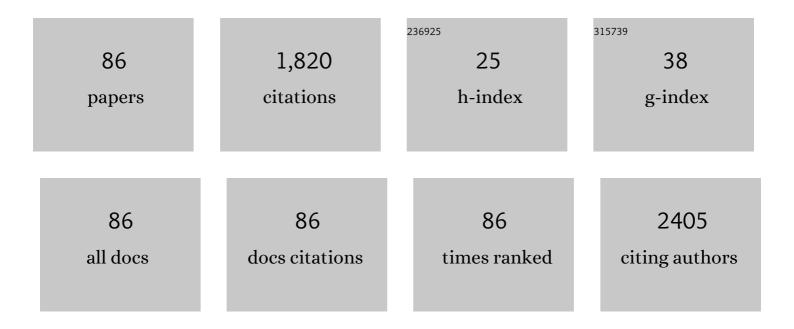
## Sara Morandi

List of Publications by Year in descending order

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| #  | Article   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Photoactive TiO2–montmorillonite composite for degradation of organic dyes in water. Journal of Photochemistry and Photobiology A: Chemistry, 2014, 295, 57-63.   | 3.9  | 103       |
| 2  | Characterization of Pt,Sn/Mg(Al)O Catalysts for Light Alkane Dehydrogenation by FT-IR Spectroscopy and Catalytic Measurements. Journal of Physical Chemistry C, 2007, 111, 14732-14742.                       | 3.1  | 93        |
| 3  | Catalytic behaviour of hybrid LNT/SCR systems: Reactivity and in situ FTIR study. Journal of Catalysis, 2011, 282, 128-144.   | 6.2  | 65        |
| 4  | Properties of NiO sputtered thin films and modeling of their sensing mechanism under formaldehyde atmospheres. Acta Materialia, 2013, 61, 1146-1153.  | 7.9  | 62        |
| 5  | Photoreduction of Mesoporous In <sub>2</sub> O <sub>3</sub> : Mechanistic Model and Utility in Gas<br>Sensing. Chemistry - A European Journal, 2012, 18, 8216-8223.   | 3.3  | 61        |
| 6  | Removal of NOx and soot over Ce/Zr/K/Me (Me = Fe, Pt, Ru, Au) oxide catalysts. Applied Catalysis B:<br>Environmental, 2017, 201, 318-330.   | 20.2 | 53        |
| 7  | The NOx storage-reduction on PtK/Al2O3 Lean NOx Trap catalyst. Journal of Catalysis, 2010, 276, 335-350.  | 6.2  | 51        |
| 8  | Photocatalytic degradation of dyes in water with micro-sized TiO2 as powder or coated on porcelain-grès tiles. Journal of Photochemistry and Photobiology A: Chemistry, 2014, 280, 27-31.                     | 3.9  | 46        |
| 9  | Pigmentary TiO2: A challenge for its use as photocatalyst in NOx air purification. Chemical Engineering Journal, 2015, 261, 76-82.  | 12.7 | 46        |
| 10 | Alkaline- and alkaline-earth oxides based Lean NOx Traps: Effect of the storage component on the catalytic reactivity. Chemical Engineering Journal, 2010, 161, 416-423.                                      | 12.7 | 45        |
| 11 | Ptâ^`K/Al <sub>2</sub> O <sub>3</sub> NSR Catalysts: Characterization of Morphological, Structural and Surface Properties. Journal of Physical Chemistry C, 2010, 114, 1127-1138.                             | 3.1  | 44        |
| 12 | New insights on the adsorption, thermal decomposition and reduction of NOx over Pt- and Ba-based catalysts. Applied Catalysis B: Environmental, 2018, 224, 249-263.   | 20.2 | 42        |
| 13 | (Ti, Sn)O2 binary solid solutions for gas sensing: Spectroscopic, optical and transport properties.<br>Sensors and Actuators B: Chemical, 2008, 130, 38-45.   | 7.8  | 40        |
| 14 | Low Temperature NOx Adsorption Study on Pd-Promoted Zeolites. Topics in Catalysis, 2018, 61, 2021-2034.   | 2.8  | 40        |
| 15 | Nano and micro-TiO <sub>2</sub> for the photodegradation of ethanol: experimental data and kinetic modelling. RSC Advances, 2015, 5, 53419-53425.   | 3.6  | 37        |
| 16 | Reaction pathway of the reduction by CO under dry conditions of NOx species stored onto PtBa/Al2O3<br>Lean NOx Trap catalysts. Journal of Catalysis, 2010, 274, 163-175.                                      | 6.2  | 34        |
| 17 | (Ti, Sn)O2 solid solutions for gas sensing: A systematic approach by different techniques for different calcination temperature and molar composition. Sensors and Actuators B: Chemical, 2009, 139, 329-339. | 7.8  | 33        |
| 18 | CO <sub>2</sub> hydrogenation to methanol and hydrocarbons over bifunctional Zn-doped<br>ZrO <sub>2</sub> /zeolite catalysts. Catalysis Science and Technology, 2021, 11, 1249-1268.                          | 4.1  | 33        |

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| #  | Article   | IF   | CITATIONS |
|----|---|------|-----------|
| 19 | FT-IR characterization of supported Ni-catalysts: Influence of different supports on the metal phase properties. Catalysis Today, 2012, 197, 38-49.   | 4.4  | 31        |
| 20 | Surface decoration of commercial micro-sized TiO2 by means of high energy ultrasound: A way to<br>enhance its photocatalytic activity under visible light. Applied Catalysis B: Environmental, 2015, 178,<br>124-132. | 20.2 | 31        |
| 21 | Dynamics of Reactive Species and Reactant-Induced Reconstruction of Pt Clusters in Pt/Al <sub>2</sub> O <sub>3</sub> Catalysts. ACS Catalysis, 2019, 9, 7124-7136.  | 11.2 | 31        |
| 22 | Electrical and spectroscopic properties of Ti0.2 Sn0.8O2 solid solution for gas sensing. Thin Solid Films, 2009, 517, 6176-6183.  | 1.8  | 30        |
| 23 | Facile synthesis of ZnO nano-structures: Morphology influence on electronic properties. Sensors and Actuators B: Chemical, 2017, 249, 581-589.  | 7.8  | 30        |
| 24 | Synthesis and characterisation of gas sensor materials obtained from Pt/Zn/Al layered double hydroxides. Sensors and Actuators B: Chemical, 2006, 118, 215-220.   | 7.8  | 29        |
| 25 | The influence of CO2 and H2O on the storage properties of Pt-Ba/Al2O3 LNT catalyst studied by FT-IR spectroscopy and transient microreactor experiments. Catalysis Today, 2014, 231, 116-124.                         | 4.4  | 29        |
| 26 | Aspirin and paracetamol removal using a commercial micro-sized TiO2 catalyst in deionized and tap water. Environmental Science and Pollution Research, 2017, 24, 12646-12654.   | 5.3  | 26        |
| 27 | Low-temperature Pd/FER NOx adsorbers: Operando FT-IR spectroscopy and performance analysis.<br>Catalysis Today, 2021, 360, 317-325.   | 4.4  | 26        |
| 28 | (Ti,Sn) solid solutions as functional materials for gas sensing. Sensors and Actuators B: Chemical, 2014, 194, 195-205.   | 7.8  | 25        |
| 29 | Copper NPs decorated titania: A novel synthesis by high energy US with a study of the photocatalytic activity under visible light. Ultrasonics Sonochemistry, 2016, 31, 295-301.                                      | 8.2  | 25        |
| 30 | Tunable formation of nanostructured SiC/SiOC core-shell for selective detection of SO2. Sensors and Actuators B: Chemical, 2020, 305, 127485.   | 7.8  | 25        |
| 31 | Multifunctional Catalyst Combination for the Direct Conversion of CO <sub>2</sub> to Propane. Jacs Au, 2021, 1, 1719-1732.  | 7.9  | 25        |
| 32 | The NOx Reduction by CO on a Ptâ^'K/Al2O3 Lean NOx Trap Catalyst. Journal of Physical Chemistry C,<br>2011, 115, 1277-1286.   | 3.1  | 22        |
| 33 | Micro-TiO2 coated glass surfaces safely abate drugs in surface water. Journal of Hazardous<br>Materials, 2019, 363, 328-334.  | 12.4 | 22        |
| 34 | FT-IR and UV-Vis-NIR characterisation of pure and mixed MoO3 and WO3 thin films. Thin Solid Films, 2005, 490, 74-80.  | 1.8  | 21        |
| 35 | Structural and spectroscopic characterization of Mo1â°'xWxO3â^'δ mixed oxides. Journal of Solid State<br>Chemistry, 2009, 182, 3342-3352.   | 2.9  | 21        |
| 36 | Synthesis and characterization of Pt/Mg(Al)O catalysts obtained from layered double hydroxides by different routes. Microporous and Mesoporous Materials, 2007, 103, 48-56.   | 4.4  | 20        |

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|----|--|------|-----------|
| 37 | Looking for the active hydrogen species in a 5Âwt% Pt/C catalyst: a challenge for inelastic neutron scattering. Faraday Discussions, 2018, 208, 227-242.   | 3.2  | 20        |
| 38 | MoO3–WO3 mixed oxide powder and thin films for gas sensing devices: A spectroscopic characterisation. Sensors and Actuators B: Chemical, 2005, 111-112, 28-35.   | 7.8  | 19        |
| 39 | FT-IR investigation of NOx storage properties of Pt–Mg(Al)O and Pt/Cu–Mg(Al)O catalysts obtained from hydrotalcite compounds. Microporous and Mesoporous Materials, 2008, 107, 31-38.  | 4.4  | 19        |
| 40 | Electrical and spectroscopic analysis in nanostructured SnO2: "Long-term―resistance drift is due to<br>in-diffusion. Journal of Applied Physics, 2011, 110, .  | 2.5  | 19        |
| 41 | Effect of water and ammonia on surface species formed during NOx storage–reduction cycles over<br>Pt–K/Al2O3 and Pt–Ba/Al2O3 catalysts. Physical Chemistry Chemical Physics, 2013, 15, 13409.  | 2.8  | 18        |
| 42 | Micro-sized TiO2 as photoactive catalyst coated on industrial porcelain grès tiles to photodegrade<br>drugs in water. Environmental Science and Pollution Research, 2018, 25, 20348-20353.   | 5.3  | 17        |
| 43 | Structural and mechanistic insights into low-temperature CO oxidation over a prototypical high<br>entropy oxide by Cu L-edge operando soft X-ray absorption spectroscopy. Physical Chemistry Chemical<br>Physics, 2021, 23, 26575-26584. | 2.8  | 17        |
| 44 | Reduction by CO of NOx species stored onto Pt–K/Al2O3 and Pt–Ba/Al2O3 lean NOx traps. Catalysis<br>Today, 2011, 176, 399-403.  | 4.4  | 16        |
| 45 | Chemoresistive Gas Sensors for Sub-ppm Acetone Detection. Procedia Engineering, 2016, 168, 485-488.  | 1.2  | 16        |
| 46 | Supported Ni catalysts prepared by intercalation of Layered Double Hydroxides: Investigation of<br>acid–base properties and nature of Ni phases. Microporous and Mesoporous Materials, 2012, 147,<br>178-187.                            | 4.4  | 15        |
| 47 | Formaldehyde sensing mechanism of SnO <sub>2</sub> nanowires grown on-chip by sputtering techniques. RSC Advances, 2016, 6, 18558-18566.   | 3.6  | 15        |
| 48 | Cr–Sn oxide thin films: Electrical and spectroscopic characterisation with CO, NO2, NH3 and ethanol.<br>Sensors and Actuators B: Chemical, 2006, 118, 142-148.   | 7.8  | 14        |
| 49 | Growth Mechanisms of ZnO Micro-Nanomorphologies and Their Role in Enhancing Gas Sensing Properties. Sensors, 2021, 21, 1331.   | 3.8  | 14        |
| 50 | DFT and kinetic evidences of the preferential CO oxidation pattern of manganese dioxide catalysts in hydrogen stream (PROX). Applied Catalysis B: Environmental, 2022, 300, 120715.  | 20.2 | 14        |
| 51 | Photo-mineralization of noxious o-toluidine water pollutant by nano-ZnO: The role of the oxide surface texture on the kinetic path. Applied Catalysis B: Environmental, 2015, 178, 233-240.  | 20.2 | 12        |
| 52 | Nanosized SnO2 Prepared by Electrospinning: Influence of the Polymer on Both Morphology and Microstructure. Polymers, 2021, 13, 977.   | 4.5  | 12        |
| 53 | Operational functionalities of air-quality W Sn metal-oxide sensors correlating semiconductor defect levels and surface potential barriers. Science of the Total Environment, 2020, 706, 135731.   | 8.0  | 11        |
| 54 | (Ti,Sn) Solid Solution Based Gas Sensors for New Monitoring of Hydraulic Oil Degradation. Materials,<br>2021, 14, 605.   | 2.9  | 11        |

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|----|--|------|-----------|
| 55 | <i>n</i> -Heptane As a Reducing Agent in the NO <sub><i>x</i></sub> Removal over a<br>Pt–Ba/Al <sub>2</sub> O <sub>3</sub> NSR Catalyst. ACS Catalysis, 2014, 4, 3261-3272.                                    | 11.2 | 10        |
| 56 | Unraveling the effect of ZrO <sub>2</sub> modifiers on the nature of active sites on<br>AuRu/ZrO <sub>2</sub> catalysts for furfural hydrogenation. Sustainable Energy and Fuels, 2020, 4,<br>1469-1480.       | 4.9  | 10        |
| 57 | Characterization of the Evolution of Noble Metal Particles in a Commercial Three-Way Catalyst:<br>Correlation between Real and Simulated Ageing. Catalysts, 2021, 11, 247.                                     | 3.5  | 10        |
| 58 | A New Frontier of Photocatalysis Employing Micro-Sized TiO2: Air/Water Pollution Abatement and Self-Cleaning/ Antibacterial Applications. , 0, , .   |      | 9         |
| 59 | Shedding light on precursor and thermal treatment effects on the nanostructure of electrospun<br>TiO2 fibers. Nano Structures Nano Objects, 2016, 7, 49-55.  | 3.5  | 7         |
| 60 | Selective hydrogenation of cinnamaldehyde using Pd catalysts supported on Mg/Al mixed oxides:<br>Influence of the Pd incorporation method. Canadian Journal of Chemical Engineering, 2018, 96, 297-306.        | 1.7  | 7         |
| 61 | Steering polymer growth by molding nanochannels: 1,5-hexadiene polymerization in high silica mordenite. Microporous and Mesoporous Materials, 2021, 311, 110728.   | 4.4  | 7         |
| 62 | Investigation of the key parameters for gas sensing through comparison of electrospun and sol-gel semiconducting oxides. Ceramics International, 2022, 48, 20948-20960.  | 4.8  | 7         |
| 63 | Surface barrier modulation and diffuse reflectance spectroscopy of MoO3–WO3 thick films. Sensors and Actuators B: Chemical, 2006, 118, 94-97.  | 7.8  | 6         |
| 64 | FTIR and Transient Reactivity Experiments of the Reduction by H2, CO and HCs of NO x Stored Over<br>Pt–Ba/Al2O3 LNTs. Topics in Catalysis, 2013, 56, 193-200.  | 2.8  | 6         |
| 65 | Cation Dependent Carbonate Speciation and the Effect of Water. Journal of Physical Chemistry C, 2016, 120, 17570-17578.  | 3.1  | 6         |
| 66 | Dynamics and Selectivity of N2O Formation/Reduction During Regeneration Phase of Pt-Based Catalysts. Topics in Catalysis, 2018, 61, 1672-1683.   | 2.8  | 6         |
| 67 | Development of an easy portable procedure for on-site determination of mercury and methylmercury.<br>Food Chemistry, 2021, 342, 128347.  | 8.2  | 6         |
| 68 | Tailoring manganese oxide catalysts for the total oxidation of pollutants in gas and liquid phase.<br>Applied Catalysis A: General, 2021, 610, 117917.   | 4.3  | 6         |
| 69 | Zeolite/dye hybrid composites: Organization of photoactive azobenzene molecules inside AlPO4-5.<br>Microporous and Mesoporous Materials, 2018, 268, 25-30.   | 4.4  | 5         |
| 70 | Deactivation of Industrial Pd/Al <sub>2</sub> O <sub>3</sub> Catalysts by Ethanol: A Spectroscopic Study. ChemCatChem, 2021, 13, 900-908.  | 3.7  | 5         |
| 71 | Gas phase <i>vs.</i> liquid phase: monitoring H <sub>2</sub> and CO adsorption phenomena on<br>Pt/Al <sub>2</sub> O <sub>3</sub> by IR spectroscopy. Catalysis Science and Technology, 2022, 12,<br>1359-1367. | 4.1  | 5         |
| 72 | Thermal behavior of high silica mordenite. Microporous and Mesoporous Materials, 2020, 294, 109882.  | 4.4  | 4         |

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| #  | Article  | IF  | CITATIONS |
|----|--|-----|-----------|
| 73 | Recovery of hexavalent chromium from water using photoactive TiO2-montmorillonite under<br>sunlight. Mediterranean Journal of Chemistry, 2016, 5, 442-449.   | 0.7 | 4         |
| 74 | Supported PdZn nanoparticles for selective CO2 conversion, through the grafting of a heterobimetallic complex on CeZrOx. Applied Catalysis A: General, 2022, 635, 118568.                          | 4.3 | 4         |
| 75 | In-situ infrared spectroscopy as a non-invasive technique to study carbon sequestration at high pressure and high temperature. International Journal of Greenhouse Gas Control, 2016, 51, 126-135. | 4.6 | 3         |
| 76 | New Insights on the Release and Reduction of NOx Stored over PGM-Based LNT Catalysts. Topics in Catalysis, 2017, 60, 250-254.  | 2.8 | 3         |
| 77 | Ultrasensitive Gas Sensors Based on Electrospun TiO2 and ZnO. Proceedings (mdpi), 2017, 1, .   | 0.2 | 2         |
| 78 | Optical Sensing of Molecular Oxygen (O2) via Metal Oxide Photoluminescence: A Comparative Study of<br>TiO2, SnO2 and ZnO. Chemosensors, 2021, 9, 163.  | 3.6 | 2         |
| 79 | Mesoporous In2O3: Photoreduction and Gas-Sensing Properties. Zeitschrift Fur Anorganische Und<br>Allgemeine Chemie, 2012, 638, 1563-1563.  | 1.2 | 1         |
| 80 | The Role of the Nano/Microstructure in the Case of the Photodegradation of Two Model VOC<br>Pollutants Using Commercial TiO <sub>2</sub> . Energy and Environment Focus, 2015, 4, 226-231.         | 0.3 | 1         |
| 81 | Ultrasensitive Gas Sensors Based on Electrospun TiO2 and ZnO â€. Proceedings (mdpi), 2017, 1, 485.   | 0.2 | 1         |
| 82 | Metal Oxide Gas Sensors from Design to Real Applications: The Case Study of TixSn1-xO2 Solid<br>Solutions. Lecture Notes in Electrical Engineering, 2023, , 92-97.                                 | 0.4 | 1         |
| 83 | Novel Methodology Based on Thick Film Gas Sensors to Monitor the Hydraulic Oil Ageing.<br>Proceedings (mdpi), 2018, 2, .   | 0.2 | 0         |
| 84 | W-Sn Mixed Oxides and ZnO to Detect NOx and Ozone in Atmosphere. Proceedings (mdpi), 2018, 2, .  | 0.2 | 0         |
| 85 | Pathways for N2O Formation/Reduction During Operation of Commercial LNT Catalysts. Topics in Catalysis, 2019, 62, 18-26.   | 2.8 | 0         |
| 86 | Semiconductor Oxide Gas Sensors: Correlation between Conduction Mechanisms and Their Sensing Performances. , 2021, 5, .  |     | 0         |