

One Tool Does Not Fit All



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More AFM techniques for nanomechanics



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Accurate tools to measure nanoscale properties of diverse materials

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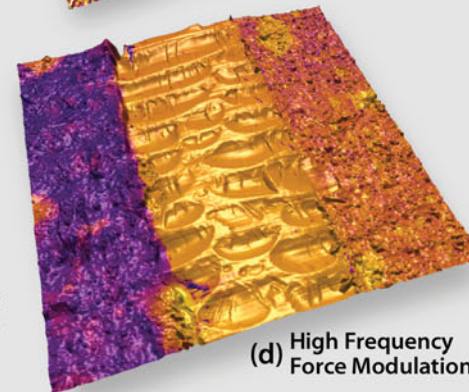
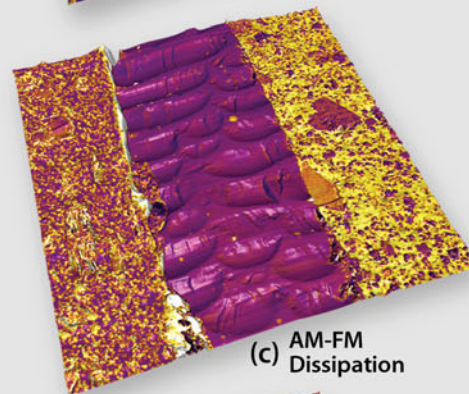
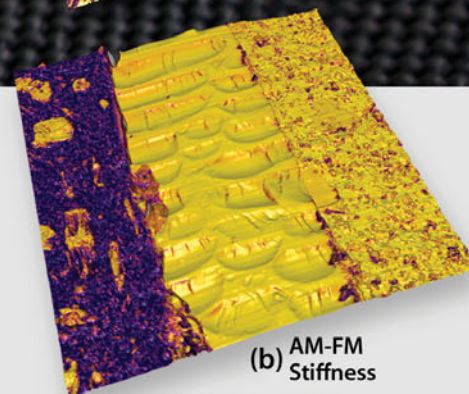
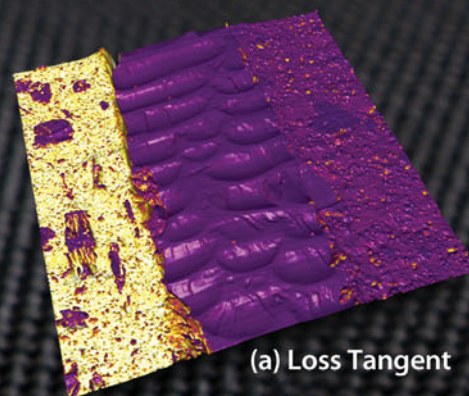
"Opportunities, Challenges & Frontiers of Nanomechanical Measurements with AFM"

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Images of a Viton®/epoxy/EPDM (left to right) sandwich. The quantitative Loss Tangent data shown in (a) clearly indicates the higher Loss Tangent of the Viton. The stiffness is measured by tracking the resonance frequency of the second mode (b), clearly resolving the difference in the elastic moduli of the Viton (Shore A 78) and the EPDM (Shore A 58). The AM-FM dissipation, related to the loss modulus is shown in (c). Finally, the Force Modulation Amplitude image (d) also shows the stiffness measured with a second technique, at much higher penetration depth, providing complementary information to the AM-FM results in (b).

strontium doped lanthanum III-IV nitride materials crystal growth cobalt metamaterials
 organo-r illics tantalum alloys cerium polishing powder thin film osynthetics
 dium spong **Li** **Be** europium pellets atomic layer deposition semiconductor
 battery lith **Na** **Mg** aerospace ultra-light alloys iridium crucible erbium
 ovskite scandium-aluminum green technology single crystal
 mischmet **K** **Ca** **Sc** **Ti** **V** **Cr** **Mn** **Fe** **Co** **Ni** **Cu** **Zn** **Ga** **Ge** **As** **Se** **Br** **Kr** cones
 cathode solar ener **Rb** **Sr** **Y** **Zr** **Nb** **Mo** **Tc** **Ru** **Rh** **Pd** **Ag** **Cd** **In** **Sn** **Sb** **Te** **I** **Xe** superconduc
 vanadium **Cs** **Ba** **La** **Hf** **Ta** **W** **Re** **Os** **Ir** **Pt** **Au** **Hg** **Tl** **Pb** **Bi** **Po** **At** **Rn** tantalum
 CIGS **Fr** **Ra** **Ac** **Rf** **Db** **Sg** **Bh** **Hs** **Mt** **Ds** **Rg** **Cn** **Uut** **Uuq** **Uup** **Uuh** **Uus** **Uuo** macromole
 super alloys

optoelectronics yttrium foil liquid gallium lump
 gallium arsenide

Ce	Pr	Nd	Pm	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu
Th	Pa	U	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Md	No	Lr

diamond micropowl gallium lump
 gold nanoparticles

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