

PUBLICATIONS:

* indicates corresponding author

1. J. S. Ozcomert, Woei Wu Pai, N. C. Bartelt, and J. E. Reutt-Robey, "Step Configurations near Pinning Sites on Ag(110)", *Surf. Sci.*, **293**, 183 (1993)
2. J. S. Ozcomert, Woei Wu Pai, N. C. Bartelt, and J. E. Reutt-Robey, "Kinetics of Oxygen-Induced Faceting of Ag(110)", *Phys. Rev. Lett.* **72**, 258 (1994)
3. J. S. Ozcomert, Woei Wu Pai, N. C. Bartelt, and J. E. Reutt-Robey, "Scanning Tunneling Microscopy of the Faceting Dynamics of Stepped Ag(110) Upon Oxygen Exposure", *J. Vac. Sci. and Technol.* **A12**, 2224 (1994)
4. Woei Wu Pai, J. S. Ozcomert, T. L. Einstein, and J. E. Reutt-Robey, "Terrace-Width Distributions on Vicinal Ag(110): Evidence of Oscillatory Interactions", *Surf. Sci.* **307-309**, 747 (1994)
5. Woei Wu Pai, N. C. Bartelt, M. R. Peng, and J. E. Reutt-Robey, "Steps as Adatom Sources for Surface Chemistry - Oxygen Overlayer Formation on Ag(110)", *Surf. Sci. Lett.* **330**, L679 (1995)
6. J. S. Ozcomert, Woei Wu Pai, N. C. Bartelt, and J. E. Reutt-Robey, "A Dynamic View of Step Configurations on Ag(110) and Their Role in the Formation of Oxygen Overlayer", *MRS symposium proceedings*, Vol. **355**, 115 (1995), (invited)
7. Woei Wu Pai, N. C. Bartelt, and J. E. Reutt-Robey, "Fluctuation Kinetics of an Isolated Ag(110) step", *Phys. Rev.* **B53**, 15991 (1996)
8. Woei Wu Pai and J. E. Reutt-Robey, "Formation of (nx1)-O/Ag(110) Overlayers and the Role of Step-edge Atoms", *Phys. Rev.* **B53**, 15997 (1996)
9. D. Wulipitiya, P. A. Dowben, J. D. Zhang, Woei Wu Pai and J. F. Wendelken, "The Adsorption and Desorption of Ferrocene on Ag(100)", *Surf. Sci.* **367**, 20 (1996)
10. Woei Wu Pai, J. D. Zhang, J. F. Wendelken and R. J. Warmack, "Magnetic Nanostructures Fabricated by STM-assisted Chemical Vapor Deposition", *J. of Vac. Sci. and Technol.* **B15**(4), 785 (1997)
11. C. Waldfried, et al. and Woei Wu Pai et al. and N. M. Boag, "The preferential Bonding Orientations of Ferrocene on Surfaces", *J. Chem. Phys.* **B101**, 47, 9782 (1997)
12. Woei Wu Pai, Zhenyu Zhang, J. D. Zhang and J. F. Wendelken, "Direct Visualization in Manipulation of Stable Molecular Radicals at Room Temperature", *Surf. Sci. Lett.* **393**, L106 (1997)
13. Woei Wu Pai, A. K. Swan, Zhenyu Zhang, and J. F. Wendelken, "Island Diffusion and Coarsening on Metal (100) Surfaces", *Phys. Rev. Lett.* **79**, 3210 (1997)
14. J. E. Reutt-Robey, Woei Wu Pai "Mass Transfer in Surface Chemical Processes : Adsorption, Faceting and Reaction on Ag(110)", in "Surface Diffusion: atomistic and collective processes", edited by M.C. Tringides and M. Scheffler (Plenum Press, New York) p. 475 (1998)
15. J. F. Wendelken, A. K. Swan, Woei Wu Pai, and J. K. Zuo, "Morphology and Energy Barriers in Homoepitaxial Growth and Coarsening: A Case Study for Cu(100)", in "Morphological organization in epitaxial growth and removal", edited by Z.Y. Zhang and M. Lagally (World Scientific Series, Singapore) p. 320 (1999)
16. Woei Wu Pai, Y. H. Peng, W. F. Chung, S. Y. Wang, K. N. Chen, and H. H. Cheng, "Unusual Surface Undulations Observed in Low Temperature Ge/Si(100) Epitaxy", in "Growth, Evolution and Properties of Surfaces, Thin Films and Self-Organized Structures", 2000 MRS fall meeting proceeding, (2001)
17. W. W. Pai, J. F. Wendelken, C.R. Stoldt, P.A. Thiel, J. W. Evans, and D. J. Liu, "Evolution of Wormlike Two-Dimensional Clusters on Metal Surfaces", *Phys. Rev. Lett.* **86**, 3088(2001)
18. Rodriguez de la Fuente, J. A. Zimmerman, M. A. Gonzalez, J. de la Figuera, J. C. Hamilton, Woei Wu Pai, and J. M. Rojo, "Dislocation Emission around Nanoindentations on a (001) fcc Metal Surface Studied by STM and Atomistic Simulations", *Phys. Rev. Lett.* **88**, 036101(2002)
19. M-H. Lee, K. F. Chen, C. C. Lai, C. W. Liu, Woei Wu Pai, M. J. Chen, and C. F. Lin, "The roughness-enhanced light emission from metal-oxide-silicon light-emitting diodes using very high vacuum prebake", *Jpn. J. Appl. Phys. Part2*, **41**, L326(2002)

20. C. H. Lin, F Yuan, C. R. Shie, K. F. Chen, B. C. Hsu, M. H. Lee, Woei Wu Pai, C. W. Liu, "Roughness-enhanced reliability of MOS tunneling diodes", IEEE Electr Device Letters, 23, 431(2002)
21. Woei Wu Pai, D. J. Liu, "Evolution of 2D Nanoclusters on Metal Surfaces", p.91 in "Evolution of two-dimensional nanoclusters on surfaces", p.105 in "NanoScience and Technology, novel structures and phenomena", Z. K. Tang, P. Sheng eds, Taylor&Francis, (2002)
22. Woei Wu Pai, Ching-Ling Hsu, C. R. Chiang, Y. Chang, K. C. Lin, "Origin of Peculiar STM Molecular Contrast in $C_{60}/Ag(100)$ ", Surf. Sci. Lett. **519**, L605(2002)
23. Woei Wu Pai, Ching-Ling Hsu, "Ordering of an Incommensurate Molecular Layer with Adsorbate-Induced Reconstruction: $C_{60}/Ag(100)$ ", Phys. Rev. Rapid Comm., **B68**, 121403(R) (2003)
24. Ching-Ling Hsu, Woei Wu Pai, "Aperiodic Incommensurate Phase of C_{60} Monolayer on $Ag(100)$ ", Phys. Rev. **B68**, 245414(2003) *selected for on-line virtual journal of NanoScience and Nanotechnology 12/2003
25. Woei Wu Pai, Ching-Ling Hsu, L. Y. Sin, T. B. Tang, K. C. Lin, "Structure and Ordering of a Molecule Layer with Adsorbate-Induced Reconstruction: $C_{60}/Ag(100)$ ", AIP Conf. Proc. **696**, 513 (2003)
26. Woei Wu Pai, Ching-Ling Hsu, K. C. Lin, T. B. Tang, "Structural Relaxation of Adlayers in Presence of Adsorbate-Induced Reconstruction: $C_{60}/Cu(111)$ ", Phys. Rev. **B69**, 125405(2004) *selected for on-line virtual journal of NanoScience and Nanotechnology 03/29/2004
27. Yuet Loy Chan, Woei Wu Pai, Tung J. Chuang, "Direct Observation of Methyl Radicals Islanding on Copper Surface and its Effects on the Kinetics of Catalytic Reaction", J. Phys. Chem. **B108**, 815 (2004)
28. Woei Wu Pai, C. L. Hsu, K. C. Lin, T. B. Tang, "Characterization and Control of Molecular Ordering on Adsorbate-Induced Reconstructed Surfaces", Appl. Surf. Sci., **241**, 194 (2005)
29. Woei Wu Pai, Yuet Loy Chan, and Tung J. Chuang, "Chemisorption of Methyl (CH_3) and Methylnitrene (NCH_3) Radicals on Cu surfaces studied by STM and LEED", Chinese J. of Phys., **43**, 212 (2005)
30. K. C. Lin, Y. H. Chiu, J. H. Lin and Woei Wu Pai, "A Quantitative Analysis of the Shape Transition of Ge Islands on Si(100) with nc-AFM", Nanotechnology, **16**, S63 (2005)
31. L. Y. Mandy Sin, T. B. Tang, and Woei Wu Pai, "Structural transformation of mixed C_{60} and C_{70} fullerene monolayer on $Ag(100)$ ", Jpn. J. Appl. Phys. Part2, **45** (3B): 2372 (2006)
32. Woei Wu Pai, Y. L. Chan, S. W. Chang, T. J. Chuang, C. H. Lin, "Adsorption of methyl (CH_3) and methylnitrene (NCH_3) radicals on Cu surfaces studied by STM", Jpn. J. Appl. Phys. Part2, **45** (3B): 2377 (2006)
33. C. H. Lin, Woei Wu Pai, F. Y. Chang, H. H. Lin, "A comparative study of InAs quantum dots with different InGaAs capping methods", Appl. Phys. Lett. **90**, 063102 (2007) *selected for on-line virtual journal of NanoScience and Nanotechnology 02/01/2007
34. C. C. Kuo, C. H. Lin, K. C. Lin, T. B. Tang ,and Woei Wu Pai, "Novel superstructures of alkali doped C_{60} films on $Ag(111)$ and $Cu(111)$ surfaces", Surf. Rev. and Lett. **14**, 739, (2007)
35. Woei Wu Pai^{*}, T. Y. Wu, C. H. Lin,B. X. Wang, Y. S. Huang, and H. L. Chou,"A cross-sectional scanning tunneling microscopy study of IrO_2 rutile single crystals", Surf. Sci. **601**, L69 (2007)
36. Y. F. Huang, A. R. Inigo, C. C. Chang, K. C. Li, C. F. Liang, C. W. Chang, T. S. Lim, S. H. Chen, J. D. White, U. S. Jeng, A. C. Su, Y. S. Huang, K. Y. Peng, S. A. Chen, W. W. Pai, C. H. Lin, A. R. Tameev, S. V. Novikov, A. V. Vannikov and W. S. Fann, "Nanostructure-dependent Vertical Charge Transport in MEH-PPV Films", Adv. Func. Mater. **17**, 2902 (2007)

37. X.Q. Zhang, W. He, A.D. Zhao, H. N. Li, L. Chen, Woei Wu Pai, J. G. Hou, M.M.T. Loy, J.L. Yang, X. D. Xiao, "Geometric and electronic structure of a C₆₀ monolayer on Ag(100)", Phys. Rev. B**75**, 235444 (2007)
38. J. I. Tsai, W. W. Pai, F.C. Hsu, P.J. Chen, C. C. Teng, T.S. Liao, "Relays eliminate high-voltage noise", EDN (Electronics design, strategy, news) **52**(19)66 (2007)
39. C. H. Lin, K. C. Lin, Tong B. Tang, and Woei Wu Pai* , "Anomalous Surface Diffusion of C₆₀ and Anisotropic Growth of Nano Islands on Ni(111)", J. of Nanoscience and Nanotechnology, **8**, 602, (2008)
40. Woei Wu Pai*, S. H. Huang, Ying S. Meng, Y. C. Chao, C. H. Lin, H. L. Liu, F. C. Chou, "Sodium Trimer Ordering on Na_xCoO₂ Surface", Phys. Rev. Lett., **100**, 206404 (2008) :
41. F. C. Chou, M. -W. Chu, G. J. Shu, F.-T. Huang, Woei Wu Pai, H. S. Sheu, and Patrick A. Lee, "Sodium Ion Ordering and Vacancy Cluster Formation in Na_xCoO₂ (x=0.71 and 0.84) Single Crystals by Synchrotron X-Ray Diffraction", Phys. Rev. Lett. **101**, 127404 (2008)
42. T.S. Lim, C. C. Fu, K. C. Lee, H. Y. Lee, K. Chen, W. F. Cheng, Woei Wu Pai, H. C. Chang, and W. S. Fann, "Fluorescence enhancement and lifetime modification of single nanodiamonds near a nanocrystalline silver surface", Physical Chemistry Chemical Physics, **11**, 1508-1514 (2009)
43. P. K. Lin, K. H. Lin, C. C. Fu, K.-C. Lee, P. K. Wei, Woei Wu Pai, P. S. Tsao, Y.-L. Chen, and W. S. Fann, "One-Dimensional Dynamics and Transport of DNA Molecules in a Quasi-Two-Dimensional Nanoslit", Macromolecules, **42**, 1770-1774 (2009)
44. J. P. Chou, Woei Wu Pai*, C. C. Kuo, K. D. Lee, C. H. Lin, C. M. Wei, "Promotion of CO oxidation on bimetallic Au-Ag(110) surface: a combined microscopy and theoretical study", J. of Phys. Chem. C, **113**, 13151-13159 (2009)
45. Chi-Fu Yeh, Pei-Ze Huang, Woei Wu Pai, LeeYih Wang, "Synthesis and direct visualization of electroactive unimolecular core-shell nanoparticle", Macromolecules, **42**, 3873-3876 (2009)
46. X. Q. Shi, Woei Wu Pai, X. D. Xiao, J. I. Cerda, R. Q. Zhang, C. Minot, and M. A. van Hove, "Significant negative differential resistance predicted in scanning tunneling spectroscopy for a C₆₀ monolayer on a metal surface", Phys. Rev. B, **80**, 075403 (2009)
*selected for on-line virtual journal of NanoScience and Nanotechnology
47. Woei Wu Pai*, H. T. Jeng, C. -M. Cheng, C. -H. Lin, X. D. Xiao, A. D. Zhao, X. Q. Zhang, X. Q. Shi, X. Geng, M. A. Van Hove, C. -S. Hsue, K. D. Tsuei, "Optimal electron doping of a C₆₀ monolayer on Cu(111) via interface reconstruction", Phys. Rev. Lett. **104**, 036103 (2010)
48. Ming-Feng Hsieh, Jen-Yin Cheng, Jenq-Cheng Yang and Deng-Sung Lin, Karina Morgenstern, Woei Wu Pai, "Determination of dissociative fragment-adsorbate interaction energy during chemisorption of the diatomic molecule HCl on Si(100)", Phys. Rev. B (2009), **81**, 045324 (2010)
49. Sheng-Syun Wong, Woei Wu Pai*, Chia-Hao Chen, and Minn-Tsong Lin, "Coverage-tunable adsorption superstructure with high thermal stability: C₆₀/Cu(100)" Phys. Rev. B82, 125442 (2010)
50. Yi-Ren Tzeng*, Woei Wu Pai, C. S. Tsao, M. S. Yu, " Adsorption of Single Platinum Atom on the Graphite Oxide: The Role of the Carbon Lattice", J. Phys. Chem. C, 115, 12023 (2011)
51. X. Geng, X.Q. Shi, R. Q. Zhang, Woei Wu Pai, H. T. Jeng, M. A. van Hove, "Detailed low-energy diffraction analysis of the (4x4) surface structure of C-60 on Cu(111): seven-atom-vacancy reconstruction", Phys. Rev. B, 85, 075419 (2012)
52. H. C. Wu, C. C. Chang, H. P. Tseng, K. N. Lee, C. H. Tung, C. S. Tsao, M.S. Yu, W. W. Pai, Y.R. Tzeng, "Volumetric distribution of Pt nanoparticles supported on mesoporous carbon substrates studied by X-ray photoelectron spectroscopy depth profiling", Carbon, 54, 389 (2013)
53. P. T. Chen, Woei Wu Pai*, S. W. Chang, M. Hayashi, "Scanning Tunneling Microscopy and Density Functional Theory Studies of Adatom-Involved Adsorption of

- Methylnitrene on Copper(110) Surface”, Journal of Physical Chemistry C, 117, 12111(2013)
54. P. T. Chen, Woei Wu Pai, M. Hayashi, “A Minimum Cluster Model of Valence Electrons in Adatom-Assisted Adsorbed Molecules: NCH₃/Cu(110) and OCH₃/Cu(110)”, Journal of physical chemistry C, 118, 18, 9443 (2014)
55. R. Breitwieser, Y. C. Hu, Y. C. Chao, R. J. Li, Y. R. Tzeng, L. J. Li, S. C. Liou, K. C. Lin, C. W. Chen, Woei Wu Pai, “Flipping Nanoscale Ripples of Free-Standing Graphene using a Scanning Tunneling Microscope Tip”, Carbon, 77, 236 (2014)
56. S. C. Liou, C.-S. Shie, C. H. Chen, R. Breitwieser, W. W. Pai, G. Y. Guo, M.-W. Chu, “Pi-plasma dispersion in free-standing graphene by momentum-resolved electron energy loss spectroscopy”, Phys. Rev. B, 91, 045418 (2015)
57. K. Bairagi, A. Bellec, V. Repain, C. Chacon, Y. Girard, Y. Garreau, J. Lagoute, S. Rousset, R. Breitwieser, Y. C. Hu, Y. C. Chao, Woei Wu Pai, D. Li, A. Smognuov, C. Barreteau, “Tuning the magnetic anisotropy at a molecule-metal interface”, Phys. Rev. Lett., 24, 247203 (2015)
58. S. H. Huang, G. J. Shu, Woei Wu Pai, H. L. Liu, and F. C. Chou, ”Tunable Se vacancy defects and the unconventional charge density wave in 1T-TiSe_{2-d}”, Phys. Rev. B, 95, 045310 (2017)
59. S. G. Zybtsev, V. Ya. Pokrovskii, V. F. Nasretdinova, S. V. Zaitsev-Zotov, V. V. Pavlovskiy, A. B. Odobesco, Woei Wu Pai*, M.-W. Chu, Y. G. Lin, E. Zupani, H. J. P. van Midden, S. Sturm, E. Tchernychova, A. Prodan, J. C. Bennett, I. R. Mukhamedshin, O. V. Chernysheva, A. P. Menushenkov, V. B. Loginov, B. A. Loginov, A. N. Titov, and M. Abdel-Hafiez, ”NbS₃: A unique quasi-one-dimensional conductor with three charge density wave transitions”, Phys. Rev. B, 95, 035110 (2017)
60. R. Breitwieser, Y. C. Hu, Y. C. Chao, Y. R. Tzeng, S. C. Liou, K. C. Lin, C. W. Chen, Woei Wu Pai*, ”Investigating ultraflexible freestanding graphene by scanning tunneling microscopy and spectroscopy”, Phys. Rev. B, 95, 085433 (2017)
61. Jun-ichi Fujita, T. Hiayama, A. Hirukawa, T. Kondo, J. Nakamura, S. I. Ito, R. Araki, Y. Ito, M. Takeguchi, Woei Wu Pai*, ”Near room temperature chemical vapor deposition of graphene with diluted methane and molten gallium catalyst”, Scientific Reports, 7, Article No. 12371 (2017)
62. P. Chen, Woei Wu Pai, Y.-H. Chan, A. Takayama, C.-Z. Xu, A. Karn, S. Hasegawa, M. Y. Chou, S.-K. Mo, A.-V. Fedorov, T.-C. Chiang, ”Emergence of charge density waves and a pseudogap in single-layer TiTe₂”, Nature communication, 8, 516 (2017)
63. Chung-Huang Lin, Angus Huang, Woei Wu Pai*, Wei-Chuang Chen, Ting-Yu Chen, Tay-Rong Chang, Ryu Yukawa, Cheng-Maw Cheng, Chung-Yu Mou, Iwao Matsuda, T.-C. Chiang, H. -J. Jeng, S. -J. Tang, ”Single-layer dual phase germanene on Ag(111)”, Phys. Rev. Mater., 2, 024003 (2018)
64. Shin-Ming Lu, Wen-Yuan Chan, Wei-Bin Su, Woei Wu Pai, Hsiang-Lin Liu and Chia-Seng Chang, ”Characterization of external potential for field emission resonances and its applications on nanometer-scale measurements”, New Journal of physics, 20, 043014 (2018)
65. P. Chen, Woei Wu Pai, Y.-H. Chan, W.-L. Sun, C.-Z. Xu, D.-S. Lin, M.Y. Chou, A.-V. Fedorov and T.-C. Chiang, ”Large quantum-spin-Hall insulator with a large gap: single-layer 1T' WSe₂”, Nature communication, 9(1):2003 (2018)
66. P. Chen, Woei Wu Pai, Y.-H. Chan, V. Madhavan, M. Y. Chou, S.-K. Mo, A.-V. Fedorov, and T.-C. Chiang, ”Unique gap structure and symmetry of the charge density wave in single-layer VSe₂”, Phys. Rev. Lett., 121, 196402 (2018)
67. E. Zupanič, H. J. P. van Midden, M. A. van Midden, S. Šturm, E. Tchernychova, V. Ya. Pokrovskii, S. G. Zybtsev, V. F. Nasretdinova, S. V. Zaitsev-Zotov, W. T. Chen, Woei Wu Pai*, J. C. Bennett, and A. Prodan, ”The basic and the charge density wave modulated structures of NbS₃-II”, Phys. Rev. B, 98, 174113 (2018)
68. S. Chiniwar, Angus Huang, T. -Y. Chen, C.-H. Lin, C.-R. Hsing, W.-C. Chen, C.-M. Cheng, H.-T. Jeng, C. M. Wei, Woei Wu Pai*, and S.-J. Tang, ”Substrate-mediated umklapp scattering at the incommensurate interface of a monatomic alloy layer”, Phys. Rev. B, 99, 155408 (2019)

69. M. Abdel-Hafiez1,R. Thiagarajan, A. Majumdar, R. Ahuja, W. Luo, A. N. Vasiliev, A.A. Maarouf, S.G. Zybtsev,V. Ya. Pokrovskii, S. V. Zaitsev-Zotov, V.V. Pavlovskiy, Woei Wu Pai, W. Yang, and L.V. Kulik, "Pressure-Induced Re-entrant transition in NbS₃ Phases: Combined Raman Scattering and X-ray Diffraction Study", Phys. Rev. B, 99, 235126 (2019)
70. S. G. Zybtsev, V. Ya. Pokrovskii, V. F. Nasretdinova, S. V. Zaitsev-Zotov, V. V. Pryadun, E. S. Kozlyakova, O. S. Volkova, A. N. Vasiliev, Woei Wu Pai*, and D. Starešinić, "Thermoelectric power and its correlation with conductivity in NbS₃ whiskers", Phys. Rev. B, 99, 235155 (2019)
71. I.G. Gorlova, A.V. Frolov, A.P.Orlov, V. Ya. Pokrovskii, Woei Wu Pai, "Field effect in linear and non-linear conductivity of a layered quasi-one-dimensional semiconductor TiS₃",JETP, 110, 417(2019)
72. 72. W.B. Su, S.M. Lu, H.T. Jeng, W.Y. Chan, H.H. Chang, W.W. Pai, H.L. Liu, C.S. Chang, Observing quantum trapping on MoS₂ through the lifetimes of resonant electrons: revealing the Pauli exclusion principle, Nanoscale Advances, 2 5848 (2020).
73. 73. T.Y. Chen, D. Mikolas, S. Chiniwar, A. Huang, C.H. Lin, C.M. Cheng, C.Y. Mou, H.T. Jeng, W.W. Pai, S.J. Tang, Germanene structure enhancement by adjacent insoluble domains of lead, Physical Review Research, 3 (2021).
74. 74. S.G. Zybtsev, V.Y. Pokrovskii, V.F. Nasretdinova, S.V. Zaitsev-Zotov, E. Zupanic, M.A. van Midden, W.W. Pai, The ultra-high-T-P charge-density wave in the monoclinic phase of NbS₃, Journal of Alloys and Compounds, 854 (2021).
75. 75. R. Harsh, S. Mondal, D. Sharma, M. Bouatou, C. Chacon, M. Ilyn, C. Rogero, V. Repain, A. Bellec, Y. Girard, S. Rousset, R. Sankar, W.W. Pai*, S. Narasimhan, J. Lagoute, Identification and Manipulation of Defects in Black Phosphorus, Journal of Physical Chemistry Letters, 13 (2022) 6276-6282.
76. 76. A. Karn, Y.H. Chan, U. Chazarin, P. Chen, W.W. Pai*, Modification of monolayer 1T-VSe₂ by selective deposition of vanadium and tellurium, Aip Advances, 12 (2022).
77. 77. U. Chazarin, M. Lezoualc'h, J.P. Chou, W.W. Pai*, A. Karn, R. Sankar, C.C. Chacon, Y. Girard, V. Repain, A. Bellec, S. Rousset, A. Smogunov, Y.J. Dappe, J. Lagoute, Formation of Monolayer Charge Density Waves and Anomalous Edge Doping in Na Doped Bulk VSe₂, Advanced Materials Interfaces, 10 (2023).

Patents:

- "Self-organized formation of quantum dots of a material on a substrate", USA #6,313,479, by Zhang Zhenyu, Wendelken John F, Chang Ming-Che, Pai Woei Wu
- "Radio frequency reflectometry scanning tunneling microscope", Woei Wu Pai, Huan-Hsin Li, I-Jan Chen, Yen Chen Chao, USA (US8863311 B1), Republic of China (I504900), Germany (102014220698), China.

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