

Curriculum vitae

PERSONAL INFORMATION

Bordiga Silvia

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EXPERTISE AND KNOWLEDGE

I have always applied spectroscopic methods in order to achieve a detailed understanding of the physicochemical nature of a large variety of nanostructured high surface area materials that find applications as heterogeneous catalysts. The peculiarity of my work is to develop a versatile experimental platform based on the combined use of laboratory spectroscopies and advanced techniques available at the synchrotron beam lines in controlled atmosphere. Broad aim of the work is to describe the structure and the number of the active sites; the reaction mechanisms; the origin of catalysts deactivation. Most of these activities are performed thanks to the collaboration with industrial partners. Relevant examples are: 1) TS-1 (Titanium silicalite) a unique catalyst for selective partial oxidation with H_2O_2 ; 2) Fe-Zeolites, a relevant catalyst in partial oxidation with N_2O ; 3) H-Zeolites used for Methanol to hydrocarbon/olefin processes; 3) Cu-exchanged zeolites for ammonia selective catalytic reduction. More recently I'm actively contributing to the development of the emerging field of Porous Metallorganic Frameworks, both contributing to the understanding of known materials and developing new ones for specific applications (e.g. in collaboration with Oslo University: discovery of UiO-66 metallorganic framework topology that is a very thermal and chemical stable metallorganic framework now commercialized; in collaboration with Berkeley university: disclosure of the reaction mechanism of CO_2 adsorption on post-synthetic modified metallorganic framework). The commune denominator of my interests is the broad concept of **sustainability**, strongly interconnected with the **energy efficiency** and of the **integration of resources** (possibly renewable) in order to allow a sustainable grow of our society.

EDUCATION

- 1993 PhD in Chemical Science: "New structures in zeolites: synthesis, characterization and properties".
1988 Master Degree in Chemistry (110/110 with laude).

CURRENT AND PAST POSITION

- 2016 - present Full professor, Department of Chemistry, University of Turin, Italy
2012 - 2017 Professor II, Department of Chemistry, University of Oslo, Norway
2001 -2016 Associate professor, Department of Chemistry, University of Turin, Italy
1995 - 2001 Researcher, Department of Chemistry, University of Turin, Italy

PRESENT TEACHING ACTIVITIES

Master in Chemistry: Catalysis; Master in Material Science: Physical Chemistry; Bachelor in Material Science: Materials for Energy; Bachelor in Material Science: Materials today
PhD school in Science and innovative technologies: Metal-organic Frameworks

MAJOR COLLABORATIONS (outside of the University of Turin)

Karl Petter Lillerud, Unni Olsbye, Stian Svelle (Department of Chemistry, University of Oslo, Norway); Richard Blom and Carlos Grande (SINTEF, Norway); Pablo Beato (HTAS, Denmark); Alessandra Quadrelli (École Supérieure de Chimie Physique Électronique de Lyon, France); Johan Martens (Centre for Surface Chemistry and Catalysis, KU *Leuven*, Belgium); Russell Morris (School of Chemistry, St. Andrews University, UK); Norbert Stock (Institut für Anorganische Chemie, Christian-Albrechts Universität zu Kiel, Germany); Jeffrey Long (Department of Chemistry, University of California, Berkeley, USA); Fabrizio Cavani (Department of Industrial Chemistry «Toso Montanari», University of Bologna, Italy); Leonardo Marchese (Piemonte Orientale University), Franz Schmidt (Active Oxygens-Performance Oxidants, Evonik); Roberto Millini, Giuseppe Bellussi (Eni); Pascal Raybaud (Direction Catalyse et Séparation IFPEN);

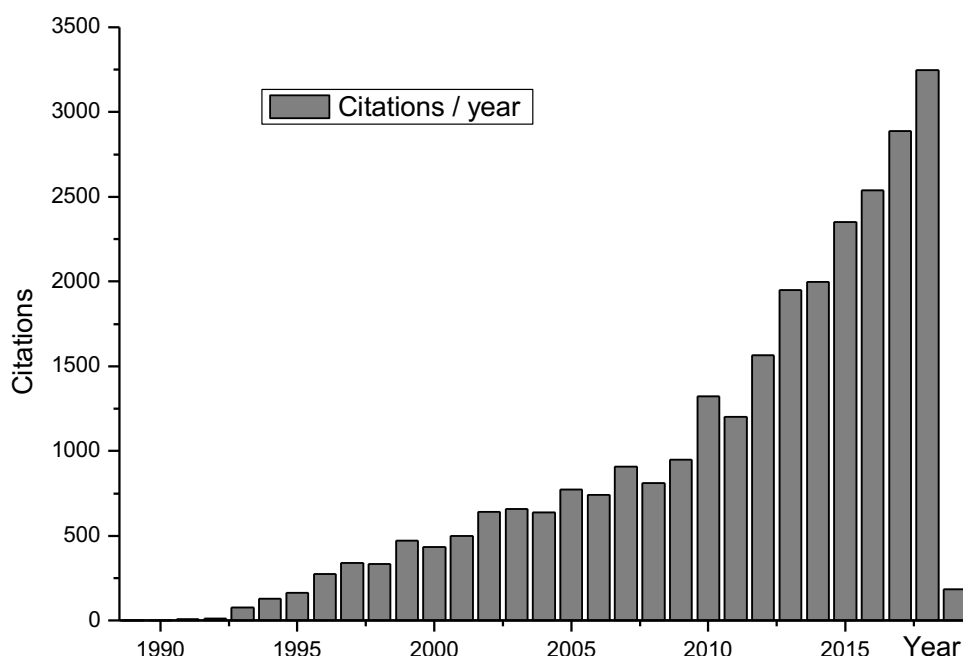
SUPERVISION OF PhD STUDENTS

2014-2016 Alessio Masala: "*Storage materials for gases of technological interests*"; presently in Luxottica;
2013-2015 Alessandro Dani: "*Micro-porous poly(ionic liquid)s for selective adsorption and catalytic applications: synthesis and characterization*", presently in Evonik; 2012-2014 Filippo Giordanino

“Structure and reactivity of single- and multiple-sites in zeolitic heterogeneous catalysts”, presently in Luxottica; 2011-2013 Caterina Barzan “Reactivity of transition metal ions hosted in high surface area materials”; 2009-2011 Kalaivani Seenivasan “Spectroscopic Investigation of Silica supported Heterogeneous Ziegler-Natta Catalysts”; 2009-2011 Lorenzo Mino “Surface properties and reactivity of TiO₂ nanocrystals: a combined experimental and computational study”, post-doc at INRIM and then in Physics Department; 2008-2010 Behnam Seyyedi “Hybrid materials for storage and purification of small gaseous molecule”; 2008-2010 Katia Barbera “Investigation of carbonaceous species involved in methanol to hydrocarbon conversion process”, presently post-doc in CNRS Lyon; 2007-2009 Sachin Chavan “Characterization of MOFs for gas storage and catalysis”; presently is a Researcher at ProfMOF spin off at University of Oslo; 2006-2008 Luisa Palumbo “Acidic zeolites in hydrocarbon chemistry”; 2004-2006 Laura Regli “Microporous Materials for Hydrogen Storage”; 2001-2003 Francesca Bonino “TS-1 oxidation catalyst: a spectroscopic characterization in working conditions” presently Researcher at University of Torino; 1999-2002 Alessandro Damin “Ab initio based methods applied to the study of MgO and TS-1 case systems” presently Technician at University of Torino.

PUBLICATION RECORDS

Number of papers **413**. Citations received per year in the 1989 to 2019 period according to ISI WoS (updated April 26, 2019). Overall citations: 29914; citations without self-citations: 25,184; average citations per item: 70,49; corresponding **h-index: 92**. **2** Popular papers, and **4** video-camera exposures.



ORGANISATION OF SCIENTIFIC MEETINGS

- 2021 Member of Organizing Committee *ISHHC*, June 2021, Oslo, Norway
- 2021 Member of Organizing Committee *EUCHEMS* Conference, Summer 2021 Lyon, France
- 2018 Member of Organizing Committee.”Int. winter school, Interdivisional Catalysis Group, Italian Chemical Society. 07 January –11 January 2019, Bardonecchia, Italy
- 2017 Member of the Scientific Committee of *EUROMOF2017* October 29-November 1, Delft Netherland
- 2016 Member of the Organizing Committee of the International winter school, organized by the Physical Chemistry Division of the Italian Chemical Society. 31 January – 5 February, Bardonecchia, Italy.
- 2015 Member of the Scientific Committee of *EuroMOF2015* October 11 – 14, Potsdam, Germany
- 2009 Member of the Scientific committee of the International conference *ABC* (Acid and Base Catalysis), Genova 10-14 May 2009.
- 2009 Member of the Scientific committee of *MOFCAT* Workshop 2009 “MOFs on the Road to Applications”, 17-19 June, 2009, at the Oslo Innovation Centre in Oslo, Norway
- 2007 Chairwoman of the section “New experimental approaches and characterization under reaction conditions (combinatorial methods included) at *EUROPACAT VIII* international conference in 2007 (26-31 August in Turku, Finland).

INSTITUTIONAL RESPONSIBILITIES and AWARDS

- 2019 The Francois Gault Lectureship Award from the European Federation of catalysis Societies (EFCAT)
- 2019-2017 Member of the Editorial Advisory Board (EAB) of ACS Catalysis. Prize from the French Chemical Society (bilateral prize France – Italy).
- 2015-2018 Int. advisor for DEFNET project (EU MC ETN <http://www.defnet-etn.eu/> via H2020).
- 2015-2021 Directive member of Interdivisional Group of Catalysis of the Italian Chemical Society.
- 2012-2021 Director of INSTM Reference Centre at University of Torino.
- 2012-2016 Director of Interdepartmental Centre NIS at University of Torino.
- 2012-2015 Board member of International Acid-Base Catalysis (ABC) group
- 2008-2021 Member of “*Consiglio Direttivo*” of INSTM (“*Consorzio Interuniversitario per la scienza e tecnologia dei materiali*”).
- 2003-2012 Member of the Scientific Committee of the Centre of Excellence NIS at the University of Torino.

RECENT EU FUNDINGS

- 2019-2022 CE-SC3-NZE-2-2018 – Conversion of captured CO₂, RIA. COZMOS. PI of Turin unit (CA under discussion)
- 2013-2016 Energy2013-3.5.1.2 Collaborative Project “Advanced Materials and Electric Swing Adsorption Process for CO₂ Capture”. PI of Turin unit and leader of WP7 (Dissemination) (354000 €)
- 2012-2014 FCH JU platform (Fuel Cells and Hydrogen Joint Undertaking) entitled “Novel H₂ storage materials for stationary and portable applications” (Bor4Store). Participant (241712 €)
- 2011-2014 FCH JU platform (Fuel Cells and Hydrogen Joint Undertaking) entitled “Fuel Cell Coupled Solid State Hydrogen Storage Tank” (SSH2S). Participant (488882 €)

RECENT NATIONAL AND REGIONAL FUNDINGS

- 2017-2020 MIUR Bando- PRIN Progetto di ricerca di rilevante interesse nazionale. Nanoporous materials with tailored structure for high performance methane storage and purification Prot. 2015CTEBBA PI (120.000 €)
- 2015 University of Turin: Open access-Lab: Up-date Raman Laboratory, PI (90.000 €)
- 2014-2015 Regione Piemonte IV programma Poli di innovazione “HEAT”, PI (92.431 €)
- 2013-2016 MIUR: Mechanisms of CO₂ activation for the design of new materials for energy and resource efficiency. PI (1.000.988 €)

COMMISSIONS OF TRUST

- 2015-2020 Hercules-Science Commission
http://www.herculesstichting.be/in_English/organisation/hercules_science_commission.php
- 2014 Chairwoman of the International panel for the ranking of Matusalem programs submitted by Ghent’s top scientists in all disciplines
- 2007/2008 Member of the International panel for the ranking of Matusalem programs submitted by Ghent’s top scientists in all disciplines
- 2004-2007 Member of the Chemistry committee of ESRF European Synchrotron Radiation Facility
Chairwoman of the Chemistry committee 2007

INVITED SPEAKER (from 2010 to present)

- 2019 *Keynote lecture at the NAM26 meeting “Combined use of spectroscopies to investigate NH₃ SCR DeNO_x Catalysts” Chicago, June 24-29, 2019*
- 2019 *Invited lecture at the international school “Vibrational spectroscopies to understand the structure and the functional properties of MOFs”, Villa del Grumello Como, 17-21 June 2019, Come, Italy*
- 2019 *Plenary at XXth Netherlands Catalysis & Chemistry Conference, “Partial oxidation of methane to methanol: is it feasible?” 4–6 April 2019, NH Conference Centre Leeuwenhorst. The Netherlands*
- 2019 *Invited talk at BP coking workshop, “Optical spectroscopies to characterize coking and deactivation of zeolites” Petrochemicals Technology, Saltend, Hull, HU12 8DS, UK, 25-27 of February, 2019*
- 2018 *Invited lecture at the Course: Introduction to X-ray Absorption Spectroscopy (EXAFS 2018) “Application of XAFS to metal-organic frameworks”, 6 - 8 Nov 2018, Eastern Medical Research Center, Bldg. 490, Large Conference Room (Brookhaven National Laboratory) NY, USA*
- 2018 *Invited talk at Evonik Catalysis Conference, “The role of spectroscopy in understanding heterogeneous catalysts”. Evonik Hanau Wolfgang, Germany, 29.10.2018*

- 2018 *Key note at 7th EuCheMS Chemistry Congress*, “The role of spectroscopy in undergoing heterogeneous catalysis” 26 – 30 August 2018, ACC Liverpool, UK
- 2018 *Key note at ISHHC-18*, “CO₂ hydrogenation over Zr-MOF based catalysts”, Sydney, 22 - 25 July 2018.
- 2018 *Invited speaker at the Gorgon Conference on Catalysis*, “The role of spectroscopy in understanding heterogeneous catalysts: Cu-CHA, a model system for applied selective redox catalysis” Colby-Sawyer College in New Hampshire, USA. (June 24-29, 2018).
- 2018 *Invited speaker at KAUST Research Conference: New Challenges in Heterogeneous Catalysis*, “The role of spectroscopies in understanding heterogeneous catalysts” 29-31 January 2018, King Abdullah University of Science and Technology (KAUST), Thuwal, Saudi Arabia
- 2017 *Plenary lecture at EUROPACAT* “Addressing the catalyst characterization challenges with spectroscopies Florence, 27-31 August,, 2017
- 2017 *Invited talk at KAUST*: “Spectroscopic methods in catalysis and Defect Engineering: Tuning the Porosity and Composition of the Metal-Organic Framework UiO-6”. May 17 and May 18, Arabia Saudita.
- 2015 *Invited talk at Southern Federal University*, Rostov, Russia. September 6. “Metallorganic frameworks what are they and how do we characterize them?”
- 2014 *Invited talk at IFPEN*, Lyon, France. September 24. “Advanced tools and approaches to characterize active sites in zeolites”
- 2014 *European-Winter School on Physical Organic Chemistry*, Bressanone, Italy. February 2-7.”Characterization of MOFs by combined vibrational, and electronic spectroscopies
<http://www.chimica.unipd.it/wispoc/pubblica/index.htm>
- 2013 *Invited key lecture at XVII National Congress of Catalysis GIC 2013 and XI National Congress of Zeolites Science and Technology*, Riccione, Italy. September 15-18. “Role of zeolite topologies and morphologies in determining life time and selectivity in MTH process”
<http://www.unibo.it/eventi/gic2013>
- 2013 *Invited lecture at European Congress and Exhibition on Advanced Materials and Processes*, Sevilla, Spain. September 8-13. “Characterization of MOFs by combined vibrational and electronic spectroscopies.” Symposium: B4.I Hybrid and Metal-Organic Framework Materials.
- 2013 *Invited lecture at 6th IDECAT ERIC JCAT Conference on Catalysis*, Bressanone, Italy. March 3-6. “Conversion of Methanol to Hydrocarbons: zeolite topologies and morphologies in determining life time and selectivity” <http://www.eric-aisbl.eu/conferences/iejcat-6>
- 2011 *Invited keynote lecture at ISHHC*, Berlin, Germany. September 11-18. “NO adsorption on transition metal ions in microporous materials followed by combined use of spectroscopies”
- 2011 *Invited talk at Technical University of Denmark*. “Tailoring MOFs for gas capture and storage”
- 2010 *Invited talk at NANOMOF Workshop*, London, UK. “Combined use of spectroscopies to understand adsorption properties of MOFs”
- 2010 *Invited talk at University of California, Berkeley*, USA. “Combined use of "in situ" spectroscopies and computational techniques to characterize molecularly defined species”
- 2010 *Invited talk at MIT*, Boston, USA. August 27. “Comparative Use of in-Situ Spectroscopic Methods for the Characterization of Active Sites in Porous Materials”

CONTRACTS WITH INDUSTRIES

BASF (TiO₂ based materials for photocatalysts) 2009-2011; Topsøe (developments of new zeolitic materials) 2008-2016; Saes Getters (new getters for H₂O and CO₂) 2011-2013; ENI (Ethylene Polymerization catalysts) 2011-2013; Infineum (Molibdenum sulphides as lubricant); 2013-2014; Evonik (Ti-silicalites) 2013-2016; 2018-2019 Umicore (NH₃-SCR DeNO_x catalysts).

Table 1. List of ISI WoS journals where I have published my works among those that have a defined impact factor (IF, from ISI WoS 2017), 375 in total. Catalysis Journals have been highlighted in red. Journals have been ranked based on the number of papers published (N_{PP}) on that journal. When the number of papers coincides, journals have been ranked alphabetically. For each journal the cumulative IF, defined as: $\Sigma IF = IF \cdot N_{PP}$ is also reported. The cumulative IF is then obtained adding the ΣIF for all journals, resulting in a value of 2434.514. From this bibliometric analysis it emerges that the average IF of the journals where I have published is: $\langle IF \rangle = 6.492$.

Journal	N_{PP}	IF	ΣIF	Journal	N_{PP}	IF	ΣIF
J. Catal.	34	6.759	229.806	Appl. Phys. Lett.	2	3.495	6.990
Phys. Chem. Chem. Phys.	29	3.906	113.274	Appl. Surf. Sci.	2	4.439	8.878
J. Phys. Chem. C	24	4.484	107.616	Chem. Phys. Lett.	2	1.686	3.372
J. Am. Chem. Soc.	24	14.357	344.568	Chem. Rev.	2	52.613	105.226
J. Phys. Chem. B	23	3.146	72.358	Cryst. Growth Design	2	3.972	7.944
J. Chem. Soc. Faraday Trans. *	16	3.906	62.496	Inorg. Chem.	2	4.700	9.400
Catal. Today	14	4.667	65.338	J. Alloys Compounds	2	3.779	7.558
Chem. Mater.	13	9.890	128.570	J. Mater. Chem A	2	9.931	19.862
Catal. Lett.	10	2.911	29.110	Nature	2	41.577	83.154
J. Phys. Chem. *	10	4.484	44.840	Thin Solid Films	2	1.939	3.878
Micropor. Mesopor Mater.	10	3.649	36.490	Vibrat. Spectros.	2	1.363	2.726
Top. Catal.	10	2.439	24.390	ACS Appl. Mater. Interf.	1	8.097	8.097
Dalton Trans.	9	4.099	36.891	Adv. Func. Mater.	1	13.325	13.325
Chem. Commun.	8	6.290	50.320	Adv. Mater.	1	21.950	21.950
ChemCatChem	8	4.674	37.392	Appl. Spectrosc.	1	1.642	1.642
Angew. Chem. Int. Ed.	7	12.102	84.714	Chem. Phys.	1	1.707	1.707
ChemPhysChem	7	2.947	20.629	Comput. Phys. Commun.	1	3.748	3.748
Langmuir	6	3.789	22.734	Green Chem.	1	8.586	8.586
ACS Catal.	5	11.384	56.920	Int. J. Hydrog. Energy	1	4.229	4.229
Chem. Soc. Rev.	5	40.182	200.910	J. Comput. Chem.	1	3.221	3.221
J. Chem. Phys.	5	2.843	14.215	J. Elec .Spectrosc. Relat. Phen.	1	1.601	1.601
Appl. Catal. A: General	4	4.521	18.084	J. Incl. Phenom. Macro. Chem.	1	1.316	1.316
Catal. Sci. Technol.	4	5.365	21.460	J. Mater. Chem. *	1	9.931	9.931
Chem. Euro J.	4	5.160	20.640	J. Phys. Chem. A	1	2.836	2.836
Faraday Discuss.	4	3.427	13.708	J. Phys. Chem. Lett.	1	8.709	8.709
J. Mol. Catal. A: Chem.	4	4.397	17.588	J. Raman Spectrosc.	1	2.879	2.879
J. Photochem. Photobiol.	4	2.891	11.564	J. Chem. Soc. Dalton Trans.	1	4.099	4.099
Nucl. Instrum. Meth. B	4	1.323	5.292	Mater. Chem. Phys.	1	2.210	2.210
Appl. Catal. B: Environ.	3	11.698	35.094	Microchem. J.	1	2.746	2.746
Chem. Sci.	3	9.063	27.189	Nature Chem.	1	26.201	26.201
ChemSusChem	3	7.411	22.233	Period. Mineral.	1	1.351	1.351
Ind. Engin. Chem. Res.	3	3.141	9.423	Phil. Mag. Lett.	1	1.194	1.194
J. Appl. Phys.	3	2.176	6.528	Phys. Rev. B	1	3.813	3.813
J. Mol. Catal. *	3	4.397	13.191	Prog. Surf. Sci.	1	9.000	9.000
Surf. Sci.	3	1.997	5.991	Spectrochim. Acta A	1	2.880	2.880
Adv. Catal.	2	7.250	14.500	Thermochim. Acta	1	2.189	2.189
				Total	375	-	2434.514

* For journals which name has been changed, the IF of the present title has been used.

Patent

A method for analysis by Raman spectroscopy

A. Damin, M. Signorile, F. Bonino, S. Bordiga and R. Disa- 2017 Patent owner: Universita degli Studi di Torino; Disa Raffaele e F.lli sas. Patent Number: WO2017077513 (A1)

Full list of papers (ISI WoS database source)

- (1) Lomachenko, K. A.; Martini, A.; Pappas, D. K.; Negri, C.; Dyballa, M.; Berlier, G.; Bordiga, S.; Lamberti, C.; Olsbye, U.; Svelle, S.; Beato, P.; Borfecchia, E., *Catal. Today* **2019**, in press. doi: 10.1016/j.cattod.2019.01.040.
- (2) Latini, G.; Signorile, M.; Crocellà, V.; Bocchini, S.; Pirri, C. F.; Bordiga, S., *Catal. Today* **2019**, in press., doi: 10.1016/j.cattod.2018.12.050.
- (3) Pappas, D. K.; Borfecchia, E.; Dyballa, M.; Lomachenko, K. A.; Martini, A.; Berlier, G.; Arstad, B.; Lamberti, C.; Bordiga, S.; Olsbye, U.; Svelle, S.; Beato, P., *ChemCatChem* **2019**, *11*, 621-627.
- (4) Morten, M.; Mentel, L.; Lazzarini, A.; Pankin, I.; Lamberti, C.; Bordiga, S.; Crocella, V.; Svelle, S.; Lillerud, K. P.; Olsbye, U., *Abstr. Pap. Am. Chem. Soc.* **2018**, *255*, 2.
- (5) Borfecchia, E.; Beato, P.; Svelle, S.; Olsbye, U.; Lamberti, C.; Bordiga, S., *Chem. Soc. Rev.* **2018**, *47*, 8097-8133.
- (6) Negri, C.; Hammershoi, P. S.; Janssens, T. V. W.; Beato, P.; Berlier, G.; Bordiga, S., *Chem.-Eur. J.* **2018**, *24*, 12044-12053.
- (7) Morten, M.; Mentel, L.; Lazzarini, A.; Pankin, I. A.; Lamberti, C.; Bordiga, S.; Crocella, V.; Svelle, S.; Lillerud, K. P.; Olsbye, U., *ChemPhysChem* **2018**, *19*, 484-495.
- (8) Bugaev, A. L.; Guda, A. A.; Lomachenko, K. A.; Kamyshova, E. G.; Soldatov, M. A.; Kaur, G.; Oien-Odegaard, S.; Braglia, L.; Lazzarini, A.; Manzoli, M.; Bordiga, S.; Olsbye, U.; Lillerud, K. P.; Soldatov, A. V.; Lamberti, C., *Faraday Discuss.* **2018**, *208*, 287-306.
- (9) Pinilla-Herrero, I.; Borfecchia, E.; Holzinger, J.; Mentzel, U. V.; Joensen, F.; Lomachenko, K. A.; Bordiga, S.; Lamberti, C.; Berlier, G.; Olsbye, U.; Svelle, S.; Skibsted, J.; Beato, P., *J. Catal.* **2018**, *362*, 146-163.
- (10) Caron, F.; Rivallan, M.; Humbert, S.; Daudin, A.; Bordiga, S.; Raybaud, P., *J. Catal.* **2018**, *361*, 62-72.
- (11) Signorile, M.; Crocella, V.; Damin, A.; Rossi, B.; Lamberti, C.; Bonino, F.; Bordiga, S., *J. Phys. Chem. C* **2018**, *122*, 9021-9034.
- (12) Signorile, M.; Damin, A.; Bonin, F.; Crocella, V.; Ricchiardi, G.; Lamberti, C.; Bordiga, S., *J. Phys. Chem. C* **2018**, *122*, 1612-1621.
- (13) Lomachenko, K. A.; Jacobsen, J.; Bugaev, A. L.; Atzori, C.; Bonino, F.; Bordiga, S.; Stock, N.; Lamberti, C., *J. Am. Chem. Soc.* **2018**, *140*, 17379-17383.
- (14) Pappas, D. K.; Martini, A.; Dyballa, M.; Kvande, K.; Teketel, S.; Lomachenko, K. A.; Baran, R.; Glatzel, P.; Arstad, B.; Berlier, G.; Lamberti, C.; Bordiga, S.; Olsbye, U.; Svelle, S.; Beato, P.; Borfecchia, E., *J. Am. Chem. Soc.* **2018**, *140*, 15270-15278.
- (15) Signorile, M.; Rojo-Gama, D.; Bonino, F.; Beato, P.; Svelle, S.; Bordiga, S., *Phys. Chem. Chem. Phys.* **2018**, *20*, 26580-26590.
- (16) Vitillo, J. G.; Fjermestad, T.; D'Amore, M.; Milanesio, M.; Palin, L.; Ricchiardi, G.; Bordiga, S., *Phys. Chem. Chem. Phys.* **2018**, *20*, 18503-18514.
- (17) Martino, G. A.; Piovano, A.; Barzan, C.; Bordiga, S.; Groppo, E., *Top. Catal.* **2018**, *61*, 1465-1473.
- (18) Signorile, M.; Bonino, F.; Damin, A.; Bordiga, S., *Top. Catal.* **2018**, *61*, 1491-1498.
- (19) Masala, A.; Vitillo, J. G.; Mondino, G.; Grande, C. A.; Blom, R.; Manzoli, M.; Marshall, M.; Bordiga, S., *ACS Appl. Mater. Interfaces* **2017**, *9*, 455-463.
- (20) Walter, P.; Mortreux, A.; Bordiga, S.; Kadish, K. M., *Angew. Chem.-Int. Edit.* **2017**, *56*, 11303-11303.
- (21) Crocella, V.; Tabanelli, T.; Vitillo, J. G.; Costenaro, D.; Bisio, C.; Cavani, F.; Bordiga, S., *Appl. Catal. B-Environ.* **2017**, *211*, 323-336.
- (22) Crocella, V.; Groppo, E.; Dani, A.; Castellero, A.; Bordiga, S.; Zilio, S.; De Simone, A.; Vacca, P., *Appl. Spectrosc.* **2017**, *71*, 2278-2285.
- (23) Lukaszuk, K. A.; Rojo-Gama, D.; Oien-Odegaard, S.; Lazzarini, A.; Berlier, G.; Bordiga, S.; Lillerud, K. P.; Olsbye, U.; Beato, P.; Lundegaard, L. F.; Svelle, S., *Catal. Sci. Technol.* **2017**, *7*, 5435-5447.

- (24) Braglia, L.; Borfecchia, E.; Maddalena, L.; Oien, S.; Lomachenko, K. A.; Bugaev, A. L.; Bordiga, S.; Soldatov, A. V.; Lillerud, K. P.; Lamberti, C., *Catal. Today* **2017**, *283*, 89-103.
- (25) Thushara, K. S.; D'Amore, M.; Piovano, A.; Bordiga, S.; Groppo, E., *ChemCatChem* **2017**, *9*, 1782-1787.
- (26) Molino, A.; Lukaszuk, K. A.; Rojo-Gama, D.; Lillerud, K. P.; Olsbye, U.; Bordiga, S.; Svelle, S.; Beato, P., *Chem. Commun.* **2017**, *53*, 6816-6819.
- (27) Martini, A.; Borfecchia, E.; Lomachenko, K. A.; Pankin, I. A.; Negri, C.; Berlier, G.; Beato, P.; Falsig, H.; Bordiga, S.; Lamberti, C., *Chem. Sci.* **2017**, *8*, 6836-6851.
- (28) Barin, G.; Peterson, G. W.; Crocella, V.; Xu, J.; Colwell, K. A.; Nandy, A.; Reimer, J. A.; Bordiga, S.; Long, J. R., *Chem. Sci.* **2017**, *8*, 4399-4409.
- (29) Butova, V. V.; Budnyk, A. P.; Guda, A. A.; Lomachenko, K. A.; Bugaev, A. L.; Soldatov, A. V.; Chavan, S. M.; Oien-Odegaard, S.; Olsbye, U.; Lillerud, K. P.; Atzori, C.; Bordiga, S.; Lamberti, C., *Cryst. Growth Des.* **2017**, *17*, 5422-5431.
- (30) Braglia, L.; Borfecchia, E.; Lomachenko, K. A.; Bugaev, A. L.; Guda, A. A.; Soldatov, A. V.; Bleken, B. T. L.; Oien-Odegaard, S.; Olsbye, U.; Lillerud, K. P.; Bordiga, S.; Agostini, G.; Manzoli, M.; Lamberti, C., *Faraday Discuss.* **2017**, *201*, 265-286.
- (31) Gutterod, E. S.; Oien-Odegaard, S.; Bossers, K.; Nieuwelink, A. E.; Manzoli, M.; Braglia, L.; Lazzarini, A.; Borfecchia, E.; Ahmadigoltapeh, S.; Bouchevreau, B.; Lonstad-Bleken, B. T.; Henry, R.; Lamberti, C.; Bordiga, S.; Weckhuysen, B. M.; Lillerud, K. P.; Olsbye, U., *Ind. Eng. Chem. Res.* **2017**, *56*, 13207-13219.
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