

Materials List for:

Non-equilibrium Microwave Plasma for Efficient High Temperature Chemistry

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Materials

Name	Company	Catalog Number	Comments
1kW magnetron	Muegge	MW-GIRYJ1540-1K2-08	
Circulator with water load	Philips	2722 163 02101	
3-stub tuner	IBF-electronic	WR340PTUN3AC174A	
Applicator with sliding short	homemade		
17mm ID / 20 mm OD Quartz tube	Saillart	custom	
27mm ID / 30 mm OD Quartz tube	Saillart	custom	
18mm ID / 20 mm OD Sapphire tube	Precision Sapphire Technologies	custom	
KF-vacuum flanges	Hositrade		
Mass flow controller	Tylan/Brooks	FC-2901V-4V	
MFC control unit	MKS	PR-3000	
Pressure gauge	Edwards	ASG-2000	
Vacuum pump	Edwards	E2M18	
Nd:YAG laser	Continuum	Powerlite DLS 8000	
AR-coated window	Eksma Optics	210-1202E + 3025-i0 (coating)	
Diffraction grating	Jobin Yvon	520-25-120	
Image Intensifier	Katod	EPM102G-04-22S	
Intensifier power source	homemade		
Spectrometer lens 1	Nikon	135mm f/2 DC	
Spectrometer lens 2	Nikon	AF-S 85 mm f/1.8g	
CCD-camera	Allied Optics	Manta G-145B	
FTIR-spectrometer (exhaust)	Varian/Agilent	Cary 670	
FTIR-spectrometer (in-situ)	Bruker	Vertex 80v	
CaF2 windows	Crystran	CAFP25-2U	