

Posters for poster session 2

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| 30 | Filippo Manaigo | Feasibility study of plasma-based local fertilizer production |
| 31 | Andrea Marchetti | Numerical modelling of plasma assisted methane pyrolysis |
| 32 | Pierre Mathieu | Preliminary investigation of methane plasmalysis in a gliding arc plasma |
| 33 | Elizabeth Mercer | Microwave plasma conversion of martian atmosphere |
| 34 | Soad Mohsenimehr | Control of the gas flow by a surface barrier discharge |
| 35 | Maria Luiza Moreira de Azevedo | Fast pyrolysis in methane plasma |
| 36 | Beatrice Musig | Physicochemical and electrical characterization of a CeO ₂ -based nanostructured catalysts for plasma-assisted CO ₂ methanation in a DBD reactor |
| 37 | Alexander Navarrete | Plasma-catalysis reactor concepts using microwave plasmas under nanosecond pulsation |
| 38 | Christian Oberste-Beulmann | GC-MS analysis of toluene decomposition residues formed during the plasma-assisted oxygen trace removal from synthetic coke oven gas |
| 39 | Timothy Oppotsch | Plasma-assisted removal of n-Butane from contaminated air in an SDBD reactor using BaTiO ₃ as catalyst |
| 40 | Jordyn Polito | Investigation of reaction mechanisms for modification of organic molecules in cold atmospheric plasma activated water |

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| 41 | Pia-Victoria Pottkämper | Influence of nanosecond pulsed plasmas in water on copper surfaces and on nanoparticle formation |
| 42 | Rendy Prastiko | Water decontamination using a plasma-in-liquid technique, application to per- and poly-fluoroalkyl substances (PFAS) treatment |
| 43 | Dihya Sadi | Fundamental processes in CO ₂ -H ₂ plasmas : toward methanation in plasma catalysis |
| 44 | Joao Santos Sousa | Plasma kinetics of methane conversion in Ar/CH ₄ mixtures at atmospheric pressure |
| 45 | Kerstin Sgonina | Development of plasma reactors for plasma-assisted catalysis |
| 46 | Qinghao Shen | Multitemperature model of the non-thermal plasma chemical dissociation of CO ₂ |
| 47 | Zhan Shu | Evolution of atomic oxygen density in the early afterglow of a nanosecond CO ₂ discharge |
| 48 | Lucas Silberer | Characterization of CO ₂ atmospheric pulsed microwave plasmas in Surfaguide reactor with a highly time resolved optical emission spectroscopy |
| 57 | Kristina Tschulik | Plasma treatment of nanoreactors for controlled synthesis of nanomaterials and their use in electrocatalysis and sensing |
| 49 | Cas van Deursen | Effluent nozzles in Reverse-vortex-stabilized microwave plasmas for performance enhancement |

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- 50 Stijn Van Rompaey **Diagnostics and 0D modelling of methane conversion in a ns-pulsed pin-to-pin plasma reactor**
- 51 Thomas Vazquez **Cold atmospheric plasma and TiO₂ photocatalysis for the treatment of polluted indoor air**
- 52 Steijn Vervloedt **NH₃ synthesis in a catalytic atmospheric pressure RF discharge**
- 53 Yaolin Wang **Shielding protection by mesoporous catalysts for improving plasma-catalytic ambient ammonia synthesis**
- 54 Yijie Xu **Ferroelectrics-induced surface charge effect on plasma properties and instability**
- 55 Xiao Yu **Plasma process for recycling of plastic wastes towards the productions of carbon nanomaterials and hydrogen**
- 58 Hao Zhao **In situ identification of NNH and N₂H₂ by using molecular-beam mass spectrometry in plasma-assisted catalysis for NH₃ synthesis**