Pictures to:

6.3 Pores in Semiconductors

Thus is a picture that shows macropores in Si that almost extend throughout the thickness of the specimen. I'm not sure where it was published that's why I I give no references. Find then yourself; it's easy.



A self-organized single pore crystal in InP. The inset shows the Fourirer transform ("diffraction" picture) and proves the single crystal property.

This crystal results form self-organized current oscillations in space (see below) or some of the papers given



As above, but at larger magnification.





A frustrated pore crystal in Si. The inset shows the Fourier transform and the crystallinity relative to the second nearest pores.

Refer to one of the many papers / presentations for details



Pore structure in InP developing into "Pore bundle" oscillations. A rather weird case of self-organization but understandable within our meta theory of pore formation.

| Асс.∨ Spot Magn WD |
|--------------------|

As above at higher magnification.

| Acc.V Spot Magn WD 5 µm 10.0 kV 3.0 5434x 9.4 AMAT Kiel |
|--|

The pore growth mode transition between crystal and curro pores becomes visible.



Pore growth mode transition between curro and crysto pores in InP



Visualization of the three-dimensional single pore crystal in InP.



Attempt for making wave guides in a InP substrate by using the special properties so pore growth

