** (2010) 423-426.
- K.V.R. Babu, C. Dias and S. Waje, "Proc. Technology solutions to meet diesel particulate emission legislation for Euro IV and V in Asia," International conference on emission control technologies: To improve ambient air quality - path forward for India,(2009)395-416.
- L. Castoldi, R. Matarrese, L. Lietti, P. Forzatti, "Intrinsic reactivity of alkaline and alkaline-earth metal oxide catalysts for oxidation of soot," *Applied Catalysis B: Environmental*, **90** (2009) 278-285.
- L. Huang, M. Bassir and S. Kaliaguine, "Characters of perovskite-type LaCoO<sub>3</sub> prepared by reactive grinding," *Materials Chemistry and Physics*, **101** (2007) 259-263.
- L. Jian, Z. Zhen, X. Chunming, D. Aijun and J. Guiyuan, "CeO<sub>2</sub>-supported vanadium oxide catalysts for soot oxidation: the roles of molecular structure and nanometer effect," *Journal of rare earths*, **28(7)** (2010)198-204.

- 
- L. Li, X. Shen, P. Wang, X. Meng and F. Song, "Soot capture and combustion for perovskite La-Mn-O based catalysts coated on honeycomb ceramic in practical diesel exhaust," *Applied Surface Science*, **257** (2011) 9519-9524.
- L. Zhu, J. Yu and X. Wang, "Oxidation treatment of diesel soot particulate on  $Ce_xZr_{1-x}O_2$ ," *Journal of Hazardous Materials*, **140**(2007)205-210.
- L. Zhu, X. Z. Wang, J. J. Yu and Z. P. Hao, "Catalytic performance of  $KCe_{0.5}Zr_{0.5}O_2$  catalysts for soot combustion," *Acta Physico-Chimica Sinica*, **21** (2005) 840-845.
- M. Dhakad, S.S. Rayalu, R. Kumar, P. Doggali, S. Bakardjieva, J. Subrt, T. Mitsunashi, H. Haneda and N. Labhsetwar, "Low cost, ceria promoted perovskite type catalysts for diesel soot oxidation," *Catalysis Letters*, **121** (2008) 137-143.
- M. A. Peralta, M. S. Zanuttini, M. A. Ulla and C. A. Querini, "Diesel soot and NO<sub>x</sub> abatement on K/La<sub>2</sub>O<sub>3</sub> catalyst: Influence of K precursor on soot combustion," *Applied Catalysis A: General*, **399** (2011)161-171.
- M. El-Fadel and Z. Hashisho, "Vehicular emissions and air quality in roadway tunnels" *Transportation Research Part D*, **9** (2000)355-372.
- M. Hamedoun, A. Wiedenmann, J. L. Dormann, M. Nogues and J. R. Mignod, "Magnetic structure and magnetic properties of the spinel solid solutions  $ZnCr_{2x}Al_{2-2x}S_4$  ( $0.85 \leq x \leq 1$ ). I. Neutron diffraction study," *Journal of Physics C: Solid State Physics*, **19** (1986)1783-1800.
- M. J. Pawar, S. S. Turkar, "Nanocrystalline LaCoO<sub>3</sub>: Synthesis by Low-Temperature Combustion Method and Photocatalytic Activity," *International Journal of Advanced Scientific and Technical Research*, **1(2)** (2012) 79-87.
- M. Kostoglou, P. Housiada and A.G. Konstandopoulos, "Multi-channel simulation of regeneration in honeycomb monolithic diesel particulate filters," *Chemical Engineering Science*, **58** (2003) 3273-3283.

- 
- M. S. Khalil, "Synthesis, X-ray, infrared spectra and electrical conductivity of La/BaCoO<sub>3</sub> systems," *Materials Science and Engineering: A*, **352** (2003) 64-70.
- M. Wik and I. Renberg, "Recent atmospheric deposition in Sweden of carbonaceous particles from fossil-fuel combustion surveyed using lake sediments," *Ambio*, **20** (1991)289-292.
- M. Zawadzki, W. Staszak, F.E. Lopez-Suarez, M.J. Illan-Gomez and A. Bueno-Lopez, "Preparation, characterisation and catalytic performance for soot oxidation of copper-containing ZnAl<sub>2</sub>O<sub>4</sub> spinels," *Applied Catalysis A: General*, **371** (2009) 92-98.
- M. Zawadzki, W. Walerczyk, F. E. López-Suárez, M. J. Illán-Gómez, A. Bueno-López, "CoAl<sub>2</sub>O<sub>4</sub> spinel catalyst for soot combustion with NO<sub>x</sub>/O<sub>2</sub>," *Catalysis Communications* **12** (2011) 1238-1241.
- M.A. Pena and J.L.G Fierro, "Chemical structures and performance of perovskite oxides," *Chemical Reviews*, **101** (2001)1981-2017.
- M.E. Simcik, S.J. Eisenreich, K.A. Golden, S.P. Liu, E. Lipiatou, D.L. Swachamer and D.T. Long, "Atmospheric loading of polycyclic aromatic hydrocarbons to Lake Michigan as recorded in the sediments," *Environmental Science & Technology*, **30** (1996)3039-3046.
- M.L. Pisarello, V. Milt, M.A. Peralta, C.A. Querini and E.E. Miro, "Simultaneous removal of soot and nitrogen oxides from diesel engine exhausts," *Catalysis Today*, **75**(2002)465-470.
- M.L. Pitchford and W.C. Malm, "Development and applications of a standard visual index," *Atmospheric Environment*, **28**(1994)1049-1054.
- M.M. Maricq, "Chemical characterization of particulate emissions from diesel engines: a review," *Journal of Aerosol Science*, **38**(2007) 1079-1118.

- 
- MSHA, "Diesel Particulate Matter Exposure of Underground Metal and Nonmetal Miners, Final Rule (30 CFR Part 57)", Federal Register, **(13)66** (2001) 5706.
- N. Guillen-hurtado, F.E. Lopez-Suarez, A. Bueno-Lopez and A. Garcia-Garcia, "Behavior of different soot combustion catalysts under NO<sub>x</sub>/ O<sub>2</sub>.Importance of the catalyst-soot contact," *Reaction Kinetics, Mechanisms, and Catalysis*, **111** (2014) 167-182.
- N. Russo, D. Fino, G. Saracco and V. Specchi, "Studies on the redox properties of chromite perovskite catalysts for soot combustion", *Journal of Catalysis*, **229** (2005) 459-469.
- N. Russo, D. Fino, G. Saracco and V. Specchia, "Promotion effect of Au on perovskite catalysts for the regeneration of diesel particulate filters," *Catalysis Today*, **137** (2008) 306-311.
- N. Russo, P. Palmisano and D. Fino, "Pd substitution effects on perovskite catalyst activity for methane emission control," *Chemical Engineering Journal*, **154(1-3)**, (2009)137-141.
- N. Russo, S. Furfori, D. Fino, G. Saracco and V. Specchia, "Lanthanum cobaltite catalysts for diesel soot combustion," *Applied Catalysis B: Environmental*, **83** (2008)85-95.
- N. Yamazoe, Y. Teraoka, "Oxidation Catalysis of perovskite- Relationships to bulk structure and composition (Valency, defect, etc.)," *Catalysis Today* **8** (1990) 175-199.
- N.E. Heller and E.S. Zavaleta, "Biodiversity management in the face of climate change:A review of 22 years of recommendations," *Biological Conservation* **142(1)** (2009) 14-32.

- 
- N.K. Labhsetwar, A. Watanabe, R.B. Biniwale, R. Kumara and T. Mitsuhashi, "Alumina supported, perovskite oxide based catalytic materials and their auto exhaust application," *Applied Catalysis B: Environmental* **33** (2001)165-173.
- N.K. Labhsetwar, M. Dhakad, S.S. Rayalu, R. Kumar, J. Subrt, H. Haneda, S. Devotta and T. Mitsuhashi, "Thermally stable metal ruthenate based soot oxidation catalyst for diesel exhaust emission control," *Topics in Catalysis*, **42-43** (2007)299-302.
- O. Levenspiel, *Chemical Reaction Engineering*, III Edn, John Wiley & Sons. New York, (1999) 379-381.
- O. Xiaoying, "Palladium-substituted perovskite catalysts for automotive exhaust of soot," *Journal of Hazardous Materials*,**199-200**(2012)272-281.
- P. Ciambelli, S. Cimino, L. Lisi, M. Faticanti, G. Minelli, I. Pettiti and P.Porta, "La, Ca and Fe oxide perovskites: preparation, characterization and catalytic properties for methane combustion,". *Applied Catalysis B: Environmental*, **3** (2001) 193-203.
- P. Darcy, P. Da Costa, H. Mellotte, J.M. Trichard and G. Djega-Mariadassou, "Kinetics of catalyzed and non-catalyzed oxidation of soot from a diesel engine," *Catalysis Today*, **119** (2007) 252-256.
- P. Doggali, H. Kusaba, S. Rayalu, Y. Teraoka and N. Labhsetwar, "Bench scale experiments of diesel soot oxidation using  $\text{Pr}_{0.7}\text{Sr}_{0.2}\text{K}_{0.1}\text{MnO}_3$  perovskite type catalyst coated on ceramic foam filters," *Topics in Catalysis*, **56** (2013) 457-461.
- P. Wang, Y. Cai, L. Lei and L. Li, "Effect of temperature on reduction of NO<sub>x</sub> and soot in diesel exhaust with perovskite-type catalysts," *Procedia Engineering*, **16** (2011) 259-263.
- Q. Li, M. Meng, Z.Q. Zou, X.G. Li and Y.Q. Zha, "Simultaneous soot combustion and nitrogen oxides storage on potassium-promoted hydrotalcite-based CoMgAlO catalysts," *Journal of Hazardous. Materials*, **161** (2009)366-372.



- 
- Q. Mu and Y. Wang, "Synthesis, characterization, shape-preserved transformation, and optical properties of  $\text{La}(\text{OH})_3$ ,  $\text{La}_2\text{O}_2\text{CO}_3$ , and  $\text{La}_2\text{O}_3$  nanorods," *Journal of Alloys and Compounds*, **509** (2011) 396-401.
- Q. Wang, Z. Xing, W. Zhang, Z. Guo, and J. S.Chung, "Simultaneous Removal of Soot and  $\text{NO}_x$  from Lean-Burn Engine Emissions Over Potassium Dtitanate-Based Catalysts," *Science of Advanced Materials*, **3(6)** (2011) 989-993.
- R. Angeles, J. C. Yanagisawa, K.V. Matamoros, Z. P. Canul, M. I. M Nonell, J. Diaz-de la and S. Torre, "Hydrothermal synthesis of perovskite strontium doped lanthanum chromite fine powders and its sintering," *Journal of Alloys and Compounds*, **504** (2010) 251-256.
- R. Arimoto, "Atmospheric deposition of chemical contaminants to the great lakes," *Journal of Great Lakes Research*, **15**(1989)339-356.
- R. Burch and M.D. Coleman, "An investigation of the  $\text{NO}/\text{H}_2/\text{O}_2$  reaction on noble-metal catalysts at low temperatures under lean- burn conditions," *Applied Catalysis: B*, **23** (1999)115-121.
- R. Jiménez, R. Zamora, G. Pecchi, X. Garcia and A.L. Gordon, "Effect of Casubstitution in  $\text{La}_{1-x}\text{Ca}_x\text{FeO}_3$  perovskites on the catalytic activity for soot combustion," *Fuel Processing Technology*, **91** (2010)546-549.
- R. Lopez-Fonseca, U. Elizundia, I. Landa, M.A. Gutierrez-Ortiz and J.R. Gonzalez-Velasco, "Kinetic analysis of non-catalytic and Mn-catalysed combustion of diesel soot surrogates," *Applied Catalysis B: Environmental*, **61** (2005) 150-158.
- R. Prasad and V. R. bella, "Diesel Soot Emissions: A Review of Their Effect and Control," *Bulletin of Chemical Reaction Engineering & Catalysis*, **5(2)** (2010)69-86.
- R. Zhang, A. Villanueva, H. Alamdari and S. Kaliaguine, "SCR of  $\text{NO}$  by propene over nanoscale  $\text{LaMn}_{1-x}\text{Cu}_x\text{O}_3$  perovskites," *Applied Catalysis. A: General*, **307(1)** (2006)85-97.
-

- 
- R. Zhang, H. Alamdari and S. Kaliaguine, "Fe based perovskites substituted by copper and palladium for NO+ CO reaction," *Journal of Catalysis*, **242(1)** (2006) 241-253.
- R. Zhang, H. Alamdari and S. Kaliaguine, "Water vapor sensitivity of nanosized La(Co, Mn, Fe)<sub>1-x</sub>(Cu, Pd)<sub>x</sub>O<sub>3</sub> perovskites during NO reduction by C<sub>3</sub>H<sub>6</sub> in the presence of oxygen. *Applied Catalysis B: Environmental*, **72(1)** (2007)331–341.
- R. Zhang, N. Luo, B. Chen and S. Kaliaguine, "Soot Combustion over Lanthanum Cobaltites and Related Oxides for Diesel Exhaust Treatment," *Energy Fuels* **24 (7)** (2010) 3719-3726.
- R.J. Farrauto and R.M. Heck, "Environmental catalysis into the 21st century," *Catalysis Today* **55** (2000) 179-187.
- R.M. Malek Abbaslou, J. Soltan, A.K. Dalai, "Effects of nanotubes pore size on the catalytic performances of iron catalysts supported on carbon nanotubes for Fischer–Tropsch synthesis," *Applied Catalysis A: General*, **379** (2010) 129-134.
- R.O. McClellan, "Health Effects of Exposure to Diesel Exhaust Particles," *Annual Review of Pharmacology and Toxicology*, **27** (1989) 279-300.
- S. Biamino and C. Badini, "Combustion synthesis of lanthanum chromite starting from water solutions: Investigation of process mechanism by DTA-TGA-MS," *Journal of the European Ceramic Society*, **24** (2004) 3021-3034.
- S. Biamino, P. Fino, D. Fino, N. Russo and C. Badini, "Catalyzed traps for diesel soot abatement: In situ processing and deposition of perovskite catalyst," *Applied Catalysis B: Environmental* **61** (2005) 297-305.
- S. Devotta and T. Mitsuhashi, "Thermally stable metal ruthenate based soot oxidation catalyst for diesel exhaust emission control," *Topics in Catalysis*, **42-43** (2007)299-302.

- 
- S. Hernandez, G. Andrea Blengini, N. Russo and D. Fino, "Kinetic Study of Diesel Soot Combustion with Perovskite Catalysts," *Industrial and Engineering Chemistry Research*, **51** (2012) 7584-7589.
- S. Higson, *Analytical Chemistry*. Oxford University Press, (2004) ISBN 978-0-19-850289-0n.
- S. Ifrah, A. Kaddouri, P. Gelin and G. Bergeret, "On the effect of La-Cr-O- phase composition on diesel soot catalytic combustion," *Catalysis Communications*, (2007)2257-2262.
- S. Kaliaguine, A. Van Neste, V. Szabo, J.E. Gallot, M. Bassir and R. Muzychuka, "Perovskite-type oxides synthesized by reactive grinding Part I. Preparation and characterization," *Applied Catalysis A: General*, **209** (2001) 345-358.
- S. Kaliaguine, Reduction of NO by CO over nanoscale  $\text{LaCO}_{1-x}\text{Cu}_x\text{O}_3$  and  $\text{LaMn}_{1-x}\text{Cu}_x\text{O}_3$ . *Journal of Molecular Catalysis A: Chemical*, (1) **258** (2006)22-34.
- S. Ramesh, S.S. Manoharan and M.S. Hegde, "Synthesis and structure of oxygen-deficient  $\text{La}_2\text{NiCoO}_5$  and  $\text{LaSrCo}_2\text{O}_5$  phases," *Journal of Materials Chemistry*, **5(7)** (1995)1053-1057.
- S. Sakamoto, J. Saito, T. Kishimoto, and K. Ishida, "Particulate Characterization of Automotive Emissions by Helium Microwave-Induced Plasma Atomic Emission Spectrometry," *SAE paper 971017* (1997).
- S. Vasudevan, J. Lakshmi and G. Sozhan, "Electrochemically assisted coagulation for the removal of boron from water using zinc anode," *desalination*, **310** (2013) 122-129.
- S. Ye Qin, Z. Ying, L. Hanfeng, Z. Zekai and C. Yinfei, "Soot combustion performance and  $\text{H}_2$ -TPR study on ceria-based mixed oxides," *Chinese Journal of Catalysis*, **34** (2013) 567-577.
-

- 
- S.B. Ha, P.S. Cho, Y.H. Cho, D. Lee and J.H. Lee, "Preparation of  $\text{La}_{0.75}\text{Sr}_{0.25}\text{Cr}_{0.5}\text{Mn}_{0.5}\text{O}_{3-\delta}$  fine powders by carbonate co-precipitation for solid oxide fuel cells," *Journal of Power Sources*, **195** (2010) 124-129.
- T. Kamimoto and H. Kobayashi, "Combustion processes in diesel engines," *Progress in Energy and Combustion Science*, **(2)17**(1991) 163-189.
- T. Schneider, "how we know global warming is real: the science behind human induced climate change," *Skeptic magazine* **14** (2008) 31-37.
- T. Screen, "Platinum group metal perovskite catalysts-preparation and application," *Platinum Metals Review*, **(2) 51** (2007)87-92.
- T. Seiyama, In, "Properties and Applications of Perovskite-type Oxides" (Eds.), L.G. Tejuca and J.L.G. Fierro, Marcel Dekker Inc., New York,(1993) 215-234.
- T. Seiyama, "Total Oxidation of Hydrocarbons on Perovskite Oxides," *Catalysis Reviews: Science and Engineering*, **34** (1992) 281-300.
- T.H.Y. Quach, T.M.N. Tran, Q.C. Tran, Q.T. Nguyen, T.T. Nguyen and D.K.L Adv, "The influence of alkali metal cations in substituted nano structured  $\text{LaCoO}_3$  on oxidation catalytic activity," *Advances in Natural Sciences: Nanoscience and Nanotechnology*, **2** (2011)45007-45010.
- T.V. Johnson, "Review of diesel emissions and control," *International Journal of Engine Research*, **10 (5)** (2009) 275-285.
- V. Ramanathan, "Global dimming by air pollution and global warming by greenhouse gases: Global and Regional Perspectives," In C.D. O'Dowd and P.E. Wagner (eds). *Nucleation and Atmospheric Aerosols: 17th International Conference Galway, Ireland*, (2007), 473-483.
- V.J. Hall-Roberts, A.N. Hayhurst, D.E. Knight and S.G. Taylor, "The Origin of Soot in Flames: Is the Nucleus an Ion?" *Combustion and Flame*, **120** (2000) 578-584.
-

- 
- W. F. Shangguan, Y. Teraoka and S. Kagawa, "Promotion effect of potassium on the catalytic property of  $\text{CuFe}_2\text{O}_4$  for the simultaneous removal of  $\text{NO}_x$  and diesel soot particulate," *Applied Catalysis:B* **16** (1998)149-154.
- W. Hong, Z. Zhen, X. Chunming, D. Aijun, L. Jian and C. Yaoling, "Simultaneous removal of soot particles and NO from diesel engines over  $\text{LaBO}_3$  perovskite-type oxides," *Chinese Journal of Catalysis*, **29** (7) (2008) 649-654.
- W. Shan, N. Ma, J. Yang, X. Dong, C. Liu and L. Wei, "Catalytic oxidation of soot particulates over  $\text{MnO}_x\text{-CeO}_2$  oxides prepared by complexation-combustion method," *Journal of Natural Gas Chemistry*, **19**(2010)86-90.
- W. Wang, C. Du, X. Xiang and Z. Reggie, "Removal of  $\text{NO}_x$  and diesel soot particulates catalyzed by perovskite-type oxide  $\text{La}_{0.9}\text{K}_{0.1}\text{CoO}_3$ ," *Journal of Wuhan University of Technology-Mater. Sci. Ed*, **21** (1) (2006)57-59.
- W. Zhou, R. Ran, Z. Shao, W. Jin and N. Xu, "Synthesis of nano-particle and highly porous conducting perovskites from simple in situ sol-gel derived carbon templating process," *Bulletin of Materials Science* **33**(4) (2010) 371-376.
- W.F. Shangguan. Y. Teraoka and S. Kagawa, "Simultaneous catalytic removal of  $\text{NO}_x$  and diesel soot particulates over ternary  $\text{AB}_2\text{O}_4$  spinel-type oxides," *Applied Catalysis B: Environmental*, **8** (1996) 217-227.
- W.F. Shangguan, Y. Teraoka and S. Kagawa, "Promotion effect of potassium on the catalytic property of  $\text{CuFe}_2\text{O}_4$  for the simultaneous removal of  $\text{NO}_x$  and diesel soot particulate, *Applied. Catalysis:B*, **16** (1998)149-154.
- X. Guo, M. Meng, F. Dai, Q. Li, Z. Zhang, Z. Jiang, S. Zhang and Y. Huang, " $\text{NO}_x$ -assisted soot combustion over dually substituted perovskite catalysts  $\text{La}_{1-x}\text{K}_x\text{Co}_{1-y}\text{Pd}_y\text{O}_{3-\delta}$ ," *Applied Catalysis B: Environmental*, **142-143** (2013) 278-289.

- 
- X. Meng, Y. Ma, R. Chen, Z. Zhou B. Chen and H. Kan, "Size-Fractionated Particle Number Concentrations and Daily Mortality in a Chinese City," *Environmental Health Perspectives*, **121(10)** (2013)1174-1178.
- X. Peng, H. Lin, W. Shangguan and Z. Huang, "A highly efficient and porous catalyst for simultaneous removal of NO<sub>x</sub> and diesel soot," *Catalysis Communications*, **8** (2007)157-161.
- X. Wu, R. Ran and D. Weng, "NO<sub>2</sub>-aided soot oxidation on LaMn<sub>0.7</sub>Ni<sub>0.3</sub>O<sub>3</sub> Perovskite type Catalyst," *Catalysis Letters*, **131** (2009) 494-499.
- X. Wu, S. Liu, D. Weng, F. Lin and R. Ran, "MnO<sub>x</sub>-CeO<sub>2</sub>-Al<sub>2</sub>O<sub>3</sub> mixed oxides for soot oxidation: Activity and thermal stability," *Journal of Hazardous Materials* **187** (2011) 283-290.
- Y. Li, Q. Zhu, X. Zhang and B. Xu, "Effects of redox properties and acid-base properties on isosynthesis over ZrO<sub>2</sub>-based catalysts," *Journal of Catalysis*, **221** (2004)584-593.
- Y. Teraoka, K. Nakano, W.F. Shangguan and S. Kagawa, "Simultaneous catalytic removal of nitrogen oxides and diesel soot particulate over perovskite-related oxides," *Catalysis Today*, **27** (1996) 107-113.
- Y. Teraoka, K. Nakano, S. Kagawa and W.F Shangguan, "Simultaneous removal of nitrogen oxides and diesel soot particulates catalyzed by perovskite-type oxides," *Applied Catalysis B: Environmental*, **5** (1995) L181-L185.
- Y. Teraoka, K. Kanada and S. Kagawa, "Synthesis of La-K-Mn-O perovskite type oxides and their catalytic property for simultaneous removal of NO<sub>x</sub> and diesel soot particulates," *Applied Catalysis: B*, **34** (2001)73-78.
- Z. Du, A.F. Sarofim, J.P. Longwell and L. Tognotti, in (ed). J. Lahaye and P. Ehrburger in: Control of Carbon Gasification Reactivity, In Fundamental Issues, Kluwer, Dordrecht, (1991).

- 
- Z. Li, M. Meng, Y. Zha, F. Dai, T. Hu, Y. Xie and J. Zhang, "Highly efficient multifunctional dually-substituted perovskite catalysts  $\text{La}_{1-x}\text{K}_x\text{Co}_{1-y}\text{Cu}_y\text{O}_3$  used for soot combustion,  $\text{NO}_x$  storage and simultaneous  $\text{NO}_x$ -soot removal," *Applied Catalysis B: Environmental*, **121-122** (2012)65-74.(a)
- Z. Li, M. Meng, F. Dai, T. Hu, Y. Xie and J. Zhang, "Performance of K and Ni substituted  $\text{La}_{1-x}\text{K}_x\text{Co}_{1-y}\text{Ni}_y\text{O}_3$  perovskite catalysts used for soot combustion,  $\text{NO}_x$  storage and simultaneous  $\text{NO}_x$ -soot removal," *Fuel* **93** (2012) 606-610. (b)
- Z. Li, M. Meng, Q. Li, Y. Xie, T. Hu and J. Zhang, "Fe-substituted nanometric  $\text{La}_{0.9}\text{K}_{0.1}\text{Co}_{1-x}\text{Fe}_x\text{O}_{3-\delta}$  perovskite catalysts used for soot combustion,  $\text{NO}_x$  storage and simultaneous catalytic removal of soot and  $\text{NO}_x$ ," *Chemical Engineering Journal*, **164** (2010) 98-105.
- Z. Liu, Z. Hao, H. Zhang and Y. Zhuang, "Study of perovskite-type oxides and their supported Ag derivatives for catalytic oxidation of diesel soot," *Journal of Chemical Technology & Biotechnology*, **77** (2002)800-804.
- Z. Wang, Q. Li, L. Wang and W. Shangguan, "Simultaneous catalytic removal of  $\text{NO}_x$  and soot particulates over CuMgAl hydrotalcites derived mixed metal oxides," *Applied Clay Science*, **55** (2012)125-130.
- Z. Wang, W. Shangguan, J. Su, and Z. Jiang, "Catalytic oxidation of diesel soot on mixed oxides derived from hydrotalcites," *Catalysis Letters* **112(3-4)** (2006) 149-154.
- Z. Zhang, Z. Mou, P. Yu, Y. Zhang and X. Zi, "Diesel soot combustion on potassium promoted hydrotalcite-based mixed oxide catalysts," *Catalysis Communications* **8** (2007) 1621-1624.
- Z. Zhao, Y. Yang, Y. Wu, "Comparative study of Nickel-based perovskite-like mixed oxide catalysts for direct decomposition of  $\text{NO}$ ," *Applied Catalysis B: Environmental*, **8** (1996) 281-297.

---

Z. Zhong, K. Chen, Y. Ji and Q. Yan, "Methane combustion over B-site partially substituted perovskite-type  $\text{LaFeO}_3$  prepared by sol-gel method," *Applied Catalysis. A: General*, **156(1)** (1997)29-41.

Z.Q. Li, "Study on the perovskite-type catalysts employed for soot combustion and emission control," Ph.D. Thesis, University of California, Santa Barbara, (2012)