Exp1_ontology_test

Date: 2024-08-02 Status: Success

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Title:

Date of experiment:	31.07.2024
Experimenter:	Manuel Vollbrecht
Assistant:	Keno Krieger
Goal of Experiment:	Test ontology

Flame	Flame 1 (front) - precursors													
Sample ID	Element	Precursor (Metal)	Precursor provider (metal)	Precursor LOT number (metal)	Precursor (solvent)	Precursor provider (solvent)	Precursor LOT number (solvent)	used volume of precursor solution [ml]	precursor molarity [M]	notes:				

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Flame	lame 1 (front) - gas and dispersion parameters													
Sample ID	precursor feed rate [ml/min]	dispersion gas (type)	dispersion gas purity	dispersion gas flow rate [I/min]	fuel gas (type)	fuel gas purity	fuel gas flow rate [l/min]	O ₂ gas purity (pilot flame)	O ₂ flow rate [l/min] (pilot flame)	sheath gas (type)	sheath gas purity	sheath gas flow rate [l/min]	notes:	
exp1	5	oxygen	5.0	5	methane	3.5	1.5	5.0	3.2					

Flame 1 (fi	Flame 1 (front) - reactor set-up										
Sample ID	Nozzle type (e.g. Tethis)	nozzle-filter distance [cm]	nozzle angle [°]	pressure drop at nozzle [bar]	final pressure drop [mbar]	notes:					
exp1	Tethis	60	0	1.5	100						

Flame	lame 2 (back) - precursors												
Sample ID	Eleme nt	Precursor (Metal)	Precurs or provider (metal)	Precursor LOT number (metal)	Precurso r (solvent)	provider	Precursor LOT number (solvent)	mass of metal precursor [g]	total volume of precursor solution [ml]	precursor molarity [M]	notes:		

Flame	lame 2 (back) - gas and dispersion parameters												
Sample ID	precursor feed rate [ml/min]	dispersio n gas (type)	dispersio n gas purity	dispersio n gas flow rate [I/min]	fuel gas (type)	fuel gas purity	fuel gas flow rate [l/min]	O ₂ gas purity (pilot flame)	O ₂ flow rate [l/min] (pilot flame)	sheat h gas (type)	sheat h gas purity	sheath gas flow rate [l/min]	notes:

Flame 2 (Flame 2 (Back) - reactor set-up											
Sample ID	nozzle type (e.g. Tethis)	nozzle-filter distance [cm]	horizontal nozzle distance [cm]	nozzle angle [°]	pressure drop at nozzle [bar]	final pressure drop [mbar]	notes:					

Results				
Sample ID	empty filter [g]	covered filter [g]	sieving grid [μm]	Product after sieving [mg]
exp1	4.93	5.76	125	650

Notes/observations:

