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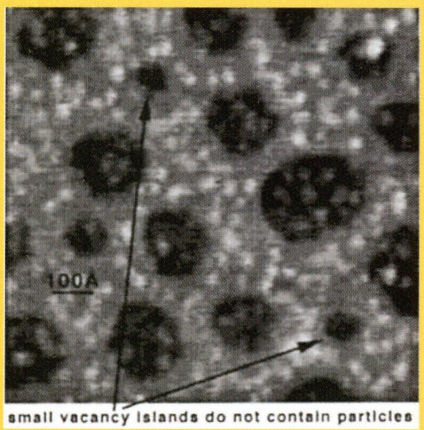

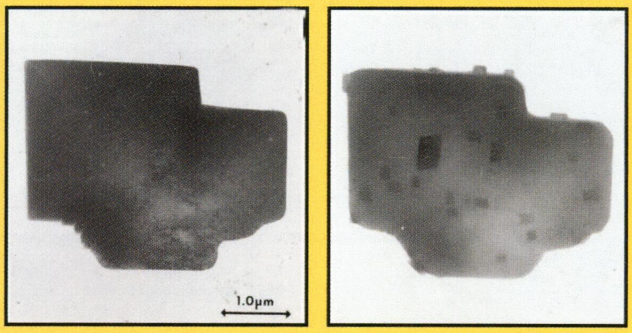

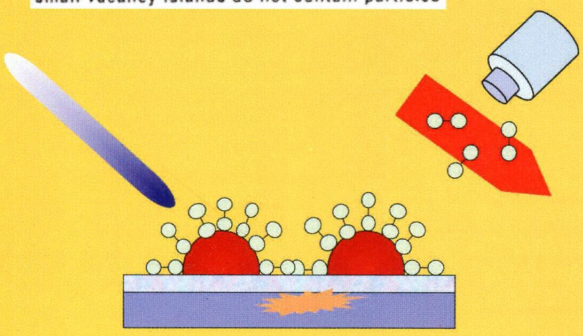

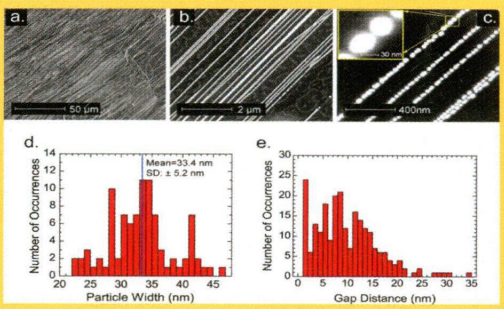

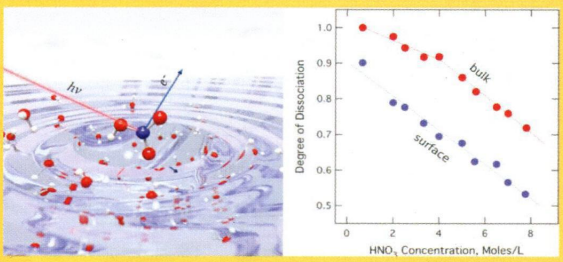

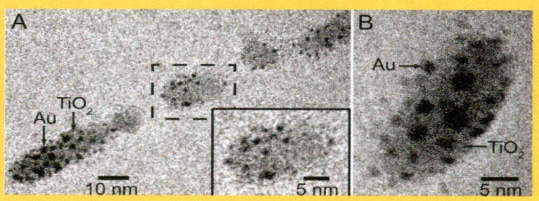

Examples of Research Interests of John C. Hemminger and His Students

JOHN C. HEMMINGER FESTSCHRIFT

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ON THE COVER: Clockwise from upper left: (a) STM image showing carbon particles formed from the dehydrogenation of ethylene on a Pt surface with monolayer deep "pit" defects. (From: Nafisi, K.; Samu, J.; Hemminger, J. C. Controlled Size, Nanometer-Scale, Reaction Vessels in Two Dimensions. *J. Phys. Chem. B* **2000**, *104* (44), 10111−10115.) (b) SEM image of $NaNO_3$ particles formed on a NaCl particle. (From: Finlayson-Pitts, B. J.; Hemminger, J. C. Physical Chemistry of Airborne Sea Salt Particles and Their Components. *J. Phys. Chem. A* **2000**, *104* (49), 11463−11477.) (c) SEM image of Ag nanoparticles aligned in rows at step edges on an HOPG surface that were utilized in polarized SERS experiments. (From: Lou, W.; van der Veer, W.; Chu, P.; Mills, D. L.; Penner, R. M.; Hemminger, J. C. Polarization-Dependent Surface Enhanced Raman Scattering from Silver 1D Nanoparticle Arrays. *J. Phys. Chem. C* **2008**, *112* (31), 11609−11613.) (d) TEM images of TiO_2 nanoparticles on HOPG that were decorated with Au nanoparticles by photoelectrochemical deposition. (e) Dissociation of nitric acid in water as a function of concentration as determined by liquid-jet X-ray photoelectron spectroscopy. (From: Lewis, T.; Winter, B.; Stern, A. C.; Baer, M. D.; Mundy, C. J.; Tobias, D. J.; Hemminger, J. C. Does Nitric Acid Dissociate at the Aqueous Solution Surface? *J. Phys. Chem. C* **2011**, *115* (43), 21183−21190.) (f) Schematic of a laser-induced thermal desorption postionization mass spectrometry experiment. This special issue was organized by Guest Editors Heather C. Allen, Hendrik Bluhm, Matthew A. Brown, and Barbara J. Finlayson-Pitts.

SPECIAL ISSUE: JOHN C. HEMMINGER FESTSCHRIFT

Special Issue Preface

Articles

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