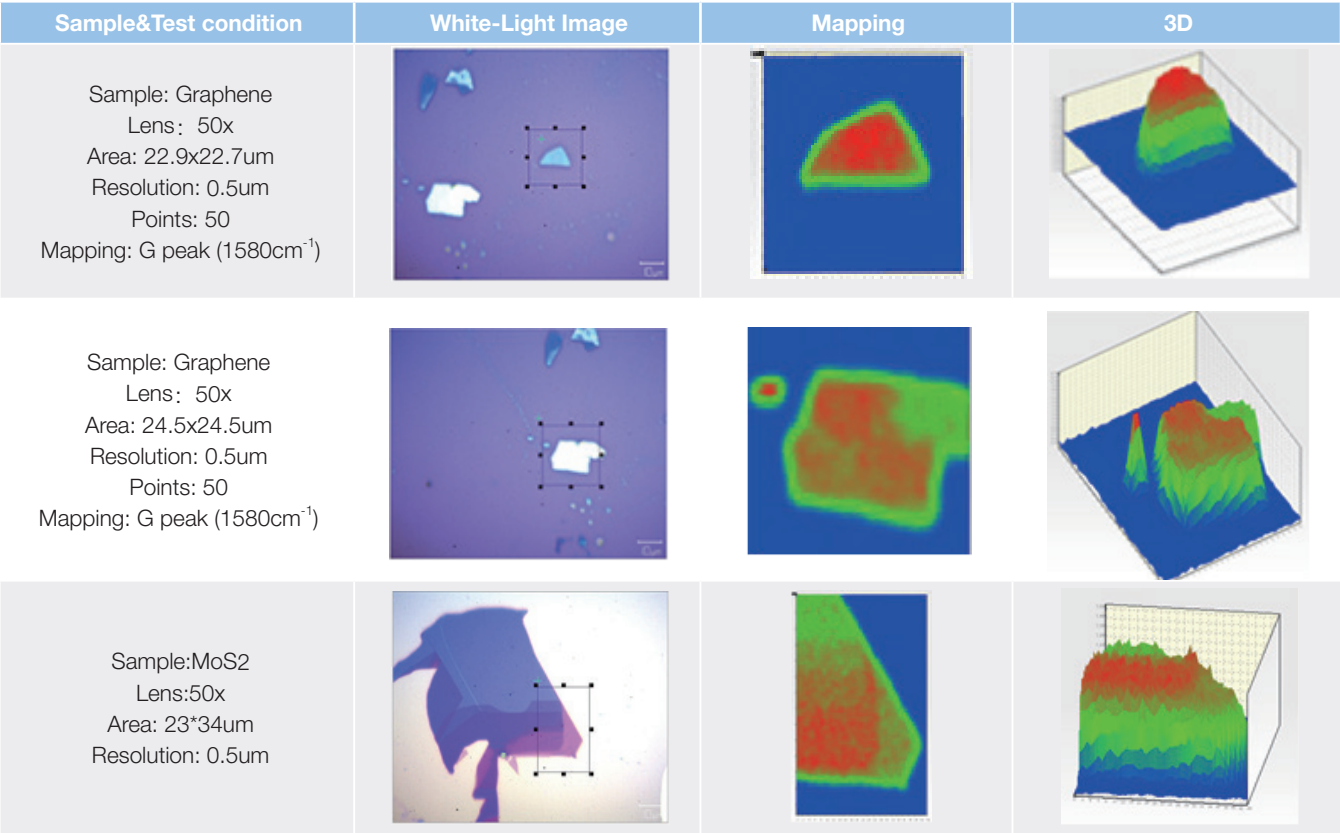


Raman Mapping



System Specification:

Laser wavelength(nm)	532	638	785
Laser power(mW)	100	50	100
Raman shift range(cm ⁻¹)	80-9000	80-6000	80-3200
Microscope	Upright only	Upright only	Upright only
Sample stage	Manual (Motorized optional)	Manual (Motorized optional)	Manual (Motorized optional)
Objectives	10x/50x/100x, 50xLWD Semi-APO	10x/50x/100x, 50xLWD Semi-APO	10x/50x/100x, 50xLWD Semi-APO
Epi illumination	QTH 12V, 100W	QTH 12V, 100W	QTH 12V, 100W
Spectrograph	320 focal length, Czerny-Turner 1800g/500nm blazed	320 focal length, Czerny-Turner 1200g/750nm blazed	320 focal length, Czerny-Turner 600g/750nm blazed
Grating option	600g/500nm blazed 150g/500nm blazed	600g/750nm blazed 150g/750nm blazed	300g/750nm blazed 150g/750nm blazed
Spectral resolution@1702cm ⁻¹	1.5	1.5	2.3
Spectral CCD format	2000x256 Back-illuminated Deep-depletion 15x15um pixel size TE cooling to -60°	2000x256 Back-illuminated Deep-depletion 15x15um pixel size TE cooling to -60°	2000x256 Back-illuminated Deep-depletion 15x15um pixel size TE cooling to -60°

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RTS-Mini confocal Raman System is fully suited to micro measurement and supply mapping function; Raman module is not only very compact & easy to connect by fiber to any spectrograph or micro-Raman system and can be easily switched in and out of the optical path, but also be integrated with most upright microscopes; The flexibility ensure range of options , upgrades and accessories to suit all budgets and different applications;

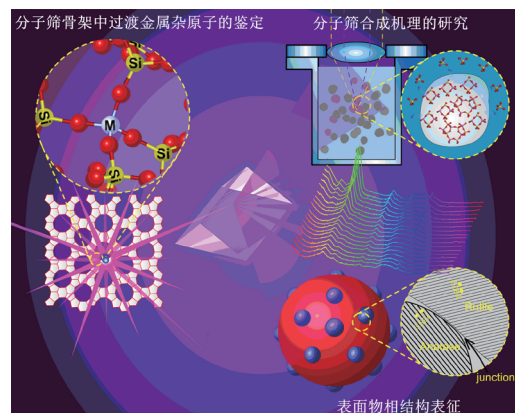
confocal Raman System provided by RTS-Mini is a non-destructive technique with minimum sample preparation required. The sample are extensive materials such as polymer, ceramic and nanomaterials as 2D materials: graphene or monolayer of MoS2 etc. Some biological samples like blood, tissue and cell are suitable for Raman measurement by certain laser excitation wavelength;

Raman is an ideal technique for research and industry offering high quality data, reliability, versatility over other analytical techniques. Benefits not only include the range of samples that are suitable for analysis, but also the information content that is provided.

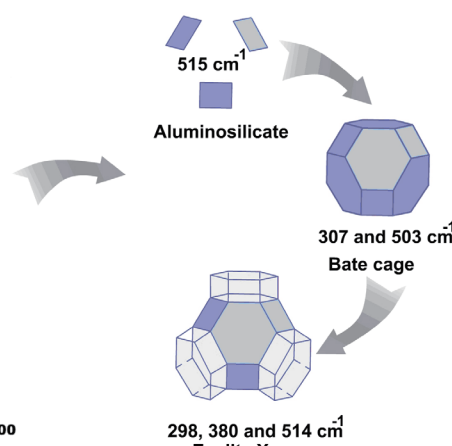
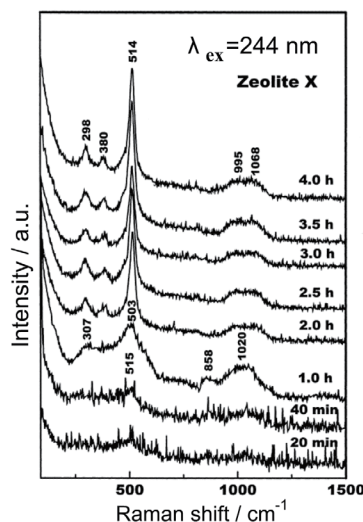
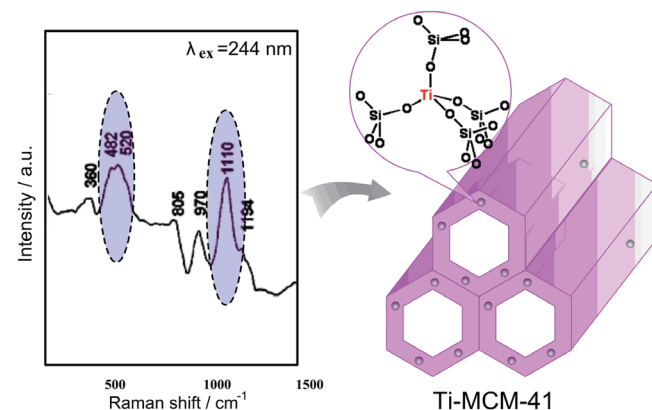
The main applications



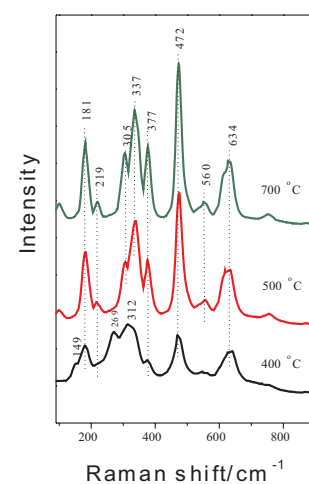
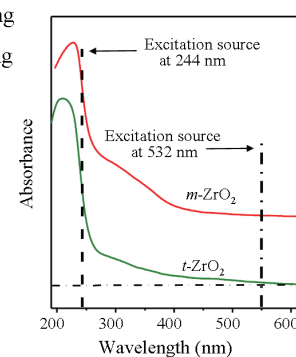
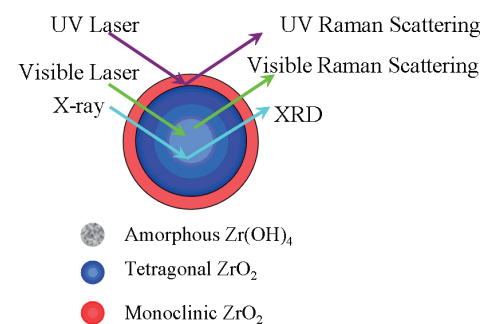
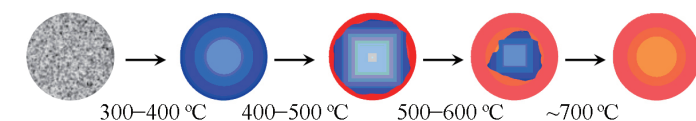
Applications Examples:



Microporous-ultra-low content of isolated transition metal ions in the framework of mesoporous materials (e.g. Ti-MCM-41) can be reliably and accurately identified by ultraviolet resonance Raman spectroscopy.



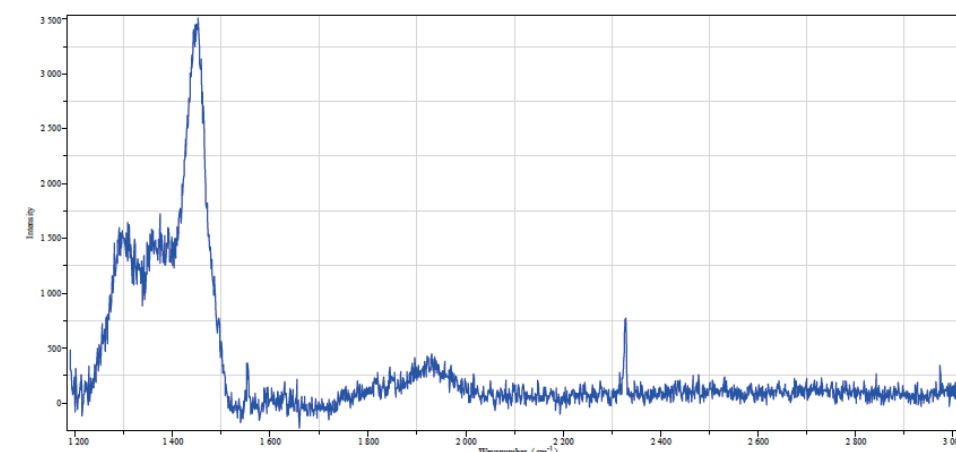
UV Raman to avoid fluorescence and increase sensitivity
The characteristics of the degree can be used for the synthesis process of molecular sieve
Synthetic precursors, intermediates and molecular sieves in
Study on the evolution of crystals



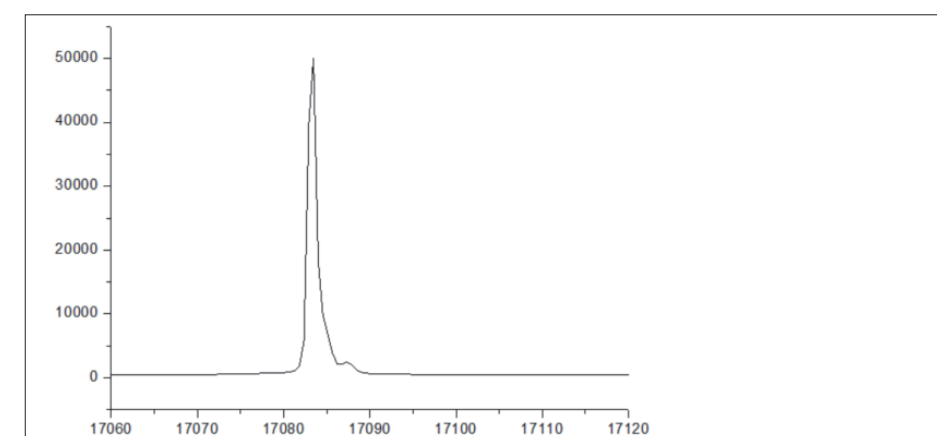
Raman spectroscopy can selectively obtain surface phase information of substances with strong absorption in the ultraviolet region (such as TiO₂ and ZrO₂)

System Performance:

3rd Raman peak of monocrystalline silicon. S/N:>20:1



Spectral Resolution: <1.5cm⁻¹ at 585nm (532 excitation)



Low wavenumber capability, 60cm⁻¹ typical, 80cm⁻¹ guaranteed

